



**Research Foundation  
of The City University of New York**

**Annual Report  
2002**



researchfoundationcuny | celebrating 40 years of service



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## Letter from the Chairman and the President

We are pleased to present the 2002 Annual Report of The Research Foundation of The City University of New York. An Annual Report is, among other things, a look into an organization's rearview mirror. It devotes itself largely to informing the reader about where the enterprise has been and how it has used its resources to get there. For the Research Foundation, and the diverse community we serve, the year 2002 was certainly one of significant achievements—financially, programmatically, and organizationally. Placing the needs of our customers at the center of what we do continues to inform our policies and practices. Some of the more significant accomplishments of the past year are presented in the pages that follow.

Yet, even as we review and recall those achievements from 2002, we look at 2003, when we mark a milestone in our history—the 40th anniversary of our founding. It was January 24, 1963, when the New York State Board of Regents granted the Absolute Charter (Number 8302) of The Research Foundation of The City University of New York, with the following purposes:

- a. To assist in developing and increasing the facilities of The City University of New York to provide more extensive educational opportunities and service to its constituent colleges, students, faculties, staffs and alumni, and to the general public, by making and encouraging gifts, grants, contributions and donations of real and personal property to or for the benefit of The City University of New York;
- b. To receive, hold and administer gifts or grants, and to act without profit as trustee of educational or charitable trusts of benefit to and in keeping with the educational purposes and objects of The City University of New York; and
- c. To finance the conduct of studies and research in any and all fields of intellectual inquiry of benefit to and in keeping with the educational purposes and objects of The City University of New York and/or its constituent colleges, and to enter into contractual relationships appropriate to the purposes of the Corporation.



On July 1, 1970, the university assigned to the Foundation responsibility for administering all grants and contracts awarded to any unit in the university. And on October 20, 1983, the extant agreement between CUNY and the RF re-affirmed the relationship and once more delineated the Foundation's exclusive responsibilities in the area of sponsored programs.

In the 40 years that have passed since its creation, the Research Foundation has overseen hundreds of millions of dollars worth of activity on behalf of CUNY, as well as other public and private organizations. As the 1983 agreement states, "research, training and service activities are basic obligations of the University, the colleges and the faculty, and it is in the public interest that faculty be assisted in such endeavors," and that, "research is a necessary activity for the maintenance of professional competence, and also serves the city, state, and nation by advancing the frontiers of knowledge in the academic disciplines."

The Research Foundation is proud of the role it has played during its first 40 years in helping CUNY advance its goals. Of course, as any good driver knows, although it is important to glance into the rearview mirror frequently, it is far more critical to focus on the road ahead. We therefore look forward with great anticipation to rounding the next curve and meeting tomorrow's challenges and opportunities on behalf of The City University and our other public and private clients. If the past is truly prologue, then the best is yet to come.

**Matthew Goldstein**  
Chairman of the Board

**Richard F. Rothbard**  
President

## Year in Review

Welcome to the Fiscal Year 2002 Annual Report of The Research Foundation of The City University of New York. It covers the period July 1, 2001 through June 30, 2002. Within its pages the reader will find information on the varied activities that the Foundation supports, accompanied by independently audited financial statements.

### History and Purpose

Chartered by the State of New York in 1963, the Research Foundation (RF) is a private, not-for-profit educational corporation that engages in the post-award administration of private and governmental sponsored programs<sup>1</sup> at The City University of New York (CUNY). Activities include, but are not limited to, research in the natural and social sciences, training, curriculum planning, assessment, job placement, program evaluation, and software development.

The Foundation also provides, on a limited basis, direct administrative services to other organizations. An example is the September 11th Fund, which recently selected the Research Foundation as its fiscal services provider for the dispersal of direct aid and job training funds for individuals who remain unemployed as a result of the attacks of September 11, 2001. By the time this program is operating at full capacity, the Foundation anticipates issuing recurring payments to dozens of education and training service providers throughout New York and New Jersey, as well as to thousands of displaced workers.

In addition to these activities, the Foundation also administers the PSC/CUNY Research Awards. This program, which is funded under the collective bargaining agreement between the university and its faculty union, provides financing for faculty members, particularly those in the junior ranks, to engage in, and become familiar with, research in the expectation that this in-house support will ultimately lead to external funding.

### Governance

Although it has been closely associated with CUNY throughout its 40 years, the Foundation is governed by its own Board of Directors, issues its own independently audited annual financial statements, operates its own payroll system, manages a fringe benefits plan, and purchases a wide variety of goods and services in accordance with its own rules and regulations.

The Foundation was created because the distinctive environment of sponsored programs requires a separate entity not subject to the restrictions that are imposed upon the operations of state agencies, like CUNY. Maximum flexibility is needed to be responsive to sponsor requirements and to address the short-term nature of sponsored program funding. Furthermore, the employee base is a highly transient one, owing to the special nature of sponsored programs. This environment presents significant employment and management challenges that the Foundation is uniquely qualified to address.

### Finances and Operations

The RF acts as a custodian for the funds that support sponsored programs. Recipients of grants and contracts, who in official parlance are referred to as principal investigators (PI's), deposit funds into the equivalent of individual project accounts. The faculty member or administrator, as the PI, spends the funds in accordance with the sponsor's requirements and timeframe, as determined by the approved budget of the grant or contract. This program budget may include salaries of project employees, fringe benefits, equipment, supplies and professional services. When the program ends,

the RF account is closed. Programs may last for one year, others for two or three, and occasionally some last for longer than five years. While the RF administers hundreds of millions of dollars in awards annually (a record \$287,000,000 in 2002), it does not own these funds, and it can expend these funds only for the purposes stated in the grant or contract and as directed by the PI or other authorized project staff. Funds from one project or purpose are not used to support a different project or purpose.

In addition to providing a central repository for sponsored program funds, the RF performs a variety of administrative services, thereby enabling principal investigators to concentrate on carrying out the purposes of the sponsored programs. These services are in the areas of payroll, fringe benefits, pension, accounting, purchasing, contracting, legal, patents and copyrights, human subject compliance, insurance, construction, sponsor reporting, agency liaison, leasing, immigration, and investment. The RF also sponsors conferences and seminars to educate PI's and potential PI's on a variety of issues and to assist them in securing program support.

During the most recent year, the Foundation:

- Employed 11,900 individuals
- Paid an average of 4,500 people in each bi-weekly pay period
- Hired 3,000 replacement staff

The overwhelming majority of staff work on CUNY's nineteen campuses and are funded from the individual grant or contract budgets. They are referred to as project staff and are found working mainly in laboratories and classrooms under the direct supervision of the PI's. About 130 staff members are employed full- and part-time at Foundation headquarters, or Central Office. This last group consists of individuals who perform the various administrative functions listed above in support of the PI's and their sponsored activities.

To fund Central Office operations, the RF depends upon a fee for services charged against the sponsored program budgets. All sponsored programs have direct costs, that is, the resources necessary to achieve the program objectives. Most sponsors also allow an overhead charge for the cost of the space, utilities and maintenance of the premises used to perform the programs at the colleges. These costs are usually calculated as a percentage of the direct costs. This overhead charge is known as the indirect cost or the facilities and administrative rate (the term used by the federal government) and the amount permitted varies depending upon the sponsor. Funds remaining after paying for direct costs and the RF fee are available to help colleges support generally the academic and research enterprise. Other income that supports Foundation operations includes direct fees for contracted services, investment income, and licensing fees.

The Foundation works closely with staff on the campuses, particularly the Grants Officers, who handle much of the pre-award activity including working with faculty and others on proposal preparation and submission. RF also maintains close contact with the CUNY University Dean of Research, who identifies prospects for multi-campus collaborations and coordinates proposals within the University Office of Academic Affairs.

1. A sponsored program is one that obtains its funding from an external source, and that requires the recipient to carry out a specified activity within a specified time period, with reportable or measurable results.

### **Technology and Innovation**

The Research Foundation is in the forefront when it comes to the use of technology to serve its customers. Processes that in the recent past took weeks or months, and generated mounds of paper, are now handled electronically over the web in minutes. Not only has the need for paper been reduced markedly, and processing speed increased exponentially, but the opportunities for human error (frequently the most frustrating) have been nearly eliminated from many of the most important functions carried out between the field and the Central Office. Personnel actions, timesheets, financial reporting, and leave accruals are now handled electronically. In the future, purchasing, payroll advices, and other functions will be added to the existing suite of web-based services.

In addition to expediting processing, the Foundation's web site is being used to inform the Foundation's customers of new funding opportunities, changes in sponsor regulations, research news, legislation, contact information, and employment opportunities.

### **The Annual Report and Beyond**

The pages that follow tell the story of the Research Foundation through the activities of the thousands of faculty and staff whose work both expands the frontiers of knowledge and contributes to the welfare of our city, state and nation by bringing to bear real solutions for real problems. While it is not possible to present the entire universe of research, training, educational, and service activities that receive sponsor support, the highlights that have been selected provide a representative overview of the more than one quarter billion dollars of awards received in FY 2002. It is an impressive picture to be sure, but a limited one. As a mere snapshot in time, it does not do justice to the dynamic nature of the sponsored program enterprise that animates the university in so many different and exciting ways.

The accompanying financial information has been newly formatted and expanded to make the Foundation's operations more transparent and accessible. It creates a framework for appreciating the successes of our clients, as well as evaluating the performance of the Foundation.

The Research Foundation provides essential services to CUNY and, increasingly, to others, and all those who contribute to its activities look forward with great anticipation to an expanded role in the years ahead.

## Board of Directors

### Matthew Goldstein

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Chancellor, CUNY

### Frances Degen Horowitz

Vice-Chairperson,  
President, Graduate School and  
University Center

### Richard Donovan

Professor, English  
Bronx Community College

### Azriel Z. Genack

Distinguished Professor, Physics  
Queens College

### Christoph Kimmich

President  
Brooklyn College

### David Lyons

Former Vice-President for  
Finance/Administration  
Rockefeller University

### Eduardo Martí

President  
Queensborough Community College

### Paul McBreen

Doctoral Student Council  
Graduate School and  
University Center

### Gail Mellow

President  
LaGuardia Community College

### Louise Mirrer

Executive Vice Chancellor for  
Academic Affairs, CUNY

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Distinguished Professor, Chemistry  
College of Staten Island

### Rodney W. Nichols

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### Marlene Springer

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### Kathryn Wylde

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### Joanne Mihas

Senior Associate Counsel

#### OFFICE OF INTERNAL AUDIT

### Mahadeo Ramprasad

Internal Auditor

## Board of Directors Biographies

### MATTHEW GOLDSTEIN

Dr. Matthew Goldstein was appointed Chancellor of the City University of New York, effective September 1, 1999. He is the first CUNY graduate (City College, Class of 1963) to lead the nation's most prominent urban public university. Dr. Goldstein has served in senior academic and administrative positions for more than twenty years, including President of Baruch College, President of the Research Foundation and Acting Vice Chancellor for Academic Affairs of CUNY. Immediately preceding his appointment as Chancellor, he served as President of Adelphi University. Dr. Goldstein earned his doctorate from the University of Connecticut in mathematical statistics, and a bachelor's degree in statistics and mathematics with honors from The City College of The City University of New York. He has held faculty positions in mathematics and statistics at Baruch College, the CUNY Graduate School and University Center, Polytechnic University of New York, Cooper Union, Eastern Connecticut State University, and the University of Connecticut.

He is the co-author of three books: *Discrete Discriminant Analysis*, published by John Wiley & Sons; *Intermediate Statistical Methods and Applications*, published by Prentice Hall; and *Multivariate Analysis*, published by John Wiley & Sons. In addition, he has written many articles for leading scholarly publications in mathematics and statistics.

Currently, Dr. Goldstein is a member of the Board of Trustees of the Albert Einstein School of Medicine and of the Bronx-Lebanon Hospital Center. He serves in the capacity of Director for numerous organizations including the New Plan Excel Realty Trust, Inc., the Lincoln Center Institute for the Arts in Education, the Jewish Community Relations Council of New York, Inc., the United Way of New York City, and the Council on Research and Technology (CORTECH). He has been recently appointed to the New York Administrative Committee of Fleet National Bank and continues to serve as an ex-officio Trustee for the Jean Cocteau Repertory. As a gubernatorial appointee, Dr. Goldstein served on Governor George E. Pataki's Advisory Committee for the Rivers Institute, as a member of the Research and Development Subcommittee for the Governor's Conference Committee of Science and Technology and on the Governor-Elect's Higher Education Transition Task Force. He has also served as a member of Senator Charles Schumer's Group of 35 Blue-Ribbon Task Force on NYC Commercial Space. For New York State's Commissioner of Education he has served on the Advisory Council on Higher Education, and has served as a member of the American Association of State Colleges and Universities' Committee on Policies and Purposes. In service to the State of New York, he has served as a member of the Advisory Council on Economic Information and Research of the NYS Department of Economic Development, and the New York State Senate Higher Education Committee's Advisory Committee, and more locally he has served as a member of New York City Partnership's Technology Executive Council. Dr. Goldstein also formerly served as the Director of Audits and Surveys Worldwide, as a Director for the Health-Chem Corporation and as the President of the New York Chapter of the American Statistical Association.

Among his honors are the Jewish National Fund Tree of Life Award, the Townsend Harris Medal, the Lower East Side Multicultural Festival 2001 Liberty Award for Distinguished Accomplishments in the Field of Education, the Italo-American Associations' Leadership in Education and Public Service Award, and the 2002 Ellis Island Medal of Honor. He is a member of Beta Gamma Sigma and the Golden Key Honor Society and a Fellow of the New York Academy of Sciences.

### FRANCES DEGEN HOROWITZ

Frances Degen Horowitz, a nationally recognized educational leader and renowned developmental psychologist, is President of the Graduate Center of The City University of New York. Dr. Horowitz came to The Graduate Center in September 1991 from the University of Kansas, Lawrence, where she was Vice Chancellor for Research, Graduate Studies and Public Service and Dean of the Graduate School.

Acclaimed for her research in infant behavior and development, she is a Fellow of the Division of Developmental Psychology of the American Psychological Association, and the author of more than 120 articles, chapters, monographs, and books. She recently served as President of the Society for Research in Child Development, is on the founding Advisory Board of the Sackler Institute for Human Brain Development, is a member of the advisory council for the National Institute of Child Health and Human Development at NIH, a member of the Overseers' Committee to Visit the Department of Psychology at Harvard University, a Fellow of the American Association for the Advancement of Science, and a Fellow of the New York Academy of Sciences. Her lecturing and teaching have taken her to Israel, the People's Republic of China, and throughout Central and South America.

Dr. Horowitz has held many leadership roles in educational and civic organizations. Among other roles, she served as member of the Board of Directors of the National Association of State Universities and Land Grant Colleges (NASULGC) and as a member of the Commission on Women in Higher Education of the American Council on Education. Dr. Horowitz is a native New Yorker. She received her B.A. in philosophy from Antioch College, a master's degree in elementary education from Goucher College, and a Ph.D. in developmental psychology from the University of Iowa.

### RICHARD DONOVAN

Professor Richard Donovan received his B.A. and M.A. from the University of Notre Dame and earned a Ph.D. from the University of Minnesota in English in 1967. He came to CUNY in 1970 as Associate Professor of English and Assistant Dean of Faculty at Bronx Community College. At Bronx Community College, he oversaw and taught in the College's open admissions program.

In 1975, he founded a not-for-profit, campus based organization, now the National Center for Educational Alliances, which specializes in helping institutions and educational systems supporting at-risk students. Over the past 27 years, assisted by different funders, the Center has been working with a variety of national and international collaboratives. They include: the Urban Community College/Transfer Opportunity Program, 1983–1988, the Ford Foundation; the Urban Partnership Program, 1989–2000, the Fund for the Improvement of Postsecondary Education: the South Africa Partnership Program, for Ford and USAID, 1997–2000; and Gear UP, for the Department of Education, 1999–2001. During this period he taught regularly at Bronx Community College. His research and writing have turned from Shakespeare and Renaissance drama, the area of his doctoral and early career work, and have come to focus on public policy and specific reform initiatives in the United States and South Africa. Currently, Dr. Donovan is at work on a book that examines the work of educational activists in New York, California, and KwaZulu Natal.

## AZRIEL Z. GENACK

Azriel Z. Genack is a Distinguished Professor at Queens College. He received his B.A. Degree from Columbia College and his Ph.D. in physics from Columbia University. Following his graduate studies he became a Postdoctoral Research Associate at the City College of the City University of New York and then at the IBM Research Laboratory in San Jose. He joined the staff of the Corporate Research Laboratories of the Exxon Research and Engineering Company in 1977 and served there until he joined the Department of Physics of Queens College in 1984. He served as Professor of Physics until 1994 when he was appointed as Distinguished Professor. Dr. Genack has served as a Faculty Consultant to the Exxon Research and Engineering Company from 1984 until 1986. He cofounded Chiral Photonics, Inc. in 1999 and has continued to advise the company.

In 1993, Dr. Genack became a Fellow of the American Physical Society. He was a Senior Fulbright Fellow at Technion in 1999. He received the Hewlett-Packard SPIE Best Paper Award in 1999 for his paper on lasing in cholesteric liquid crystals. He received the Queens College Presidential Research Award in 1992 and served as a Queens College Scholar in Residence in 1991.

At Queens College, Dr. Genack has been involved in the study of classical wave propagation in ordered and disordered media. Dr. Genack's group has used microwave and optical measurements to develop a statistical approach to wave transport based upon the degree to which waves in a sample are localized. The group has determined the relationships between the statistics of fluctuations of field intensity and total transmission, non-local intensity correlation, and average transport as functions of space, polarization, time, and frequency for both propagating and localized waves. In work carried out before coming to Queens College, Dr. Genack has demonstrated the diffusion of nuclear magnetism in superconductors, measured the spectrum of excitons in semiconductors, demonstrated the use of photochemical hole burning to measure the intrinsic line width of molecules in solids, developed methods of coherent transient spectroscopy such as frequency and phase switching and measured the loss of coherence in atoms, molecules and solids, and has demonstrated that the origin of surface enhanced Raman scattering from molecules on metal surfaces is the resonant excitation of plasmons on the rough surface.

## CHRISTOPH M. KIMMICH

President Christoph Kimmich was educated at Haverford College (B.A. 1961) and Oxford University (D.Phil. 1964). He trained as a historian of modern Europe. He was elected to Phi Beta Kappa. He came to Brooklyn College in 1973 after eight years of teaching at Columbia University. He was a member of the Department of History at Brooklyn College and on the faculty of the CUNY Graduate School. Dr. Kimmich served as chairman of the Department of History from 1980 to 1984, when he was appointed Associate Provost. He became Acting Provost in 1988 and Provost the following year. He was appointed Interim Chancellor of the The City University of New York in November of 1997 and served until September 1999. Dr. Kimmich was appointed President of Brooklyn College, effective February 2000.

Dr. Kimmich has written several books on German foreign policy in the period between the two World Wars as well as articles on this subject and on other subjects in German history. He has lectured here and abroad. Dr. Kimmich has been awarded, among others, a Fulbright Scholarship, an International Affairs Fellowship, and a Guggenheim Fellowship. He spent the academic year 1974-75 at the Council on Foreign Relations in New York, and the academic year 1983-84 as a Visitor at the Institute for Advanced Study at Princeton. Dr. Kimmich is listed in *Who's Who in America* and the *Directory of American Scholars and Contemporary Authors*.

## DAVID J. LYONS

David Lyons was Vice President for Business and Finance and Treasurer of The Rockefeller University until his retirement from that position in 1996. After joining the university in 1970 as Director of Economic Planning, he served as a key financial strategist and administrator under four university presidents. Prior to joining The Rockefeller University, he held administrative appointments at the University of Chicago and the University of Rochester. David Lyons received his undergraduate and master's degrees in business administration from the University of Chicago.

He is currently a director of the American Skin Association, The Medical Library Center of New York, the Research Foundation of The City University of New York and Venrock Associates, Inc. He is a certified public accountant. He has served on the boards and taken a leadership position in the affairs of several organizations and received numerous awards for accomplishments in higher education financial management including the 1997 Distinguished Business Officer Award from the National Association of College and University Business Officers. Previous awards include NACUBO's Daniel D. Robinson and Neal O. Hines Awards and the CAUSE (now EDUCAUSE) Award for exemplary leadership in the advocacy and support of administrative systems in higher education. He has been a consultant to software organizations and to colleges and universities.

Some past professional activities include: NACUBO Board Member and chair of its Accounting Principles Committee, Council on Governmental Relations Board Member and chair of its Costing Policies Committee, member of the Financial Accounting Standards Advisory Council (FASAC) and chair of its Nonprofit Institutions Committee and member of advisory committees for FASB and the AICPA including the committee that wrote the first draft of SFAS 117.

## EDUARDO J. MARTÍ

Eduardo J. Martí was appointed President of Queensborough Community College on July 1, 2000. An experienced educator who has led several community colleges with distinction, Dr. Martí previously served for six years as President of Corning Community College of the State University of New York (SUNY), and for eight years prior, as President of SUNY's Tompkins Cortland Community College. Dr. Martí also served as Executive Dean of Tunxis Community College and Acting President of Middlesex Community College, both located in Connecticut.

An advocate for community college education, high standards and traditional values of education, Dr. Martí is a member of the ACE Commission on International Education, as well as a member of the Board of the Cornell Institute for Community College Development. He has served as past President of the Association of Presidents of Public Community Colleges of the State of New York and Chair of the Small and Rural Commission of the American Association of Community Colleges; member of the Executive Committee of the American Association of Community College President's Academy; member of the Commission on Secondary Education of the Middle States Association. Active too, within each community of which he was part, Dr. Martí has held positions as President of the United Way of Tompkins County, member of the Private Industry Council of Steuben, Schuyler and Chemung Counties, and honorary member of the Ithaca and Corning Rotary Clubs. He is currently a member of the Queens Chamber of Commerce and serves on the Board of Directors of the Queens Symphony Orchestra and Starfish Theatre Works. Dr. Martí serves as Chairman of the Queensborough Community College Fund, Inc., Queensborough Community College's primary fundraising organization that opens the Bayside campus to the community by sponsoring numerous educational and cultural events and programs.

Three times a graduate of New York University, Dr. Martí holds a Bachelor of Arts, Master of Science, and Ph.D. degrees in biology from the institution.

#### **PAUL McBREEN**

Paul McBreen is majoring in Classics and teaching Latin and Greek this semester at City College. In past years, while holding a Graduate Teaching Fellowship at Brooklyn College, Paul taught Core 1: The Classical Origins of Western Culture. With one semester at Hunter, his CUNY experience became even more well rounded. As a steering committee member of the DSC, Paul sees much opportunity to become involved in the larger operations of the Graduate Center whereas previously his experience was largely limited to program-related events. He hopes to guide other students to the many weekly offerings of lectures, films, and receptions which they may otherwise overlook. Within the Graduate Center, a favorite ongoing event of his is the film series offered by the Mathematics program on Friday evenings. Paul's recommendations for events beyond the Graduate Center include performances at the Amato Opera (Bowery and 2nd St.) for quality opera at low costs and the film series at MOMA (now at Gramercy Arts Theater), free with Graduate Center identification.

#### **GAIL O. MELLOW**

A social psychologist with extensive experience in higher education, Dr. Mellow is president of LaGuardia Community College in Queens, NY. She has served in various capacities at community colleges in Maryland, Connecticut, New York and New Jersey: as an adjunct faculty, tenured faculty, Academic Dean, Provost and President. In addition, Dr. Mellow was the Director of the Women's Center at the University of Connecticut and the Director of the Project on Women and Technology.

Active in community affairs, Dr. Mellow has served as a gubernatorial appointee to the New Jersey State Employment and Training Commission, a member of the New Jersey Commission of Higher Education Technology Committee, a member of the Executive Committee of the Gloucester County Workforce Investment Board, the Chair of the Northeast Connecticut Economic Alliance, as well as on the boards of many civic organizations. Dr. Mellow serves on several national higher education boards and commissions, including the American Association for Higher Education, the American Council of Education, and the American Association for Community Colleges.

Dr. Mellow is the co-author of two books and over 20 articles on community colleges, faculty evaluation, job training technology and teaching and learning. She received an Associates Degree from Jamestown Community College, a Baccalaureate from SUNY Albany, and her Master's and Doctorate from George Washington University.

#### **LOUISE MIRRER**

Dr. Louis Mirrer is Executive Vice Chancellor for Academic Affairs at the City University of New York. She previously served as Vice Provost for Arts, Sciences and Engineering at the University of Minnesota-Twin Cities, where she held joint appointments as Professor in the Departments of Spanish and Portuguese and Comparative Literature. She also chaired the Department of Spanish and Portuguese. Prior to her appointment at the University of Minnesota, Dr. Mirrer was a member of the faculty at Fordham University in New York and Chair of Fordham's Division of Humanities. Dr. Mirrer has also been visiting professor at the University of California-Los Angeles.

Dr. Mirrer's responsibilities include the development, planning, and implementation of University policies regarding academic programs and economic development, and the development of grant proposals and fundraising for special University-wide programs. She oversees the University's "Flagship Initiative," Honors College and Teaching Opportunity Program, and represents CUNY on the Board of the New

York Structural Biology Center. She also oversees the Office of Institutional Research and Analysis and the area of Instructional Technology. In the current fiscal year, the Office of Academic Affairs has already been awarded more than \$75 million in grants and contracts.

Outside the University Dr. Mirrer has continued to serve on committees of the Modern Language Association and International Association of Hispanists, and on the Visiting Advisors Board of the Salzburg Seminar, the College Board, the Society for Medieval Feminist Scholarship, and the editorial boards of several publications in the areas of language and medieval studies. She has published widely on language, literature, medieval studies, and women's studies, both books and articles, in Spanish and English, and has delivered papers at scholarly meetings in the United States and abroad. Her most recent book is *Women, Jews, and Muslims in the Texts of Reconquest Castile* (University of Michigan Press, 1996), a "deconstruction" of the medieval Castilian canon using contemporary theories of gender and race.

Dr. Mirrer holds a double Ph.D. in Spanish and Humanities and an MA in Spanish from Stanford University. She holds the Diploma in Linguistics from Cambridge University (England). Her baccalaureate is from the University of Pennsylvania where she graduated magna cum laude with Honors in Spanish.

#### **FRED R. NAIDER**

Fred R. Naider is Distinguished Professor of Chemistry and Biochemistry at the College of Staten Island and the Graduate School of the City University of New York. He received his B.Ch.E. and M.S. Ch.E. from Cornell University and Ph.D. in Polymer Chemistry from The Polytechnic Institute of Brooklyn. In 1973, following two years of postdoctoral research in the Department of Biophysics at the Weizmann Institute of Science, he assumed a position as Assistant Professor of Chemistry at Richmond College, CUNY and subsequently rose through the ranks at its successor institution, The College of Staten Island. Dr. Naider was a Research Career Development Awardee of the Institute of General Medical Sciences of the National Institutes of Health from 1975–1980. He has been a Varon Visiting Professor and Michael Visiting Professor at the Weizmann Institute of Science and was a Fulbright Fellow at this institution. Dr. Naider was chairperson of the Department of Chemistry from 1986–1995, was Acting Dean of Science in 1992–1993 and the Coordinator of the Neuroscience Programs at the College of Staten Island from 1999–2001. He was the Deputy Executive Officer for the Ph.D. Program in Biochemistry at the College of Staten Island from 1975–2002.

Professor Naider is a peptide chemist and his research is in the area of the interaction of these ubiquitous molecules with cells. He has spent the last thirty years attempting to understand how peptides cross cell membranes and how peptide hormones transmit information through the activation of G protein-coupled receptors. This latter family of receptors constitutes the largest family of membrane proteins in higher organisms and is involved in many physiological processes including vision, bone growth, blood pressure regulation, pain perception and general metabolism. A significant proportion of new pharmaceuticals are directed against these target proteins. Dr. Naider and his collaborators discovered a new family of peptide transports that are found throughout the biosphere and which are involved both in peptide digestion and the transport of antibiotics including the penicillins and blood pressure regulators; the ACE inhibitors. His work on G protein coupled receptors has provided important insights into the structure and function of these proteins. The National Science Foundation, The American Cancer Society, The Research Corporation, the National Institutes of Health and grants from private industry, have supported his work.

Professor Naider has published nearly 200 research articles in peer reviewed journals and has been invited to write 14 review chapters

on his research. He recently wrote the introductory chapter to a series of volumes summarizing progress in the field of Peptide Chemistry during the last 100 years. He is a reviewer for many prestigious journals, has served on the Bioorganic and Natural Products Study Section of the National Institutes of Health and is on the Editorial Board of the journal *Biopolymers*. He has consulted for a number of industrial companies including Mycopharmaceuticals Inc., BioResearch Inc., and Mediwound Inc. He is a member of the Science Policy Committee of the Federation of American Societies for Experimental Biology and chairs its Breakthroughs in BioScience Subcommittee.

#### **RODNEY W. NICHOLS**

Rodney W. Nichols was President and CEO of the New York Academy of Sciences from 1992 to 2001, was previously Scholar-in-Residence at the Carnegie Corporation of New York (1990–1992), and Vice President and Executive of The Rockefeller University (1970–1990). A Harvard graduate, he earlier served as an applied physicist, systems analyst, and R&D executive in industry and in the Office of the Secretary of Defense. Co-author of four books, he has written and lectured throughout the world on research and development trends in industry, government, universities, and their linkage across sectors.

Long active in international affairs, Mr. Nichols has participated in professional exchanges in China, Japan, Europe, Africa, and Latin America. He is on the Board of Advisors to Foreign Affairs, chaired the Committee on Science and Technology for Development (COSTED) of the International Council of Scientific Unions (ICSU), and co-chaired the Japan-U.S. Cooperative Science Program administered by the National Science Foundation. Mr. Nichols represented the U.S. government in international negotiations on arms control as well as on technology and capacity building in developing countries. As a member of the Executive Committee of the Carnegie Commission on Science, Technology, and Government (1989–1994), Mr. Nichols was principal author of the Commission's January 1992 report entitled *Science and Technology in U.S. International Affairs*. He also was Vice Chair to former President Jimmy Carter for the Commission's December 1992 report on *Partnership for Global Development*. He co-authored chapters on "Science and Technology in North America" for UNESCO's biennial *World Science Report* (1994, 1996, and 1998), chaired a study group's report from the Council on Foreign Relations (CFR) on *Exporting U.S. High Tech* (1997), prepared the entry on "Science and Technology" for Oxford's *Encyclopedia of U.S. Foreign Relations* (1997), and chaired a research project of the CFR on *Technology Policy in Managing Global Warming* (2001).

In the New York area, he is active in professional groups and industry-university partnerships. A founding participant on the Selection Panel for the American Committee for the Weizmann Institute's Women in Science Award, Mr. Nichols serves on the Advisory Council to the American Ditchley Foundation, the Eugene Lang College Board within the New School University, and the Christopher Reeve Paralysis Foundation Board. He has worked on Mayor Giuliani's Task Force on Biotechnology and Biomedical Research, and has testified before the City Council on Technology in economic development, the biotechnology industry, and linkages for universities with industry.

He has advised the White House Office of Science and Technology Policy; the State, Defense, and Energy Departments; the National Institutes of Health; the National Science Foundation; the United Nations; the U.S. Congress Office of Technology Assessment; and the National Academies of Sciences and Engineering. He has served on several nonprofit boards such as the American University in Beirut, the Harbor Branch Oceanographic Institution, and the Advisory Board to the Critical technologies Institute (operated by RAND for the White House OSTP). His consulting to private firms includes the central research laboratory of GTE and Shell Technology Ventures. Elected

a Fellow of the AAAS and of the New York Academy of Sciences, Mr. Nichols is a member of the American Physical Society, Council on Foreign Relations, and Sigma Xi. He was awarded the Secretary of Defense Medal for Distinguished and Meritorious Civilian Service, the Distinguished Patriot Award of the Sons of Revolution (1996), and an Hon. D. Sci. by Cedar Crest College (2001).

#### **MARLENE SPRINGER**

Dr. Marlene Springer was appointed President of the College of Staten Island (CSI), the City University of New York, and took up her position in September 1994. A specialist in nineteenth century British and American literature and women's literature, Dr. Springer earned her Ph.D in English Literature and her M.A. in American Literature at Indiana University, Bloomington. She received her Bachelor's degree in English and Business Administration at Centre College in Kentucky. Dr. Springer was Vice Chancellor for Academic Affairs at East Carolina University prior to her appointment at CSI. Previously she was named Associate Vice Chancellor for Academic Affairs and Graduate Studies at the University of Missouri-Kansas City in 1985, having earlier served there as Acting Associate Dean, Chair of the Department of English, and as a member of the faculty from 1970. She was chosen as a Fellow of the American Council on Education Administration in 1982, and served as Visiting Professor at Universidade Federal Fluminense, in Rio de Janeiro, Brazil in 1975.

She is the author of *A Focus: Reflections on the Presidency, The Presidency*, Spring 1999, American Council on Education; *Ethan Frome: A Nightmare of Need*, published in 1993; *Thomas Hardy's Use of Allusion*, and *Edith Wharton and Kate Chopin: A Reference Guide*, editor with Haskell Springer of *Plains Woman: The Diary of Martha Farnsworth*, and editor of *What Manner of Woman: Essays on English and American Life and Literature*, which has been translated into Japanese. She has also written numerous other articles, and lectured in China, Yugoslavia, Brazil, and several other foreign countries.

Nationally recognized as an education administrator, Dr. Springer is a member of the Board of Directors of the American Council on Education (ACE); chaired the Commission on the Role of Teacher Education, of the Association of Teacher Educators in 1992; and serves as chair for Board of Directors, the College Consortium for International Studies (CCIS). She also serves on national committees in the American Association of State Colleges and Universities, Presidents' Council National Collegiate Athletic Association (NCAA), and several other national organizations. Most recently, Dr. Springer has been appointed by Mayor Bloomberg to serve on the New York City Charter Revision Commission.

#### **KATHRYN S. WYLDE**

Kathryn S. Wylde is President & CEO of The Partnership For New York City, the city's premier business leadership organization. Established by David Rockefeller, the Partnership has been responsible for significant programs in housing and economic development, education, public safety and employment. She is also the founding President & CEO of the New York City Investment Fund, the Partnership's economic development arm that was founded and is chaired by Henry R. Kravis. The Fund, which has more than \$100 million under management, was among the original civic investment funds organized to provide financial support and business expertise for projects that stimulate job creation and economic growth in New York City and its neighborhoods.

From 1982–96, she served as founding President & CEO of the nonprofit New York City Housing Partnership, building it into one of the nation's largest producers of affordable housing. The Housing Partnership has sponsored development of more than 20,000 owner-occupied homes and rental apartments, valued in excess of \$2.5 billion, and spurred revitalization of economically distressed communities.

She has led efforts to bring minorities and women into the mainstream of the city's affordable housing industry, creating development and financing programs that enabled more than fifty minority and women owned companies to become bankable developers.

An internationally known expert in housing and economic development, she has advised or consulted with foundations, cities and nonprofit organizations and authored a number of articles and policy papers. Prior to joining the Partnership, she led a nonprofit community development corporation in Brooklyn, served as a senior executive in a community hospital and administered the community reinvestment program of a major savings bank.

Currently, she serves on the boards of the Biomedical Research Alliance of New York, Lutheran Medical Center and the Manhattan Institute. She is on a number of advisory boards, including the Center for an Urban Future, CUNY Business Advisory Board and the Assembly Speaker's School Governance Advisory Committee. She graduated with a Bachelor of Arts degree, Phi Beta Kappa, from St. Olaf College in 1968. She received an Honorary Doctorate of Humane Letters from St. Francis College, Brooklyn, in 1998.

#### **MICHAEL J. ZAVELLE**

Michael Zavelle has been the Senior Vice President and Chief Administrative Officer of The New York Public Library since 1995. Prior to his work at The New York Public Library, he served for three years at Baruch College of The City University of New York as Executive Vice President for Administration, nine years in Hong Kong and Tokyo with The Chase Manhattan Bank initially as the Chief Financial Officer for Chase Manhattan Asia Ltd. and subsequently as Managing Director for Capital Markets responsible for Korea, Taiwan, China, Hong Kong, the Philippines, PNG and then Japan, three years at Brooklyn College of The City University of New York as Vice President for Administration, a year as Senior Financial Analyst for Europe and the Middle East for Chase Manhattan Bank in New York, and six years at Fisk University in Nashville, Tennessee initially as a Woodrow Wilson National Fellowship Foundation Administrative Intern and Assistant to the University Vice President and subsequently as the Vice President for Business and Finance.

Mr. Zavelle is a 1968 graduate of Dartmouth College with an AB in Economics. In 1971, he received an MBA from Harvard Business School. Mr. Zavelle is a member of the Board of Trustees of the Bryant Park Restoration Corporation, and has been the President of the Board of Governors of The Research Collections and Preservation Consortium, Inc. (ReCAP) since its incorporation in June 2000. ReCAP is a high-density environmentally correct modular book shelving facility located on the Forrestal Campus of Princeton University in which Columbia University (43%), Princeton University (14%) and NYPL (43%) have different capital shares but are equal governance partners.

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## The City University of New York Centers, Institutes, and Consortia

### **BARUCH COLLEGE**

Baruch College Survey Research Unit  
Bernard L. Schwartz Communication Institute  
Center for Educational Leadership  
Center on Equality, Pluralism and Policy  
Center for Financial Integrity  
Center for Innovation and Leadership in Government  
Center for the Study of Business and Government  
Lawrence N. Field Center for Entrepreneurship and Small Business  
Steven L. Newman Real Estate Institute  
Subotnick Financial Services Center/Bert W. and Sandra Wasserman Trading Floor  
Weissman Center for International Business

### **BROOKLYN COLLEGE**

Africana Research Center  
Applied Science Institute  
Applied Vision Institute  
Archeological Research Center  
Aquatic Research and Environmental Assessment Center (AREAC)  
Center for Child and Adult Development  
Center for Computer Music  
Center for Diversity and Multicultural Studies  
Center for Health Promotion  
Center for Human Relations  
Center for Italian American Studies  
Center for Latino Studies  
Center for Nuclear Theory  
Center for Study of World Television  
Children's Studies Center  
Electrochemistry Institute  
Environmental Science Institute  
Ethyle R. Wolfe Institute for the Humanities  
Infant Study Center  
Institute for Feeding Behavior and Nutrition  
Institute for Studies in American Music  
Institute for Neural and Intelligent Systems  
Semiconductor Institute  
Surfactant Research Institute

### **THE CITY COLLEGE**

Benjamin Levich Institute for Physico-Chemical Hydrodynamics  
Center for Advanced Engineering Design and Development  
Center for Analysis of Structures and Interfaces  
Center for Biomedical Engineering  
Center for Water Resources and Environmental Research  
Clean Fuels Institute  
CUNY Institute for Urban Systems  
CUNY Dominican Studies Institute  
Institute for Transportation Systems  
Institute for Ultrafast Spectroscopy and Lasers  
Institute for Research on the African Diaspora in the Americas and the Caribbean (IRADAC)  
Institute for Study of Modern Jewish Life  
Municipal Solid Waste Institute  
New York Structural Biology Center  
The Colin Powell Center for Policy Studies  
The Simon H. Rifkind Center for the Humanities

### **THE GRADUATE CENTER**

Americas Center on Science and Society  
Bildner Center for Western Hemisphere Studies  
Barry S. Brook Center for Music Research and Documentation  
RILM (Repertoire International de Litterature Musicale)  
Research Center for Music Iconography (RCMI)  
The 18th-Century Symphony Archive (1720–1840)  
The Pergolesi Research Center  
Music in Gotham: The New York Scene, 1863–1875  
French Opera in the 17th and 18th Centuries – A Facsimile Series  
Center for the Study of Free-Reed Instruments (CSRI)  
Foundation for Iberian Music  
The Ralph Bunche Institute for International Studies  
Center for Advanced Study in Education  
Center for the Study of Culture, Technology and Work  
Center for Human Environments  
Center for the Humanities  
Center for Jewish Studies  
The Rosenthal Institute for Holocaust Studies  
Institute for Jewish Community Life  
The Joseph and Ceil Mazer Institute for Research and Advanced Studies in Judaica  
Institute for Sephardic Studies  
Mandell L. Berman Institute – North American Jewish Data Bank  
Center for Latin American, Caribbean, and Latino Studies  
Center for Lesbian and Gay Studies (CLAGS)  
Center for Media and Learning New Media Lab  
Center for Place, Culture and Politics  
Center for the Study of Philanthropy  
Center for the Study of Women and Society  
Center for Urban Education Policy  
Center for Urban Research  
CUNY Data Service  
CUNY Institute for Software Design and Development (CISDD)  
European Union Studies Center  
Gotham Center for New York City History  
Henri Peyre French Institute  
Institute for Research on the African Diaspora in the Americas and the Caribbean (IRADAC)  
Middle East and Middle Eastern-American Center  
National Center on Educational Restructuring and Inclusion (NCERI)  
Research Institute for the Study of Language In Urban Society (RISLUS)  
Howard Samuels State Management and Policy Center  
Martin E. Segal Theatre Center  
Frank Stanton/Andrew Heiskell Center for Public Policy in Telecommunications and Information Systems

### **HUNTER COLLEGE**

Brookdale Center on Aging  
Center for Analysis and Research of Spatial Information (CARS)  
Center for Occupational and Environmental Health  
Center on AIDS, Drugs and Community Health  
Center for the Study of Collective Bargaining in Higher Education  
Center for the Study of Gene Structure and Function  
Centro de Estudios Puertorriqueños

**JOHN JAY COLLEGE OF CRIMINAL JUSTICE**

Center on Violence and Human Survival  
Criminal Justice Center  
CUNY Dispute Resolution Consortium  
Institute for Criminal Justice Ethics  
Institute on Alcohol and Substance Abuse  
Toxicology Research and Training Center

**LEHMAN COLLEGE**

Bronx Educational Alliance  
Bronx Institute  
Bronx Small Business Development Center  
Center for School/College Collaboratives  
CUNY Institute for Irish-American Studies  
Institute for Literacy Studies

**MEDGAR EVERS COLLEGE**

Access Center for Workforce Development  
Caribbean Research Center  
Census Information Center  
Center for Black Literature  
Center for Law and Social Justice  
Center for Women's Development  
Direct Center  
DuBois Bunche Center  
Jackie Robinson Center for Physical Culture  
Post Secondary Readiness Center  
Student Advocacy and Support Services  
The Flatbush Beacon Center

**NEW YORK CITY COLLEGE OF TECHNOLOGY**

Consortium for Real Estate and Metropolitan Development

**QUEENS COLLEGE**

Asian-American Center  
Center for Byzantine and Modern Greek Studies  
Center for the Biology of Natural Systems  
Center for the Improvement of Education  
Center for Jewish Studies  
John D. Calandra Italian American Institute  
Labor Resource Center  
The Michael Harrington Center for Democratic Values  
and Social Change

**COLLEGE OF STATEN ISLAND**

Center for Developmental Neurosciences  
and Developmental Disabilities  
Center for Environmental Science  
Discovery Institute

## CUNY Sponsored Program Highlights



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**Gabriel O. Aisemberg, Associate Research Scientist**

Lehman College, Department of Biological Sciences

**Hox Genes**

Dr. Gabriel O. Aisemberg joined the Department of Biological Sciences of Lehman College in 1996, after working as an Associate Research Scientist at the Department of Biological Sciences of Columbia University. His research focuses on the expression and function of the Hox genes, a family of genes present in all animals. Certain developmental anomalies of the nervous system found in humans and animals can be traced back to Hox gene mutations. The main goal of Dr. Aisemberg's research is to study the role of Hox genes in developing embryonic nervous systems using the leech as a model organism for neurological development. The proteins coded by the Hox genes are present and function primarily in the cell nucleus where they regulate the expression of batteries of other genes. The expression patterns of Hox genes suggest a combinatorial code whereby different regions of the nervous system are specified by particular combinations of Hox genes. To improve knowledge of Hox gene function at the single-neuron level, Dr. Aisemberg studies the function of these genes in leech embryos where the properties of individual neurons are easy to examine. This research uncovered that Hox genes are involved in the regional differentiation of neurons, an important aspect of nervous system development. In addition, results from the Aisemberg lab showed that knockdown of the expression of a Hox gene causes defects in nerve patterning.

Dr. Aisemberg's most recent scientific papers have appeared in *Journal of Neurobiology*, *in Development, Genes and Evolution*, and in *Protein Expression and Purification*. Dr. Aisemberg maintains an active collaboration with the lab of Dr. Eduardo R. Macagno at the University of California at San Diego. Dr. Aisemberg's research has been supported for the last five years by grants of the National Institutes of Health totaling over \$1,600,000.

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**Stan Altman, Dean, School of Public Affairs**

Baruch College, School of Public Affairs

**Project on Transition and Leadership in Government**

Dean Stan Altman developed and directed an initiative designed to provide briefing seminars and practical procedural information to New York City Council members elected in November, 2001 and serving for a 2-year term commencing in January, 2002. This was a particularly significant election for the city's legislature, since a new term limits law resulted in the election of 37 new members to the 51-member body. Institutional memory was in short supply and critical networks needed to be rebuilt. The project consisted of two basic components:

- (1) Production of a handbook for Council members, titled *Council Members' Guide to New York City Government*, and
- (2) A 3-day series of seminars, panel discussions and workshops to prepare Council members for the responsibilities of their office.

The Guide, which was issued in loose-leaf and CD-Rom formats, outlined legislative, budget-making and land use procedures. The majority of the book focused on an agency-by-agency approach to responding to constituent needs. Dean Altman served as project director for this book and assembled a series of government professionals as contributors. The book includes several hundred useful web-sites and a wealth of information of practical relevance for public officials and community leaders. Reports indicate that the book was considered valuable and continues to be consulted. The 3-day Orientation Conference provided insight into Council rules, procedures

and functional operations. It outlined both the formal and informal processes relating to land use and enacting legislation and it offered an interactive, in depth workshop on the city budget process. Special presentations covered key, "hot button" issues, including the city's economy, the future of the welfare program, lower Manhattan redevelopment, and waste management options. The participation of distinguished speakers and government veterans made the program particularly compelling.

Dean Altman secured \$550,000 in funding support for this ambitious undertaking from the Fund for the City of New York, the New York Community Trust, the Baruch College Fund, the City University of New York, the New York City Council, Con Edison, Verizon and the Real Estate Board of New York.

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**Paul Arcario, Dean of Academic Affairs**

LaGuardia Community College, Division of Academic Affairs

**Teaching, Learning and Technology**

Dr. Paul Arcario is the recipient of three grants from the U.S. Department of Education: (1) a Title V Developing Hispanic-Serving Institutions Program grant for \$2,117,941 during 1999–2004 designed to infuse technology-based pedagogies across the curriculum, (2) a second Title V grant, in collaboration with New York City College of Technology for \$3,112,812 during 2001–2005 to develop student electronic portfolios, and (3) a FIPSE grant in the amount of \$588,483 during 2002–2003 to develop an "eTransfer" program.

To address the challenge of ensuring that its graduates achieve the technological literacy so important in today's world, as well as to improve learning outcomes through the application of technology-based pedagogies, LaGuardia received its first Title V grant to integrate technology across the curriculum through the establishment of a Center for Excellence in Teaching with Technology. To meet these goals of increasing students' technological literacy and improving student learning outcomes, the College has implemented a comprehensive faculty development program to infuse technology across the curriculum. The Center for Teaching with Technology (now renamed the LaGuardia Center for Teaching and Learning) has become the College's locus of information and support services for faculty members seeking to redesign and innovate curricula. Through their work in the Center's Designed for Learning (DFL) professional development program, faculty in all disciplines have engaged in redesigning curricula and developing assignments to incorporate the latest approaches in technology-based pedagogies.

Capitalizing on the expertise and interest regarding technology fostered by its first Title V grant, LaGuardia, in collaboration with New York City College of Technology, sought and received funding for a second Title V grant to implement student electronic portfolios. Using the interactive and constructive facets of Web-based technologies, an electronic portfolio is a selective and purposeful collection of student work made available on the Web. In assembling papers, presentations, projects and performances, students are able to reflect on their work and on their learning process while creating a record of their change and growth over the entire course of their careers at the College.

Building on the College's infusion of technology into the curriculum and introduction of electronic portfolios, the FIPSE "eTransfer Project" grant extends the design and purpose of electronic portfolios to include transfer preparation, guiding students to accessing diverse links to transfer-related resources and allowing them to use their portfolio work as part of their applications to senior colleges. As an integral part of the project, Virtual Interest Groups have been created around specific disciplines, led by a faculty member and a senior college student mentor, forming a community of shared interests and concerns designed

to guide students in exploring their chosen field of interest as well as exploring transfer options.

Dr. Paul Arcario, principal author of these grants was a professor in LaGuardia's Academic ESL Program before becoming Associate Dean for Academic Affairs in 1998 and Dean in 2002. He has a long-standing interest in technology, having conducted workshops in teaching ESL with video and other media at the Teachers College, Columbia University ESL masters degree program for many years, as well as having produced educational videos for teaching ESL, including the first American English language-teaching video broadcast in The People's Republic of China.

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**Mahmoud K. Ardebili, Assistant Professor**

Borough of Manhattan Community College, Science

**Engineering Science Pedagogy**

Dr. Ardebili has written a number of papers on turbulence. He also studies engineering science pedagogy and how to teach the subject more effectively. He is transforming the way engineering science is taught at Borough of Manhattan Community College. Dr. Ardebili received a two-year grant of \$167,683 from the National Science Foundation to redesign engineering science courses from being primarily lecture-based to being primarily active laboratory courses. He is setting up a computer laboratory and an experimental engineering science lab equipped with up-to-date software and instruments. BMCC faculty members take workshops to learn how to use the software in the classroom to teach courses in electronic circuits, engineering graphics, mechanics, and thermodynamics. He plans to produce a manual for each of the four courses that will include hands-on lab experiments, computer activities, and student projects. Dr. Ardebili plans to disseminate these manuals at national engineering meetings. He hopes that other community colleges across the nation will adopt the active learning models that he is creating at BMCC.

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**Claudia Baldonedo, Director****Diane Beckford, Program Coordinator**

LaGuardia Community College, Office of Program Development and Training

**PACTT Consortium and Workforce Development Grant**

Planning Access to Careers in Telecommunications Through Training (PACTT) is a 30-month, \$749,571, partnership building and training grant awarded to LaGuardia Community College by the USDOL. The grant is given to build a workforce development consortium and to provide telecom businesses with trained entry-level workers (primarily Hispanics). LaGuardia spearheads the grant with two additional partners, New York City College of Technology and Brooklyn Workforce Innovations (a Brooklyn community based organization). The primary goals of the program during Phase 1 were the creation of a regional planning consortium and the development of a community audit. The Phase I Community Audit was initiated by extensive research into the competitive telecom environment that has been shaped by a series of judicial and legislative decisions resulting in deregulation of that industry. The PACTT Executive Committee developed and distributed a telecom survey that helped the Committee to ascertain the skill requirements and the skill gaps that are currently being experienced by telecom businesses in the NY Tri-state area. Several interviews with the business community as well as community-based organizations were conducted in order to gain a better understanding of the demand side and the potential supply side of the entry-level telecom employment market. The Committee utilized data from the U.S. Bureau of Labor

Statistics, the U.S. Census Bureau, the Communications Workers of America (CWA) and the Women's Center for Education and Career Advancement (self-sufficiency standards data) to paint a picture of the telecom market and the Hispanic community that has been included in the Executive Summary of the Phase I Community Audit report.

Following 14 months of building the organizational infrastructure, PACTT is moving into Phase II of the grant—implementation of two pilot training programs. The first pilot program was launched in September 2002 at LaGuardia Community College. The curriculum, which was developed based on input from the telecom industry, is a 12-week intensive training program in both cabling (copper based & fiber optic) and A+ Computer Repair. LaGuardia Community College is the first east coast institution to acquire the Heathkit Cabling Trainer, which allows students to simulate cable pulling and working in an equipment room environment via a portable cabinet unit. In addition, students will receive a 36-hour course involving soft skills such as presentation skills, interview skills, resume writing and motivational skills.

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**Probal Banerjee, Associate Professor**

College of Staten Island, Chemistry

Center for Developmental Neuroscience and Developmental Disabilities

**Serotonin 1A Receptor and Aminophospholipid Translocase**

Dr. Probal Banerjee's research team at the College of Staten Island is divided into two groups to study (i) the role of the serotonin 1A receptor (5-HT1A-R) in the survival and maturation of brain neurons during development, and (ii) the gene structure and expression of aminophospholipid translocase, an enzyme that translocates the cell membrane lipid molecule phosphatidylserine to the inner leaflet of the plasma membrane of a healthy cell.

Earlier studies performed by the team have shown that a signaling pathway initiated by the binding of the neurotransmitter serotonin to the 5-HT1A-R (stimulation) causes inhibition of programmed cell death (apoptosis) in stressed neuronal cells by attenuating the activity of a pro-apoptotic enzyme caspase-3. Previous studies have also shown that stimulation of the 5-HT1A-R causes increased division of undifferentiated neuronal cells. Based on such information it has been postulated that during brain development, the 5-HT1A-R plays a dual role by promoting division of preneuronal cells during early stages and then protecting the maturing neurons during the later stages of brain development. To test this hypothesis, the 5-HT1A-R-mediated signaling cascades are being tested in a wide variety of hippocampus, raphé, and septum-derived cell lines. Signaling intermediates of this pathway are being identified and their effects on cell division and caspase-3 activity are being tested.

This research, conducted with Professor James Batteas, Department of Chemistry, and colleagues at Hunter College and New York University, is supported by a National Institutes of Health grant of \$134,500 for May 2001 to April 2004 and a grant of \$225,000 for February 2001 to November 2005; and a CUNY Groundwork Grant of \$50,000.

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**Kitty Bateman, Assistant Professor**

Queensborough Community College, Basic Educational Skills Department

**The Queens Civics Collaboration of CUNY**

“The Queens Civics Collaboration of CUNY” is a newly funded Workforce Investment Act initiative administered by the New York State Education Department. Funding for the first year of this collaboration, managed by Queensborough Community College, in association with Queens College and The CUNY Law School’s Immigrant Initiatives Program, is \$300,000.

What is the meaning of “civics” in the context of contemporary ESL language learning and how can a program with this as its focus best be implemented? These are only two of the questions that the faculty hired to teach in this program were asked to consider. Historically, civics has been related to teaching about “government” and “citizenship”, i.e., one has a civic responsibility. This program seeks to expand the concept of civic responsibility in light of the needs of the adult immigrants who are being served by the project. Unlike many other programs, the Queens Civics program envisions civics as encompassing American life, history, government and culture. To this end it embarked on creating a program that incorporated the study of American popular culture into its curriculum.

During the initial summer’s intensive session completed in August 2002, the program sought to enrich the students’ understanding by providing them, in a weekly assembly, with an enrichment experience. Each week, each of the four class levels worked on appropriate curricula which also highlighted American life. The curricula integrated reading, writing, speaking and listening skills. Students were provided with access to QCC’s Department of Basic Skills’ Learning Laboratory and the Law School provided immigration counseling on an as needed basis. It was decided that one feature of the assembly would be the introduction of American patriotic songs. The grant supports a three-year program from January 1, 2002 through December 31, 2004. Plans for the future include, a move to a new site in downtown Flushing, the home of a majority of our students; trips to The Metropolitan Museum of Art, The American Museum of Natural History and The Museum of the City of New York; and visits with local city council members, assemblymen and state senators. In addition, all of the project’s faculty members are involved in the development of new curricula that target civics, and provide English language instruction as well.

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**Robert Bittman, Distinguished Professor**

Queens College, Chemistry

**Unnatural Lipids**

Professor Bittman’s research has been funded by the National Heart, Blood, and Lung Institute of NIH without interruption for 30 years, and the total of grant funds during this period is more than \$5,000,000. The direct costs in the current year of support are \$250,000. In 1985, Professor Bittman was among the first to receive the NIH Merit Award, a 10-year research award for which candidates may not apply, but are selected by the NIH staff. Professor Bittman’s research involves the synthesis of new unnatural lipids and the study of their bioactive properties in membranes by using a variety of biological and biophysical methods. Many of the lipids under study in his laboratory are analogs of lipid second messengers, which play roles in regulating various cellular functions. Much of the research concerns the properties of sphingolipids, which used to be viewed as structural components of cell membranes but are now appreciated as central participants in the life of the cell.

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**Mehdi Bozorgmehr, Associate Professor**

The Graduate School and University Center, Sociology

**Middle Eastern and South Asian American Organizations in the Aftermath of September 11**

This project focuses on the backlash on Middle Eastern and South Asian (MESA) Americans from the September 11, 2001 terrorist attacks on America. Daily newspaper accounts of hate crimes, assaults and threats on members of MESA communities suggest widespread confusion and misunderstanding by the American public. Although there are several ways to study this backlash, this project examines MESA ethnic and religious organizations and their roles in averting, coping and responding to the backlash. This tight focus is dictated by feasibility, rapidity and low research cost. Using a snowball technique, the plan is to identify all MESA national organizations and local ones in New York. It is expected that the number of these organizations will not exceed 50. Next, the top officials or leaders of these organizations were interviewed in person, using an unstructured interview schedule. This project is significant on three levels: 1) historically—because data will be collected on the issues as these unfold; 2) substantively—because our knowledge of a neglected and misunderstood minority group in America will be enhanced; 3) theoretically—because the research contributes to our understanding of inter-ethnic group conflict. The final report to the NSF is written as a manuscript to be immediately submitted for publication since it has policy implications. NSF has made available \$60,000 for this project.

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**Anthony Carpi, Assistant Professor of Environmental Toxicology**

John Jay College of Criminal Justice, Science

**Visionlearning: An Interdisciplinary Science Education Web Portal**

Dr. Carpi created The Natural Science Pages (<http://web.jjay.cuny.edu/~acarpi/NSC/index.htm>) which has proven highly effective at increasing course performance and student interest in the sciences. Dr. Carpi launched a public, interdisciplinary science education Web portal, Visionlearning, in 2000 with support from the National Science Foundation in the amounts of \$75,000 and \$450,000 in 2001. Visionlearning (<http://www.visionlearning.com>) is an education resource that offers a library of bilingual (English and Spanish) teaching modules for introductory science courses. These modules provide text-based explanations of core scientific concepts, a pop-up glossary and interactive simulations designed to help students learn the core subject matter. In addition, each module contains a wealth of links to external teaching resources on the Web designed to broaden student learning opportunities.

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**Der-lin Chao, Assistant Professor**

Hunter College, Classical and Oriental Studies

**Web-Based Chinese Literacy Development Project**

With a three-year grant averaging \$110,000 per annum from the U. S. Education Department, this project’s objectives include producing three kinds of materials to help lower-level students develop literacy in Chinese: a CD-ROM, a Student Workbook, and a User’s Manual. To facilitate the design and production of the material, an office and computer workstation for the project was set up in the Hunter College Chanin Language Center (built in the late 1990’s with a \$383,000 Challenge Grant from the National Endowment for the Humanities, matched three dollars for one by the Chanin Family). Team members

meet regularly to discuss the progress of the project and set weekly tasks. Advanced technical assistance is being provided by the College's Instructional Computing and Information Technology staff. In addition, the project established a web site ([www.chineseliteracy.net](http://www.chineseliteracy.net)) to allow students and faculty at Hunter to use the material. The web site, though not yet ready for the general public, has allowed collection of comments and feedback from users. The material is currently being field-tested. The principal investigator made a presentation about the project at the International Conference on Chinese Pedagogy at Yale University.

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#### **Bhanu P. S. Chauhan, Assistant Professor**

College of Staten Island, Chemistry

#### **Hybrid Polymers**

Dr. Bhanu Chauhan's research bridges traditional disciplines covering several aspects of synthetic polymer, inorganic, and materials chemistry. Professor Chauhan received a three-year grant from the National Institute of Standards and Technology (\$226,000) for the period June 2002 to May 2005, to devise methodologies for tailoring flexible coil-like inorganic polymers with conjugated rods like organic ligands that can self-assemble into a variety of supramolecular structures with unique optical and electronic properties. This research provides a unique opportunity to gauge the supramolecular structures with different functionalities in order to achieve desired physical and optical properties of molecular materials. The second focus of Professor Chauhan's research is the generation and applications of polymer based nano reactors. Support for this research comes from an NSF instrumentation grant, a PSC-CUNY grant, and a start up grant from CSI. Nano-sized metals and semiconductor particles are of particular interest due to their potential applications in catalysis, optoelectronic devices, and ultrasensitive biological sensors. Professor Chauhan is also interested in developing low temperature routes employing molecular precursors to various inorganic materials, including both non-oxides and complex oxides, that are of broad interest in many areas of technology.

Professor Chauhan's group is also involved in generating the polymeric supports as targeted drug delivery vehicles. Providing control over the drug delivery can be the most important factor at times when traditional oral or injectable drug formulations cannot be used. These include situations requiring the slow release of water-soluble drugs, the fast release of low-solubility drugs, drug delivery to specific sites, drug delivery using nano-particulate systems, delivery of two or more agents with the same formulation, and systems based on carriers that can dissolve or degrade and be readily eliminated. His group is targeting synthetic strategies to design ideal drug delivery systems, which are inert, biocompatible, mechanically strong, capable of achieving high drug loading, safe from accidental release, and easy to fabricate and sterilize.

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#### **Eugene Chudnovsky, Distinguished Professor**

Lehman College, Physics and Astronomy

#### **Quantum Magnets**

Distinguished Professor of Physics Eugene Chudnovsky is investigating properties of very small magnets. His research at Lehman College has been supported by grants from the National Science Foundation, U.S. Department of Energy, U. S. Department of Defense, and by private industry totalling over \$150,000 annually. Recent progress in measuring techniques has enabled scientists to manufacture and study magnets consisting of only a few atoms. This branch of physics has been named nanomagnetism, reflecting the nanometer size of the magnet. Relatively

large magnets, as, for example, an arrow of a compass, have permanent locations of their north and south magnetic poles. In nanomagnets, the locations of the magnetic poles change in time at a rate that depends on the material and the size of the magnet. This effect, predicted theoretically by Dr. Chudnovsky, has been called magnetic quantum tunneling. It has significant technological implications. First, it determines the minimal size of the magnetic memory unit and, thus, the ultimate density of the data storage in magnetic recording. Second, it opens the possibility of building a magnetic "qubit," an element of a quantum computer. Such a computer, which will be a thousand times faster than most powerful modern computers, does not exist yet, but a large number of research laboratories are competing to build it. Professor Chudnovsky collaborates with experimentalists at City College, led by Distinguished Professor Myriam Sarachik, and with experimentalists at the University of Barcelona, led by Professor Javier Tejada.

In 2000–2001 Professor Chudnovsky published 17 research articles in the fields of magnetism and superconductivity that provide further insight into the physical properties of nanomagnets. In one of his most recent papers, he, together with Lehman research associate Dr. D. Garanin, suggested a theory of magnetic quantum tunneling in a reputed nanomagnet Mn-12. That theory has been subsequently confirmed by experiments in the laboratories of Professors Sarachik and Tejada. In 2000–2001, Dr. Chudnovsky was invited to give lectures on his research at the International Conference on Macroscopic Quantum Coherence and Computing in Naples, at the International Workshop on Nanoscale Superconductivity and Magnetism in Argonne, Illinois, at the International Meeting on Induced Cooperative Phenomena in Berkeley, California, at the International Chemical Congress in Honolulu, at the International Workshop on Tunneling in Barcelona, and at the International Conference on Nanoscience in Santa Barbara, California.

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#### **Malgorzata Ciszkowska, Associate Professor**

Brooklyn College, Chemistry

#### **Polymeric Gels for Electrochemical Applications**

Dr. Malgorzata Ciszkowska's research focuses on the utilization of electroanalytical and electrochemical methods for characterization and applications of polymeric gels, biopolymeric materials, and polymeric electrolytes for new power sources, sensors and environmentally important methodologies. Research projects include voltammetry and anodic stripping voltammetry at mercury film microelectrodes, analytical applications of microelectrodes in the absence of supporting electrolyte, application of microelectrodes at very large concentration of depolarizers, stripping analysis of organic and inorganic compounds, trace analysis, pulse voltammetric techniques in electroanalysis, voltammetric and NMR studies of counterion transport in polyelectrolyte solutions, transport properties of simple ions in solutions without supporting electrolyte, conformational transitions of ionic polymers studied by electroanalytical techniques, electrochemistry in polymeric gels, transport of ions in polymeric gels, and biopolymeric gels as sorbents for heavy metals ions.

Dr. Ciszkowska's research program is supported by the Office of Naval Research, U.S. Navy, the National Science Foundation, the Petroleum Research Fund of the American Chemical Society, and NATO, with the total amount of approximately \$450,000. Her current research on "Smart Polymeric Gels as an Environment for Electrochemistry" is funded by the Office of Naval Research at the level of \$210,000 for five years. Dr. Ciszkowska is a graduate of the University of Warsaw, Poland, and received her Ph.D. in Chemistry from the same university in 1992. She is the first recipient of the Jacque Edward Levy Professorship in Analytical Chemistry.

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**Todd Clear, Distinguished Professor for Law and Police Science**

John Jay College of Criminal Justice, Law and Police Science

**Journal of Research in Crime and Justice**

Professor Todd Clear received a grant from the National Institute of Justice in the amount of \$112,951 for a new journal devoted to policy discussions of criminology research findings. Dr. Clear established the journal as one of the mechanisms through which to reach this audience and began soliciting manuscripts in June of 2000. The National Institute of Justice funding was provided to make criminological research findings more useful for policy makers and users. Its central role is to strengthen the use of research findings in the formulation of crime and justice policy. The inaugural issue of Criminology and Public Policy was published in November 2001 and the second issue was published in March 2002. The journal has since become an official publication of the American Society of Criminology.

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**Bronislaw Czarnocha, Assistant Professor**

Hostos Community College, Mathematics Department

**Introducing Indivisibles into Calculus Instruction**

Professor Bronislaw Czarnocha received a 3-year continuing grant from the National Science Foundation (\$3,400,000) to support his work toward improving the teaching and learning of calculus at the college level. Professor Czarnocha, in collaboration with Dr. Vrunda Prabhu of William Woods University, will conduct 2 year-long cycles of teaching experiments to introduce the intuition of "indivisibles" into calculus instruction and integrate it with standard ways of instructing via Riemann construction. They will study the conceptual and computational development of students who receive this instruction. The project will conduct and coordinate calculus instruction at 6 institutions, and assess students' performance using tests, essays and clinical interviews. Professor Czarnocha hopes to address a long-standing problem in Advanced Mathematical Thinking, concerning the understanding of limits and the definite integral, and inform the area of research in mathematics education. Professor Bronislaw Czarnocha is a graduate of Yeshiva University in New York City, receiving his doctorate in 1976 in Mathematical Physics. He is extensively published and has presented at international conferences in the area of mathematics education.

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**Jorge Saenz De Viteri, Executive Director**

Bronx Community College, BCC Child Development Center

**Child Care Access Means Parents in School (CCAMPIS)**

As a pioneering childcare center within the City University of New York, the BCC Child Development Center (BCCCDC), founded in 1973, is committed to offering excellent, professional, and affordable early care and education services to children of BCC students. For 29 years, the Center's mission has been to provide developmentally appropriate, quality early care and education in a nurturing environment, where each child can develop as a unique individual. The Center provides multicultural, educational, social, recreational, and nutritional programs for children ages 2 months–12 years, and a developmentally appropriate curriculum that targets the ideas and interests of the children.

In April 2001, the BCC Child Development Center applied to the U.S. Department of Education for funding to support a School-Age Program, which would provide afternoon and evening services for children ages 5–12. The College was awarded a "Child Care Access Means Parents in School" (CCAMPIS) grant for \$125,647 per year, for four years. With CCAMPIS funding, the Center has been able to:

- Serve 61 school-age children (44 student-parents) during the Fall Semester 2001;
- Serve 65 school-age children (46 student-parents) in the Spring Semester 2002;
- Serve 28 children (21 student-parents) during Summer Semester 2002; and
- Serve 60 children (49 student-parents) during the Fall Semester 2002.

Furthermore, BCCDC has expanded its services by offering a Saturday program, in which 14 children (9 student-parents) enrolled for Spring Semester 2002, and 16 children (11 student-parents) in Fall Semester 2002. Children enrolled in the School-Age Program benefit from various collaborations the Center has established. For example, the Center collaborates with the Cornell Cooperative Extension Program to provide nutrition education through weekly visits of a Nutrition Consultant. The children learn to prepare basic, balanced menus consisting of the various food groups, and receive a certificate of completion. And in Summer 2002, children in the School-Age Program participated in the NYC Administration for Children's Services School-Age Olympics.

Jorge Saenz De Viteri has more than 16 years' experience in Early Childhood Education, 13 of which were in managing child care and child care-related programs. De Viteri's background includes classroom teaching, managing private and publicly funded early childhood settings, and working in Infant/Toddler, Head Start, Pre-School, Group Day Care, Family Child Care, and School-Age Programs. He has taught Early Childhood courses at the undergraduate and graduate level, and coordinated the Child Care Certificate Program, which prepares individuals for the nationally recognized CDA credential.

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**Lev Deych, Assistant Professor****Alex Lisyansky, Professor**

Queens College, Physics

**Optical Properties Of Multiple Quantum Wells**

Dr. Deych's research lies in the area of optical properties of multiple quantum wells. These are artificial structures, which consist of very thin (about 10 nm wide) layers of one semiconductor material separated by thicker (about 80 nm) layers of another semiconductor material. Dr. Deych's research is concentrated on the electro-optical properties of such structures. The main objective of the research is to study opportunities to use these structures as tunable mirrors for optical microcavities. This research won support from the Air Force Research Office in the form of a three-year grant of nearly \$700,000.

This is theoretical research with a strong applied component. While several problems related to the fundamental physics of multiple quantum wells (such as a theory of multiple quantum well quantum confined Stark effect, or the effect of disorder on optical properties of multiple quantum wells) will be solved in the course of this project, the main emphasis will be given to the theoretical analysis of technological characteristics of potential devices based upon structures under consideration. This research will be conducted in collaboration with European experimental and theoretical groups, which include Professor Ivchenko from Ioffe Institute, St. Petersburg, Russia, and Professor Kavokin, Universite Blaise Pascal, Aubiere, France.

Professor Lisyansky's research interests are concentrated in the following areas of condensed matter theoretical physics: polariton optics of quantum heterostructures, polariton propagation and localization in impure crystals, localization properties of disordered systems, wave propagation in random materials, and critical phenomena at phase transitions.

Recently, Professor Lev Deych and Professor Lisyansky discovered that electromagnetic waves that propagate in crystals in the form of polaritons can give rise to states localized on impurities. This means that if such a state is excited, the electromagnetic oscillations do not propagate through the crystal but occupy some region around an impurity for a long time.

Dr. Deych was born in Tajikistan, a former republic of the Soviet Union. After obtaining his M.S. in physics in 1982, he was invited to work as a research assistant at the Kirensky Institute of Physics in the city of Krasnoyarsk located in the center of Siberia. He received his Ph.D. in physics in 1991 working on the problems of the magnetic properties of amorphous ferromagnetic alloys. In 1995 he immigrated to the US, and joined the Physics Department of Queens College as a visiting researcher and adjunct Assistant Professor. After spending several years at Seton Hall University, he returned to Queens College in 2001 as a full time member of the faculty of the Department of Physics.

Dr. Lisyansky obtained his Ph. D. in Physics in 1977 at the Donetsk Institute for Physics and Engineering of the Ukrainian Academy of Sciences. In 1988 he obtained the highest academic degree of the former Soviet Union: Doctor of Sciences. He is a coauthor of two books and over one hundred scientific papers.

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### **William Divale, Professor of Anthropology**

York College, Social Sciences

#### **The Dynamics of Stress and Culture**

Dr. William Divale studies stress and culture and how they interact. Stress from the external environment (either physical or social) influences cultural behavior; in reverse, cultural practices sometimes work to produce rather than to relieve stress in individuals. In identifying stress factors and relationships, Dr. Divale employs cross-cultural methodology—either comparisons between individuals in 2–4 cultures or cross-cultural surveys using a sample of 136 cultures around the world, comparing beliefs, practices, and stress factors. Findings from cross-cultural surveys where ethnographic texts are analyzed to make measurements on cultural practices include: (1) cultures where the male social role is more stressful are more tolerant of transvestites, (2) climatic instability leads traditional cultures to develop techniques for food storage and to more elaborate counting systems to accurately estimate storage needs, (3) stress from modernization produces changes first in political organization and later in social organization, and (4) cultural tolerance of pain in childbirth is related to the amount of social support the mother is given. Results from comparisons between small groups of cultures where data is collected by interviews, surveys, and psycho-social instruments have shown that stresses from acculturation by immigrants lead to changes in diet that are higher in fat and cholesterol consumption.

Dr. Divale serves as Project Director for the National Institutes of Health and research mentor for the NIGMS/MORE Program, Minority Achievement in Research Careers (MARC), funded at the level of \$1,300,000 (6/1994–5/2000), and a subsequent competitive renewal funded at the level of \$1,625,000 (6/2000–5/2004).

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### **Linnea C. Ehri, Distinguished Professor**

The Graduate School and University Center, Educational Psychology

#### **Application Guided Repeated Oral Reading of Text: Effects of Word Enrichment for Struggling Readers**

Insuring that all children learn to read is a national priority. Students must acquire reading competence to succeed academically and to become responsible citizens. The problem addressed by this research is how to help struggling readers in 3rd–5th grades improve their ability to read and comprehend text. Two experiments assess whether standard and enriched forms of oral text re-reading instruction enhance students' ability to read text accurately and fluently and to comprehend meaning. Enrichment involves improving students' alphabetic knowledge and sight word memory skills. The method involves pre-testing, random assignment of students to one of three alternative treatments or a control condition, and post-testing outcomes. The treatments involve tutoring 112 students for 10 weeks in standard or enriched versions of the text re-reading method. It is expected that students taught to use alphabetic knowledge to fully analyze spelling-sound matches in words exhibit superior sight word learning and text reading. Positive results identify how reading instruction can be improved in today's schools. The U.S. Department of Education has funded this project at a level of \$120,000.

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### **Dan Eshel, Associate Professor**

Brooklyn College, Biology

#### **Signaling Pathways and Microtubule Function**

With previous support from the American Cancer Society (\$310,000) and current support from the National Institutes of Health at the level of \$151,000 for three years, Dan Eshel's laboratory is studying signal transduction pathways that control and regulate the dynamics and functions of microtubules, the microscopic "conveyer belts" inside plant and animal cells that play an important role in cell growth and regulation. The model organism used in the studies is the budding yeast. Published findings include the role of previously known cellular pathways in novel functions that relate to stability of microtubules in various phases of the cell cycle. They also include the implication of previously unstudied gene products during cell formation. Past and future findings will lead to a better understanding of how the characteristics of dynamic cell-forming elements are regulated in cells and how imperfections in these mechanisms may be related to the development of diseases such as cancer.

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### **Carlos Estol, Professor**

New York City College of Technology, Physical and Biological Sciences

#### **Research Initiative for Scientific Enhancement (RISE) Dual Bridges to the Baccalaureate (BRIDGES)**

Since 1990, New York City College of Technology has been strengthening its science programs and faculty and has become part of the national involvement for systematic reform of science, mathematics and technology. Under the direction of Dr. Carlos Estol, New York City College of Technology offers a unique opportunity to introduce students to biomedical research. The variety of research experiences and opportunities available to interested and qualified City Tech students are made possible by special initiatives of the National Institute of General Medical Science (NIGMS), Division of Minority Opportunities in

Research (MORE) and the National Institutes of Health (NIH) and the Office of Research on Minority Health (ORMH).

The first of these programs, Research Initiative for Scientific Enhancement (RISE) at City Tech was funded for \$161,598 for 2001–2002. RISE introduces qualified incoming students to research activities through an Introduction to Research course and a summer rotation in a research laboratory (within or outside CUNY). Students receive compensation for their participation and have the added opportunity to travel to local and national meetings. Successful completion of this research experience allows the RISE students to continue with the Bridges to the Future program.

Dual Bridges to the Baccalaureate (BRIDGES) is a student research and transfer collaborative involving City Tech, Brooklyn College, and The City College of New York. Funded this year in the amount of \$511,703, BRIDGES accepts qualified students entering their last semester at City Tech in an associate degree program and facilitates movement to a baccalaureate degree. Eligible students receive compensation as research assistants in a research lab for an eight-week summer internship (at City Tech or a CUNY senior college) and opportunities to travel and present at local and national science meetings.

The RISE and BRIDGES grants have provided an impetus for the “new” faculty member to continue and expand research activities. In the chemistry area, three faculty members conduct research projects and engage students with them in their work. In the biology area, a large teaching lab was renovated to provide a research area for faculty and students. Supported by RISE and BRIDGES, students and faculty routinely travel and deliver presentations at regional and national conferences, at conferences sponsored by the National Council for Undergraduate Research, and at CUNY Graduate Center.

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**Mona Fabricant, Professor****Sandra Peskin, Lecturer**

Queensborough Community College, Mathematics and Computer Science

**Teaching Improvement through Mathematics Education at Queensborough Community College (TIMEQCC)**

Dr. Mona Fabricant and Mrs. Sandra Peskin, members of the Mathematics and Computer Science Department at Queensborough Community College, have a successful record in providing education and training for New York City mathematics teachers. They recently received a three-year (February 2002–January 2005) NSF CCLI (Course, Curriculum and Laboratory Improvement) grant of \$150,000 to implement a mathematics-education program at Queensborough Community College. This TIMEQCC (Teaching Improvement through Mathematics Education at Queensborough Community College) program will provide the first two years of a curriculum leading to an eventual career as a middle or high school mathematics teacher. After completing the two years, students will then transfer to Queens College through a direct articulation agreement and complete the baccalaureate degree.

Dr. Fabricant and Mrs. Peskin were Co-Directors of Queensborough Community College's Real World Mathematics Summer Institute at QCC (1999–2001) that was one of only three programs chosen by the New York City Board of Education to provide certification courses for mathematics teachers in New York City middle and high schools. Dr. Fabricant and Mrs. Peskin are currently collaborating on a U.S. Dept. of Education, MSEIP grant, Four Colleges: Calculus + Enhancements (2001–2004), to improve calculus instruction. This grant is a consortium involving three community colleges and a four-year institution. In addition, the Borough President's Office of Queens County awarded \$102,000 to build a Distance Learning Laboratory for Mathematics Teachers at QCC.

Dr. Mona Fabricant, recipient of the QCC Award for Excellence in Faculty Scholarship (2002), the Mathematical Association of America Metropolitan New York Section Award for Distinguished College or University Teaching of Mathematics (1997) and the New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Award for Outstanding Contributions to Mathematics Education (1992) received a Project Associates Grant (\$10,000), Peer-Led Team Learning in Math and Chemistry that provides tutor training to enhance the success of the services of the Mathematics Learning Center. She was the Co-PI of a calculus curriculum reform project entitled Three Urban Calculus Reform Programs: Adopting the Best, funded by the U.S. Department of Education. The grant was a collaboration among three City University colleges: Queensborough Community College, Borough of Manhattan Community College, and Medgar Evers College. The emphasis was on the improvement of the delivery of mathematics instruction through the incorporation of technology.

Mrs. Sandra Peskin, a recipient of the CUNY Performance Excellence Award for 1999–2000, developed a tutoring internship program for prospective teachers (Internship in Mathematics Teaching.) She was the QCC-AMP Coordinator for the NSF sponsored Alliance for Minority Participation in the Sciences, Mathematics, Engineering and Technology grant awarded to the City University of New York. She was co-author of numerous VATEA grants that established a Mathematics Learning Center at QCC and incorporated the use of technology into the curricula (1991–99). She also co-authored a U.S. Department of Education grant that developed a nationally recognized Demonstration Project to Teach Remedial Mathematics to Students with Learning Disabilities (1986–89)

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**Delores Friedman, Professor**

Kingsborough Community College, Early Childhood Education

**Strengthening the Science Skills of K–12 Teachers  
(Crossing Boundaries)**

Dr. Delores Friedman is developing an innovative model program known as Crossing Boundaries, designed to strengthen the science skills of future K–12 teachers. The National Science Foundation has provided \$300,000 over three years to this program. The program responds to a national concern about the growing shortage of qualified teachers in the sciences and mathematics and the lack of role models in the sciences for minority students. The program teams two branches of the City University, Kingsborough Community College and Brooklyn College working together to expand the pool of primary and secondary school teachers in the sciences and mathematics.

Science and Education faculty from both institutions work together helping students advance more efficiently and knowledgeably to hone their skills in the sciences and math. The program provides tutoring and mentoring for teachers as well as technological support through on-line instruction early on in a teacher's college education when they need the help the most. The program builds upon such successful programs as Kingsborough's College Now, which offers in-service training for public school teachers, Brooklyn's New York City Collaborative for Excellence in Teacher Education, which trains future science teachers and the Alliance for Minority Participation, which enhances the training of minority students majoring in science. The program also has developed a formal articulation agreement between Kingsborough and Brooklyn College for education teachers interested in the sciences and mathematics. The program is specifically designed to make the transition from a two-year college education program to a four-year education program as smooth as possible.

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**Stanley Gedzelman, Professor**

City College, Earth and Atmospheric Sciences

**Hurricane Energetics**

As global ocean and atmospheric temperature rises, hurricane frequency and intensity is likely to increase. Professor Stan Gedzelman with Professors Ward Hindman of City College, Jim Lawrence of the University of Houston and members of the National Oceanographic and Atmospheric Administration's Hurricane Research Division study the water budget of hurricanes in order to better understand the intensity and energetics of these storms. To gain firsthand information, Dr. Gedzelman flies through hurricanes collecting samples of their rain and water vapor. Variations of the stable isotopes, Oxygen-18 and Deuterium in the water provide information about how much of the water originates within the confines of the hurricane when the furious winds rip copious amounts of sea spray off the tops of the waves. The group found that stable isotopes are surprisingly active tracers of many atmospheric settings and a good understanding of their variations in different storm situations is needed to interpret past climates accurately.

Professor Gedzelman is involved with several large research projects. In the NASA-MUSPIN project a network of weather stations operated by private weather aficionados, teachers, and students provides a picture of weather in the New York City Metropolitan Area with unprecedented detail. The work is done jointly with Professor Sherman Austin of Medgar Evers College to diagnose weather phenomena such as the sea breeze and the chilling springtime backdoor cold front, which have a major impact on local weather, with greater accuracy than before so that local weather forecasts can also be more accurate. The research is one of the participating projects in the CCNY NOAA-CREST center directed by Professor Reza Khanbilvardi of Civil Engineering to study climate and climate change. In this project work is done to pinpoint source and destination regions for pollutants that are injected into the atmosphere. In this joint effort, the chemical compositions of the pollution particles are determined by Professor Jeff Steiner and the concentration of the particles is determined by remote sensing techniques developed cooperatively with Professors Sam Ahmed, Fred Moshary and Barry Gross in the Department of Electrical Engineering.

In another project-related effort a model has been developed that simulates, in color, atmospheric optical phenomena including coronas and glories. The appearance of these phenomena can be used to remotely determine the size distribution of droplets in a cloud.

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**Jacob E. Goodman, Professor**

City College, Mathematics

**Discrete Geometry**

The research process in mathematics often involves (1) familiarity with a mathematical phenomenon, (2) a conjecture about what else might be true, (3) an analysis of examples to see whether the conjecture seems to be true, and (4) an attempt to prove the conjecture rigorously. If all of this goes through, the process of writing up the results often reveals some further unanticipated complication that must be resolved as well. The outcome is to extend the frontiers of mathematical knowledge in much the same way as an explorer extends the map of the continents or a physicist the understanding of the physical world.

The research, which for the past twenty-four years has been mainly in the field of discrete geometry, has specialized both in the building of new mathematical structures in order to better understand various geometric phenomena and in the extension of old results to more general settings, for example extending concepts and theorems involving lines in the plane to results involving linear subspaces embedded in

higher-dimensional spaces. An example of the former is a paper entitled "Foundations of a theory of convexity on affine Grassmann manifolds", in which the usual concept of a "convex set of points" is generalized to the notion of a "convex set of lines" and of higher-dimensional linear subspaces, with a surprisingly similar set of properties.

It sometimes happens (surprisingly often, in fact) that people in other fields find mathematical results applicable to their own studies, even though the mathematician responsible for these results may have been motivated by "purely mathematical" concerns. This has happened historically, for example with applications of mathematics in physics, in engineering, and more recently, in biology. The problems Professor Goodman has worked on have been useful to computer scientists working in the relatively new field of computational geometry, which involves the design and analysis of geometric algorithms.

In addition to the aforementioned research, Professor Goodman is also co-editor-in-chief of the journal *Discrete & Computational Geometry*, an international journal of mathematics and computer science, and commonly considered to be the leading journal in this area. He has also arranged conferences in discrete geometry, at the Mathematics Institute in Oberwolfach, Germany, and at the Mathematical Sciences Research Institute in Berkeley. Professor Goodman won the Lester R. Ford award of the Mathematical Association of America. Research support, amounting so far to over \$700,000, has come mainly from the National Science Foundation and the National Security Agency.

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**Michele G. Greene, Professor**

Brooklyn College, Health and Nutrition Sciences

**Physician-Patient Communication About Cognitive Impairment**

Since 1984, Professor Greene has been studying the dynamics of doctor-patient communication. Her current research, funded by the Alzheimer's Association for the past three years at a level of \$156,000, seeks to better understand physician-older patient communication about cognitive impairment and Alzheimer's Disease. Along with Ronald D. Adelman, M.D at the Weill Medical College of Cornell University Center for Aging Research and Clinical Care, Professor Greene has audiotaped first medical visits between primary care physicians and patients 65 years and older and conducted post-visit interviews with the patients and the individuals who accompanied them into the medical visit. Patients' medical records have also been abstracted.

The research will clarify the frequency with which cognitive impairment and/or Alzheimer's Disease raised in first visits, and determine who initiates these discussions (i.e., patient, physician, or accompanying individual). The study will also describe the content of the discussions, how physicians respond to patients' concerns during the medical encounter, and about how often patients want to talk to their doctor about cognitive impairment or Alzheimer's Disease during their visit, but do not (and the reasons why they don't bring it up). Finally, the study will examine physician plans and recommendations (as recorded in the medical record) for patients with cognitive impairment. In all, 98 physician-older patient first medical visits have been audiotaped; all patient and accompanying individuals have been interviewed and all medical records have been abstracted.

Over the next year, Professor Greene will conduct data analyses and prepare papers for presentation and publication. As there has been little research in this area, there exists considerable interest in this work, both by medical educators and practitioners. Ultimately, the study will contribute to raising the awareness about patients who do not explicitly state their concerns about cognitive impairment and Alzheimer's Disease in medical encounters, while at the same time informing patients and their families about the importance of advising physician about problems with and fears about cognitive ability.

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**Jeffery Halperin, Professor**  
Queens College, Psychology

### Attention-Deficit/Hyperactivity Disorder (AD/HD)

Attention-Deficit/Hyperactivity Disorder (AD/HD) is the most frequently diagnosed childhood psychiatric disorder, estimated to affect 3 to 5% of school-age children. More than 1,000,000 children in the United States are currently receiving psychopharmacologic treatment for AD/HD. For more than two decades Professor Jeffrey Halperin has been conducting research examining behavioral, cognitive, neuropsychological, and neurochemical functioning in children with AD/HD. A substantial proportion of this research has been based on the premise that AD/HD is not a unitary disorder, and the thrust has been the identification of more homogeneous subgroups of children who might have distinct treatment responses or outcomes.

Currently, Professor Halperin is funded by NIMH to re-evaluate this large sample of clinically-referred children who were diagnosed with AD/HD between 1990–1997 using structured diagnostic interviews and a variety of neuropsychological instruments. The primary goals of the current research are a) to conduct a comprehensive clinical re-evaluation of these children to determine their psychiatric, behavioral, and neuropsychological status as adolescents between the ages of 16–21 years-old; b) to ascertain the duration and nature of the treatment interventions they received; and c) to identify subgroups of children that are associated with distinct outcomes. In addition, the extent to which stimulant medication treatment is associated with adolescent substance use/abuse will be examined, and, as compared to controls, the neuropsychological status of subgroups of adolescents who were diagnosed as having AD/HD during childhood will be characterized.

Professor Halperin received his B.A. in Psychology from CCNY and his Ph.D. in Psychology from the Experimental Cognition Subprogram of the Graduate School and University Center of CUNY in 1979. After completing a post-doctoral fellowship in Psychopharmacology, he spent three years at the New York State Psychiatric Institute/Columbia-Presbyterian Medical Center. He subsequently moved to the Department of Psychiatry at the Mount Sinai School of Medicine, where he served as the Director of Child Psychology from 1984–1989. He joined the faculty of the Department of Psychology at Queens College in 1989, as well as the faculty of the Neuropsychology Doctoral Subprogram of CUNY.

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**Gabor Herman, Professor**  
The Graduate Center, Computer Science

### Image Processing in Biological 3D Electron Microscopy

Three-dimensional electron microscopy (3D EM) is a powerful technique for imaging complex biological macromolecules in order to further the understanding of their functions. It is achieving high goals and exceeding expectations unthinkable only a few years ago. However, there are still some problem areas where either not enough work has been invested or the work has not as yet been fruitful. This project assumes a multidisciplinary approach to shed light on three of these areas by the application of image processing techniques:

- Incorporation of realistic image formation models into new reconstruction algorithms.
- Incorporation of knowledge regarding the specimen obtained by means other than EM, such as high-resolution surface relief information and information regarding the chemical nature of the specimen.

- Improvement of the rendering and the analysis of the reconstructed volumes by the development of more accurate segmentation (of the specimen from its background) and visualization algorithms.

These basic aims have been complemented by a rigorous approach to validating claims of superiority of any of the newly developed methods over those used in current practice. Image processing methodology for obtaining more accurate structural information by 3D EM than what can be achieved by current techniques contributes to our understanding of the detailed molecular mechanisms of some of the key cell functions, and, consequently, impact on the field of drug discovery. This work is relevant to cardiovascular and pulmonary disease and health and to blood research. The NIH has funded this work with \$212,000.

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### Wilbert Winston Hope, Assistant Professor

Medgar Evers College, Department of Physical, Environmental, and Computer Sciences

### Urban Air Quality Issues

Dr. Hope is an analytical chemist in the Department of Physical, Environmental and Computer Sciences. He has been experimenting with new approaches to teaching Analytical Chemistry and has developed two related courses: 1) Quantitative Analysis and 2) Environmental Measurements and Instrumentation, specifically for the environmental science program. A report on his work was published in the July 1, 2000 issue of Analytical Chemistry in a featured article entitled, "Urban Air: Real Samples for Undergraduate Analytical Chemistry."

Dr. Wilbert Hope and Dr. Leon Johnson have been instrumental in the establishment of a strong undergraduate research program in the Department of Physical, Environmental and Computer Sciences. They have been awarded more than \$500,000 through NASA from 1996 to 2000. Through the NASA-MEC Partnership, high school, undergraduate and graduate students are involved in summer research on MEC campus. With Dr. Hope as their mentor, students study volatile organic compounds (VOCs) and particulate matter in ambient and indoor air; collect and analyze data from the sun photometer and the weather station installed on the roof of the Carroll Street Building; and explore the use of mathematics and computers in chemistry (Chemometrics).

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**Zhen Huang, Assistant Professor**  
Brooklyn College, Chemistry

### Improved X-Ray Crystallography of the Structure of Nucleic Acids

Nucleic Acid plays a most important role in living organisms, and is present in protein molecules, RNA and DNA. To understand how nucleic acid behaves in vitro and in vivo is essential for creating drugs that will bond to the molecular structures, and for understanding the mechanisms of DNA and RNA molecules. Professor Huang's research integrates chemical synthetic skills, enzymatic methods, and molecular biology techniques to better understand structural properties and molecular mechanisms of these types of macromolecules. Current projects are related to synthesis of analogs of nucleosides and nucleotides, derivatization of nucleic acids for DNA and RNA X-ray crystal structure studies, in vitro and in vivo selection and evolution of ligand-binding and catalytic RNAs, ribozyme gene therapy, and direct quantitation of gene expression.

In his research, funded with \$140,000 by a two-year CUNY Collaborative and CUNY Groundwork grant (as well as a grant provided by Glen Research, Inc.), Professor Huang has successfully demonstrated a novel derivatization strategy using selenium atoms to replace nucleotide oxygen. The selenium atoms do not disrupt the structure and function of the macromolecules, thus making it easier to design organic chemical compounds that will bind to their unique surfaces. Additional work involves using these techniques to study ribozyme molecules, which are a class of recently-discovered catalysts in organic chemistry that scientists believe will one day be important in treating diseases with gene therapy. The preliminary findings of his work have been published in the *Journal of the American Chemical Society*.

Professor Huang received his B.S. from Sichuan University, his M.S. from Beijing University, and his Ph.D. from the Swiss Federal Institute of Technology. Before coming to Brooklyn College in 1998, he was a research fellow at Harvard Medical School.

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#### **Karen Hubbard, Associate Professor**

City College, Biology

#### **Cancer Center Partnership**

Dr. Hubbard has received funding to establish a Cancer Center Partnership between CCNY and Memorial Sloan Kettering Cancer Center (MSKCC). This center will promote diversity in cancer research, scientific training and community action, in order to better understand mechanisms of disease, eliminate disparities in care and improve public health. The Partnership has received a total of \$3.8M over five years and is supported by a National Cancer Institute award of the National Institutes of Health. City College receives \$2.37M of these dollars. The award is a planning grant for collaborative research and training. The partnership will provide funding for small pilot research projects, infrastructure and faculty. It is anticipated that plans set in motion will lead to the submission of a proposal for a full cancer center grant. During the first year, the partnership is supporting five pilot studies. Each pilot combines the various strengths of CCNY and MSKCC to generate independently supported collaborative research. The areas of research include basic sciences, clinical, population and ethical studies. The partnership also facilitates opportunities for student research and training. All of these endeavors are designed to foster on-going collaboration between CCNY and MSKCC.

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#### **Urs Jans, Assistant Professor**

City College, Chemistry

#### **NSF CAREER Award**

Dr. Urs Jans has won the prestigious Career Award from the National Science Foundation for his research. Dr. Jans' award in the amount of \$575,000 over five years will support the development of a program and research in environmental chemistry. A main focus of the research will be the understanding of the fate of organic contaminants in the environment. The research will emphasize the elucidation of the fate of organophosphorus and carbamate insecticides in sensitive aquatic environments (e.g., estuaries, salt marshes). Organophosphorus pesticides have been extensively used in U.S. agriculture for decades. Recently, it has been discovered that some of these pesticides are neurodevelopmentally toxic at low doses, indicating that the development of the brain of children can be harmed by a continuous exposure to very low concentrations of these compounds. This has caused the Environmental Protection Agency to review the use of these compounds. In addition to the research, modification and development of

courses are intended that will introduce students to analytical measurements of contaminants and to creating quantitative computer models to predict the behavior of contaminants in the environment.

Dr. Jans also received a grant from the Herman Frasch Foundation for research in the agricultural chemistry field. The amount of \$200,000 over five years will support research in the field of abiotic transformation of agrochemicals in wetland soils and sediments.

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#### **Lawrence W. Johnson, Professor of Chemistry**

York College, Natural Sciences

#### **The Electronic Spectroscopy of Porphyrins**

The primary aim of Dr. Johnson's research is to obtain a detailed picture of the ground and excited electronic states of porphyrin molecules. Members of the porphyrin family are important components of numerous biochemical systems (e.g. heme in hemoglobin, and chlorophyll in photosynthetic reaction centers). Although spectroscopic research on porphyrins has been carried out for many years the great majority of it has been at low resolution and provided only a general view of the electronic structure of these molecules. Dr. Johnson is interested in how the electronic states of porphyrins are effected by nonplanar distortions. This research has been prompted by recent x-ray crystallographic studies of naturally occurring porphyrin-protein complexes that suggest that the proteins may alter the porphyrin's properties by inducing out of plane distortions. The approach to studying nonplanar porphyrin molecules is to use high resolution spectroscopic techniques such as dye lasers, low temperature (-260 C) and external electric field perturbation (Stark effect). It is anticipated that by producing detailed information on the electronic states of planar and distorted porphyrins, a better understanding will be obtained about how the associated protein in naturally occurring complexes modulates the porphyrin's properties, and consequently how it functions in biological systems. Dr. Johnson's research is funded by an external grant from the National Institutes of Health, MBRS/SCORE, for \$705,628 (6/1/00-5/31/04).

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#### **Jay Jorgenson, Professor**

City College, Mathematics

#### **Number Theory, Algebraic Geometry, Spectral Theory and Financial Mathematics**

Jay Jorgenson joined the Mathematics Department at The City College of New York in 1999. Prior to this time he held faculty positions at Yale University and Oklahoma State University, as well as numerous visiting faculty positions throughout the United States and Europe. He has received funding from the National Science Foundation continuously since 1989, with a current grant of \$62,000, in addition to grants from PSC-CUNY and The Alfred P. Sloan Foundation. Professor Jorgenson is active in a number of areas of mathematical research, most notably number theory, algebraic geometry, and spectral theory. Since 1990, Professor Jorgenson has collaborated with Serge Lang of Yale University.

Since 2000, Professor Jorgenson's research has expanded to include a number of undergraduate assistants who study applications of mathematics to other fields of science, mainly financial mathematics. As part of their ongoing research, Jorgenson wrote an article in which he gave an elementary derivation of the well-known Black-Scholes-Merton option pricing formula. The Black-Scholes-Merton formula, which was recognized through the awarding of the 1997 Nobel Prize in economics, has had profound influence on financial mathematics in both academia and industry. A paper presented a complete derivation of the ideas only using basic concepts from calculus and probability, all of which is acces-

sible to undergraduates. In September 2002, Professor Jorgenson was awarded The Outstanding Teacher award as well as an Outstanding Mentoring Award, the latter award being for his research efforts at City College.

Professor Jorgenson's academic research focuses on applications of the mathematical object known as the heat kernel to various areas of mathematics. Originally defined to measure heat conduction, the heat kernel has been found to lie at the center of many important theorems in the recent mathematics literature. In their article The Ubiquitous Heat Kernel, published in the volume Mathematics Unlimited—2001 and Beyond, Jorgenson and Lang highlight some of the most striking applications of heat kernel analysis and discuss a vision for even further unification of mathematics within this framework. Professor Jorgenson has published over 50 articles, totaling over 2500 pages, with more than 15 co-authors, and has given over 100 invited seminar and colloquium lectures throughout North America and Europe.

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### **Dimitra Karabali, Assistant Professor**

Lehman College, Physics and Astronomy

### **High Energy Physics**

Dr. Karabali's research in theoretical high-energy physics is currently focused in two areas, namely, non-perturbative features of gauge theories and theoretical aspects of the quantum Hall effect. All physical phenomena can be described and explained in terms of four fundamental forces: gravitational, electromagnetic, weak and strong. This is the most important result emerging from the last few decades of research in physics. Further, all these forces can be described by a class of theories known as gauge theories. In particular, Quantum Chromodynamics (QCD) is a gauge theory describing the nuclear or strong interactions that bind the quarks and gluons, the underlying constituents of nuclear matter, into the protons and neutrons. QCD has been extensively studied over the last thirty years, and its short distance behavior has been well understood. There are, however, nonperturbative phenomena of central importance that are significant at larger separations of particles, such as the confinement of quarks and gluons (the fact that they are not observed as free particles) and the generation of mass gap (the fact that all the excitations are particles of nonzero mass), which defy a systematic quantitative analysis, although their qualitative features are more or less clear.

The phenomenon of quantum Hall effect (QHE) appears in special samples of material in the presence of a strong perpendicular magnetic field. It is characterized by the existence of a series of plateaux where the electrical conductivity, in the direction perpendicular to both the magnetic field and an electric field applied along the surface of the material, is quantized at very low temperatures. Both theoretically and experimentally, this has been one of the most intriguing problems of condensed matter physics for almost two decades. Professor Karabali has worked on various theoretical aspects of QHE, including the connection between incompressibility properties of the ground state that explain the observed plateaux and the existence of an infinite-dimensional algebra, as well as the formulation of a field theoretic description of fermions in the lowest Landau level. She is currently studying the implications of a very recent proposal connecting the QHE to field theories on noncommutative spaces (spaces where the spatial coordinates do not commute).

Professor Karabali's research is supported by a National Science Foundation grant (\$73,403 for three years), a PSC-CUNY Research award (\$4,142 for one year) and a CUNY Collaborative Incentive grant (\$26,000 for two years).

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### **Edward J. Kennelly, Professor**

Lehman College, Biological Sciences

### **Medicinal Plants**

Dr. Edward J. Kennelly joined the Department of Biological Sciences, Lehman College, in 1998 after working as a Senior Staff Fellow at the Food and Drug Administration. His research interests are in the area of medicinal plants. Plants produce a myriad of unusual compounds known as phytochemicals that are useful to plants for surviving environmental challenges and to humans for medicines. The research conducted in Dr. Kennelly's laboratory examines phytochemicals for novel biological actions. He currently has two primary areas of research: phytochemical antioxidants and phytoestrogens.

Antioxidants are thought to be important in the prevention of various diseases such as cancer and coronary heart disease. In 2000, Dr. Kennelly received funds (\$351,328) from the National Institutes of Health to examine the antioxidant activity of ten less common tropical fruits and vegetables. Dr. Kennelly's laboratory also collaborates with Columbia University's Center for Complementary and Alternative Medicine Research in Aging and Women's Health. In 2000, he received a pilot grant (\$11,538) from the Center to look at estrogen-like phytochemicals in black cohosh, a plant used in folk medicine for various menopausal symptoms. In conjunction with researchers at the New York Botanical Garden, he examined the levels of the phytoestrogenic isoflavonoid formononetin in thirteen populations of black cohosh. He found that formononetin, frequently cited as the biologically active constituent of this plant, could not be detected.

In 2001, he received grants from the Department of Defense (\$94,766) and the U. S. Department of Agriculture (\$300,000) to create two computer classrooms specifically designed to teach biology, and also to link the Department's research equipment to the computer classrooms. This will allow a greater number of students to be exposed to state-of-the-art research tools.

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### **Virginia Sánchez Korrol, Professor and Chairperson**

**Vicki L. Ruiz, University of California at Irvine**

Brooklyn College, Department of Puerto Rican and Latino Studies

### **Latinas in the U.S.: An Historical Encyclopedia**

The Latinas in the U.S. Historical Encyclopedia Project documents the history of Latin American women in the shaping of the nation from the late 16th century to the end of the 20th century. Two volumes that will compile the findings of the project include an historical introduction, biographies, photographs, timelines, an index, bibliography and thematic entries on colonial and pioneer life, diasporic communities, early settlements, social and political organizations, artistic and literary expressions and general contributions of U.S. Latinas. Based in the Department of Puerto Rican and Latino Studies at Brooklyn College, the project draws upon the specialization of a myriad community of scholars in Latino Studies, and practitioners in the fields of education, media studies, the social sciences and the arts in the preparation of some 600–700 entries and 500 photographs.

The editors, Drs. Sánchez Korrol and Ruiz are assisted by managing editor, Carlos A. Cruz, Brooklyn College and five associate editors: Cynthia Orozco, University of New Mexico; Lillian Castillo Speed, University of California at Berkeley; Barbara C. Cruz, University of South Florida; María Cristina García, Cornell University; and Nelida Pérez, Center for Puerto Rican Studies at Hunter College. The project received \$140,000 from the Ford Foundation and \$299,560 from the National Endowment for the Humanities. Brooklyn College serves as institutional sponsor.

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**Mahesh K. Lakshman, Assistant Professor**

City College, Chemistry

**Organic Synthesis and the Chemistry Biology Interface**

The mechanism by which tumor formation and cancer causation occurs is an area of high interest as it pertains to public health. Polycyclic aromatic hydrocarbons (PAHs) as a class are produced by activities in a modern society and due to their ubiquitous presence in the environment, there is unavoidable exposure to them. For example, they are present in automobile exhaust, in products of diesel fuel combustion and incomplete combustion of refuse as well as components of cigarette smoke. Many members of this class pose a severe health risk to humans and are implicated in the process of tumorigenesis.

Based on the metabolic fate of any PAH and the DNA alkylation mechanism, a complex set of 16 DNA adducts are produced from any hydrocarbon. Since the tumor-forming ability must be directly related to the intracellular enzymatic recognition of the damaged DNA, chemical synthesis of biologically important DNA sequences (such as ras and tumor suppressor genes) containing site-specific carcinogen modification are valuable probes for studying tumorigenesis. For example, such modified DNA can be used to probe structure in relation to biology/biochemistry on a comparative basis. Research will further an understanding of how specific DNA damage elicits a particular biological response. For this synthetic work continual development of new, highly stereo and regioselective synthesis methods is part of the research program. Once a detailed understanding of the tumor forming process is attained, design of possible therapeutics can then be based on the research.

The chemical carcinogenesis work is currently funded by the National Cancer Institute (NIH), 2001–2004 for \$146,000. In addition, Professor Lakshman is the Co-PI of an NSF grant for acquisition of a Circular Dichroism Spectrophotometer that will have a direct impact on our research programs (2002–2005). Professor Lakshman is also the PI of a \$550,000 NSF grant (2002–2005) for acquisition of a 500 MHz NMR spectrometer that will enhance the research program of City College.

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**Frederick S. Lane, Professor of Public Affairs****Wilson C. Levis, Senior Research Associate**

Baruch College, School of Public Affairs

**Nonprofit Management and Accountability**

As part of The Nonprofit Group in Baruch's School of Public Affairs, Lane and Levis have engaged in research and outreach activities to enhance the effective management of charitable organizations. Over the last fifteen years, this work has been supported by a series of grants in the sum of \$480,000 from the Lily Endowment, Mott Foundation, Alcoa Foundation, Exxon Foundation, Gund Foundation, Hewlett Foundation, Prudential Foundation and Sears Foundation. Research reports have included "Enhancing the Quality of Public Reporting by Nonprofit Organizations" and "Funding Fund Raising." New efforts are focusing on e-grants to nonprofits by government and electronic reporting as well as the use of organizational diagnosis to improve nonprofit administration.

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**Jonathan B. Levitt, Assistant Professor**

City College, Biology

**Neural Substrates For Visual Perception**

Jonathan Levitt is a neuroscientist whose main research focus is the functional organization of the mammalian central visual pathways. He

is also interested in more general aspects of cerebral cortex organization. Dr. Levitt and his colleagues employ neuroanatomical techniques to characterize the nature and precision of anatomical connections of nerve cells in different areas of the cerebral cortex. He also uses electrophysiological techniques to measure the electrical activity of individual brain cells in these areas activated by visual stimuli. His laboratory also studies the postnatal refinement of both brain circuitry and physiological function. The unifying aim of these studies is to determine how anatomical circuitry contributes to the known physiological properties of single cells in different areas of the cerebral cortex, and how this in turn contributes to visual perception. The ultimate goal is to understand visual perception by understanding the electrical activity and interconnections of individual brain cells. Dr. Levitt has shown that visual stimuli that do not directly evoke responses from brain cells can suppress or enhance the responses of brain cells to other simultaneously-presented visual stimuli. This work is directly relevant to understanding perceptual studies showing that the detectability or appearance of visual stimuli depend critically on the context in which they are situated. Dr. Levitt's work is supported by the Wellcome Trust (UK), and by a four-year grant for \$580,000 from the National Eye Institute of the National Institutes of Health.

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**Yi-Chun Tricia Lin, Associate Professor**

Borough of Manhattan Community College, English

**Studies of Otherness in Asian/Pacific and African/Caribbean Literature**

Dr. Lin's area of expertise is Asian/Pacific literature, particularly the literature of Hawaii. Dr. Lin is conducting pioneering research in comparative literature. Specifically, she compares contemporary literature of two island diasporas—Asian/Pacific literature and African/Caribbean literature. She has noted that these two island cultures share complex histories of colonization and multiple diasporas, which is reflected in their literature. In 2001, she received a \$24,000 research grant from the National Endowment for the Humanities to delve deeper into the comparisons between these two island literatures. She is now taking a close look at the concept of otherness in these literatures. In these islands, where every culture is an "other," every culture is a culture of difference. Dr. Lin maintains that writers of Asian descent in the Pacific islands and writers of African descent in the Caribbean islands write in cross-cultural space. Therefore, these writers are always engaged in cultural translation. Through her research, she hopes to replace the compartmentalization of American ethnic studies with a comparative cross-cultural perspective.

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**Peter Lipke, Professor**

Hunter College, Biological Sciences

**Cell Wall Proteins of Fungi**

Fungi are a major kingdom among the eukaryotes and have a great impact on life. Yeast cause bread to rise or juice to ferment to wine or beer, and fungal symbionts may be necessary for optimal growth of many plants. However, fungi can also be harmful. Fungal diseases destroy much of the world's food crop, and human fungal infections are often the immediate cause of death in cancer and AIDS victims.

Unlike animal cells, fungal cells are surrounded by thick cell walls, the structure and synthesis of which affect all their interactions with other cells. For instance, mating in fungi requires proteins on the surface of the walls for recognition and binding to cells of opposite mating type. Professor Peter Lipke and his research group, with support from

the National Institutes of Health, have been studying these wall-bound recognition proteins for many years. In bakers' yeast, the sexual agglutinins bind together the two mating types. Each sex expresses one type of agglutinin, and these complementary proteins bind to each other to potentiate the mating response. The Lipke group has discovered that certain sub-structures in these proteins recognize each other. One of the proteins has a structure like immunoglobulins, a very common class of recognition proteins that also mediate cell-cell recognition and signaling in our own immune systems.

Professor Lipke's laboratory is also interested in how fungi synthesize and assemble their cell walls, which can be 30% of the cell mass. They find that the pathway used by bakers' yeast is common to many pathogenic and environmentally important fungi. Using cell adhesion proteins and fluorescent tracking proteins, the scientists are following the genesis of these wall proteins from the ER to the Golgi to the membrane and finally to the wall, as well. The goals are to elucidate biochemical reactions unique to wall assembly, and then to evaluate these steps as targets for antifungal drugs. Utilizing techniques in molecular engineering, microscopy, protein purification, bioinformatics, structural biochemistry, and detailed binding analyses, the lab currently has 12–15 people, including undergraduates, graduate students, and post-doctoral associates. The research is a component of the \$2.9 million grant from the National Institutes of Health for the Support for Continuous Research Excellence (SCORE) Program, which funds 25 Hunter research labs. Professor Lipke's award for this year was \$182,000.

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**Margaret Lunney, Professor**  
College of Staten Island, Nursing

**Nursing Diagnoses**

Dr. Margaret Lunney's research is concerned with the classifications of the elements of nursing care: nursing diagnosis, nursing interventions, and nursing-sensitive patient outcomes. Seven classifications for nursing practice, approved by the American Nurses Association, are used for documentation of nursing practice by health care agencies throughout the world. Systems developed by the North American Nursing Diagnoses Association (NANDA), the Nursing Interventions Classification (NIC), and the Nursing Outcomes Classification (NOC) are classifications of nursing diagnosis, nursing interventions, and nursing-sensitive patient outcomes.

Professor Lunney's research, supported by the National Institutes of Health, was to implement a field study of the effects of using NANDA, NIC, and NOC on health outcomes. The purpose of the study was to test the feasibility of conducting a study to measure the effects on quality of care of implementing these standardized nursing languages. The study was conducted with 12 public health nurses and 220 children from 12 elementary schools of New York City. The College of Staten Island and the CSI Foundation donated computer equipment to the schools for use in the study. Results of the study were presented this year at a conference in England and a national conference in Chicago. The findings were that the hypotheses were partially supported and a large-scale study would be difficult and expensive to implement. Professor Lunney is organizing a national expert panel to recommend research strategies for agency-based evaluation designs instead of quasi-experimental designs.

In addition to this research, Professor Lunney developed and established the CSI master's degree program in Adult Health Nursing, with support from the U.S. Department of Health and Human Services, in the amount of \$637,032. Her research in nursing languages classification was supported by an AREA grant of \$107,770 from the National Institutes of Health.

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**Deborah Majerovitz, Associate Professor of Psychology**

York College, Psychology

**The Impact of Nursing Home Placement on Family Caregivers**

This study seeks to identify factors associated with positive psychological adjustment for family caregivers who place their loved one(s) into a nursing home. We know that the overwhelming stress associated with caring for a physically or mentally impaired family member at home can have serious consequences for the caregiver's mental and physical health. Although it alleviates the physical burden of caregiving, nursing home placement does not seem to alleviate the level of stress that caregivers experience. In fact, caregivers report that nursing home placement simply replaces one source of stress and burden for another. Unfortunately, while there has been a great deal of research exploring ways to help at-home caregivers, we know very little about ways to help ease the painful transition to the nursing home for other family members.

To address this knowledge gap, this study examines the role of three factors in predicting positive psychological adjustment for family caregivers after nursing home placement: (1) family cohesion (the level of closeness and caring in the relationship with the nursing home resident), (2) the caregiver's ability to maintain a family relationship with the resident after placement, and (3) social support to the caregiver from family, friends and health professionals. Caregivers are interviewed twice, once within six months of admission and again four months later to learn more about the early adjustment period. A second phase to the study, *The Impact of Caregiving Responsibilities on Mental Health and Academic Performance*, seeks to learn about longer-term adjustment to nursing home placement. Families whose relative has lived in a nursing home for more than six months will be interviewed once. This information will be compared and contrasted with the data on shorter-term adjustment. Dr. Majerovitz's research is funded by an external grant from the National Institutes of Health MBRS/SCORE for \$105,067 (June 2000–May 2004) and by the National Institutes of Health MARC undergraduate research training program.

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**Michael Marcus, Professor**  
City College, Mathematics

**Research on Stochastic Processes**

Professor Marcus is currently studying the relationship between Gaussian processes and the local times of symmetric Markov processes and, for symmetric Markov processes for which local times do not exist, the relationship between continuous additive functionals on spaces of measures, which serve as substitutes for local times, and corresponding families of Gaussian chaoses.

Public and private agencies have recognized the significance of his research. In 1993 he received a Guggenheim Foundation fellowship. The National Science Foundation has supported him since 1968. The last three, three-year awards on his proposal, *Stochastic Processes*, which is in collaboration with Professor Jay Rosen of the College of Staten Island, and cover the period 1995–2004 were for approximately \$600,000. Some of these awards include full fellowships for graduate students. Marcus and Rosen also use these funds to sponsor a weekly seminar in probability at the Graduate Center, with speakers both from CUNY and other major universities and colleges in the northeast.

In 1986, when he first came to City College, his research took an exciting new direction. Impressed by a recent result that related local times of Levy processes to stationary Gaussian processes, he set out to explore this unexpected relationship between these seemingly different

classes of stochastic processes. Using an isomorphism theorem of E. Dynkin, in collaboration with Rosen, he showed that many sample path properties of strongly symmetric Markov processes are the same as those of related Gaussian processes.

Professor Marcus received his Ph.D. from M.I.T. in 1965 and began his research on sample path properties of stationary Gaussian processes. This area received a great deal of attention internationally and by the end of the 1980's many results had been obtained. Using the insights he developed studying Gaussian processes he made substantial contributions in many significant areas of probability that demonstrated the centrality of Gaussian processes in the theory of probability.

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**Louise Mirrer, Executive Vice Chancellor for Academic Affairs**  
University Management, Office of Academic Affairs

### **The Honors College: University Scholars Program**

The Honors College: University Scholars Program is designed to support students in an intensive undergraduate experience shaped by the combined resources of the University and of New York City. It includes special seminars, mentoring and internship opportunities, activities to integrate the social and intellectual aspects of college and a "Cultural Passport" which provides entrée into the City's cultural and intellectual institutions.

The Honors College was launched in September 2001 and is currently sited at seven senior colleges: Baruch, Brooklyn, City, Hunter, Lehman, Queens and the College of Staten Island. The first freshman class included just over 200 students; the class that entered in September 2002 consists of about 350 students (from an applicant pool of 2500). Criteria for admission include standardized scores, high school GPA, the record of academic coursework, an essay and recommendations. The average SAT score for the new group is over 1300. The Honors College: University Scholars Program is an overlay to the honors options at the participating senior colleges. A cornerstone of the Honors College is the fully funded "Cultural Passport" that offers linkages with more than 100 small and large cultural institutions in New York City. Excursions to cultural venues, backstage sessions and "fireside chats" are arranged. All Honors College students (University Scholars) take, along with their college honors and or other coursework, one special seminar each semester of their freshman and sophomore years. These seminars, designed by committees of distinguished faculty, reflect on the cultural life of the city in the broadest sense. The seminars integrate hands-on experiences developed through the Cultural Passport with traditional study, and are enriched by the scientific and cultural resources of the City and of the colleges. University Scholars are fully supported through their four years at CUNY. They are provided with an academic expense account (\$7,500 over four years) to pay for academically enriching experiences such as study abroad or living expenses during an unpaid internship. Each student is also provided with a laptop computer.

First year funding partners included the Andrew Mellon Foundation (\$1,500,000), New York Life Foundation (\$500,000) the Starr Foundation (\$500,000), the Horace W. Goldsmith Foundation (\$500,000), the Herman Muehlstein Foundation (\$1,500,000) and Computer Associates (\$50,000).

### **Teaching Opportunity Program**

The Teaching Opportunity Program (TOP), a collaboration between the City University and the New York City Department of Education, began in 1999, at the height of a serious shortage of certified teachers in the New York City school system. The goal of the Teaching Opportunity Program was to attract talented college graduates who had backgrounds and credentials in the critical shortage areas of math and

science to careers in education, even though they had not studied education in college. TOP subsequently expanded its recruitment efforts to include career changers with math and science backgrounds. Scholarship recipients are selected by means of a rigorous screening process that requires candidates to have completed their bachelor's degrees with a minimum grade point average of 3.0 in their majors. They must demonstrate leadership potential and appreciate the challenges and opportunities found in teaching in the nation's largest urban school system. TOP provides substantial scholarships, an intensive summer preparation program, mentoring, job placement in a public middle school or high school and assistance in moving through the state certification process. TOP scholars commit to teaching in New York City for two years following completion of the master's degree. Since its inception, 350 students have participated in the Teaching Opportunity Program. TOP scholars are teaching successfully in middle and high schools throughout the five boroughs of New York City. The Board of Education has praised TOP as the single largest source of mathematics and science teachers for the New York City public schools. CUNY continues to expand the number of TOP Scholars and has added Spanish and Literacy/Reading to the possible areas of concentration.

CUNY was fortunate to gain, very quickly, and continues to depend upon private support for TOP. Current funding partners include The Jewish Foundation for Education of Women (\$102,000), The Henry Luce Foundation (\$500,000), The Starr Foundation (\$150,000) and New York City Trust (\$50,000).

### **The CUNY Economic Development Corporation**

The CUNY Economic Development Corporation (EDC) is a nonprofit, special purpose entity of CUNY, which offers administrative, legal, business and financial support to fledgling businesses. Its mission is to strengthen ties between the University and the New York City business community. CUNY EDC has been collaborating with the New York City Partnership and the New York City Investment Fund the past two years in efforts to link intellectual capital resident at CUNY with local business and industry.

The Alfred P. Sloan Foundation has provided \$400,000 in start-up funding for the EDC for September 2001 through August 2003. More than \$1 million in additional funding has been raised thus far from: the September 11th Fund – \$253,000; the Empire State Development Corporation – \$250,000; and Ernst & Young Foundation – \$500,000. The events of September 11th changed, somewhat, the responsibilities of the EDC. It was conceived as an oversight body to provide incubators on CUNY campuses with a full range of professional services including administrative, legal, financial, managerial and funding support. The CUNY Business Incubator Network (BIN) supports the development of new businesses in a wide range of growth industries, including software, advertising and entertainment, international trade, health care, and the after-market automotive industry. The EDC, in fact, is currently working to plan and design incubators at LaGuardia, BMCC and Hostos and to secure necessary capital funds for those incubators. Following the attacks on the World Trade Center, the EDC was active in providing pro-bono career counselors to the business clearinghouse established by the New York City Partnership and the Central Labor Council. The EDC recently assumed responsibility for ReSTART Central, an organization created by the Partnership with the Empire State Development Corporation and the Economic Development Corporation of New York City immediately after the September 11, 2001 attack. ReSTART's mission was to provide emergency technical assistance and other services to small businesses impacted by that day's events and their aftermath. ReSTART Central will operate in the first year as a provider of services to small businesses affected by September 11th. In subsequent years, it will branch out, providing services to CUNY incubators in the five boroughs.

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**Louise Mirrer, Executive Vice Chancellor for Academic Affairs****Nicholas Michelli, University Dean for Teacher Education**

University Management, Office of Academic Affairs

**AmeriCorps**

New York City is confronting a serious shortage of fully qualified teachers, especially in special education, math, science, and Spanish. CUNY's AmeriCorps Education Awards program provides incentives to recent college graduates and career changers to pursue teaching careers in New York City and to become certified teachers. The AmeriCorps program, in collaboration with the New York City Department of Education, enables master's degree students in education to earn AmeriCorps Education Awards for their service as teachers in the New York City public schools. Participation is limited to New York City Teaching Fellows, Teaching Opportunity Program Scholars, and students selected for internship programs. AmeriCorps is part of the Corporation for National Service of the U.S. Government. It engages more than 40,000 Americans in intensive, results-driven service. After each term of AmeriCorps service (members may serve for two terms), members earn an AmeriCorps education award worth \$4,725. CUNY's AmeriCorps participants may use that money to pay for graduate work, other education courses at accredited colleges, or to pay student loans. A CUNY members' term of service is one school year. The program enrolled approximately 1200 participants in its first year and expects to add about 2000 in its second year. Participants work as elementary school teachers, special education teachers, and middle and high school teachers of math, science, and other subjects in schools throughout the city. All are enrolled in master's degree programs leading to New York State certification as teachers. Participating CUNY colleges are: Brooklyn College, City College, Hunter College, Lehman College, Queens College, and the College of Staten Island.

Over the program's first two years, CUNY will receive approximately \$1.2 million to operate the program, and the education vouchers that the students receive will be worth more than \$20 million. Many students will choose to spend these vouchers at CUNY.

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**Louise Mirrer, Executive Vice Chancellor for Academic Affairs****George Otte, Director of Instructional Technology**

University Management, Office of Academic Affairs

**CUNY Online**

CUNY Online is supported by a grant from the Alfred P. Sloan Foundation. After a successful pilot project in 1999–2000, the Sloan Foundation awarded the University \$2 million to develop online courses over three years, from 2000–2003. Now in the last year of the grant period, CUNY Online has already developed and delivered more online courses than had been targeted for the full three years. The project has reached 300 faculty on all campuses, developing more than 400 courses. The heart of the project is a semester-long faculty/course development experience. Accepted participants, proposed by their campuses, receive released time to engage in an online seminar on how to deliver online courses. Giving them the students' experience of online instruction, the project also allows them to work collaboratively, capping this experience with peer review of the course sites developed over the term. The online courses are then delivered the following semester. These courses are either hybrid (one-third to three-quarters online) or asynchronous (three-quarters to entirely online). CUNY Online is a powerful force for growth in University-wide online instruction. A Fall 2001 survey showed half of the participants were already repeating online courses they developed through CUNY Online; a third reported online offerings of entirely new courses developed after their participa-

tion. In addition, half of the faculty surveyed reported mentoring other faculty and leading faculty workshops on online instruction.

With such growth necessarily comes heightened visibility and access. The CUNY Online Distributed Learning Network, developed with the help of the CUNY Online Faculty Council (with faculty representatives from every CUNY campus), provides one-stop access for all online instruction in CUNY. It lists, for example, 100 courses for the Fall 2002 term, gives details and points of contact, and is readily updated. Released at the end of the previous academic year, the CUNY Online DLN is at <http://www.dln.cuny.edu>.

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**John Mogulescu, University Dean for Academic Affairs and****Deputy to the Executive Vice Chancellor****William Ebenstein, Director, The John F. Kennedy, Jr. Institute for Worker Education**

University Management, Office of Academic Affairs

**The John F. Kennedy, Jr. Institute for Worker Education**

The John F. Kennedy, Jr. Institute for Worker Education supports the higher education and career advancement of frontline workers in health, education and human services occupations. The Institute is a partnership between CUNY and Reaching Up, a nonprofit organization founded in 1989 by John F. Kennedy, Jr. It works with colleges, public and private employers, unions, advocacy groups and government agencies to: sponsor collaborative worker education programs; provide scholarships and career mentoring to exemplary workers; conduct workforce research; advocate for a living wage and health and educational benefits for low-wage workers; and convene conferences on related workforce issues.

Over the last four years the Institute has received \$2.5 million in funding from the NYS Department of Health (via Consortium for Worker Education) and the NYS Office of Children and Family Services to design and implement credited certificates in the emerging fields of disability studies and youth studies at eight CUNY and SUNY campuses. Thus far, 600 workers employed at over sixty public and nonprofit agencies have participated. All participants are sponsored by their employers and receive bonuses and/or promotional opportunities upon completion of the certificate. Many also continue taking college courses toward a related degree. Institute staff is also providing technical assistance to State officials and professional associations who are replicating the program throughout New York. Over the last four years the Institute has also received almost \$1 million in funding from the 1199 SEIU/League Employment Training and Job Security Program, a labor-management organization, to design University-wide programs for union members. The Institute has coordinated the development of programs at six CUNY schools that provide a supported introduction to college, facilitate enrollment in nursing and other health degree programs, and enhance career counseling and academic advisement services.

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**John Mogulescu, University Dean for Academic Affairs and****Deputy to the Executive Vice Chancellor****John Garvey, Director of Collaborative Programs**

University Management, Office of Academic Affairs

**Myself Third: Spirit of New York Scholarship Program**

Through a generous gift (\$50,000) provided by City College alumnus Robert Friedman, the University has established the Myself Third: Spirit of New York Scholarship Program. Twenty-five scholarships, of \$2,000 each, are available to students in College Now, a collaborative initiative of the City University of New York and the New York City Department of Education that prepares high school students for college level work.

The scholarship program pays tribute to the altruism of those who participated in the rescue effort following the World Trade Center tragedy. The purpose of the program is to encourage and reward the civic involvement of high school students. The competition is open to high school seniors who are participants in College Now and are intending to matriculate at a CUNY college. A teacher or guidance counselor must nominate and mentor each student through the application process. Applicants are required to submit official transcripts, descriptions of extra-curricular activities, and an essay. In the essay, students are asked to define civic responsibility and illustrate this understanding by sharing a personal experience that demonstrates their appreciation for the importance of civic responsibility.

On June 19th, 2002, in a ceremony at Baruch College, Chancellor Matthew Goldstein and Robert Friedman awarded 25 scholarships to the first group of award winners. Information concerning the scholarship program and profiles of the winners are available on the College Now web page ([www.collegenow.cuny.edu](http://www.collegenow.cuny.edu)).

#### **Pre-Collegiate Arts Consortium**

The Independence Community Foundation has awarded the University a \$200,000 three-year grant to establish a Pre-Collegiate Arts Consortium with the four CUNY colleges in Brooklyn, six public high schools and several cultural institutions. Modeled after the Theatre Education Initiative established at Brooklyn College in 1999, the Consortium's projects are intended to provide professional development opportunities for high school teachers, enhance the quality of arts-related teaching in the high schools and develop opportunities for students to attend performances and cultivate their own artistic talents. The Consortium expects to work with approximately 100 high school teachers and 1,500 high school students over the period of the grant.

Participating colleges and programs include: the Brooklyn College Film Department, the Performing Arts and Communication Department at Kingsborough Community College, the Center for Black Literature at Medgar Evers College, and the Entertainment Technology Department at New York College of Technology. Participating high schools include: the High School of Telecommunication Arts, the Brooklyn High School for the Arts, the Brooklyn International High School, the Frederick Douglass Center, Bedford Stuyvesant Outreach, Street Academy, Wingate High School, Sheepshead Bay High School and Leon M. Goldstein High School. The centerpiece of the Consortium effort is its emphasis on the integration of cultural institutions into the existing College Now model of high school and college collaboration. A comprehensive partnership of colleges, high schools, and cultural institutions will enhance the ability of all partners to offer multiple, mutually supportive opportunities to teachers and students. In addition, the Consortium provides qualified students with access to college-level study through its College Now program in film, music, literature, and entertainment production.

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**John Mogulescu, University Dean for Academic Affairs and Deputy to the Executive Vice Chancellor**

**Brian Peterson, Executive Program Director**

University Management, Office of Academic Affairs

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#### **Family Independence Administration/CUNY Professional Training Academy**

Through a collaboration between CUNY's Office of Academic Affairs and the New York City Human Resources Administration (HRA), CUNY has provided customized training for HRA's Family Independence Administration (FIA) since 1995. Until recently, the training program has focused on welfare-to-work procedures and agency operations, such as childcare, case management and client database systems. This year,

the program has been greatly expanded to include a range of non-credit and credit bearing courses offered at four CUNY campuses: Borough of Manhattan Community College, LaGuardia Community College, Lehman College, and New York City College of Technology. The expansion of this project reflects a significant agency commitment to the professional development of its staff and provides for participation in CUNY courses during work time. It is estimated that as many as 3,500 FIA employees and 1,000 employees of HRA/FIA contracted vendors will participate in program courses annually. The program, known as the FIA/CUNY Professional Training Academy, offers specially designed non-credit coursework in oral and written communication, computer applications and human services. Beginning in January 2003, agency workers will have the opportunity to take selected credit courses in human services and social work at the associate and/or bachelors levels at the four participating campuses. The project, which is funded through 2005 for a total of \$22,991,600, serves as a prototype for similar future collaborations with other City and State agencies.

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#### **Lawrence Muller, Professor**

LaGuardia Community College, Computer Information Systems

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#### **Advanced Technological Education**

Professor Lawrence Muller is the recipient of a National Science Foundation-Advanced Technological Education grant funding the creation of a New Media Technologies Curriculum. This Curriculum and Professional Development Adaptation and Implementation Project, in the amount of \$599,805, supports development of a comprehensive, interdisciplinary curriculum, emphasizing experiential learning and industry internships for students and faculty, leading to an A.A.S. degree. In addition, the project includes a faculty professional development program with externship placement in the rapidly expanding New Media industry in the New York City metropolitan area. As part of this effort, LaGuardia is adapting and implementing programs and policies with the assistance of the New York New Media Association (NYNMA), Consolidated Edison of New York (Con Ed), and the North West Center for Emerging Technologies (NW CET). To insure the viability of the curriculum, this project has established skill standards, based on those developed by the Northwest Center for Emerging Technologies. LaGuardia Community College is partnering with Consolidated Edison of NY (Con Ed) and other area businesses and community organizations to constitute a formal Industry Advisory Board as the critical link to the College to provide up-to-date knowledge and benchmarking practices for its new program in New Media.

Dr. Lawrence Muller has been a Professor in LaGuardia Community College's Computer Information Systems Department for 13 years. He specializes in the data communications area and teaches courses in web development: including HTML Java and JavaScript, and the fileserver programming modalities: CGI, ASP, and ISAPI. He serves as the chairperson of the College's web-site development committee and has been responsible for establishing a number of Internet connections and web-sites. This includes technical support for the NSF sponsored New York City-AMP Virtual Center.

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#### **Carolle Nicolas-Bolnet, Assistant Professor**

Medgar Evers College, Biology

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#### **Introducing Students to Conservation Genetics and Environmental Science**

Dr. Carolle Nicolas-Bolnet was awarded a grant of \$110,526 by the National Science Foundation to direct an Undergraduate Mentoring in

Environmental Biology (UMEB) project. This UMEB project seeks to increase the participation of students from under-represented groups at two New York City colleges by engaging them in hands-on research projects in conservation genetics and environmental science in collaboration with scientists at their colleges and at the American Museum of Natural History. In order to accomplish this, each year, a cohort of 4–6 students from each college will be recruited and the students will conduct research projects over a two-year period. During the academic year, the research will be done on the home campuses. Over the winter breaks and summers, research will be conducted at the American Museum of Natural History. These students will serve as a nucleus to get other students involved in environmental projects throughout the metropolitan area. This UMEB project will involve students in workshops in molecular biology techniques, seminars in population biology, and workshops that provide graduate school and career guidance. The students will be closely mentored and their progress monitored and assessed in order to help them become our future scientists in environmental biology and in order to develop additional programs capable of broadening participation in careers in environmental biology.

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### **Victor Y. Pan, Distinguished Professor**

Lehman College, Mathematics and Computer Science

#### **Complexity Theory**

Victor Y. Pan, Distinguished Professor of Mathematics and Computer Science at Lehman College, continues to receive accolades for his groundbreaking research. In 2001 he won the annual “Best Paper Award” from the Journal of Complexity. For the past 20 years, Dr. Pan’s research has been supported by the National Science Foundation. He was also a consultant for AT&T Bell Laboratories and the General Electric Research and Development Center.

Dr. Pan’s original thinking has led to significant breakthroughs in theoretical computer science and algebraic and numerical analysis. In his research, Dr. Pan focuses on numerical and algebraic algorithms, which are the backbone of present-day computations in the sciences, engineering, and communications. One of his permanent research objectives is the search for correlation among subjects and fields of his study, which should lead to unifying techniques for the design of more effective algorithms for various computational tasks. In other words, he is seeking “a few keys that will open many computational locks.” One of Dr. Pan’s recent efforts in this direction involves devising new effective computational methods that combine the techniques of faster numerical computations with bounded precision and slower algebraic techniques for error-free symbolic computing.

Prior to joining Lehman College’s Department of Mathematics and Computer Science in 1988, Dr. Pan was a Professor at the State University of New York at Albany. At various times in his career, he has worked as a Visiting Scientist at the IBM Research Center in Yorktown Heights and at the International Computer Science Institute in Berkeley, California. He has been a member of the Institute for Advanced Study in Princeton, New Jersey, and an Invited Scientist at a number of research institutions in Europe. He was a Senior Key Scientist at the Mathematical Science Research Institute in Berkeley and a Visiting Professor at several schools, including Columbia University, the University of Pisa in Italy, and Stanford University. Dr. Pan emigrated to the United States in the late 1970s from the former Soviet Union. He earned his Ph.D. at Moscow University, where he also began his research, which he then continued at a research institute of the Soviet Academy of Science. During that time, he published a number of significant papers and became known informally as “Polynomial Pan” for his pioneering work in the area of polynomial computations.

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### **Steven Penrod, Distinguished Professor**

John Jay College of Criminal Justice, Psychology

#### **Risk Management and Juries: How Jurors React to Cost-Benefit Analyses**

Professor Penrod’s current research includes two National Science Foundation-supported projects totaling \$260,000. The project will focus on two aspects: 1. a longitudinal study of the impact of the U.S. Supreme Court’s Daubert decision which changed evidence law governing the admissibility of expert scientific and technical testimony and, 2. a meta-analytic survey of eyewitness research designed to summarize findings from twenty-five years of experimental research examining factors that influence eyewitnesses. Professor Penrod’s research and writing have focused on decisionmaking in legal contexts. He has written extensively about the jury including research on the effects of jury size and decision rules on jury decisionmaking, death penalty decisionmaking, juror’s use of probabilistic and hearsay evidence, comprehension of legal instructions, and the impact of extra-legal influences such as pretrial publicity, joinder of charges, the effects of cameras in the courtroom, and the effects of juror questioning of witnesses on jury performance.

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### **Andrew Poje, Assistant Professor**

College of Staten Island, Mathematics

#### **Geometry and Statistics of Ocean Mixing**

Dr. Andrew Poje’s current research interests are centered on the application of geometric ideas from dynamical systems theory to problems involving mixing and stirring in fluid flows. In particular, the research team is attempting to understand how identifiable flow structures (such as eddies and rings in the Gulf Stream and Gulf of Mexico) contribute to and orchestrate the transport of environmentally important properties such as temperature, salt, and biomass in the ocean. The goal is to isolate the evolving boundaries of such structures and to quantify the transport of material relative to these boundaries. Extending existing techniques to complex flow fields produced by numerical simulations of the ocean and relating the geometric information to existing statistical theories of turbulent transport is the subject of a recent National Science Foundation-supported proposal. This approach combines mathematical ideas from non-linear dynamics (chaos theory), geophysical fluid mechanics, and physical oceanography with high resolution data from numerical simulations of various regions of the world’s oceans. As such, the research is an interdisciplinary effort involving mathematicians, numerical modelers, and oceanographers.

Team members include, in addition to Professor Poje, Professors Michael Toner and Denny Kirwan at the College of Marine Science, University of Delaware. The research is funded by a new NSF initiative specifically supporting collaborations between the mathematical and geophysical science communities. The National Science Foundation award of \$128,999 is for the period September 2002 to August 2005.

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### **Nélida Pérez, Associate Director for Library and Archives**

Hunter College, Center for Puerto Rican Studies  
(Centro de Estudios Puertorriqueños)

#### **Preserving Puerto Rican History and Culture: Three Projects**

The mission of the Centro Library and Archives is to document the history and culture of Puerto Ricans in the United States. Over the course of 2001–2002, three projects concerning diverse aspects of the

experiences of Puerto Ricans /Latinos were funded by several funding sources.

1. The New York City Hispanic Labor Documentation Project was funded at a level of \$12,500 by the Documentary Heritage Program of the State Archives. The purpose of this project is to document labor history. The staff surveyed extensive collections of Latino labor organizations and the personal papers of Latino labor leaders. The purpose of the survey was to ensure that information about the contributions of workers to New York City and the role played by Latinos in the labor movement would not be lost. With a collaboration among various organizations such as the Robert F. Wagner Labor Archives at NYU, the Hispanic Labor Committee of the Central Labor Council, and the Santiago Iglesias Educational Society of the International Brotherhood of Electrical Workers, the project succeeded in producing 40 oral history interviews, conducting thirty-six surveys and acquiring several collections of personal papers. The collections will be organized and made available to researchers.
2. Puerto Ricans in New York: A Records Processing Project funded by the National Historical Publications and Records Commission, at \$50,046. Initiated in August 2001, this project aims to organize and make available 15 collections of personal papers and to produce 15 bilingual finding aids. The collections span the years 1912–1990s. They consist of the papers of individuals who have made important contributions in the areas of government, politics, law, education, the arts, social justice and community activism. Among them are seven women who distinguished themselves as artists, activists and educators. Included in this project are the papers of Oscar Garcia Rivera, the first Puerto Rican elected to public office in the United States; eminent poet Clemente Soto Velez; author Diana Ramirez de Arellano; and activists such as Diana Caballero, Petra Santiago and Juanita Rosado.
3. Documenting Puerto Rican Migration History funded by the National Endowment for the Humanities. This is a multi-year project that began in 1997 with an initial grant of \$223,616. The project's goals are to organize and to make accessible the Records of the Offices of the Government of Puerto Rico in the United States. The records constitute the largest and richest collection of documents on the Puerto Rican migration to the United States. Close to 3,000 linear feet of records have been organized and various parts of the collection have been open to the public. A new grant was received in April 2002 to process another 900 linear feet of materials. Already in great demand by genealogists and other researchers are the identification and documentation records, as well as other materials on migrant farm labor, community affairs, and Puerto Ricans in other regions such as the Midwest.

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#### **Theodore Raphan, Distinguished Professor**

Brooklyn College, Computer and Information Science, Institute of Neural and Intelligent Systems

#### **Studying the Neural Basis for Spatial Orientation, Balance, Learning and Adaptation**

Theodore Raphan's research interests are focused on discovering how the central nervous system controls balance and movement, how neural circuits learn and adapt, as well as on new approaches for characterizing, analyzing, and rendering of images related to biological research. The work synthesizes ideas from artificial intelligence, image processing and analysis, information theory, computational neurobiology, bioinformatics, biomechanics, cognitive neuroscience, psychology, and physiology. Dr. Raphan directs the Institute of Neural & Intelligent

Systems at Brooklyn College, which has ongoing support from the National Institutes of Health (1982–2007) and NASA, through the National Space Biomedical Research Institute (NSBRI) (1997–2004).

One grant from the National Eye Institute (\$212,000 per year, total support—\$4,000,000) has been ongoing for the past 20 years. It supports basic work on computer modeling of the behavior and organization of the vestibulo-ocular reflex. Through computer modeling and model-based experiments, work on this project is identifying the neural basis for maintenance of gaze stability and spatial orientation during rotation and linear translation of the head. A recently acquired grant from the National Institutes of Deafness and other Communicative Disorders (NIDCD) (\$325,000 per year; total support—\$1,850,000) supports experimental and theoretical modeling work on how the vestibular system stabilizes body, head and eye movements during natural locomotion in humans. Dr. Raphan also is funded by the National Space Biomedical Research Institute, a NASA funded institute (\$125,000 per year; total support—\$750,000), to develop balance assessment criteria for astronauts who are exposed to microgravity during space flights. A grant from the NIDCD (Subcontract from Mt. Sinai School of Medicine—\$40,000 per year; total—\$200,000) supports work on computer modeling of the neural circuits that control learning and adaptation in the vestibular system. The purpose of this work is to better understand procedures for vestibular rehabilitation and countermeasure design for motion sickness.

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#### **Arthur S. Reber, Broeklundian Professor**

Brooklyn College, Psychology

#### **Implicit Learning and Unconscious Cognitive Processes**

For the past forty years Professor Reber has been studying implicit learning and unconscious cognitive processes by which the brain seeks to create and identify patterns. One instance of this phenomenon is when a speaker makes a grammatical mistake that the listener knows is wrong, but the listener cannot identify what grammar rule has been broken. They just “know” it is incorrect. In another example, certain people may seem peculiar when there is nothing about them that can be pointed to as the offending trait or action, something about the entire pattern of their presence seems strange.

Supported by the Cognitive Psychology Division of the National Science Foundation at the level of \$200,000 for three years, Professor Reber's most recent work on this idea, which is researched using an Artificial Grammar Learning Task he has developed, has demonstrated that this type of non-verbal intuition functions at a high level in people with chronic brain damage, depressives, the highly anxious, and children with autism and Williams syndrome, suggesting that unconscious intuition remains intact even though other external mental functions like problem solving ability and intelligence may be greatly diminished. A further outgrowth of the research shows that the mind might also react this way on questions of preference, which could have significant impact on numerous fields, including education and marketing. Whereas, earlier theories have pointed to repeated exposure as a stimulus, Professor Reber's work shows that it is the exposure to repeated patterns that forms preferences for certain novel items that conform to these patterns. After frequent exposure to a certain class of objects, the unconscious discerns an underlying pattern and it becomes possible for viewers of modern art, for example, to appreciate new works of art and make distinctions between what is “good” and “bad” even though most viewers would be hard-pressed to verbalize why they like one piece of modern art over another.

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**Syed Rizvi, Associate Professor**

College of Staten Island, Engineering Science and Physics

**Infrared Imagery**

Dr. Syed A. Rizvi's current research interests include image and video coding, applications of artificial neural networks to image processing, and automatic target recognition. His research project, funded by the US Army Research Office, deals with automatic target recognition (ATR) that uses forward-looking infrared (FLIR) imagery. FLIR ATR, however, is a challenging problem, because of the unpredictable nature of thermal signatures. This high variability of target thermal signatures is due to several factors, including meteorological conditions, time of day, location and range. The high variability of target signatures, target obscuration, and background clutter results in a large number of false alarms at the target-detection stage. These false alarms must be discarded at the clutter-rejection stage; otherwise, the recognition performed by the subsequent classification stage would be unreliable, regardless of the dependability of the classification technique. Therefore, the focus of his current research is to develop a clutter-rejection technique that can substantially reduce the number of false alarms produced by the detection stage. The work has received support for the period September 2000 to January 2004 from the U.S. Army Research Office in the amount of \$172,229.

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**Audrey D. Rose, Director****Jennifer E. Misick, Associate Professor**

Bronx Community College, Personal and Academic Support Services Program (PASS Center)

**A Comprehensive Student Support Services Program**

The PASS Center is a Trio Student Support Services Program providing support services to five hundred and fifty (550) first generation, low income and disabled students. The purpose of the program is to foster higher retention and graduation rates of students and where appropriate facilitate transfer into four-year colleges.

Funded by the U.S. Department of Education for \$2.5 million over five years, the Pass Center provides support through tutoring, advising /counseling, mentoring and social services. Along with these critical services, the PASS Center places major emphasis on providing participants with a learning environment that will help them advance through developmental and remedial courses. The academic need of each participant is assessed through various educational instruments and a program of comprehensive support is recommended. Students are trained in study skills, compensatory learning, self-advocacy, and English speaking and writing. In addition, each student is assigned a mentor who monitors his/her progress. The PASS Center has a tutor certification program designed to train peer tutors in the program. Certification is given through the College Reading and Learning Association. The Center has been recognized by the Middle States Association as one of the strengths of Bronx Community College and a program to be replicated by others. The retention and graduation rates for the PASS Center have been maintained at 84% over the last five years, making it one of the most highly rated among Student Support Services Programs in the nation. Furthermore, the program is an exemplary model of service delivery and best practices in achieving academic success among the student population that it serves.

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**Katherine St. John, Assistant Professor**

Lehman College, Mathematics and Computer Sciences

**Bioinformatics**

Professor St. John's work focuses on designing new approximation algorithms for phylogenetic tree algorithms, studying the accuracy of these methods, both experimentally and theoretically, and analyzing random trees and other structures for such properties as their fitness for modeling evolutionary mechanisms. Determining the evolutionary history, or phylogeny, of a set of taxa, whether species, virus, or even human languages is a basic question of great interest. Phylogenies are used as a framework for understanding properties of species, for drug discoveries, and even in court cases. The uses for such evolutionary histories, include reconstructing the tree of life, identifying the emergence and place of origin of diseases, discovering drug resistance processes, and guiding the search for new pharmaceuticals or biotechnological products. In biological applications, the true tree is almost never known, which makes assessing the quality of phylogenetic reconstruction methods problematic. As a consequence, the method of choice for evaluating heuristics has been simulation. Model trees are generated following some random distribution and sequences are "evolved" down the model tree. Phylogenetic methods are assessed based upon how accurately they reconstruct the model tree given only the evolved sequences at the leaves of the tree.

Since coming to Lehman College in 1999, Professor St. John has received over \$700,000 in external grant funding. Her research has been supported by the National Science Foundation, most recently by a grant from the Information Technology Research Initiative (ITR). Included in this grant, is an innovative research opportunity for promising CUNY undergraduates to work on a joint project, visualizing the tree of life, with the Center for Computational Biology and Bioinformatics at the University of Texas, Austin. In addition to research grants, Professor St. John (with Professor Linda Keen, both of Lehman College and the Graduate Center) has an NSF grant that provides mentoring, training, scholarships and laptops to promising undergraduates majoring in technology fields.

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**Myriam Sarachik, Distinguished Professor**

City College, Physics

**Studies of High-spin Molecular Nanomagnets**

Distinguished Professor Myriam P. Sarachik, a member of the Physics Department of The City College of New York since 1964, has received many honors, awards and distinctions, including the 1995 New York City Mayor's Award for Excellence for Science and Technology. She is a member of the National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences, as well as Fellow of the American Physical Society, the American Association for the Advancement of Science, and the New York Academy of Sciences.

Funded by the National Science Foundation for \$166,000 per year and the U. S. Department of Energy for \$100,000 per year, the work for which she has received international recognition takes place in a low-temperature laboratory on the second floor of the Robert E. Marshak (Science) Building at City College. With students, postdoctoral Research Associates, and an occasional Visiting Scholar, she has studied the electrical and magnetic properties of metallic alloys, semiconductors, and molecular nanomagnets at temperatures down to 0.05 Kelvin degrees above absolute 0. In addition to the usual electronic equipment commonly found in laboratories, the techniques required to reach milliKelvin temperatures require cryogenic liquids and specialized apparatus for storing, handling, transferring and using the cryogens.

Professor Sarachik has been an advisor and consultant to the National Science Foundation and the National Research Council of the National Academy of Sciences; she has been active in issues concerning the human rights of scientists; and she has served on numerous committees of the American Physical Society (APS). She was elected President of APS a 44,000-member society of American physicists for the year 2003.

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**Lori Scarlatos, Associate Professor**

Brooklyn College, Computer and Information Science

**Innovative Approaches to Computer-Human Interfaces**

Professor Scarlatos has been working to bring recent innovations in computer-human interfaces into the classroom. The main purpose of her work is to empower New York's K-12 teachers with the ability to employ new technologies in pedagogically sound ways. Professor Scarlatos is also interested in exposing computer scientists to the possibilities embodied in the new technologies and getting them excited about applying these technologies to educational purposes. Professor Scarlatos is also an inventor who created the Tangible Interfaces for Collaborative Learning Environments (TICLE), a computer program that observes students while they try to solve a puzzle with real puzzle pieces. A TICLE prototype has been installed at the Goudreau Museum of Mathematics in Art and Science and the San Antonio Childrens Museum. It uses the Tangram puzzle to teach geometry concepts, and acts as a "guide on the side", "watching" what children do with the puzzle pieces and providing guidance and encouragement as needed.

Her most recent work seeks to incorporate innovations such as tangible interfaces, ubiquitous computing, and virtual reality, which are particularly well suited to educational use. This newest generation of computer software enables computers to respond to students' natural physical actions; permit more than one person to interact with a computer at a time; and can even make computers more accessible to people who have difficulty with traditional GUIs. In this effort, students will learn how to apply these innovative computer-human interface technologies to educational applications. Students from graduate and undergraduate classes will develop educational applications of their own design. The best resulting projects will be showcased at two nearby math and science museums: the New York Hall of Science and the Goudreau Museum of Mathematics in Art and Science. A select group of students will receive paid internships at these museums, giving them the opportunity to observe their applications in action.

Professor Scarlatos is the recipient of two major awards, including a grant from the National Science Foundation Combined Research-Curriculum Development (CRCRD), at a level of \$402,135 over 3 years, to create "Innovative Approaches to Computer-Human Interfaces," starting August 2002. In 2000, she was also awarded a \$204,712 Faculty Early Career Development (CAREER) award from the NSF, over four years, to develop Tangible Interfaces for Collaborative Learning Environments (TICLE).

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**Patricia Schneider, Associate Professor**

Queensborough Community College, Biological Sciences and Geology Department

**Bridges to the Baccalaureate**

Queensborough Community College received a three-year (April 2002 – March 2005) grant of \$632,623 from The National Institutes of Health to establish a three year Bridges to the Baccalaureate partnership between Queensborough Community College, Queens College, York

College and the New York City Department of Health. A key component of the Bridges Program is to provide minority science students with an increased understanding of the scientific research process and specialized knowledge beyond the normal curriculum through laboratory research.

Last year with support from the Metropolitan Association of College and University Biologists, Dr. Schneider mentored two students examining fecal pollution in a Flushing Bay microbial ecology research project. Her own research focuses on the "Assessment of Bacterial and Genetic Risk Factors for Periodontal Disease in Asian Populations." Bridges' students, working with Dr. Schneider, will attempt to correlate bacterial infection and IL-1 genotype with clinical criteria in Asian-Indian periodontal patients. Additional laboratory research opportunities will be provided on campus by Queensborough Biology, Chemistry, Math, and Physics faculty, and off-campus at the partnership institutions: Queens College, York College and the New York City Department of Health.

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**Brian Schwartz, Vice President for Research and Sponsored Programs**

The Graduate School and University Center, Physics

**A Symposium Associated with the Opening of the Play Copenhagen in Washington**

Dr. Brian Schwartz worked with the physics community to organize a symposium associated with the opening of Michael Frayn's play, "Copenhagen" in its four-week run in Washington from February 26, 2002 through March 24, 2002. Copenhagen re-enacts the possible events associated with an actual visit that took place in 1941 between Werner Heisenberg of Germany and Niels Bohr in Nazi-occupied Denmark. The great success of the play on Broadway has led to a national touring company and confirms the strong public interest in how science and the great physicists played a major role in the development of the 20th century. The rationale for organizing a symposium, similar to the very successful one that Dr. Schwartz organized in New York, is to ensure and expand the involvement of the general public and students in the science and drama of the play. There is a need to engage and inform the general public in the understanding and appreciation of science, scientists and the impact of science on our daily lives. The play Copenhagen, perhaps more than any science-based play involves the audience in an understanding of the impact of the new physics. The playwright includes sound explanations of both quantum mechanics and nuclear physics as part of the drama of the play.

Dr. Schwartz, through his affiliation with the American Physical Society, American Institute of Physics and the American Association of Physics Teachers worked with many of the schools and colleges in the metropolitan Washington area. The impact of the symposium and the associate colloquia and seminars extends well beyond the attendees through wide interest by the local press including, TV, radio and print. The extended on-site colloquia and discussions encouraged debates and interdisciplinary learning opportunities by including the sciences (physics), the humanities (history), and the arts (theater). The National Science Foundation made available \$19,000 for this project.

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**Richard Schwartz, Professor**

The Graduate School and University Center, Speech and Hearing Sciences

**Research Training in Speech and Hearing Sciences**

This is a five-year grant (National Institute on Deafness and Other Communication Disorders, \$165,528) to support predoctoral and postdoctoral training in Speech and Hearing Sciences. The grant supports four postdoctoral fellows and two predoctoral fellows annually. The trainees receive a stipend as well as funds for travel to conferences and research supplies. Each trainee is assigned to one of the preceptors (research faculty). The grant is designed to enhance the research training of the individuals who receive traineeships by insuring that they are active participants in a laboratory in addition to their normal studies and activities. To that end, the grant supports doctoral students to spend a minimum of twenty hours per week in an active laboratory. They are supported for three to five years. Postdoctoral trainees are assigned to full-time work in an active laboratory where they participate in ongoing projects and conduct their own research. They are supported for one to three years.

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**Anthony Sclafani, Distinguished Professor**

Brooklyn College, Psychology

**Sugar, Fat, and Alcohol Appetite**

Professor Anthony Sclafani directs the Feeding Behavior and Nutrition Laboratory (FBNL) at Brooklyn College. His research is investigating the role of taste, nutrition, and learning in the development of food preferences, particularly for foods rich in sugar and fat. In collaboration with Professor Richard Bodnar at Queens College, Dr. Sclafani is studying the pharmacology of learned food preferences. This work implicates brain dopamine and opioid systems in food reward and preferences. Parallel studies being performed with Dr. Karen Ackroff are examining alcohol appetite in animals from a learning and nutrition perspective. Dr. Sclafani's research program is supported by the National Institutes of Health. He recently received an eight-year NIH MERIT award that extends the duration of his research grant to 25 years. Combined, the grant and award total approximately \$2.2 million. Current work is also being supported by a \$450,000 grant from the National Institute of Alcohol Abuse and Alcoholism. Dr. Sclafani is a graduate of Brooklyn College (1966) and received his Ph.D. in Psychology from the University of Chicago (1970). He is a past president of the North American Association for the Study of Obesity and the Society for the Study of Ingestive Behavior, and was a recipient of a National Institute of Mental Health Research Scientist Award.

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**Irina Sekerina, Assistant Professor**

College of Staten Island, Psychology

**Bilingual Russian/English Research**

Dr. Irina Sekerina's research is supported by a three-year National Science Foundation ADVANCE grant. Its focus is on broad aspects of bilingual research and pursues two concrete goals: (a) to investigate bilingual processing in a series of language experiments and (b) to pilot the eye-tracking technology with bilingual persons as a special population. Bilingual persons represent a special population group because of a characteristic of their communicative abilities referred to as "performance deficit." Four experiments will examine how general and language-specific sources of information influence the processing

performance of bilingual Russian-English adults and how on-line processing mechanisms are developed by bilingual Russian-English children using the free, head-mounted eye-tracking technology. Monitoring eye movements during auditory experiments will produce information about processing, developing, and interpreting language. Eye-tracking research requires a solid foundation in optics, telecommunications, and computer hardware that goes beyond the traditional experimental training generally undertaken in the social sciences. The project and eye-tracking laboratory will attract undergraduate and graduate students in psychology, linguistics, and neuroscience programs. The benefits of this technology for research on very diverse classes of subjects, such as special needs populations, foreign speakers, and minority groups with cultural and language considerations have not yet been explored. A clearer understanding of the components of bilingual cognitive architecture that is responsible for performance deficit has important implications in pedagogy and applied psychology. The investigation would lead to a better understanding of normal linguistic architecture. This research will be conducted in collaboration with faculty and graduate students from the College of Staten Island and the CUNY Graduate School. The research is supported by a grant of \$244,189 from the National Science Foundation for the period March 2002 to April 2005.

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**Jean Shaddai, Program Director**

Bronx Community College, Reading and Study Skills

**Head Start Initiative**

Professor Jean Shaddai, under the auspices of the Education and Reading Department, directs the Bronx Community College Head Start Initiative, a federally funded program, through a renewable four-year grant in the amount of \$520,000. The grant became effective in October 2001. The grant enables BCC to provide academic services to sixty Head Start personnel per year. The Initiative evolved in response to needs that had been identified by Head Start agencies and Head Start's federal grantor, the Administration for Children and Families (ACF). National Head Start performance standards increasingly require advanced academic preparation and skills, especially in the areas of Education (Teacher/Teacher Aide) and Case Management/Family Worker roles. From October 2001 to the present, the Initiative now serves seven Head Start agencies located in the Bronx and Northern Manhattan. Two-thirds of the students are registered in the Early Childhood Education degree program. More than half of these have completed over 30 credits. The retention rate is high, and those who have left the program did so because they re-located to other cities. One has already graduated, and at least three more are expected to graduate by the end of 2002. A number of students from the College's partner agencies (La Peninsula and Trabajamos) were honored at the College's Spring Honors Convocation. Over the course of the program, at least 50% of the participants will be on the path to receiving four-year degrees.

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**Mark D. Shattuck, Assistant Professor of Physics**

City College, Physics and Benjamin Levich Institute

**Experimental Kinetic Theory**

From coal mines, to grain silos, to the rings of Saturn, and to the granular mixers of the pharmaceutical industry, granular materials are an integral part of our universe. Funded in the amount of \$450,000 through the National Science Foundation Faculty Early Career Development (CAREER) Program, this project will experimentally determine the region of applicability for competing theories of granular

materials in both idealized and industrially relevant systems and incorporate research experience into the science curriculum. A fundamental understanding of granular systems, like sand in an hourglass or grains in a silo, comparable to the current understanding of fluids and solids, does not exist today but would have far reaching impact across many industries, such as energy production, food processing, and pharmaceuticals. The basic assumptions used to derive current theories of granular flow are similar to those of normal fluids but are clearly violated for some granular systems. The goal of these experiments is to determine the conditions under which these theories can be used to calculate accurate results and to extend the theories to encompass a broader range of situations. The simple visual nature of these experiments creates an ideal opportunity to incorporate research into the undergraduate and graduate science curriculum through a combination of individual focused research opportunities, an advanced research methods course, and a granular materials course.

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### **Chwen-Yang Shew, Assistant Professor**

College of Staten Island, Chemistry

#### **Complex Polymers and Semiconductors**

Dr. Chwen-Yang Shew's current research, with Dr. Godfrey Gumbs of Hunter College, is aimed at understanding the static and dynamic properties of complex polymers and semiconductors from theoretical perspectives. They have devised both computer simulations and theories to investigate these systems. The ongoing projects include: (1) electroactive polymers in external fields; (2) inhomogeneous polymers and (3) conductivities of semiconductors. These projects have been supported by a PSC-CUNY award and the CUNY Incentive Collaborative Research award:

- Electroactive polymers in external fields: Electroactive polymers display strong response to electric fields, and undergo substantial deformation under electric fields. In this project, Dr. Shew has developed several models to elucidate the effects of electric fields on the behavior of electroactive polymeric materials and his theoretical modeling offers detailed rationales from the viewpoint of molecular levels.
- Inhomogeneous polymers: The commonly used plastics are made of polymers and these polymers exhibit sufficient toughness to maintain the shape of products and to resist weariness. Recently, Dr. Shew has devised a novel model, and this model allows us to quantify the experimental results related to the properties of cavities. In addition to plastics, the model is quite universal and is also applicable to other complex inhomogeneous systems, such as gels.
- Conductivities of semiconductors: Semiconductors are the most widely used materials for computer and electronics industry because of their unique conductivities. In spite of enormous efforts, there remain many unanswered questions, for instance, semiconductor conductivities in the presence of magnetic fields.

His research has been supported by New York Fine Chemicals and the New York State Center for Advanced Technology. The CUNY Collaborative Grant is for the period of November 2001 to October 2003, in the amount of \$32,260.

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### **Wynne A. Shilling, Associate Professor**

### **Sydney L. Schwartz, Professor**

York College/Queens College Teacher Education

#### **CUNY Literacy Project**

The CUNY Literacy Project responds to current research and theory in the area of literacy learning that suggests that a number of critical elements should be present in learning environments in order to maximize the potential for enhancing children's development in the literacy learning process. These elements include: use of interdependent communication modalities (speaking, listening, writing, reading) that engage children in language-rich activities that build on their experiences. This is accomplished through increased frequency and quality of adult/child and child/child interaction about curriculum content; small group instruction; and interdisciplinary content instruction.

The Project Design calls for Literacy Teams consisting of an early childhood literacy specialist or reading teacher, the classroom teacher, and a project and/or classroom educational assistant to facilitate literacy learning in small groups of eight to ten children for 45 minutes daily inside their classroom. Curriculum unit packets developed for the Project were designed to introduce children to literacy through discussion using quality literature and conform to NYS English Language Arts standards and National Council of Teachers of English (NCTE) standards and guide to the activities. Professional development off and on site is integral to the CUNY Literacy Project's success. Team leaders and educational assistants meet monthly off-site for professional development and teams are supported on-site by two visits monthly from a project staff developer. As the teams develop over a three-year period, on-site support is reduced.

Longitudinal analysis of the program explored differences in test scores of participating and non-participating fourth graders over a two-year period on city and state standardized literacy tests and suggest that overall, fourth grade CUNY LEP participants experienced a higher average gain in literacy scores than their non-participant peers. Significant results were reported for English Language Learners (ELL) in first, second, and third grades on the LAB test for Limited English Proficient Students. Currently funded by the New York City Board of Education (\$154,488 in FY 02) and The City University of New York Office of Academic Affairs, the Board has awarded the collaboration between York and Queens College more than \$1.2 million dollars from FY 1997 through FY 2002.

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### **Rosanne Silberman, Professor**

Hunter College, Special Education

#### **Teacher Preparation in the Low Incidence Areas of Severe Disabilities**

For more than a quarter century, Professor Rosanne Silberman has been awarded numerous grants from federal, state, and private sources for teacher preparation in the low incidence areas of severe disabilities including deaf-blindness and blindness and visual impairment. More than 300 teachers have been trained during this span of time. Currently, a four-year grant totaling \$800,000 from the U. S. Education Department's Office of Special Education Programs prepares master's degree students from diverse backgrounds to work in urban settings with culturally and ethnically diverse learners with severe disabilities including deaf-blindness. Both full and part-time students accepted into this specialized program receive tuition assistance and stipends. Hunter College is recognized as one of seven university programs across the country that offers personnel preparation in the area of deaf-blindness.

Another Master's Degree Program is supported by the Rehabilitation Services Administration, U. S. Department of Education, to prepare

Vision Rehabilitation Professionals in Rehabilitation Teaching and Orientation and Mobility. There is a dire shortage of rehabilitation personnel in this field, and Hunter College is the only university in the northeast offering this specialized program supported by outside funding. Graduates of this program are dually prepared to work in two specializations with adult individuals who are blind and visually impaired including those with multiple impairments and youth of transition age. Federal support is currently \$218,000 over three years. Additional funding sources for this program include The New York Community Trust (\$100,000 over two years), the Alene Reuss Foundation (\$100,000 over two years), The Lighthouse International (\$25,000), and The New York Institute for Special Education (\$2,500).

In addition, Dr. Silberman has received \$18,500 of grant support by the New York State Education Department (NYSED) to provide specialized training to eligible candidates to become certified as Teachers of the Blind and Visually Impaired. This advanced certificate program provides support for teachers already certified in elementary education, special education, or a high school content area. This program is funded for on-campus courses and hybrid online courses. Collaborative partners included the Program in Blindness and Visual Impairment, the Distance Learning Center, NYSED, and Genesee Community College in Batavia, NY. Twelve candidates upstate participated in the program along with 12 candidates attending on-campus.

Since there is an extreme shortage of orientation and mobility specialists to work with students in public schools, Dr. Silberman recently has obtained \$49,525 of financial support from the Lavelle Fund for the Blind and the NYSED to prepare teachers already certified as teachers of the blind and visually impaired to become orientation and mobility specialists.

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#### **Richard N. Steinberg, Associate Professor**

City College, Physics and School of Education

#### **Research and Innovations in Science Education**

Richard Steinberg's area of interest is physics / science education research and development. The studies involve investigating, affecting, and evaluating how students learn physics and science. The populations of interest include children, pre-college science teachers, introductory college physics students, and elementary quantum physics students. Over the past five years, the National Science Foundation, the Fund for the Improvement of Postsecondary Education, the National Academy of Education, PSC-CUNY, and the Eisenhower Higher Education Professional Development Program have provided roughly \$960,000 to support this work.

Professor Steinberg uses multiple techniques to probe the development of students' knowledge. For example, individual demonstration interviews are used to explore their thinking processes while performing scientific tasks. These tasks range in difficulty from describing a ball rolling down an incline to detailing the consequences of Einstein's theory of relativity. Student work before and after instruction in multiple learning environments is examined. Also, the project develops and administers diagnostic tools for use with larger populations. The results of the research guide the development and implementation of innovative classroom strategies. Students walk in front of motion sensors interfaced to a computer and watch in real time as graphs of their motion appear on the screen. Other students have a "dialogue" with a computer that interprets their responses to questions on the photoelectric effect. In each case, underlying conceptual difficulties that the students have are directly addressed in a way that actively promote student understanding. Evaluation has shown that the modified instruction has been more effective than traditional instruction in improving students' conceptual understanding, problem solving skills, and views of science.

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#### **Howard Wach, Assistant Professor**

Bronx Community College, History

#### **Advancing the Humanities through Technology at Community Colleges**

This project began in the fall of 1999, when Dr. Isabel Mirsky (Communications Arts and Sciences Department) and Dr. Howard Wach (History Department) applied for a grant from the Community College Humanities Association (CCHA). The proposal was successful, and Dr. Mirsky and Dr. Wach became part of a nation-wide cohort of community college humanities faculty teams chosen to participate in a National Endowment for the Humanities funded program to develop technology applications for humanities subjects. After attending an intensive three-day conference at George Mason University, the BCC team returned with an "Action Plan" to implement technology projects in their respective departments during the 2000 calendar year. In brief, each project was designed to add web-based resources and to develop web-based pedagogy in a required course within the core liberal arts curriculum. An additional CCHA Extension Award during Summer 2002 permitted Dr. Mirsky and Dr. Wach to continue and expand these projects. CCHA and NEH support for both phases of the project totaled approximately \$13,000.

During the 2000–2001 academic year, Dr. Mirsky created a departmental web site with links to various electronic databases. The databases were used to foster information literacy in students by showing them how to search, retrieve, use and document sources found via the databases in assigned research projects. Students were required to find and download one article in a specified area of the CMS 11 curriculum, appropriately cite the source, summarize the article, and relate it to their own experiences, as well as to material learned in class and from course readings. Extension Award support in 2002 allowed Dr. Mirsky to broaden and further integrate the web resource into the Communications curriculum by creating an "online library" for additional units in the CMS curriculum. All links are located on the department web page, permitting all CMS 11 instructors to enhance the content of their course.

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#### **Lynne A. Weikart, Associate Professor**

Baruch College, School of Public Affairs

#### **Project for Rockaway Youth in Safety and Education (PRYSE)**

The tragic events of Columbine resulted in Congress passing the Safe Schools/Healthy Students Initiative, which provides federal grants to communities to improve their school environment and the health of children and adolescents. With Professor Gregg Van Ryzin, Professor Weikart serves as an evaluator for one of these federal projects. Project for Rockaway Youth in Safety and Education (PRYSE), is an unprecedented partnership among ten nonprofit organizations and the school system to support broad-based preventive approaches to violence throughout the Rockaway community. The NYC Board of Education funds this three-year project through a \$550,680 grant. The evaluators develop outcome measures, monitor program implementation and the collection of service delivery data, collect and analyze existing statistics and social indicator data, and prepare briefings and reports. A telephone survey of households in the Rockaways is produced annually in cooperation with the Baruch School of Public Affairs Survey Unit. The Survey Unit is a facility of 20 computer assisted telephone-interviewing (CATI) stations for conducting telephone surveys of various kinds and staffed by interviewers hired from the Baruch College study body.

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**Michael Weisberg, Associate Professor**

Kingsborough Community College, Physical Sciences

**Petrologic-Geochemical Research on Solar System Materials**

Dr. Michael Weisberg is doing scientific research through a 3-year (\$150,000) NASA grant at the American Museum of Natural History to understand the evolution of the early solar system by cosmo-chemistry and the study of chondrites (a type of meteorite). Chondrites are some of the oldest and most primitive materials available for laboratory study, which means they have remained unchanged for over 4.55 billion years. The rocks that Dr. Weisberg studies are among the first rocks ever formed in our solar system, and they act as a kind of recorder of the beginning of our planets and sun. Dr. Weisberg presented his research on early meteorites at the Lunar and Planetary Conference in Houston, Texas in February 2003. His findings on olivine aggregates and the processes they have gone through provides a window into the past to when the first gasses in our universe transformed into the first solids thereby creating our solar system.

The research by Dr. Weisberg is meant to discover and understand what the early solar system was like. Petrologic-Geochemical studies of these materials will help us understand the conditions and processes that were active in the early solar system in which they formed. The goal of the research is to distinguish between the characteristics of the materials formed in the nebula and those formed from parent body processes, such as impact or hydrothermal alteration. Dr. Weisberg also classifies various meteorites that are brought to the museum. He recently discovered a brand new type of meteorite which is 70% metal and he believes came from the very center of our solar system at the beginning of its formation.

The research by Dr. Weisberg, who also holds the title Research Associate at the American Museum of Natural History, is a type of space exploration whereby he can study other planetary bodies on earth. Pieces of these bodies break off and are drawn by the earth's gravitational pull landing in spots on the earth from Antarctica to Australia. At the American Museum of Natural History Professor Weisberg does his research utilizing some of the most sophisticated equipment in the world—the new petrographic microscope, electron microprobe and the brand new state-of-the-art Hitachi FEG-SEM. The evolution of the early solar system is something Dr. Weisberg has been studying for many years. He believes that we can better understand its origins by exploring how the various chondritic components developed thereby gaining an understanding of how the solar system began through its original elements. Dr. Weisberg has a three-year NASA grant for \$150,000.

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**Patricia Wilkinson, Professor**

Borough of Manhattan Community College, Mathematics

**Multimedia-Based Calculus with E-Folios**

Dr. Wilkinson has done considerable study in the area of reforming calculus education, and she has received numerous grants for research in transforming the pedagogy of calculus and mathematics. In 2002, Dr. Wilkinson received a one-year \$75,000 grant from the National Science Foundation to develop a combination of multimedia-based and traditional educational materials for an introductory calculus course. With the use of efolios, she is extending a major feature of BMCC's calculus program—the written communication of mathematical ideas. Each student must present his or her best projects with a narrative explaining why each project was selected and what was learned from it. With this grant, Dr. Wilkinson is helping students develop electronic portfolios in Calculus I for presenting their mathematics research. The efolios that she is developing use techniques such as three dimensional visualiza-

tion, animation, and dynamic problem solving to help students comprehend complex topics. With efolios, students will publish their findings on the World Wide Web.

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**Patricia Wilkinson, Professor**

Borough of Manhattan Community College, Mathematics

**Alice Cohen, Professor**

Borough of Manhattan Community College, Computer Information Systems

**Phil Penner, Professor**

Borough of Manhattan Community College, Science

**Computer Science, Engineering, and Mathematics Scholarship Program**

The chairpersons of the Mathematics, Computer Information Systems, and Science Departments at Borough of Manhattan Community College received a \$396,000 grant from the National Science Foundation in 2001 for a four-year scholarship program aimed at increasing the number of women and minorities in the computer science, engineering, and mathematics majors at BMCC. Scholarships will be awarded for a two-year period to 36 low-income, academically talented students. In addition to financial support, the program includes individualized academic support services, mentoring, internships, and transfer counseling. With this scholarship program, BMCC aims to increase the number of women and minorities who enter the mathematics, science, and computer fields.

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**Kathleen B. Williams, Associate Professor**

Bronx Community College, Department of History

**Grace Hopper and the Pursuit of Innovation**

In 1983 Grace Hopper, then seventy-six years old, was made an admiral by special appointment of the President. In 1987, the U. S. Navy named its new computer center in San Diego for Hopper, and in 1996, four years after her death, it launched the newest Arleigh Burke-class guided missile destroyer Hopper. The recipient of numerous medals, awards, and honorary degrees, Admiral Hopper was esteemed as a pioneer in computing. Although she never went to sea, her computer expertise and managerial skills made her a pivotal figure in the Navy's path to the computer age. When she finally retired in 1986, Grace Hopper was the oldest serving officer in the Navy. She died in 1992, and was buried with full military honors in Arlington National Cemetery. Dr. Williams received a contract from the Naval Institute Press to write a biography of Grace Hopper for publication in their naval biography series. While Hopper has been the subject of many articles and interviews, no scholarly biography of her exists. A PSC-CUNY grant of \$7,150 for FY 2002 enabled Dr. Williams to begin addressing that deficiency.

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**Clara Wu, Professor**

LaGuardia Community College, Natural and Applied Sciences

**Bridges to the Future**

The National Institutes of Health Bridges to the Future program has awarded Dr. Clara Wu \$647,990 for 2001–2004. The Bridges program developed by Dr. Wu grew out of a college goal to boost the number of minority students who go into areas of science in which African-Americans, Hispanics, Asian-Pacific Islanders, and Native Americans are underrepresented. A program was designed that coupled traditional coursework with intensively guided research in biology, chemistry,

mathematics, or computer science. In addition to supporting students in gaining research experience, the program also facilitates students' transfer to four-year colleges through its links with City College, Hunter, Queens, and Barnard. At each senior college, there is a staff coordinator to continue to advise participating students. Barnard has expanded its role by allowing LaGuardia students to conduct research on their campus in the summer and to enroll in a free science course during the academic year. Twenty-four students are recruited each year; accepted students receive a salary in addition to strong support services. Staff counselors evaluate academic progress, lay out an action plan for transfer, and assist students with academic transcripts, recommendations, scholarships, and financial aid. Through the Bridges to the Future Program over 200 minority students at LaGuardia have gained valuable research experience and 77% of them have continued their education in science or biomedical science at four-year colleges.

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#### **H. Philip Zeigler, Distinguished Professor**

Hunter College, Psychology

#### **Whisking: Studies of a Moveable Sensing System**

Why whisking? One of the major functions of the brain is to use information from the environment to guide behavior. Much of this information is acquired actively, using movements of sense organs such as the eyes or the tips of the fingers, which continually scan the environment. How are the movements of these "mobile sensors" controlled by the brain? How is the information they obtain processed by peripheral and central neurons? How is this information used to control the movements of the sensors themselves? How do animals and humans develop the ability to control sensor movements in time and space; i.e., to generate appropriate "scanning patterns", and to process and utilize the information it acquires in this way? Such questions are central to Distinguished Professor H. Philip Zeigler's research program. The line of study may be approached experimentally by identifying a "model system": i.e., an animal which (a) generates behaviors displaying all the essential features of the types of movement they are trying to explain, and in which (b) the behaviors are accessible to experimental control and analysis. Professor Zeigler's group is using the rat's whisking as a model system for the study of how the brain controls "mobile sensors" and how these sensors are used to acquire sensory information and use it to guide behavior.

Rats spend much of their time in the dark, and their whiskers are an important sense system. A specialized set of whiskers are arranged in a Row X Column grid on the sides of the animal's snout and moved by special sets of muscles. Just as humans can close their eyes and use their fingers to explore objects in their environment, the rat can use its whiskers to discriminate between different objects, and to build up a brain map of the environment through which it moves. It has been shown that the rat obtains the information it needs by controlling the pattern of whisker movements (whisking rate, whisking amplitude) in specific ways, related to the characteristics of environmental objects. Each whisker is a sensory hair, embedded in a capsule, moved by a single muscle at the base of the capsule. The capsule contains a variety of sense organs sensitive to movement of the whisker hair. Information about these movements is conveyed to the brain by a sensory nerve. Each individual whisker is represented by groups of nerve cells, themselves arranged in a grid-like fashion, forming maps of the whiskers at various brain levels. A specific group of brain cells is activated by movements of the whisker which it represents, transmitting information about whisker movements to various brain cells. This one-to-one arrangement makes it feasible to study the anatomy and physiology of this system, since manipulation of a single hair produces predictable changes in the central maps. Computer-controlled optical

(laser) systems enable Dr. Zeigler's group to monitor and control whisker movements in awake animals and record from brain cells during whisking. The data helps scientists to understand how the brain processes sensory input from the body and uses it to control movements.

After 39 years of support by the National Institute of Mental Health, Dr. Zeigler's research is currently supported by a \$300,000 per annum grant from the National Institute of Neurological Disorders and Stroke.

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#### **Arthur Zeitlin, Professor**

Kingsborough Community College, Biology

#### **Nutritional Science (Brooklyn Bridge Program)**

Dr. Arthur Zeitlin is helping to increase minority participation in biological and medical sciences through a 3-year \$600,000 grant from the National Institute of Health as part of their Bridges to the Future Program. The program, which is in its first year at the college, has brought 10 underrepresented minority students who are pursuing biological and medical sciences to Kingsborough to study nutritional science with the hope that they will go on to pursue scientific research as a career.

In addition, the Bridge program works to facilitate student transfer from Kingsborough to Brooklyn College. This is accomplished through a formal articulation agreement that is being worked out between the two colleges in which students will have all sixty of their credits from Kingsborough transferred into Brooklyn College enabling them to obtain a Bachelor of Science in Nutrition Science from Brooklyn College.

The program at Kingsborough is interdisciplinary between the Department of Biology and the Department of Health and Physical Education. New courses in elementary foods, human physiology, biological research methods and chemistry have been developed specifically for this program. Students who graduate from Kingsborough receive an Associates Degree in Science with a concentration in Nutrition. One of the main goals of the program is that students develop technological and communication skills that will enhance their abilities as they go on to pursue graduate training as nutrition scientists. This is accomplished by the use of computer and Internet technology for research presentations. Other participants in the program include Professor Georgia Lind, the program coordinator for Kingsborough, Professor Arliss and Professor Hazelwood from the Department of Health and Physical Education and Professors Biermann and Beeber from the Department of Biology. The program is working to increase the number of students enrolled and is actively recruiting new students for the next two years of the grant.

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#### **Barry Zimmerman, Distinguished Professor**

#### **John Hudesman, Professor**

The Graduate School and University Center/New York City College of Technology, Educational Psychology

#### **A Cognitive Skills Academy for Associate Degree Freshmen**

This project addresses the problem of improving the achievement, retention and graduation levels of underprepared students in two-year college programs. Nationwide almost every two-year college is dealing with poor retention and graduation rates by designing interventions for underprepared students. Most of these programs have focused on those academic content and study skills areas in which students are deficient. However, since these programs assumed that successful learning is related to the quality of the instruction or the design of the curriculum, they have failed to create students who are independent

learners. By contrast, this program shifts the learning responsibility from teachers and materials to students by using a self-regulatory learning framework. Significant gains in student achievement have been reported as a result of self-regulatory training (SRL), a process which will be the central feature of a 12-month freshman year experience. The U.S. Department of Education has funded the project in the amount of \$477,317.

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**Lucinda R. Zoe, Professor**

Hostos Community College, Chief Librarian

**Eugenio Maria de Hostos—Trailblazer of the Americas:  
Recovering a Legacy of Hope and Opportunity**

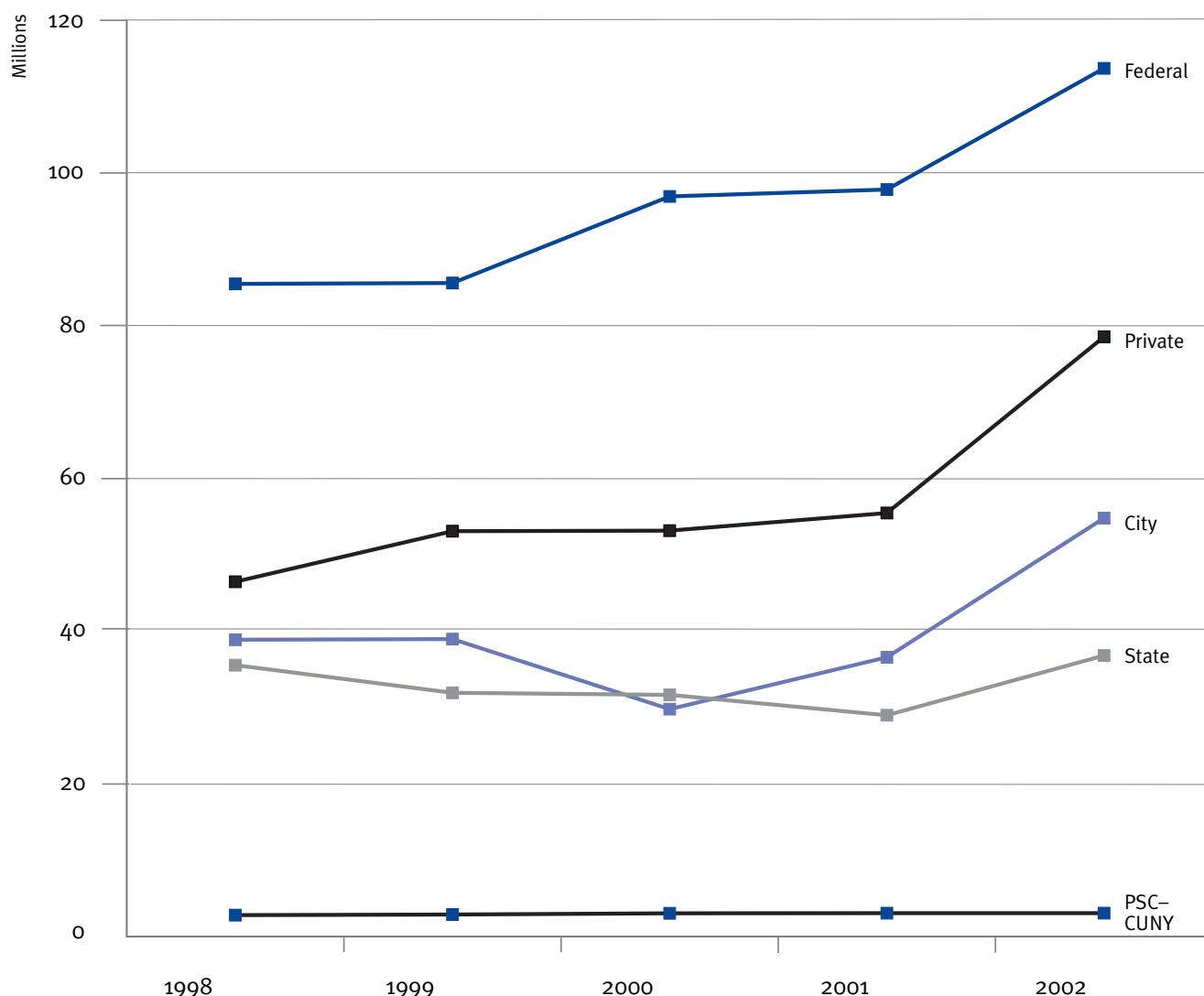
The focus of Dr. Zoe's research is to build a seminal collection of works by and about Eugenio Maria de Hostos in order to advance the study of the humanities through expanded curricular offerings. While there are many scholarly resources for research available in Puerto Rico and the Dominican Republic, there is very little in the United States. Dr. Zoe is developing the richest and most extensive collection of materials by and about Hostos in the United States. The collection will be one the best primary source material library collections on the author in the continental United States. Given the multi-disciplinary nature of Hostos' life work, these materials can be used across disciplines to support research initiatives in the arts, history, sociology, education, philosophy and Latin American and Caribbean Studies. Dr. Zoe's research is being supported by a grant from the National Endowment for the Humanities' Extending the Reach Program in the amount of \$25,000.

## **A Word About Award Activity**

The annual report narrative and charts reflect “award activity” or gross sponsor commitments recorded in the fiscal year. On the other hand, the Grants and Contracts sections of the audited financial statements reflect fiscal year “expenses” on sponsored awards. In many cases, expenses are actually lower than the award activity. The main reason for this would be multi-year awards, which are recorded in their entirety when received but expended over multiple years. The reader will therefore note that the figures in the audited financial statements differ from those in the report narrative and charts because they refer to different measures.



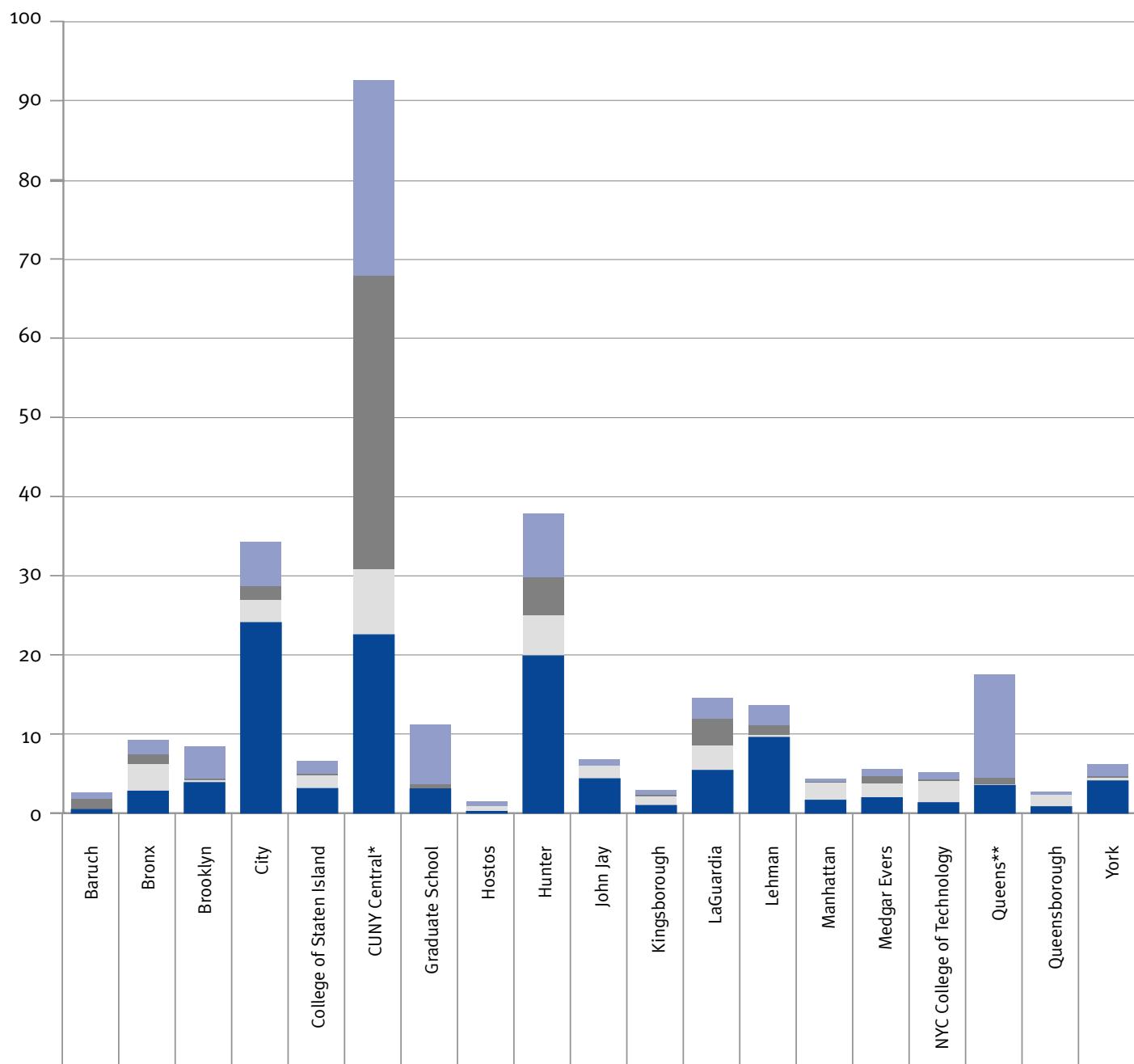
## Awards by Source and Year



\* Includes administration of student financial assistance awards

## Awards by Source and College | 2002

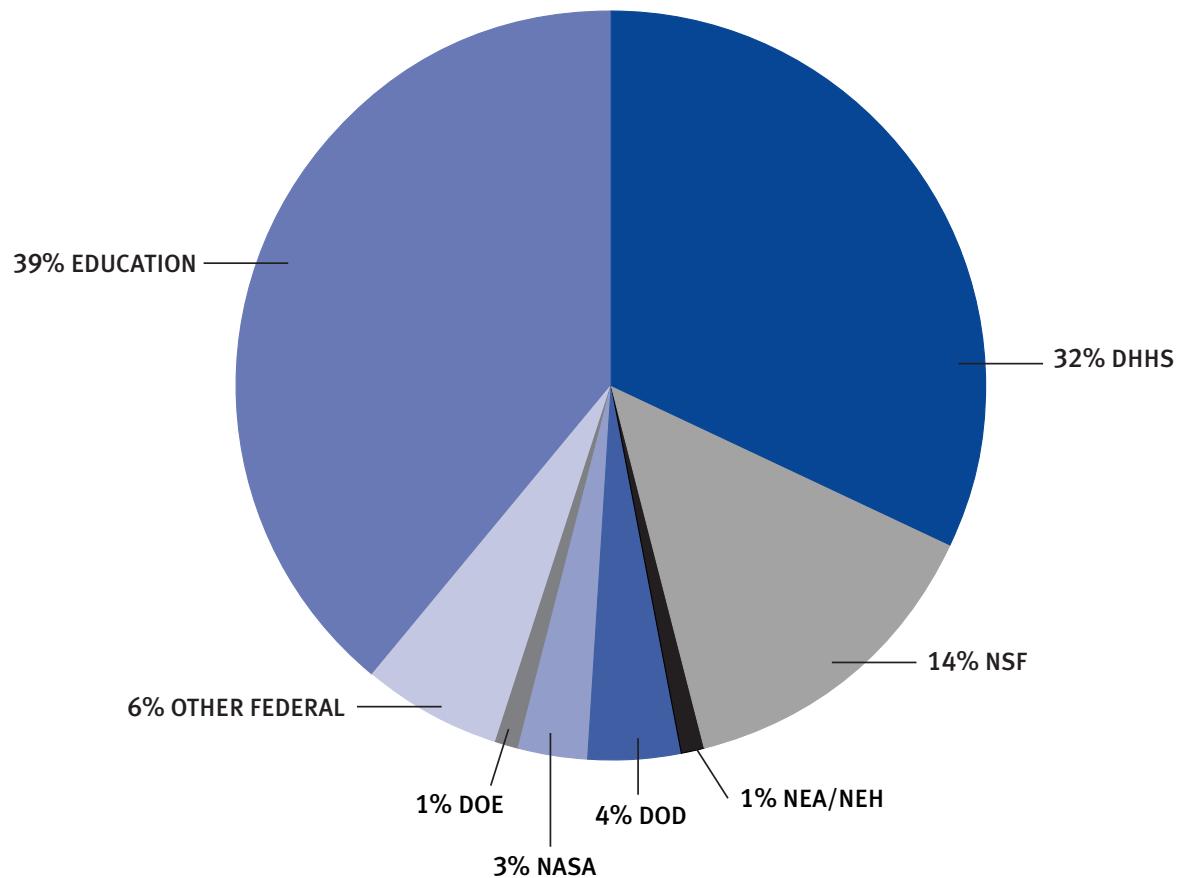
PRIVATE  
 CITY  
 STATE  
 FEDERAL



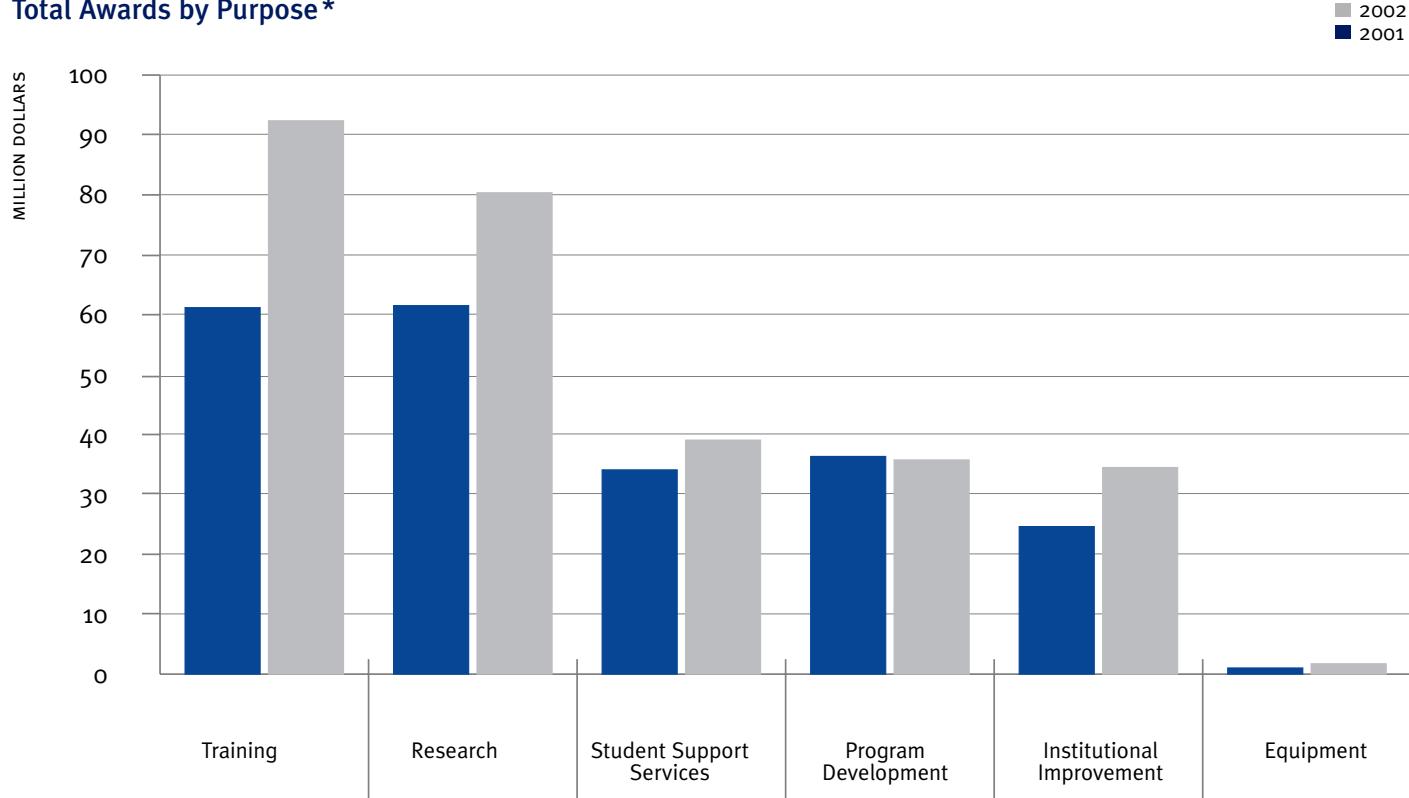
\* Includes \$21 million for administration of student financial assistance awards

\*\* Includes Law School

## Federal Awards by Source | 2002

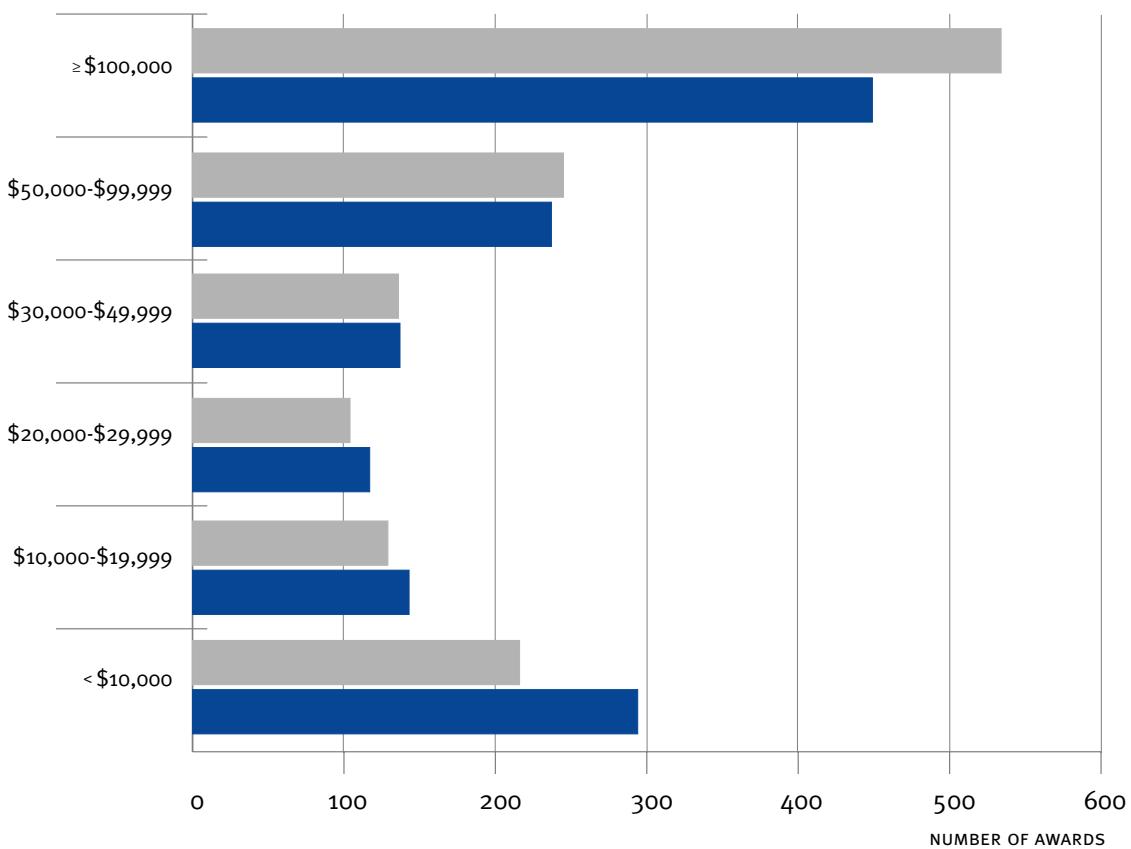


## Total Awards by Purpose\*



\* Excludes PSC-CUNY Awards

## Number of Awards by Dollar Value\*



## Awards by Source and Purpose | 2002

SOURCE:	#	Research	#	Training	#	Program Development	#	Institutional Improvement	#	Equipment	#	Student Support Services*	#	TOTAL
FEDERAL	225	53,576,550	47	12,456,321	51	15,726,383	23	821,370	13	1,662,153	33	29,430,560	392	113,673,337
STATE	15	2,897,451	78	24,082,886	18	4,081,736	15	1,744,855			24	3,985,822	150	36,792,750
CITY	6	4,157,323	83	36,003,946	24	3,455,351	10	10,714,831			5	456,172	128	54,787,623
PRIVATE	250	19,726,137	67	19,830,022	128	12,492,912	134	21,204,774	2	66,541	52	5,192,092	633	78,512,478
PSC-CUNY														3,059,347
TOTAL	496	80,357,461	275	92,373,175	221	35,756,382	182	34,485,830	15	1,728,694	114	39,064,646	1,303	286,825,535

\* Non-Pedagogical

## Awards by Purpose and College | 2002

SENIOR COLLEGES	#	Research	#	Training	#	Program Development	#	Institutional Improvement	#	Equipment	#	Student Support Services**	#	TOTAL
BARUCH	14	1,574,788	2	74,954	12	846,135	3	112,244	1	47,880		32	2,656,001	
BROOKLYN	35	3,918,621	12	2,483,074	7	744,885	7	868,403	1	181,180	2	285,400	64	8,481,563
CITY	126	23,081,280	19	3,295,572	23	4,418,282	7	1,275,913	3	377,143	9	1,858,472	187	34,306,662
COLLEGE OF														
STATEN ISLAND	24	1,962,561	10	1,181,978	6	682,988	8	2,152,690	3	191,696	5	397,586	56	6,569,499
GRADUATE														
SCHOOL	31	3,446,179	9	915,943	8	1,442,168	28	4,645,750			5	724,124	81	11,174,164
HUNTER	140	20,782,619	55	8,332,182	56	5,597,365	24	922,173	2	540,550	17	1,633,531	294	37,808,420
JOHN JAY	14	847,773	8	1,784,889	9	1,775,486	6	309,486			9	2,085,403	46	6,803,037
LEHMAN	20	4,077,022	29	5,984,724	9	2,294,534	12	673,987	1	94,771	5	483,166	76	13,608,204
MEDGAR EVERS	4	811,922	6	1,214,059	5	555,972	5	1,025,467			12	1,932,219	32	5,539,639
NYC COLLEGE OF														
TECHNOLOGY	4	621,510	13	2,876,577	11	1,292,315	4	309,726			2	48,350	34	5,148,478
QUEENS	51	10,296,396	10	677,313	6	418,163	39	5,212,289	1	102,442	4	868,321	111	17,574,924
YORK	4	2,598,735	7	1,478,972	4	235,865	5	940,842	1	53,240	3	900,200	24	6,207,854
SENIOR SUBTOTAL	467	74,019,406	180	30,300,237	156	20,304,158	148	18,448,970	13	1,588,902	73	11,216,772	1,037	155,878,445
COMMUNITY COLLEGES														
BRONX	7	1,057,027	15	3,791,451	24	3,491,306	1	10,249	2	139,792	3	811,616	52	9,301,441
HOSTOS	2	215,026	2	663,487	1	82,895	2	109,498			5	403,548	12	1,474,454
KINGSBOROUGH	1	44,000	3	836,329	4	780,775	3	404,612			6	869,300	17	2,935,016
LA GUARDIA	2	746,554	25	6,892,548	14	6,178,895	2	392,130			2	386,921	45	14,597,048
MANHATTAN	3	266,562	10	2,572,644	6	827,849	2	111,221			3	564,871	24	4,343,147
QUEENSBOROUGH	5	429,083	4	1,374,318	3	406,555	3	151,401			1	316,740	16	2,678,097
COMMUNITY SUBTOTAL	20	2,758,252	59	16,130,777	52	11,768,275	13	1,179,111	2	139,792	20	3,352,996	166	35,329,203
PSC-CUNY AWARDS*														3,059,347
CUNY CENTRAL***	9	3,579,803	36	45,942,161	13	3,683,949	21	14,857,749			21	24,494,878	100	92,558,540
TOTAL	496	80,357,461	275	92,373,175	221	35,756,382	182	34,485,830	15	1,728,694	114	39,064,646	1,303	286,825,535

\* Support provided by the Professional Staff Congress/City University of New York (PSC/CUNY) for faculty research supplementing funds available from external sources.

\*\* Non-Pedagogical

\*\*\* Included in the awards of CUNY CENTRAL is approximately \$21 million for administration of student financial assistance awards which are administered by the central university accounting office

## Awards by Source and College | 2002

SENIOR COLLEGES	#	FEDERAL	#	STATE	#	CITY	#	PRIVATE	#	TOTAL
BARUCH	9	464,396	1	38,193	4	1,278,584	18	874,828	32	2,656,001
BROOKLYN	23	3,860,956	5	215,824	8	285,637	28	4,119,146	64	8,481,563
CITY	102	24,078,837	17	2,811,617	13	1,796,265	55	5,619,943	187	34,306,662
COLLEGE OF										
STATEN ISLAND	22	3,117,717	11	1,634,277	4	274,081	19	1,543,424	56	6,569,499
GRADUATE SCHOOL	24	3,071,767			5	600,574	52	7,501,823	81	11,174,164
HUNTER	64	19,880,579	22	5,080,675	20	4,834,706	188	8,012,460	294	37,808,420
JOHN JAY	14	4,355,289	6	1,595,358	6	104,411	20	747,979	46	6,803,037
LEHMAN	34	9,578,069	4	245,131	7	1,312,573	31	2,472,431	76	13,608,204
MEDGAR EVERS	7	1,957,959	10	1,796,225	4	927,238	11	858,217	32	5,539,639
NYC COLLEGE OF										
TECHNOLOGY	6	1,324,296	10	2,697,282	5	276,277	13	850,623	34	5,148,478
QUEENS	22	3,518,346	2	83,705	13	826,239	74	13,146,634	111	17,574,924
YORK	10	4,077,424	1	341,999	3	264,350	10	1,524,081	24	6,207,854
SENIOR SUBTOTAL	337	79,285,635	89	16,540,286	92	12,780,935	519	47,271,589	1,037	155,878,445
COMMUNITY COLLEGES										
BRONX	12	2,787,921	15	3,380,900	4	1,311,602	21	1,821,018	52	9,301,441
HOSTOS	2	222,241	3	661,996			7	590,217	12	1,474,454
KINGSBOROUGH	5	975,087	5	1,083,800	3	270,488	4	605,641	17	2,935,016
LA GUARDIA	15	5,409,987	14	3,148,347	8	3,336,030	8	2,702,684	45	14,597,048
MANHATTAN	11	1,637,642	7	2,246,424	1	29,982	5	429,099	24	4,343,147
QUEENSBOROUGH	4	819,308	3	1,444,179			9	414,610	16	2,678,097
COMMUNITY SUBTOTAL	49	11,852,186	47	11,965,646	16	4,948,102	54	6,563,269	166	35,329,203
PSC-CUNY AWARDS										
CUNY CENTRAL	6	22,535,516	14	8,286,818	20	37,058,586	60	24,677,620	100	92,558,540
TOTAL	392	113,673,337	150	36,792,750	128	54,787,623	633	78,512,478	1,303	286,825,535

Included in the awards of CUNY CENTRAL is approximately \$21 million for administration of student financial assistance awards which are administered by the central university accounting office.

## Awards by Federal Source and College | 2002

SENIOR COLLEGES		#	EDUCATION	#	DHHS	#	NSF	#	DOE	#	DOD	#	NASA	#	NEA/NEH	#	OTHER FEDERAL	#	TOTAL
BARUCH	1	97,109	2	139,805	4	159,602			2	67,880							9	464,396	
BROOKLYN	4	768,027	8	1,780,723	7	1,019,706			1	80,000							23	3,860,956	
CITY	7	1,763,546	22	8,747,145	36	5,084,752	5	450,239	12	2,234,698	11	1,779,395	1	100,000	3	212,500	102	24,078,837	
COLLEGE OF STANISLAW GRADUATE SCHOOL	3	961,225	7	1,088,875	9	968,642			2	93,975			1	5,000			22	3,117,717	
HUNTER	3	420,568	3	758,143	12	1,144,372	1	21,000					4	697,684	1	30,000	24	3,071,767	
HUNTER	9	1,947,261	27	14,094,247	13	2,065,798	3	621,521	11	942,821					2	208,931	64	19,880,579	
JOHN JAY	6	1,828,707			4	1,919,170									4	607,412	14	4,355,289	
LEHMAN	10	4,133,402	8	3,013,510	8	1,609,302	1	50,000	1	94,771	1	100,000			5	577,084	34	9,578,069	
MEDGAR EVERE	4	1,166,037	1	32,157								759,765			7			1,957,959	
NYC COLLEGE OF TECHNOLOGY	3	761,832	2	287,464	1	275,000										6		1,324,296	
QUEENS	5	792,984	8	1,794,000	6	560,835			3	370,527						22		3,518,346	
YORK	4	1,111,659	3	2,662,592					1	53,240	1	233,000			1	16,933	10	4,077,424	
<b>SENIOR SUBTOTAL</b>	<b>58</b>	<b>15,655,248</b>	<b>91</b>	<b>34,398,661</b>	<b>100</b>	<b>14,807,179</b>	<b>10</b>	<b>1,142,760</b>	<b>33</b>	<b>3,937,912</b>	<b>15</b>	<b>2,872,160</b>	<b>6</b>	<b>802,684</b>	<b>24</b>	<b>5,571,922</b>	<b>337</b>	<b>79,285,635</b>	
<b>COMMUNITY COLLEGES</b>																			
BRONX	5	1,811,780	2	414,196	1	139,346			1	90,000					4	471,945	12	2,787,921	
HOSTOS	1	82,895													2		222,241		
KINGSBOROUGH	2	632,812			2	298,275									5		975,087		
LA GUARDIA	11	4,401,368	1	647,990	1	199,935			2	160,694	1	44,000			15		5,409,987		
MANHATTAN	7	975,080			3	638,562								1	24,000	11	1,637,642		
QUEENSBOROUGH	1	316,740	1	210,079	2	292,489									4		819,308		
<b>COMMUNITY SUBTOTAL</b>	<b>27</b>	<b>8,220,675</b>	<b>4</b>	<b>1,272,265</b>	<b>9</b>				<b>3</b>	<b>250,694</b>	<b>1</b>		<b>1</b>		<b>4</b>	<b>471,945</b>	<b>49</b>	<b>11,852,186</b>	
<b>CUNY CENTRAL*</b>	<b>3</b>	<b>20,827,334</b>			<b>1</b>	<b>1,000,000</b>									<b>2</b>	<b>708,182</b>	<b>6</b>	<b>22,535,516</b>	
<b>TOTAL</b>	<b>85</b>	<b>44,703,257</b>	<b>95</b>	<b>35,670,926</b>	<b>110</b>	<b>15,807,179</b>	<b>10</b>	<b>1,142,760</b>	<b>36</b>	<b>4,188,606</b>	<b>16</b>	<b>2,872,160</b>	<b>7</b>	<b>802,684</b>	<b>30</b>	<b>6,752,049</b>	<b>392</b>	<b>113,673,337</b>	

\* Included in the awards of CUNY CENTRAL is approximately \$21 million for administration of student financial assistance awards which are administered by the central university accounting office.



## 2002 CUNY Awards



**ABDELLATIF, NASSER/SEAS, ANTONIOS – BRONX C. C.****NYS EDUCATION DEPT.**

Collegiate Science and Technology Entry Program (C-STEP), \$63,435  
Science and Technology Entry Program (STEP), \$82,500

**ACRIVOS, ANDREAS – CITY COLLEGE****MISSION RESEARCH CORP.**

Virtual Instrument Development and Test Suite (VIDTS), \$10,000

**NASA**

Particle Segregation in a Flowing Concentrated Suspension Subject to High-Gradient Strong Electric Fields, \$81,600

**U.S. DEPARTMENT OF ENERGY**

The Rheology of Concentrated Suspensions, \$110,000

**AFFRON, MIRELLA – COLLEGE OF STATEN ISLAND****CUNY MISC.**

The Study Abroad Program at the College of Staten Island of CUNY, \$131,127

**AFFRON, MIRELLA/SCHWARTZ, MARTIN – COLLEGE OF STATEN ISLAND****RESEARCH FOUNDATION/SUNY**

Staten Island Small Business Development Center, \$170,000

**AGRAWAL, ANIL – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Development of an Electromagnetic Shape Memory Alloy Friction Damper for Civil Infrastructures, \$99,999

**AHEARN, SEAN – HUNTER COLLEGE****NYC/DOITT**

Maintenance of the New York City Base-Map, GIS Application Development and Training \$2,586,171

**AISEMBERG, GABRIEL – LEHMAN COLLEGE****NIH-NINDS**

Homebox Genes and Neuronal Differentiation (Minority Biomedical Research Support Thematic Project Grants), \$225,301

**AKINS, DANIEL – CITY COLLEGE****COLUMBIA UNIVERSITY**

Columbia Center for Electronic Transport in Molecular Nanostructures, \$135,000

**DOD-UNITED STATES ARMY**

Encapsulated Nanoscale Molecular Aggregates as Enhanced Luminophores and Chemical Sensors, \$458,330

**AKST, GEOFFREY/BRAGG, SADIE – BOROUGH OF MANHATTAN C. C.****U.S. DEPARTMENT OF EDUCATION**

Strengthening Institutions Program, \$307,511

**ALEXANDRATOS, SPIRO – HUNTER COLLEGE****PG RESEARCH FOUNDATION, INC.**

Design and Development of Polymer-Supported Reagents for the Selective Removal of Methyl Tertiary-Butyl Ether from Groundwater, \$70,000

**U.S. DEPARTMENT OF ENERGY**

Design and Development of Selective Polymer-Supported Reagents: Applications to Ionic Separations and Organic Reactions, \$131,521

**ALFANO, ROBERT – CITY COLLEGE****DOD-UNITED STATES AIR FORCE**

Tunable High Efficiency Resonant Tunneling Gan/Gan Mqw Uv Photodetectors, \$199,859

**DOD-UNITED STATES ARMY**

A Feasibility Study of Optical Imaging through Atmospheric Obscurants, \$90,000

Prostate Cancer Detection Using Near Infrared Spectral Polarization Imaging, \$536,956

**LOCKHEED MARTIN ENERGY RESEARCH CORP.**

Consortium (Lockheed Martin), \$15,000

Center for Advanced Technology (CAT): Corporate Associate Fee, \$25,000

Near Infared Photonic Imaging Unit, \$120,000

**NASA**

Tunable Solid-State Lasers and Optical Imaging, \$500,000

**NIH-NHLBI**

NIR Tunable Laser Tissue Welding, \$198,628

**NYS SCIENCE AND TECHNOLOGY FDN.**

Center For Advanced Technology (CAT) in Ultrafast Photonic Materials and Applications, \$868,154

Technology Transfer Incentive Program – Photonic Applications to Materials Testing, \$230,000

**PERKIN FUND**

Tissue Welding with Raman Fiber Laser, \$17,295

**ALFANO, ROBERT/PETRICEVIC, VLADIMIR – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Non-Radiative Relaxation of Ions in Crystals for Improving the Performance of Optical Materials, \$80,000

**ALFANO, ROBERT/KASSIR, MUMTAZ/HO, PING-PEI – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Subsurface Imaging of Material Cracking and Corrosion Under Paints Using Femtosecond Second Harmonic Generation, \$99,894

**ALTMAN, STAN – BARUCH COLLEGE****NYC BOARD OF EDUCATION**

Staff Leadership Professional Development Services: To Prepare School Leaders to Address New Challenges Faced by Educational Leaders and Urban Educational Institutions, \$134,506

**ALTMAN, STAN/VAN RYZIN, GREGG – BARUCH COLLEGE****NYC DEPARTMENT OF HEALTH**

New York Citywide and Neighborhood Behavioral Risk Factor Surveillance System Survey, \$111,250

**AMBRON, JOANNA – QUEENSBOROUGH C. C.****RESEARCH FOUNDATION OF SUNY STONY BROOK**

Bio Prep, \$26,973

**ANDERSON, PAULA – QUEENS COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Upward Bound Program, \$396,762

**ANDREOPoulos, YIANNIS – CITY COLLEGE****DOD-UNITED STATES ARMY**

Technical Services and Specialized Services, \$56,091

**ANTONIELLO, PATRICIA – BROOKLYN COLLEGE****HEALTH RESEARCH**

Brooklyn Health Coalition's Healthy Heart Community Program, \$48,622

**APPEL, JOAN/THOMAS, RONALD – YORK COLLEGE****NYC BOARD OF EDUCATION**

Professional Development Workshop for CUNY Literacy Enhancement Project, \$23,850

**APTER, ARTHUR – BARUCH COLLEGE****NATIONAL SCIENCE FOUNDATION**

Mid-Atlantic Mathematical Logic Seminar (MAMLS), \$16,333

**ARCARIO, PAUL – LAGUARDIA C. C.****U.S. DEPARTMENT OF EDUCATION**

Comprehensive Program: E-Transfer Project, \$253,567  
Developing Hispanic-Serving Institutions Program, \$472,958  
Technology-Based Teacher Training Initiatives, \$600,000

**ARCARIO, PAUL/EYNON, BRET – LAGUARDIA C. C.****U.S. DEPARTMENT OF EDUCATION**

Strengthening Hispanic-Serving Institutions, \$620,000

**ARDEBILI, MAHMOUD/PENNER, PHIL – BOROUGH OF MANHATTAN C. C.****NATIONAL SCIENCE FOUNDATION**

Integrating New Learning Strategies in a Community College Engineering Science Program, \$167,563

**ARNASON, SIA – HUNTER COLLEGE****ISAAC H. TUTTLE FUND**

Telephone Case Consultation Program, \$32,000

**NYS DEPARTMENT OF STATE**

Community Services Provider Assistance Program, \$11,258

**NYS INTEREST ON LAWYER ACCT FD**

IOLA Brookdale - 2000, \$5,530

**ARTZT, ALICE/ANDERSON, P. – QUEENS COLLEGE****CUNY MISC.**

Time 2000, \$65,801

**ARTZT, ALICE – QUEENS COLLEGE****CUNY MISC.**

Fund for Realizing Education Excellence (FREE), \$43,144

**ASAD, TALAL/JOLIN, PAULA – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

Dissertation Research: Modern Law, Traditional Marriage – The Relationship Between Islamization and Marriage Practices In Sudan, \$12,000

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**AUSTIN, SHERMAINE – MEDGAR EVERS COLLEGE****NASA**

Network Resources and Training Site: An Urban Collaboration for Networks Connectivity and Internet Access, \$514,765

**AXENROD, THEODORE – CITY COLLEGE****DOD-U.S.NAVY**

Synthesis of High Energy-Density Cyclic- Mixed Nitramino/ Difluoramino Ingredients, \$90,000

**BANDELE, SAFIYA – MEDGAR EVERS COLLEGE****SONYA STAFF FOUNDATION**

General Operation, \$20,000

**URBAN JUSTICE CENTER**

General Operation, \$5,000

**BANDELE, SAFIYA/SMART, REBECCA – MEDGAR EVERS COLLEGE****NYS DEPARTMENT OF HEALTH**

We Are Family Tool, \$75,000

**BANDOSZ, TERESA – CITY COLLEGE****AMERICAN CHEMICAL SOCIETY**

Mechanism of Methyl Mercaptan Absorption/Oxidation on Activated Carbons, \$30,000

**SYNAGRO EQUIPMENT CORPORATION**

New York Organic Fertilizer Company, \$11,589

**BANERJEE, PROBAL – COLLEGE OF STATEN ISLAND****NEW YORK UNIVERSITY**

Depression, 5-HT1a Receptor and Neuroplasticity, \$50,000

**BANERJEE, PROBAL/JAYMAN, FARAH – COLLEGE OF STATEN ISLAND****NIH-NCI**

Phosphatidylserine Translocase and Calcium Channels, \$21,796

**BARBA, JOSEPH – CITY COLLEGE****NASA**

Advancing Minorities in Science and Engineering Education, \$157,608

**BARBANEL, LAURA – BROOKLYN COLLEGE****NYC BOARD OF EDUCATION**

Bilingual Special Education, \$5,800

**BARGONETTI, JILL – HUNTER COLLEGE****NATIONAL SCIENCE FOUNDATION**

Pecase: Growth Control Regulated by P53 and Mdm2, \$100,000

**BARNES-HARRISON, ELENDAR – MEDGAR EVERS COLLEGE****UNITED WAY**

Caps Wingate Program, \$77,500

**BARONE, BARBARA - HUNTER COLLEGE****CUNY MISC.**

Enhancement of the Pre-101 Computer Based Workshop, \$800

**BARR, GORDON – HUNTER COLLEGE****NIH-NIDA**

MIDARP, \$609,064

**VARIOUS**

Current Issues in Developmental Psychobiology, \$6,620

**BARRIOS, LUIS – JOHN JAY COLLEGE****CENTRAL STATE UNIVERSITY**

Family and Community Violence Prevention Program, \$220,000

**BATEMAN, KITTY / MITCHELLE, BARBARA – QUEENSBOROUGH C. C.****NYSED**

Vows Nursing Assistance- Edge Literacy & Work Preparedness, \$63,988

**BATTEAS, JAMES – COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

MRI: Acquisition of an X-Ray Photoelectron Spectroscopy System for Surface Chemical Analysis, \$125,155

**AMERICAN CHEMICAL SOCIETY**

Probing Bonding Interactions in Silica Sol-Gels with Force Microscopy, \$8,000

**BATTLE, JUAN – HUNTER COLLEGE****CUNY MISC.**

Violence Within Gay Relationships: A Quantitative Assessment, \$750

**BAUMSLAG, GILBERT – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Groups with One Defining Relation, \$52,135

**BAYNE-SMITH, MARCIA – QUEENS COLLEGE****NYS DEPARTMENT OF HEALTH**

Community Healthy Heart Promotion, \$60,000

**BENENSON, GARY/NEUJAHR, JAMES – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Teaching Technology from Everyday Stuff: Sustaining Professional Development Online, \$1,046,449

**BENETON, F.W. / LINN, EDITH – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

Doctoral Dissertation Research: What Works For Me? Arrest Decisions as Adaptive Behavior, \$8,593

**BERGAD, LAIRD – GRADUATE SCHOOL****VARIOUS**

Support for the Center For Latin America, Caribbean, and Latino Studies, \$74,100

**BERGOU, JANOS – HUNTER COLLEGE****DOD-U.S. NAVY**

Noise Performance of Quantum Optical Systems: The Effect of Atomic Coherence and Pump Statistics, \$85,000

**BERNARDIN, JUNE/THOMAS, RONALD – YORK COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Educational Talent Search Program, \$313,085

**BERNSTEIN, ANITA/ORR, COLERIDGE – KINGSBOROUGH C. C.****NYS EDUCATION DEPT**

Library Collection Aid, \$14,971

**BEVERIDGE, ANDREW – QUEENS CCOLLEGE****NEW YORK TIMES**

Census Collaboration, \$92,257

**UNIVERSITY OF MINNESOTA**

National Historical Geographic Information System, \$97,482

**BIRENBAUM, HELEN – GRADUATE SCHOOL****MORGAN CHASE**

Support for the Professional Development and Technology Laboratory, \$35,000

**VARIOUS**

Technology Learning Center, \$300,000

**BITTMAN, ROBERT – QUEENS COLLEGE****NIH-NHLBI**

Structural Properties of Membranes, \$353,950

**BLETTER, NATHANIEL – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

Graduate Research Fellowship, \$57,000

**BLOCK, ADRIENNE FRIED – GRADUATE SCHOOL****NATIONAL ENDOWMENT FOR HUMANITIES**

Music In Gotham: The New York Scene 1863–1875, \$98,684

**BLOOM, JOYCE – BRONX C. C.****NCAA**

The National Youth Sports Program, \$69,881

**BLOOMBERG, MICHAEL – COLLEGE OF STATEN ISLAND****CUNY MISC.**

Financial Aid, \$84,188

**BLUESTONE, CHERYL – QUEENSBOROUGH C. C.****RESEARCH FOUNDATION/SUNY**

The Daycare Assistance Certificate Program, \$27,597

**BONK, SHARON – QUEENS COLLEGE****CUNY MISC.**

Library-General \$12,279

**BOROD, JOAN - QUEENS COLLEGE****MOUNT SINAI SCHOOL OF MEDICINE**

Postdoctoral Neuropsychology Training Fellowship, \$7,360

**BOZORGMEHR, MEHDI – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

SGER: How Support Organizations Respond to Crises – Middle Eastern and South Asian American Organizations in the Aftermath of September 11th, \$60,000

**BRABHAM, SHERRY/RIBAUDO, MICHAEL – OFFICE OF VC FOR BUDGET, FINANCE & PLANNING**

**APPLE COMPUTER, INC.**

Support for Creation and Dissemination of Technology and Educationally Based Media for Intra-Campus Systems CUNY-Wide, \$166,296  
Purchase of Computer Time, \$41,168

**BRAUN, CHRISTOPHER – HUNTER COLLEGE**

**CUNY MISC.**

Incipient Speciation in Hypopygus Lepturus: Electric Dialects, Geographic Variation and Behavioral Segregation, \$18,830

**BRODERICK, PATRICIA – CITY COLLEGE**

**CODMAN & SHURTLEFF, INC.**

Feasibility Investigation Of Broderick Probe Microelectrode, \$32,381

**NEW YORK UNIVERSITY MEDICAL CTR**

Pace: Parents Against Childhood Epilepsy, \$10,000

**BROMAGE TIMOTHY / MCFARLIN, SHANNON - HUNTER COLLEGE**

**NATIONAL SCIENCE FOUNDATION**

Comparative Study of Catarrhine Bone, \$9,507

**BROOKS, BARBARA – CITY COLLEGE**

**SOCIAL SCIENCE RESEARCH COUNCIL**

Contemporary Global Sovereignty, \$33,817

**BROOKS, PATRICIA – COLLEGE OF STATEN ISLAND**

**UNIVERSITY OF HAIFA**

Linking Vocabulary and Grammar Acquisition in Adult Language Learners, \$10,000

**BROSTEK, JOSEPH – QUEENS COLLEGE**

**CUNY MISC.**

Queens College of CUNY Special Events, \$15,069

**BROTHERTON, DAVID – JOHN JAY COLLEGE**

**SPENCER FOUNDATION**

An Exploratory Study of Successful Pedagogy with Gang-Related Youths, \$35,000

**BROWER, DOROTHY – COLLEGE OF STATEN ISLAND**

**VARIOUS**

Network Special Projects, \$786,516

**BROWN, JOSHUA – GRADUATE SCHOOL**

**NATIONAL ENDOWMENT FOR HUMANITIES**

The Lost Museum – Exploring Antebellum American Life, \$130,000

**NYC BOARD OF EDUCATION**

American Social History Program for the Provision of General Professional Development Services, \$112,675

**SLOAN, ALFRED P. FOUNDATION**

September 11 Digital Archive: Collecting, Preserving, and Presenting the History of the Twenty-First Century, \$350,000

**VARIOUS**

Funded Wages, \$264,312

**BROWN, JOSHUA/THOMPSON, DONNA – GRADUATE SCHOOL**

**NATIONAL ENDOWMENT FOR HUMANITIES**

Learning To Look: Visual Evidence and the U.S. Past in the New Media Classroom, \$250,000

**BROWN, STACY – BROOKLYN COLLEGE**

**U.S. DEPARTMENT OF EDUCATION**

Brooklyn College Educational Talent Search Program, \$285,373

**BROWN, TED – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS**

**NYS SCIENCE AND TECHNOLOGY FDN.**

Cooperative Research in Software Design and Development, \$366,000

**VARIOUS**

NYSTAR Match, \$75,000

**BRYANT, GREGORY – JOHN JAY COLLEGE**

**NYS EDUCATION DEPT**

Liberty Partnership Program (LPP), \$172,060

**PARTNERSHIP AFTER SCHOOL EDUCATION**

The Youth Leadership Peer Technical Assistant, \$1,000

**BUCKLEY, ROBERT – HUNTER COLLEGE**

**CUNY MISC.**

General Support, \$830

**NYC BOARD OF EDUCATION**

Scholarship Program, \$92,600

**BUCKLEY, ROBERT/SCHEINBACH, ELLEN – HUNTER COLLEGE**

**GENERAL ELECTRIC**

General Electric Foundation Scholars Program for Manhattan Center for Science and Mathematics, \$85,000

**BUTLER, RENEE – LAGUARDIA C. C.**

**CUNY MISC.**

Early Childhood Learning Center Program, \$117,797

**BYGRAVE-DOZIER, SANDRA – QUEENSBOROUGH C. C.**

**NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$86,385



**CABAN, ROSETTA – YORK COLLEGE**

**RESEARCH FOUNDATION/SUNY**

The New York State Small Business Development Center (SBDC) Self Employment Assistance Program, \$50,049  
New York State Small Business Development Center (SBDC), \$320,182

**CALL, DIANE/KOTKIN, LAURA – QUEENSBOROUGH C. C.**

**NYSED**

Support of a Director and Secretary for the Art Gallery, \$10,000

**CUNY MISC.**

Coordinator of the Port of Entry Program, \$150,000

**CANATE, HUMBERTO – HOSTOS C. C.**

**NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP), \$56,500

**UNIVERSITY OF TEXAS**

Proyecto Access 2002, \$80,600

**CANATE, HUMBERTO / MOLINA, CARLOS – HOSTOS C. C.**

**HISPANIC ASSOCIATION OF COLLEGES AND UNIVERSITIES**

HACU Project Access, \$1,407

**CARAVANOS, JACK – HUNTER COLLEGE**

**MOUNT SINAI HOSPITAL**

Hazardous Substance Academic Training, \$56,944

**CARLIN, MARIANNE – COLLEGE OF STATEN ISLAND**

**NYS EDUCATION DEPT**

Course Management Advisement for Computer Technology and Business AA Students, \$198,407

**CARPI, ANTHONY – JOHN JAY COLLEGE**

**NATIONAL SCIENCE FOUNDATION**

Visionlearning: An Interdisciplinary Science Education Web Portal, \$497,739

**CARPI, ANTHONY / RINALDI, THERESA – JOHN JAY COLLEGE**

**ENVIRONMENTAL PROTECTION AGENCY**

EPA Graduate Fellowships for Culturally Diverse Academic Institutions, \$9,451

**CARTER, RON – LEHMAN COLLEGE**

**NCAA**

2000-2001 National Youth Sports Program (NYSP), \$61,550

**U.S. DEPARTMENT OF AGRICULTURE**

USDA Summer Food Service, \$34,012

**CATAPANE, EDWARD – MEDGAR EVERES COLLEGE**

**NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$78,210

**CHAO, DER-LIN – HUNTER COLLEGE**

**U.S. DEPARTMENT OF EDUCATION**

Web-Based Chinese Literacy Development Project, \$105,000

**CHAO, DER-LIN / BREDECHE, JANE- HUNTER COLLEGE**

**CUNY MISC.**

Learning Chinese Characters with Technology: A Pilot Study, \$5,000

**CHAO, NATHAN/MOHR, BERNARD – QUEENSBOROUGH C. C.**

**NATIONAL SCIENCE FOUNDATION**

A Low Cost Hands-On Laboratory Experience for Introductory Engineering Students, \$142,489

<b>CHARLOP, VIVIAN – QUEENS COLLEGE</b>	<b>COATES, DEBORAH - GRADUATE SCHOOL</b>
<b>CUNY MISC.</b>	<b>WILLIAM T. GRANT FOUNDATION</b>
Center for the Performing Arts Part-Time, \$198,946	Conference on African Descent Youth Living in The United States, \$9,250
Center for the Performing Arts Full-Time, \$384,490	
<b>NYC COUNCIL</b>	<b>COGSWELL, MICHAEL – QUEENS COLLEGE</b>
Queens College Corden Center, \$1,500	<b>CUNY MISC.</b>
	Louis Armstrong House, \$201,512
<b>CHEN, SHEYING – COLLEGE OF STATEN ISLAND</b>	<b>NYC CITY COUNCIL</b>
<b>SHENZHEN ASSOC</b>	Louis Armstrong House and Museum, \$60,000
Public Policy and Development Strategy: An International Comparative Study, \$11,982	
<b>CHIARKAS, JOHN/CYRIL, JANET – LAGUARDIA C. C.</b>	<b>COHEN, ALICE/KOK, AHMET METE – BOROUGH OF MANHATTAN C. C.</b>
<b>ANNIE E. CASEY FOUNDATION</b>	<b>U.S. DEPARTMENT OF EDUCATION</b>
Expanding And Documenting Transitional Services Provided by the CUNY Catch Program for Adolescent Offenders in High School on Rikers Island in Ways that Engage Family Members, \$75,000	Minority Science and Engineering Improvement Project, \$69,000
<b>CHIN, GEORGE – OFFICE OF VC FOR STUDENT AFFAIRS</b>	<b>COHEN, LEON – HUNTER COLLEGE</b>
<b>CUNY MISC.</b>	<b>DOD-NATIONAL SECURITY AGENCY</b>
CUNY Miscellaneous, \$4,597	Time Frequency/Scale Signal Analysis, \$253,848
Job Location and Development Program – UAPC, \$68,275	
<b>CHIN, GEORGE / AMY, LYDIA – OFFICE OF VC FOR STUDENT AFFAIRS</b>	<b>DOD-UNITED STATES AIR FORCE</b>
<b>CUNY MISC.</b>	Signal And Image Processing in Different Representations, \$78,301
CUNY Financial Aid Conference, \$8,510	
<b>CHON, KI – CITY COLLEGE</b>	<b>COHEN, SHIRLEY – HUNTER COLLEGE</b>
<b>NIH-NHLBI</b>	<b>NYS EDUCATION DEPT.</b>
Decoupling of Principal Renal Autoregulatory Mechanisms, \$250,974	Develop and Deliver Undergraduate, Graduate and Inservice Courses Relating to the Education of Students with Autism Spectrum Disorders, \$25,000
<b>CHON, KI/JU, KIHWAN – CITY COLLEGE</b>	<b>VARIOUS</b>
<b>C-ONE TECH COMPANY</b>	Preparing Teachers For Students With Autism Spectrum Disorder, \$6,000
Development of Medical Devices fFor Heart Failure Monitoring and Analysis, \$166,348	
<b>CHUDNOVSKY, EUGENE – LEHMAN COLLEGE</b>	<b>COHEN, WILLIAM - HUNTER COLLEGE</b>
<b>U.S. DEPARTMENT OF ENERGY</b>	<b>CUNY MISC</b>
Statics and Dynamics of the Magnetic Flux in High Temperature Superconductors, \$50,000	Training For An Application Of A New Type Of Microscopy For Biological Research, \$1,450
<b>CHUNG, IRENE - HUNTER COLLEGE</b>	<b>COHEN, WILLIAM / ALVAREZ, RITA - HUNTER COLLEGE</b>
<b>CUNY MISC.</b>	<b>CUNY MISC.</b>
Bridging Cultural and Professional Norms and Values: New Educational Approaches to Help Asian American Social Work Students in their Clinical Practice, \$2,500	Actin-Microtubule Interaction In The Cytoskeleton, \$4,900
<b>CIACCIO, LEONARD – COLLEGE OF STATEN ISLAND</b>	<b>COICO, RICHARD – CITY COLLEGE</b>
<b>NYC BOARD OF EDUCATION</b>	<b>ROBERT WOOD JOHNSON FOUNDATION</b>
Technical Preparation 01-02, \$90,000	Development of Bioterrorism Knowledge Objectives for Medical Students, \$21,800
<b>CIACCIO, LEONARD/SANDERS, JAMES – COLLEGE OF STATEN ISLAND</b>	<b>COLAROSSI, ANTHONY – KINGSBOROUGH C. C.</b>
<b>NYS EDUCATION DEPT</b>	<b>U.S. DEPARTMENT OF EDUCATION</b>
Collegiate Science and Technology Entry Program (C-STEP), \$67,545	Trio-Student Support Services Program, \$207,812
Science and Technology Entry Program (STEP) – Discovery Center, \$85,500	
Dwight D. Eisenhower Professional Development Program, \$200,000	
<b>U.S. DEPARTMENT OF EDUCATION</b>	<b>COLEMAN, ROBERT – CITY COLLEGE</b>
Fund for the Improvement of Postsecondary Education (FIPSE): The College Skills Institute, \$166,263	<b>NCAA</b>
	2002 National Youth Sports Program- NCAA, \$58,000
<b>CINTRON-NABI, DORIS – CITY COLLEGE</b>	<b>COMMONER, BARRY – QUEENS COLLEGE</b>
<b>U.S. DEPARTMENT OF EDUCATION</b>	<b>NEW YORK COMMUNITY TRUST</b>
The Bilingual Education Career Ladder Program, \$250,000	The Accumulation of Airborne PCB from the Hudson River in the Bark of Trees in the New York City Watershed, \$75,000
<b>CISZKOWSKA, MALGORZATA – BROOKLYN COLLEGE</b>	<b>COMMONER, BARRY/MARKOWITZ, STEVEN – QUEENS COLLEGE</b>
<b>DOD-U.S. NAVY</b>	<b>PHILANTHROPIC COLLABORATIVE INC.</b>
Polymeric Gels as an Environment for Electro Chemistry, \$80,000	Genetic Engineering, \$95,000
<b>CLARKE, LYNN/BAUMANN, STEVEN – HUNTER COLLEGE</b>	<b>CONSTINESCU, GHEORGH - LEHMAN COLLEGE</b>
<b>CUNY MISC.</b>	<b>VARIOUS</b>
Development of an Interdisciplinary Advanced Certificate Program for Career Development in Gerontology, \$10,000	Meet The Composer, \$250
<b>CLAYMAN, DEE – GRADUATE SCHOOL</b>	<b>COOK, LEWIS / SUKHU, GOPAL - QUEENS COLLEGE</b>
<b>NATIONAL ENDOWMENT FOR HUMANITIES</b>	<b>UNIVERSITY OF VIRGINIA</b>
Database of Classical Bibliography, \$219,000	Japanese Text Initiative, \$5,500
<b>SCHOLARS PRESS</b>	
Database of Classical Bibliography, \$1,078	
<b>VARIOUS</b>	<b>CORBURN, JASON – HUNTER COLLEGE</b>
Database of Classical Bibliography, \$1,684	<b>NYC DEPARTMENT OF HEALTH</b>
	Asthma Case Management Train-The-Trainer, \$25,000
<b>CLEAR, TODD – JOHN JAY COLLEGE</b>	The Asthma and Integrated Pest Management Project, \$184,000
<b>U.S. DEPARTMENT OF JUSTICE</b>	<b>NYC HOUSING AUTHORITY</b>
Journal of Research in Crime and Justice, \$113,961	Environmental Cleanup and Remediation Training Program for Residents of 42 of NYCHA's Upper Manhattan Developments Made Possible Through the Economic Development and Supportive Service Program, \$215,740
	<b>NYC HUMAN RESOURCES ADMINISTRATION</b>
	Needed At Home Asthma Program, \$118,900
<b>CORBURN, JASON/KOTELCHUCK, DAVID – HUNTER COLLEGE</b>	<b>NYC DEPARTMENT OF HEALTH</b>
	Childhood Asthma Initiative for the Development and Implementation of an Integrated Pest Management Project, \$49,325
	<b>VARIOUS</b>
	Hazardous Waste Worker Training, \$67,680

<b>CORBURN, JASON/ZOLOTH, STEPHEN – HUNTER COLLEGE</b> VARIOUS Center for Occupational and Environmental Health: Asbestos Hazards Research, \$12,000	<b>DANVERS, MICHELLE – BRONX C. C.</b> U.S. DEPARTMENT OF EDUCATION Upward Bound Program, \$388,544
<b>CORRADETTI, ARTHUR/BELTZER, STEPHEN – QUEENSBOROUGH C. C.</b> HUDSON VALLEY Verizon Next Step Program, \$16,694	<b>DAVIDSON, DAVE – CITY COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Jacob Javits Fellowship, \$28,857
<b>COUTURE, JOSEFINA – JOHN JAY COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Talent Search Program, \$361,268	<b>DAVIS, JOHN – BRONX C. C.</b> NIH-NIGMS MBRS Score Program, \$284,196
<b>COUZIS, ALEXANDER – CITY COLLEGE</b> DOD-UNITED STATES ARMY Acquisition of an Imaging Ellipsometer/Scanning Probe Microscope, \$200,000	<b>DAVIS, RICHARD – COLLEGE OF STATEN ISLAND</b> NIH-NIAID In Vivo Analysis of SL Addition in Ascar's Embryos, \$261,250
<b>DUPONT</b> Controlled Crystallization at Molecularly Engineered Surfaces – Graduate Student Support, \$25,000	<b>DAVIS ACAMPORA, CHRISTA / CROWLEY, BRIAN - HUNTER COLLEGE</b> CUNY MISC. Traces of the Beast: A Comprehensive Index of Animal References in Nietzsche's Work, \$2,500
<b>GLAXOSMITHKLINE CONSUMER HEALTHCARE</b> A Study to Identify the Mechanism of Stain Prevention of Oral Care Additives and the Subsequent Development of New Strategies, \$29,453	<b>DE GAETANO, YVONNE / ZUAZUA, GLORIA – HUNTER COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Bilingual Education: Teachers and Personnel Grants, \$193,521 Professional Development: Effective Teaching for English Language Learners, \$249,995
<b>COWIN, STEPHEN – CITY COLLEGE</b> NATIONAL SCIENCE FOUNDATION RCN: Communications Media for Mineralized Tissue Research, \$91,185	<b>DE MEO, STEPHEN - HUNTER COLLEGE</b> CUNY MISC. Choosing the Best: How Novice Science Teachers Select and Use Criteria to Assess Laboratory Activities, \$2,440
<b>U.S. DEPARTMENT OF EDUCATION</b> Graduate Training in Mathematical Modeling of Biological Systems, \$115,428	<b>DEACON, DIANA – CITY COLLEGE</b> NIH-NIDCD Brain Potentials Semantic Processing and Attention, \$328,478
<b>CRANE, KATHLEEN – HUNTER COLLEGE</b> U.S. DEPARTMENT OF COMMERCE/EDA IPA/Personnel Assignment, \$136,310	<b>DEFOUR, DARLENE - HUNTER COLLEGE</b> CUNY MISC. A Quantitative Analysis of Women of Color in Violent Relationships, \$1,500
<b>CRAVEN, JOHN - QUEENS COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Project Master Teacher: Math, Science And Technology Education Through Research, \$6,480	<b>DEITCH, IRENE / DEVINE, JUDITH – COLLEGE OF STATEN ISLAND</b> VARIOUS Options Program for Older Adults, \$9,070
<b>CUCCHAIARA, ANTHONY – BROOKLYN COLLEGE</b> NEW YORK METRO REFERENCE AND RESEARCH AGENCY Documentary Heritage Program: An Archival Survey of the Records of the Jamaican and Trinidadian Communities, \$49,700	<b>DEJESUS, JOSEPH/SARAVIA-SHORE, MARIETTA – LEHMAN COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Gaining Early Awareness and Readiness for Undergraduate Programs, \$1,681,600
<b>CUMMINS, HERMAN – CITY COLLEGE</b> NATIONAL SCIENCE FOUNDATION Experimental Studies of The Liquid-Glass Transition, \$120,000	<b>DELLAPINA, MARIO – QUEENS COLLEGE</b> CUNY MISC. Office of the Vice President, \$74,930
US-Korea Cooperative Research: The Glass Transition and Aging Phenomena in Sugars, \$31,350	<b>DENBOER, MARTEN – HUNTER COLLEGE</b> DOD-UNITED STATES ARMY Instrumentation for Structural Determination Using X-Ray Scattering and Absorption, \$150,000
<b>CURCIO, FRANCES – QUEENS COLLEGE</b> NYC BOARD OF EDUCATION Evaluation of District 2 (NSF Teacher Enhancement), \$112,500	<b>DENN, MORTON – CITY COLLEGE</b> AMERICAN CHEMICAL SOCIETY The Interface Between a Liquid Crystalline Polymer and a Flexible Polymer, \$60,000
<b>CURRAN, JAMES – JOHN JAY COLLEGE</b> CUNY MISC. Hungary – FBI Special Programs, \$62,568	<b>NATIONAL SCIENCE FOUNDATION</b> Size-Scale Sensitivity In Multiphase Systems with a Liquid Crystalline Phase, \$203,499
<b>NYC BOARD OF EDUCATION</b> Tutoring and Mentoring Services for Bronx Middle School Students, \$23,590	<b>DEVINE, BILL – JOHN JAY COLLEGE</b> GOV EXEC OFF-DIV OF CRIML JUST SVC To Improve Police Service Through Relevant Continuing Professional Education at the College Level, \$62,500 Police Studies Project, \$496,710
<b>NYC POLICE DEPARTMENT</b> Emergency Psychology Technician Training Program, \$20,000	<b>DEYCH, LEV/LISYANSKY, ALEXANDER – QUEENS COLLEGE</b> DOD-UNITED STATES AIR FORCE Bragg Multiple Quantum Wells: Tunable Cavities for Optoelectronic Application, \$109,048
<b>CYRIL, JANET – LAGUARDIA C. C.</b> NYS EDUCATION DEPT Facilitated Access to Regular Employment (FARE), \$25,000	<b>DIBELLO, LIA – GRADUATE SCHOOL</b> NYC TRANSIT AUTHORITY Conceptual Training for Midas, \$173,662
CUNY Catch Program: CUNY Alliance for Transitional Career Help, \$300,000	<b>DIGBY, ANNETTE/ESPINOZA, FERNANDO – LEHMAN COLLEGE</b> NYC BOARD OF EDUCATION Science Professional Staff Development Services — Project Inquiry, \$50,000
<b>CYRIL, JANET/GILBERTO, LINDA – LAGUARDIA C. C.</b> NYC DEPARTMENT OF CORRECTION Inmate Education Program, \$1,052,528	<b>DIGBY, ANNETTE/POLIRSTOK, SUSAN – LEHMAN COLLEGE</b> NYC BOARD OF EDUCATION Scholarship Program, \$12,120
<b>CZARNOCHA, BRONISLAW/PRABHU, VRUNDA – HOSTOS C. C.</b> NATIONAL SCIENCE FOUNDATION Introducing Indivisibles into Calculus Instruction, \$139,346	
<b>DAIUTE, COLETTE / FINE, MICHELLE - GRADUATE SCHOOL</b> VARIOUS Social Justice and Social Development, \$8,345	

**DIVALE, WILLIAM – YORK COLLEGE****NIH-NIGMS**

MARC Program for York College, \$340,982

**DIYAMANDOGLU, VASIL – CITY COLLEGE****NYC DEPARTMENT OF SANITATION**

New York City Reusable Solid Waste Materials Exchange Matchmaking Project, \$250,000

**DOBROF, ROSE – HUNTER COLLEGE****NEW YORK UNIVERSITY**

Grants for Geriatric Education Centers, \$35,630

**DOBROF, ROSE/GILBERTO, PASQUALE – HUNTER COLLEGE****FLORENCE BURDEN FOUNDATION**

Advanced Placement Seminar, \$10,000

**DODD, SARAH-JANE - HUNTER COLLEGE****CUNY MISC.**

An Examination of The Impact of Social Work Involvement on Ethical Decision Making in a Hospital Setting, \$2,393

**DOMINGO, JANETTE – JOHN JAY COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Ronald E. McNair Post Baccalaureate Achievement, \$243,169

**DONOVAN, RICHARD – BRONX C. C.****FORD FOUNDATION**

A Community-Higher Education Partnership Initiative in South Africa, \$45,000

**NHPRC/GSA**

Lealand Initiative: Africa GII Gateway, \$49,792

**DORNBAAUM, MARTIN - HUNTER COLLEGE****CUNY MISC.**

\$2,600

**DOTTIN, ROBERT – HUNTER COLLEGE****BROWN UNIVERSITY**

Leadership Alliance, \$20,000

**DRAIN, CHARLES – HUNTER COLLEGE****CUNY MISC.**

Development of Nanotechnology Lab Experiments for the Hunter College Chemistry Major, \$20,000

**NATIONAL SCIENCE FOUNDATION**

Design And Self Assembly Of Supramolecular Photonic Materials, \$4,169

Hierarchical Self-Assembly and Characterization of Photonic Materials, \$148,000

**DRAIN, CHARLES/GOLDBERG, ISRAEL – HUNTER COLLEGE****U.S.-ISRAEL BINATIONAL SCIENCE FDN**

Supramolecular Assembly of Large Multiporphyrin Arrays towards New Functional Structures and Materials, \$12,849

**DUDA, DESIREE – LAGUARDIA C. C.****ROCHESTER INSTITUTE OF TECHNOLOGY**

Postsecondary Education Programs for Individuals who are Deaf, \$70,794

**DYASI, HUBERT – CITY COLLEGE****NYC BOARD OF EDUCATION**

Developing Teaching Facilitators for Community School District 9, \$50,000

**DYASI, HUBERT/GOLDSTEIN, ELLEN – CITY COLLEGE****NYS EDUCATION DEPT.**

Dwight D. Eisenhower Professional Development Program, \$179,528

**DWYER, JENNIFER - HUNTER COLLEGE****CUNY MISC.**

Pre-Publication Research Assistant, \$1,000

**EBENSTEIN, WILLIAM – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS****CONSORTIUM FOR WORKER EDUCATION**

Direct Care Generalist Certificate Program, Health Workforce Retraining Initiative, \$663,517

**HOSPITAL LEAGUE/1199**

Develop an On-Line Database of Health Related Programs, \$175,000

**EBENSTEIN, WILLIAM/MOGULESCU, JOHN – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS****VARIOUS**

Consortium for the Study of Disabilities, \$39,156

**EBRAHIM, SULEMA – LAGUARDIA C. C.****CUNY MISC.**

Financial Aid, \$40,677

**ECKHARDT, LAUREL – HUNTER COLLEGE****NIH-NIAID**

Gene Expression in Myeloma Cells, \$582,000

**ECKHARDT, RONALD – BROOKLYN COLLEGE****PFIZER**

Pfizer Foundation Matching Gifts Program, \$15,000

**NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP), \$56,810

**EDELMAN, MARC – HUNTER COLLEGE****NATIONAL SCIENCE FOUNDATION**

Peasant Politics in Global Arenas, \$55,000

**EDWARDS, LINDA/BAUER-MAGLIN, N. – GRADUATE SCHOOL****CUNY MISC.**

CUNY Bachelor of Arts/ Bachelor of Science Programs, \$28,399

**EHLSCHLAEGER, CHARLES – HUNTER COLLEGE****DOD-UNITED STATES ARMY**

Long Term Ecosystem Monitoring and Change Detection Comparison (Southeast and Southwest USA), \$23,518

**EHRI, LINNEA – GRADUATE SCHOOL****U.S. DEPARTMENT OF EDUCATION**

Guided Repeated Oral Reading of Text: Effects of Word Enrichment for Struggling Readers, \$126,747

**EISENSTEIN, HESTER/MARRONE, CARMELLA – QUEENS COLLEGE****CUNY MISC.**

Women and Work Program, \$61,108

**EISMAN, LAWRENCE – QUEENS COLLEGE****CUNY MISC.**

Services Fund-Music, \$149,471

**ELDRIDGE, DEBORAH - HUNTER COLLEGE****CUNY MISC.**

Recognizing and Rewarding Excellence in Beginning Teaching, \$1,000

**ENGEL, ROBERT – QUEENS COLLEGE****CUNY MISC.**

Howard Hughes Student Outreach, \$25,548

**EPSTEIN, SUSAN – HUNTER COLLEGE****UNIVERSITY OF NEW HAMPSHIRE**

Constraints and Agents: Confronting Ignorance in Electronic Community Interactions, \$15,000

**EPSTEIN, TERRIE – HUNTER COLLEGE****CUNY MISC.**

\$3,380

**SPENCER FOUNDATION**

Representation of Races and Rights in U.S. History Textbooks, 1800-2000, \$35,000

**ERICKSON, KENNETH/MARKOVITZ, IRVING – GRADUATE SCHOOL****VARIOUS**

Journal of Comparative Politics, \$64,690

**ESPARZA, MARCIA - JOHN JAY COLLEGE****PRIVATE ORGANIZATIONS**

Historical Memory Project, \$5,065

**ESPINOZA, FERNANDO – LEHMAN COLLEGE****NYC BOARD OF EDUCATION**

Integrated Informal Learning Centers into Inclusive Secondary Science, \$74,827

**FABRICANT, MONA/PESKIN, SANDRA – QUEENSBOROUGH C. C.****NATIONAL SCIENCE FOUNDATION**

Time-Teaching Improvement through Mathematics Education; Adapting and Implementing Time 2000 for the Community College, \$150,000

**FALK, WENDY – NYC COLLEGE OF TECHNOLOGY****U.S. DEPARTMENT OF EDUCATION**

Child Care Access Means Parents in School, \$155,462

**FAARAH, LIJAS – COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

Rigidity of Quotient Structures, \$47,818

**FEKELE, PAULA – HUNTER COLLEGE****CUNY MISC.**

Active Learning in Physics Lectures, \$8,681

**FENG, JIMMY – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

A Fluid-Mechanical Study of the Processing of Self-Reinforced Polymer Composites, \$80,400

**FERNANDEZ, DOLORES – HOSTOS C. C.****COLUMBIA UNIVERSITY**

Foreign Policy and National Security Training Initiative, \$75,680

**FERNANDEZ, DOLORES/ACQUAH, KENNETH – HOSTOS C. C.****CUNY MISC.**

Institutional Advancement, \$101,964

**FIELDS, DAVE/WILLIAMS, WILLIAM – CUNY LAW SCHOOL AT QUEENS COLLEGE****CUNY MISC.**

Child Care, \$165,190

**FIELDS, DAVE – CUNY LAW SCHOOL AT QUEENS COLLEGE****VARIOUS**

CUNY Law School, \$187,000

**FIGUEIREDO-PEREIRA, MARIA – HUNTER COLLEGE****NIH-NINDS**

Ubiquitinated Protein Degradation and Neurodegeneration, \$320,000

**FILBIN, MARIE – HUNTER COLLEGE****AVENTIS PHARMACEUTICAL**

Gordon Conference on Myelin, \$5,000

**NATIONAL MULTIPLE SCLEROSIS SOCIETY**

Blocking the Inhibition of Axonal Regeneration by Mag/Myelin (Myelin Associated Glycoprotein), \$110,753

**NIH-NINDS**

Myelin Gordon Conference, \$10,000

Role of Myelin in Spinal Cord Regeneration, \$320,625

Specialized Neuroscience Research Program (SNRP), \$1,520,768

**NYS DEPARTMENT OF HEALTH**

Spinal Cord Injury Research Program, \$240,000

**FILLOS, JOHN – CITY COLLEGE****METCALF & EDDY OF NEW YORK, INC.**

Aeration Tank 13-Bnr, \$125,500

**NYC DEPT OF ENVIRONMENTAL PROTECTION**

Nitrogen Technical Advisory Committee, \$395,178

**FINKELESTEIN, JASON/SAVAGE, CARIN – BRONX C. C.****NYS EDUCATION DEPT**

Tutor Certification and Standardization Services, \$1,218,345

**FISH, MARIAN – QUEENS COLLEGE****CUNY MISC.**

Comparative Evaluation: Psychologist in Training, \$11,265

**FISHER, DAVID – LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Superrigidity, Actions on Manifolds and Cat Geometry, \$106,494

**FISHER, MARIA – HUNTER COLLEGE****CUNY MISC.**

Araucanians Or Mapuche? Sorting Out National Identity in Neruda's Indians, \$4,823

**FISHMAN, MYER – CITY COLLEGE****NIH-NIGMS**

MBRS/ Score Program, \$1,085,420

**FLETCHER, DAVID – LEHMAN COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Bronx Community Technology Centers Network, \$307,108

**FLUGMAN, BERT – GRADUATE SCHOOL****HOFSTRA UNIVERSITY**

New York State Curriculum for Advanced Technological Education, \$37,500

**NATIONAL SCIENCE FOUNDATION**

A Follow-Up Summative Evaluation of the New York City Collaborative for Excellence in Teacher Preparation, \$597,780

**NEW YORK WORK ALLIANCE**

New York City Information Technology Education Project: To provide an estimated 300 eligible NYC residents with computer education and training that will enable them to qualify for jobs in the computer industry and other related industries, \$150,000

**VARIOUS**

Royalty/Coronet, \$20,313

**FLUGMAN, BERT/BROWNSTEIN, BONNIE – GRADUATE SCHOOL****INSTITUTE FOR SCHOOLS OF THE FUTURE**

Institute for Schools of the Future, \$87,127

**FLUGMAN, BERT/SPIEGEL, SEYMOUR – GRADUATE SCHOOL****MANAGEMENT PLANNING RSCH. ASSOC. INC.**

Youth in Adult Education Program, \$218,035

**FOGELMAN, FAITH – NYC COLLEGE OF TECHNOLOGY****VARIOUS**

American Sign Language, \$1,940

**FONT, MAURICIO – QUEENS COLLEGE****CUNY MISC.**

The Cuba Project at Queens College, \$4,651

**FOSNOT, CATHERINE/ZOLKOWER, B./HERSCH, S. – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Mathematics in the City: Professional Development Materials on Number and Operation for Teaching and Learning, \$672,351

**FOSNOT, CATHERINE/HERSCH, S. – CITY COLLEGE****NYC BOARD OF EDUCATION**

Real World Mathematics and Mathematics Professional Development Services:

Mathematics in the City-Professional Development Workshops to Reform Math Education of Teachers in Manhattan, \$207,912

**FOSNOT, CATHERINE/CAMERON, A./HERSCH, S. – CITY COLLEGE****NYC BOARD OF EDUCATION**

Local Systematic Initiative Grant, \$94,497

**VARIOUS**

Mathematics Education at the City College of New York (CCNY), \$37,000

**FOSTER, DAVID – HUNTER COLLEGE****NIH-OFFICE OF THE DIRECTOR (NCI)**

Mitogenic Signaling Through RAL A and Phospholipase D, \$400,260

**FRANCESCONI, LYNN – HUNTER COLLEGE****NATIONAL SCIENCE FOUNDATION**

MRI: Acquisition of an X-Ray Diffractometer Equipped with a CCD Detector, \$231,243

**VARIOUS**

Cuny X-Ray Facility, \$1,450

**FRANCK, RICHARD – HUNTER COLLEGE****NIH-NIGMS**

C-Glycosides via the Ramberg-Bäcklund Reaction, \$238,425

**FRANCK, RICHARD / SOLL, CLIFF - HUNTER COLLEGE****VARIOUS**

Mass Spectrometer, \$4,445

**FRANKLIN, HARRY – OFFICE OF THE CHANCELLOR****NEW YORK COMMUNITY TRUST**

Provide Transportation to School Related Activities for Disabled Students of High Scholastic Ability, \$30,000

**FREDERICKSON, KEVILLE – LEHMAN COLLEGE****HRSA-DIVISION OF NURSING**

Advanced Education Nursing Traineeships, \$57,051

**FREEMAN, JAMES - HUNTER COLLEGE****CUNY MISC.**

Developing Computer Exercises for Philosophy 103: Introduction to Logic and Critical Thinking, \$2,000

**FREI, ALLAN – HUNTER COLLEGE****UNIVERSITY OF COLORADO**

Investigating Downscaling Methods and Evaluating Climate Models for Use in Estimating Regional Water Resources in Mountainous Regions under Changing Climatic Conditions, \$26,498  
Collaborative Research Evaluation of Snow Simulations in the Second Phase of the Atmospheric Intercomparison Project, \$38,190

**FREUDENBERG, NICHOLAS – HUNTER COLLEGE****CTR FOR ALT. SENTENCING & EMP SVCS**

HIV Peer Education Program, \$6,572

**HEALTH RESEARCH**

Criminal Justice- Demo (HIV/Aids Prevention and Intervention Programs), \$60,000

**HRSA-DIV. OF DENTAL HEALTH PROGRAMS**

Public Health Traineeship, \$10,042

**NEW YORK ACADEMY OF MEDICINE**

Develop and Testing of a Model for Understanding the Social Determinants of Substance Abuse in Harlem, \$53,405

**NIH-NIDA**

Impact/ HIV Intervention/ Adolescent Males Leaving Jail, \$573,256

**OPEN SOCIETY**

Developing New Policies and Programs for Community Reintegration of Inmates Leaving New York City Jails, \$140,000

**ROBERT WOOD JOHNSON FOUNDATION**

Health Link Year 5/5: Support of the Implementation of a Community Reintegration Model to Reduce Substance Abuse Among Jail Inmates, \$541,835

**VARIOUS**

Urban Public Health Research Fund, \$250

Evaluation Activities, \$24,249

**OPEN SOCIETY**

Developing New Policies and Programs for Community Reintegration of Inmates Leaving New York City Jails, \$140,000

**ROBERT WOOD JOHNSON FOUNDATION**

Health Link Year 5/5: Support of the Implementation of a Community Reintegration Model to Reduce Substance Abuse Among Jail Inmates, \$541,835

**VARIOUS**

Evaluation Activities, \$24,249

**FRICK, CHARLOTTE – GRADUATE SCHOOL****U.S. DEPARTMENT OF EDUCATION**

Fulbright Hays Doctoral Dissertation, \$43,291

**FRIEDMAN, CAROL – QUEENS COLLEGE****COLUMBIA UNIVERSITY**

Automated Compilation and Computational Analysis of Regulatory Pathways, \$21,163

A Computer System for Functional Analysis of Genome Data, \$41,229

**NIH-NLM**

Unlocking Data from Medical Records with Text Processing, \$288,252

**FRIEDMAN, EITAN – CITY COLLEGE****ASTRAZENECA LP**

Le of Nitric Oxide in Effect of Beta Blockers in Heart Failure, \$100,800

**NIH-NIDA**

Prenatal Cocaine and Dopamine Receptor Signaling, \$135,695

**NIH-NIMH**

Signal Transduction in Bipolar Illness, \$190,503

**FRIEDMAN, EVELYN – HUNTER COLLEGE****CUNY MISC.**

Institutional Advancement, \$347,580

**FRIEDMANN, ERIKA – BROOKLYN COLLEGE****CUNY MISC.**

Summer Courses Involving Health Programs and Issues in Growing Healthy in New York, \$63,220

**FRITTON, SUSANNAH – CITY COLLEGE,****NIH-NIAMS**

Quantifying Tracer Transport in Cyclically Loaded Bone, \$67,639

**WHITAKER FOUNDATION**

Delineating the Pathways of Bone Interstitial Fluid Flow, \$80,545

**GAFNEY, HARRY – QUEENS COLLEGE****AMERICAN CHEMICAL SOCIETY**

Petroleum Research, \$30,000

**FIBER OPTIC FABRICATIONS, INC.**

Photodeposition of Diffraction Gratings on Optical Fibers, \$7,250

**GALE, ELAINE - HUNTER COLLEGE****CUNY MISC.**

Deaf and Hard-of-Hearing Elaboration of the Hunter College Learning Lab, \$984

**GALLAGHER, DAVID - HUNTER COLLEGE****VARIOUS**

Social Sciences Computing Lab, \$385

**GALVIN, SEAN – LAGUARDIA C. C.****NYS EDUCATION DEPT**

Liberty Partnerships Program, \$255,500

**GAMBLE, MAE – HUNTER COLLEGE****NYC BOARD OF EDUCATION**

\$23,200

**NYS EDUCATION DEPT**

Teaching Opportunity Corps, \$74,203

**GAO, PATRICK – YORK COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Enrichment Services at York College of CUNY, \$254,208

Student Support Services, \$332,907

**GAO, PATRICK/SCHWARTZ, ROBERT – YORK COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Ronald E. McNair Postbaccalaureate Achievement Program, \$211,459

**GARNETT, KATHERINE - HUNTER COLLEGE****DIVISION OF LEARNING DISABILITIES**

Learning Disabilities Newsletter, \$2,952

**GAVIN, RAY – BROOKLYN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Function of an Unconventional Myosin in Tetrahymena, \$309,901

**GAWKINS, ANNE - NYC COLLEGE OF TECHNOLOGY****NYC BOARD OF EDUCATION**

Literacy Professional Development Services, \$5,000

**GAWKINS, ANNE/SILVERMAN, LINDA – NYC COLLEGE OF TECHNOLOGY****NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP): Professional Career Opportunity

Programs, \$78,250

Vocational and Applied Technology Education Act (VATEA): Technical Preparation

Program, \$180,000

**GEDZELMAN, STANLEY – CITY COLLEGE****NASA**

Winds, Water Budgets, and Stable Isotopes in Tropical Cyclones Using TRMM and Quicksat, \$25,000

**GENACK, AZRIEL – QUEENS COLLEGE****DOD-UNITED STATES ARMY**

Electromagnetic Propagation, Localization and Lasing in Random and Periodic Media, \$115,000

**NATIONAL SCIENCE FOUNDATION**

Statistics of Electromagnetic Propagation and Localization, \$85,997

Acquisition of Tunable Narrow-Ling Laser for Photonic Band Gap and Disordered

Materials Research and Education, \$102,442

**GENTILE, KATE - JOHN JAY COLLEGE****CUNY MISC.**

Genes and Gender Women's Center, \$607

**GERBER, JANE – GRADUATE SCHOOL****SUMMER TEACHER TRAINING INSTITUTE**

Summer Teacher Training Institute in Sephardic Studies, \$32,056

**GERRY, CHRISTOPHER/CAMPOS, RICHARD – LEHMAN COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Rui: An Investigation of Schemes for the Generation of Maximally Entangled Photonic States, \$40,000

**GERSTLE, DONNA – COLLEGE OF STATEN ISLAND**  
**NYS DEPT OF ENVIRONMENTAL CONSERVATION**  
Water Quality Management Planning: Water Education Awareness Program, \$25,000

**GERTNER, IZIDOR/WEI, JIE – CITY COLLEGE**  
**DOD-U.S.NAVY**  
Moving Object Detection Identification, \$127,000

**GHOSN, MICHEL/SUBRAMANIAM, KOLLURU – CITY COLLEGE**  
**NYS ENERGY RESEARCH AND DEVELOPMENT AUTHORITY**  
Application of FRP Technology for the Repair of Transportation Infrastructure, \$125,000

**GIL, ROSA – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS**  
**UNITED WAY**  
The New York Immigrant Nurse at CUNY, \$50,000

**GILBERTO, LINDA – LAGUARDIA C. C.**  
**CUNY MISC.**  
LaGuardia Community College of CUNY Program Development, \$330,000

**GILBERTO, PASQUALE – HUNTER COLLEGE**  
**DEKAY FOUNDATION**  
Dekay Program, \$49,151

**HYDE & WATSON FOUNDATION**  
Brookdale Center on Aging, \$10,000

**NYS OCFS**  
Adult Care Facility Training Resource System, \$2,684,337

**RAMAPO TRUST**  
The Art of Dementia Care, \$25,000

**REUIGOLD INST**  
Reingold Endowment Fund, \$67,600

**VARIOUS**  
Continuing Education, \$165  
Brookdale Center on Aging: Advanced Placement Seminar to Provide Improved Quality of Social Service to Older People Through Enrichment and Enhancement of the Education of Practicing Students, \$13,725  
Respite Program – General Funds, \$41,553  
Special Funds for Minority Programs, \$67,350  
Brookdale Center on the Aging – Humanities Special Funds, \$174,450  
Training Program – Special Funds, \$210,886  
Law Institute – General Funds, \$317,824  
Brookdale Center for the Aging Program Support, \$484,844

**GITTELL, MARILYN – GRADUATE SCHOOL**  
**FORD FOUNDATION**  
Democracy Study Project, \$237,648

**ROCKEFELLER FOUNDATION**  
Democracy Study Project, \$250,358

**VARIOUS**  
Howard Samuels State Management and Policy Center, \$166,298

**GIZIS, EVANGELOS / RAAB, JENNIFER - HUNTER COLLEGE**  
**ANDREW MELLON FOUNDATION**  
The Mellon Minority Undergraduate Program, \$732

**GLIWA, BARBARA – CITY COLLEGE**  
**CUNY MISC.**  
Finance And Administration at City College for Tuition and Fees, \$33,304

**NYS DEPARTMENT OF HEALTH**  
Minority Participation In Medical Education Grant Program, \$340,389

**GLOBENFELT, JACK – LEHMAN COLLEGE**  
**LEHMAN PERFORMING ARTS CENTER**  
Center for Performing Arts, \$111,600

**GLOSE, GEORGIANNA - NYC COLLEGE OF TECHNOLOGY**  
**CHASE MANHATTAN**  
Homework Help Project, \$9,950

**GOLBE, DEVRA - HUNTER COLLEGE**  
**CUNY MISC.**  
"Webbable" Math for Economics, \$750

**GOLDBERG, MARK – HUNTER COLLEGE**  
**CENTER TO PROTECT WORKERS RIGHTS**  
Blueprint for Integrating Health Hazard Controls in Construction: Intervention Research Project, \$24,109

**GOMES, HILARY – CITY COLLEGE**  
**NIH-NIDC**  
Attention in Children with Language Impairment, \$338,828

**GOMEZ, DAVID – KINGSBOROUGH C. C.**  
**U.S. DEPARTMENT OF EDUCATION**  
Technology Network Upgrade, \$425,000

**GOODMAN, HARRIET – HUNTER COLLEGE**  
**CUNY MISC**  
Graduate Social Work Education: Evaluating the Pedagogy of Practice-Based Research Based on Exemplar Student Projects, \$4,908

**NYC ADMIN FOR CHILDREN'S SERVICES**  
Human Sources Videoconferencing/Distant Learning System Project, \$576,295

**GOODMAN, JACOB – CITY COLLEGE**  
**DOD-NATIONAL SECURITY AGENCY**  
Problems in Discrete Geometry, \$22,000

**GORNICK, JANET – BARUCH COLLEGE**  
**RUSSELL SAGE FOUNDATION**  
Earning and Caring: Reconciling Motherhood, Fatherhood, and the Market, \$9,924

**UNIVERSITY OF WASHINGTON**  
State Policy Variation and the Economic Security of Low Income Families, \$26,691

**GOROKHOVSKY, ANSHEL – COLLEGE OF STATEN ISLAND**  
**DOD-UNITED STATES AIR FORCE**  
Optical Hole Burning Studies of Materials for Frequency Domain Optical Storage and Processing, \$56,965

**GOSS, DIXIE – HUNTER COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Effects of Poly (A) Binding Protein on Translation Control, \$135,000

**PROMEGA CORPORATION**  
Promega's Wheat Germ Translation Kit, \$1,800

**GOTTLIEB, PAUL – CITY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Career: Integrated Study and Research in Virology, \$99,958

**GRAFF, ROBERT - CITY COLLEGE**  
**EXXONMOBIL RSCH & ENGINEERING CO**  
TGA Measurement for Exxon Project, \$249

**GRANDE, ANTHONY – HUNTER COLLEGE**  
**NYC DEPT OF ENVIRONMENT PROTECTION**  
GIS Services for the Bureau of Water Supply's Division of Watershed Lands and Community Planning, \$102,406

**GRAZIANO, ROBERTA – HUNTER COLLEGE**  
**PRESBYTERIAN CHURCH**  
The "Aging & Health" Work Study MSW Program, \$20,000

**GRAZIANO, ROBERTA/SALMON, ROBERT – HUNTER COLLEGE**  
**FAN FOX & LESLIE R. SAMUELS FDN, INC.**  
Support for a Second Cohort of Students for Social Work Program to Better Serve the Health Needs of the Elderly, \$290,000

**JOHN A. HARTFORD FOUNDATION, INC.**  
Aging and Health Work Study MSW Program, \$10,000

**GREEN, AMY - JOHN JAY COLLEGE**  
**NEW YORK COUNCIL FOR THE HUMANITIES**  
September 11th and Oral History: How Soon is Too Soon? How Much is Enough?, \$1,000

**GREEN, MARCIA/MORALES, G./TAYLOR, A. – MEDGAR EVERES COLLEGE**  
**CUNY MISC.**  
Continuing Education Research Fund: Past Due Tuition and Fee Collection, \$124,467

**GREENBAUM, STEVEN – HUNTER COLLEGE**  
**DOD-UNITED STATES ARMY**  
\$4,000

**DOD-U.S. NAVY**  
Financial Support of The Eight International Symposiums on Polymer Electrolytes, \$5,000  
Spectroscopic Studies of Fuel Cell Membranes and Catalysts, \$79,835

**DOD-UNITED STATES AIR FORCE**  
Solid State NMR Studies of Polymer Nanocomposites, \$166,920

**U.S. DEPARTMENT OF ENERGY**  
Magnetic Resonance and X-Ray Absorption, \$190,000

**GREER, ALEXANDER – BROOKLYN COLLEGE**  
**AMERICAN CHEMICAL SOCIETY**  
Individual Fundamental Research in the Petroleum Field, \$12,500

<b>GRESIK, EDWARD – CITY COLLEGE</b> NIH-NIDR Regulation of Branching Morphogenesis of Salivary Gland, \$239,625	<b>PARAGON TEC</b> Science, Engineering, Mathematics and Aerospace Academy, \$93,750
<b>GROSS, BARRY – CITY COLLEGE</b> NASA Combining Active and Passive Optical Remote Sensing Techniques to Measure Tropospheric Aerosol Profiles, \$98,059	<b>HASSETT, PATRICIA – BROOKLYN COLLEGE</b> CUNY MISC. Financial Aid, \$4,901
<b>GROSS, CAROL – BROOKLYN COLLEGE</b> NYS EDUCATION DEPT Teacher Opportunity Corps (TOC), \$34,988	<b>HECHT, DEBORAH – GRADUATE SCHOOL</b> EAST MEADOW UNION FREE SCHOOL DIST. Service Learning Center, \$38,500
<b>GROSS, JILL – HUNTER COLLEGE</b> UNIVERSITY OF NEW ORLEANS Digital Technology and Local Economic Development Implication for Urban Sprawl, \$22,086	<b>HELLMAN, RONALD – GRADUATE SCHOOL</b> CUNY MISC. The Program on United States-Mexican Relations, \$192,484
<b>GUINTA, LOUIS – JOHN JAY COLLEGE</b> NYC DEPARTMENT OF CORRECTION Rikers Island Vocational Training/Adult Vocational Programs for Inmates, \$17,567	<b>HERMAN, GABOR – GRADUATE SCHOOL</b> NIH-NHLBI Image Processing in Biological 3D Electron Microscopy, \$325,000
<b>NYS EDUCATION DEPT</b> Supplemental Funding for Vocational or Technical Education Programs, \$705,036	<b>HEUSNER, WARREN/OLIVER, THOMAS – MEDGAR EVERES COLLEGE</b> , U.S. DEPARTMENT OF EDUCATION Talent Search Program for First Generation College Students, \$278,305
<b>GUNNER, MARILYN – CITY COLLEGE</b> NATIONAL SCIENCE FOUNDATION Electrostatic Forces Fellows Program: Role of Electrostatic Forces in Protein Stability and Functions, \$100,000	<b>HIGGINBOTHAM, BARBARA – BROOKLYN COLLEGE</b> U.S. DEPARTMENT OF EDUCATION Fund for the Improvement of Post-Secondary Education (FIPSE): The Virtual Core Project, \$23,929
<b>U.S. DEPARTMENT OF AGRICULTURE</b> Quinone Dependent Electron and Proton Transfers in Bacterial Reaction Centers, \$110,000	<b>HIGGINS, LAURA/JACOBS, STEPHEN – BOROUGH OF MANHATTAN C. C.</b> NYS EDUCATION DEPT State University of New York Educational Opportunity Center in Manhattan, \$65,375
<b>GURA, TIMOTHY/SILMAN, SHLOMO – BROOKLYN COLLEGE</b> ARISIL INSTRUMENTS, INC. Non-Surgical Management of Otitis Media, \$197,500	<b>HILL, ANNE – QUEENS COLLEGE</b> CUNY MISC. Communication Arts and Sciences- Economic Activity, \$1,859
<b>GURLAND, GAIL /PIERAS, GUILLERMO – BROOKLYN COLLEGE</b> NYC BOARD OF EDUCATION Training Program for Bilingual Special Education Personnel Speech Pathology, \$23,310	<b>HILL, OTIS – OFFICE OF VC FOR STUDENT AFFAIRS</b> CUNY – STUDENT SENATE USG 2002: Scholarship, \$19,565
<b>GUYDEN, JERRY – CITY COLLEGE</b> NATIONAL SCIENCE FOUNDATION The Relationship between Thymic Nurse Cells and Macrophages during MHC Restriction, \$280,000	<b>HILL, OTIS/THOMAS, SHEILA – OFFICE OF VC FOR STUDENT DEVELOPMENT AND ENROLLMENT</b> CUNY – STUDENT SENATE Student Senate Scholarship Account 2001, \$28,200 Student Senate Operating Account 2001, \$133,746 USG 2002: General, \$161,227
<b>HAINLINE, LOUISE – BROOKLYN COLLEGE</b> CUNY MISC. The Cornerstone Internship Project, \$113,738	<b>HILL, OTIS/NORD, ROBERTA – OFFICE OF VC FOR STUDENT DEVELOPMENT AND ENROLLMENT</b> CUNY – STUDENT SENATE Student Senate Athletic Account 2001, \$12,389 USG 2002: Athletic, \$15,142
<b>NIH-NIGMS</b> Biomedical Research Training for Minority Honor Students, \$436,392	<b>CUNY MISC.</b> CUNY Athletic Conference, \$185,065
<b>HALPERIN, JEFFREY – QUEENS COLLEGE</b> NIH-NIMH Heterogeneity of ADHD: Predictors of Adolescent Outcome, \$363,105	<b>HILLERY, MARK – HUNTER COLLEGE</b> NATIONAL SCIENCE FOUNDATION Processing and Transmission of Quantum Information, \$10,000
<b>HAMMOND, FREDERICK/FINNEN, MARY – BARUCH COLLEGE</b> CUNY MISC. Establish and Determine State-Of-The-Art Monetary and Administrative Transaction Specifications, \$75,911	<b>HOELTZEL, SUSAN – LEHMAN COLLEGE</b> GREENTREE FOUNDATION Workshop in Curriculum Material Development \$3,617
<b>HANDEL, MICHAEL – LEHMAN COLLEGE</b> NATIONAL SCIENCE FOUNDATION Geometric Group Theory and Surface Dynamics, \$93,616	<b>LEHMAN ART GALLERY</b> Lehman College Art Gallery, \$201,542
<b>HARALICK, ROBERT – GRADUATE SCHOOL</b> AISH HATORAH Aish Hatorah Torah Code, \$23,206	<b>HOFFMAN, CHUCK – NYC COLLEGE OF TECHNOLOGY</b> LADIES COMMITTEE PUERTO RICAN CULTURE Limited English Proficiency Initiative Supporting Adults from the Ladies Committee for Puerto Rican Culture, \$1,338
<b>HARITOS, CALLIOPE - HUNTER COLLEGE</b> CUNY MISC Listening, Thinking, Remembering, and Speaking with Two Languages: Understanding the Social and Cognitive Dynamics of Memory in Compound Bilingual Children, \$1,000 Understanding Teacher Development: Thought and Practice, \$5,000	<b>NYS FEPARTMENT OF TRANSPORTATION</b> Joint Urban Manpower Program (JUMP), \$298,853
<b>HARRIS, WILLIAMS – MEDGAR EVERES COLLEGE</b> CUYAHOGA COMMUNITY COLLEGE Science, Engineering, Mathematics, \$75,000	<b>NYS DEPARTMENT OF TRANSPORTATION</b> On The Job Training (OJT) Supportive Services for NYSDOT Engineering Consultants, \$286,087
	<b>NYS EDUCATION DEPT</b> Vocational and Applied Technology Education Act (VATEA): Adult Non-Credit Vocational Programs, \$1,250,963
	<b>RESEARCH FOUNDATION/SUNY</b> Bridge X, \$151,161
	<b>STATE UNIV OF NEW YORK-ALBANY</b> Bridge IX Project, \$143,970

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<b>HAINLINE, LOUISE – BROOKLYN COLLEGE</b> CUNY MISC. The Cornerstone Internship Project, \$113,738
<b>NIH-NIGMS</b> Biomedical Research Training for Minority Honor Students, \$436,392
<b>HALPERIN, JEFFREY – QUEENS COLLEGE</b> NIH-NIMH Heterogeneity of ADHD: Predictors of Adolescent Outcome, \$363,105
<b>HAMMOND, FREDERICK/FINNEN, MARY – BARUCH COLLEGE</b> CUNY MISC. Establish and Determine State-Of-The-Art Monetary and Administrative Transaction Specifications, \$75,911
<b>HANDEL, MICHAEL – LEHMAN COLLEGE</b> NATIONAL SCIENCE FOUNDATION Geometric Group Theory and Surface Dynamics, \$93,616
<b>HARALICK, ROBERT – GRADUATE SCHOOL</b> AISH HATORAH Aish Hatorah Torah Code, \$23,206
<b>HARITOS, CALLIOPE - HUNTER COLLEGE</b> CUNY MISC Listening, Thinking, Remembering, and Speaking with Two Languages: Understanding the Social and Cognitive Dynamics of Memory in Compound Bilingual Children, \$1,000 Understanding Teacher Development: Thought and Practice, \$5,000
<b>HARRIS, WILLIAMS – MEDGAR EVERES COLLEGE</b> CUYAHOGA COMMUNITY COLLEGE Science, Engineering, Mathematics, \$75,000

**HOGG, LESLEIGH – BRONX C. C.****NYS EDUCATION DEPT**

Liberty Partnership Program 2001, \$148,560

**HOLGUIN-VERAS, JOSE – CITY COLLEGE****DOT/NHTSA**

Graduate Fellow Program, \$88,000

**NATIONAL SCIENCE FOUNDATION**

Career: Synthesis of Freight Origin-Destination Matrices from Intelligent Transportation Systems Data, \$12,000

**NYS DEPARTMENT OF TRANSPORTATION**

Goods Movement in the New York Metropolitan Area, \$38,193

**HOLGUIN-VERAS, JOSE/OZBAY, KANN – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Integrative Freight Market Simulation, \$12,000

**HOLGUIN-VERAS, JOSE/PAASWELL, ROBERT – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Impacts of Extreme Events on Passengers Travel Behavior, \$50,000

**HONIG, MARJORIE – HUNTER COLLEGE****INTERNATIONAL LONGEVITY CENTER, USA**

Research in Areas of Health and Labor Economics, \$10,000

**HOWARD, CHRISTINE – QUEENS COLLEGE****CUNY MISC.**

Educational Placement, \$18,700

**HOWARD, DOUGLAS C. – BARUCH COLLEGE****NATIONAL SCIENCE FOUNDATION**

RUI: First Passage Percolation and Other Disordered Systems, \$82,269

**HU, QIAO-SHENG – COLLEGE OF STATEN ISLAND****AMERICAN CHEMICAL SOCIETY**

Direct Arylation/Alkenylation of Carbonyl Compounds with Aryl/Alkenyl Halide by Using Novel Multifunctional Catalysts, \$25,000

**HU, YANG – HUNTER COLLEGE****CUNY MISC.**

Talking and Learning: The Nature of Eighth Graders' Book Talk in Peer-Led Reading Club Discussions, \$4,998

**HUANG, ZHEN - BROOKLYN COLLEGE****GLEN RESEARCH CORPORATION**

Synthesis of Selenium-Derivatized Nucleoside Phosphoramidites, Triphosphates and Nucleic Acids for X-Ray Crystallography, \$5,000

**HUBBARD, KAREN – CITY COLLEGE****NIH-NCI**

CCNY/MSK Cancer Center Partnership, \$474,594

**HUDESMAN, JOHN – NYC COLLEGE OF TECHNOLOGY****U.S. DEPARTMENT OF EDUCATION**

A Comprehensive Cognitive Skills Academy for Associate Degree Freshmen, \$186,653

**HUM, TARRY – QUEENS COLLEGE****FORD FOUNDATION**

An Urban Mosaic: Immigrants and Neighborhood Transformation – A Study of New York's Sunset Park, \$35,000

**HUNT, BENJAMIN/GILBERTO, LINDA – LAGUARDIA C. C.****DOD-DEFENSE LOGISTICS AGENCY**

Procurement Technical Assistance, \$98,564

**IHDE, THOMAS - LEHMAN COLLEGE****UNIVERSITY OF MINNESOTA**

Irish Language Vocabulary and Reading Exercises, \$1,000

**IRGANG, VICKI – BROOKLYN COLLEGE****NYC BOARD OF EDUCATION**

Provide Professional Developmental Courses for Central and CSD Professional Developers, Teachers, and Supervisors, School Leadership Teams, Superintendents and Central and CSD Staff, \$30,560

**ISAACSON, ROBERT – GRADUATE SCHOOL****CUNY MISC.**

CUNY TV, \$112,000

**NYC/DOITT**

Crosswalk Television, \$1,022,671

**ILTUS, SELIM - GRADUATE SCHOOL****CUNY MISC.**

Feasible Study - Park Slope Armory, \$5,000

**IVRY, JOANN /RONCH, J./GILBERTO, P. – HUNTER COLLEGE****JOHN A. HARTFORD FOUNDATION, INC.**

Geriatric Social Work Practicum Implementation, \$105,776

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**JACKSON, CAROL – COLLEGE OF STATEN ISLAND****NYS EDUCATION DEPT**

Liberty Partnership Programs, \$232,692

**U.S. DEPARTMENT OF EDUCATION**

Child Care Access Means Parents in School, \$74,962

**JACKSON, CAROL/ROSE, DEBI – COLLEGE OF STATEN ISLAND****NYS EDUCATION DEPT**

Liberty Partnership Programs, \$232,692

**JACOBS, LESTER – UNIVERSITY APPLICATION PROCESSING CENTER****NYC BOARD OF EDUCATION**

Student Automated Record-Keeping Systems (SARKS) Fiscal Years 2001 and 2002, \$8,579,149

**JACOBS, LESTER/MCGINNIS, MICHAEL – UNIVERSITY APPLICATION PROCESSING CENTER****VARIOUS**

New York State TAP Processing, \$174,600

**JACOBS, NANCY – JOHN JAY COLLEGE****CUNY MISC.**

The Comparative Impact of Juvenile and Criminal Sanctions for Adolescent Felony Offenders, \$17,369

**NYC FAMILY COURT**

The Criminal Court Collaboration Project, \$27,000

**SAMHSA/CMHS**

National Center for the Advancement of Prevention, \$1,105,963

**JANS, URS – CITY COLLEGE****HERMAN FRASCH FOUNDATION**

Abiotic Transformation of Agrochemicals in Wetland Soils and Sediments, \$40,000

**NATIONAL SCIENCE FOUNDATION**

Career: Fate of Contaminants in the Environment, \$125,089

**JENNINGS, CHARLES/SERMIER, ROBERT – JOHN JAY COLLEGE****FEMA – FEDERAL EMERGENCY MGMT AGENCY**

Urban Hazards Forum, \$84,000

**JOB, YURI – CITY COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Upward Bound Program, \$279,867

**JOHNSON, ANNE – LEHMAN COLLEGE****HERBERT H. LEHMAN COLLEGE FDN, INC.**

College Foundation, \$18,562

**JOHNSON, LAWRENCE – YORK COLLEGE****NIH-NIGMS**

MBRS Score Program at York College, \$2,282,301

**JOHNSON, LEON – MEDGAR EVERS COLLEGE****NASA**

The New York City Space Science Research Alliance, \$245,000

**JORDAN, BRUCE – BARUCH COLLEGE****DOD-NATIONAL SECURITY AGENCY**

The Laplace Operator on Arithmetic Cell Complexes, \$20,000

**JORGENSEN, JAY – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Heat Kernel Analysis and Zeta Functions on Quotients of Symmetric Spaces, \$43,610

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**JOYCE, THEODORE – BARUCH COLLEGE****HRSA-DIVISION OF MEDICINE**

Health Administration Traineeships and Special Projects, \$25,730

**NIH-NICHD**

Cigarette Taxes and Prenatal Smoking, \$114,075

**JOYNER, WENDELL – BRONX C. C.****NYS EDUCATION DEPT**

Vocational and Applied Technology Education Act (VATEA) – Employment Opportunity Center, \$121,581

**JUECHTER, JOANNE/SELIGER, MICHAEL – BRONX C. C.****U.S. HUD**

Hispanic Serving Institution Assisting Communities, \$400,000

**KAHN, ARLENE – LAGUARDIA C. C.****U.S. DEPARTMENT OF EDUCATION**

Bilingual Education-Program Development and Implementation, \$174,940

**GANIS, IRA/SHAW, PENNY – HUNTER COLLEGE****NEW YORK EASTER SEAL SOCIETY**

Project Happy 2001/2002, \$27,000

**KANT, ASHIMA – QUEENS COLLEGE****NIH-NCI**

A Prospective Study of the Relation of Diet Quality with Mortality, \$77,000

**KARAN, HIROKO – MEDGAR EVERES COLLEGE****NIH-NICHD**

Extramural Associate Research Development Award Program (EARDA), \$32,157

**NYC HEALTH & HOSPITALS CORPORATION**

C-Net Preparatory Program, \$17,329

**KARIM, MOHAMMAD - CITY COLLEGE****UNIVERSITY OF SOUTH ALABAMA**

Developing Effective Strategies and Performance Metrics for Automatic Target Recognition, \$4,672

**KATZ, JANE - JOHN JAY COLLEGE****LINCOLN SQUARE NEIGHBORHOOD CENTER**

Senior Summer Water Exercise Program, \$8,592

**KATZ, MALL DAUM/OROZCO, BRIDGET – QUEENSBOROUGH C. C.****NYS EDUCATION DEPT**

Perkins III Formula Funding, \$573,945

**KAUFMANN, HUGO – GRADUATE SCHOOL****CUNY MISC.**

European Union Studies Center (EUSC), \$34,648

**KAYE, RICHARD - HUNTER COLLEGE****CUNY MISC.**

Manuscript Preparation and Reproduction, \$1,840

**KEEN, LINDA/ST. JOHN, KATHERINE – LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Scholarship and Training Program for Students in Mathematics and Computer Science, \$270,000

**KEIZS, JEAN – BRONX C. C.****NYS EDUCATION DEPT**

Vocational and Applied Technology Education Act (VATEA) – Technical Preparation Program, \$180,000

**KELLAWON, BLANCHE – BRONX C. C.****NYS DEPARTMENT OF LABOR**

Displaced Homemaker Program (DHP), \$278,680

**KELLMAN, MITCHELL – CITY COLLEGE****UNITED NEGRO COLLEGE FUND, INC.**

Business and Economics for an International Future: Linking the University of Transkei and the City College of New York, \$169,801

**KELLY, MARIO/GRAVES, SHERRYL – HUNTER COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Bridging the Digital Divide: Preparing Today's Faculty to Prepare Tomorrow's Teachers, \$394,107

**KENNELLY, EDWARD – LEHMAN COLLEGE****DOD-UNITED STATES AIR FORCE**

Bringing the Research Environment to Undergraduate Classrooms through Computer Technology, \$94,771

**U.S. DEPARTMENT OF AGRICULTURE**

Bridging the Digital Divide in the Bronx through a Plant Biology Partnership, \$300,000

**KENNELLY, EDWARD/BAGGETT, SCOTT – LEHMAN COLLEGE****NIH-NCCAM**

Cardio-Protective Antioxidants from Exotic Fruits, \$23,351

**KENNELLY, EDWARD/REYNERTSON, KURT – LEHMAN COLLEGE****NIH-NCCAM**

Antioxidant Polyphenols from Fruits of the Myrtle Family, \$28,257

**KHANBILVARDI, REZA – CITY COLLEGE****NASA**

Integration of Research and Education in Remote Sensing and Environmental Climate Research, \$500,000

**U.S. AID**

Privitization Strategies for Environmental and Economic Development in Macedonia, \$82,823

**KHANBILVARDI, REZA/AHMED, S./STEINER, J. – CITY COLLEGE****U.S. DEPARTMENT OF COMMERCE**

NOAA Cooperative Center for Remote Sensing Science and Technology (CREST), \$2,500,000

**KIDD, CHARLES/PERL, ANTHONY – YORK COLLEGE****PORT AUTHORITY OF NY/NJ**

Senior Summer Water Exercise Program, \$200,000

**KIDD, CHARLES/ST. JOHN, RONALD – YORK COLLEGE****NCAA**

National Youth Program (NYSP) Support Services, \$13,029

National Youth Sport Program Fund, \$70,405

**KIERAN, MARY/DOULIS, ANA – BOROUGH OF MANHATTAN C. C.****NYS EDUCATION DEPT**

English Language Instruction Program, \$197,232

English Literacy/Civics Education, \$299,998

**KIERAN, MARY/MOLDANEDO, A./DOULIS, A. – BOROUGH OF MANHATTAN C. C.****CUNY MISC.**

The Borough of Manhattan Community College of CUNY Program Development, \$218,378

**KIERSZENBAUM, ABRAHAM – CITY COLLEGE****NIH-NICHD**

Microtubule/Keratin Interactions During Spermatogenesis, \$230,652

**KIJNE, HUGO – COLLEGE OF STATEN ISLAND****CUNY MISC.**

Special Projects in Continuing Education, \$41,542

**NYC DEPT OF ENVIRONMENT PROTECTION**

NYSD DC Correction for Wastewater, \$20,250

**NYC MENTAL HEALTH, MENTAL RETARDATION & ALCOHOLISM**

Educational Services for Developmentally Disabled Adults, \$150,522

**NYS EDUCATION DEPT**

ELI – English Language Institute, \$183,591

\$2,500

**RESEARCH FOUNDATION/SUNY**

Public Service Workshops Program, \$5,400

**KIMMICH, CHRISTOPH/LITTLE, STEVE – BROOKLYN COLLEGE****CUNY MISC.**

Reimbursement Account, \$274,866

**KINSLER, KIMBERLY/GAMBLE, MAE – HUNTER COLLEGE****NYS EDUCATION DEPT**

Dwight D. Eisenhower Professional Program, \$235,000

**KLEIN, NANCY - LEHMAN COLLEGE****BANK STREET**

Universal Pre-K Fellows Program, \$8,000

**KLITZMAN, SUSAN – HUNTER COLLEGE****NY CITY COUNCIL**

Bedford-Stuyvesant Healthy Homes, \$200,000

**KNOLL, MARCIA - HUNTER COLLEGE****NYC BOARD OF EDUCATION**

District 4 Collaboration, \$7,500

**KOBILINSKY, LAWRENCE - JOHN JAY COLLEGE****NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$61,880

**U.S. DEPARTMENT OF EDUCATION**

Institutional Development, \$417,727

**KOBILINSKY, LAWRENCE/ROTHCHILD, ROBERT - JOHN JAY COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Minority Science and Engineering Improvement Program, \$119,556

**KOLB, PATRICIA - LEHMAN COLLEGE****JOHN A. HARTFORD FOUNDATION, INC.**

Geriatric Enrichment of the Baccalaureate Social Work Program, \$30,000

**KOMATSUBARA, HIRO - HUNTER COLLEGE****CUNY MISC.**

Precalculus and Precalculus Technology Laboratory, \$750

**KOPLIK, JOEL - CITY COLLEGE****NASA**

Molecular Dynamics of Fluid-Solid Systems, \$45,000

**U.S. DEPARTMENT OF ENERGY**

Fluid and Particulate Transport in Self-Affine Fractures, \$95,264

**KOPPERMAN, RALPH - CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

2001-2002 Summer Conference in General Topology and its Applications, \$37,000

**KORANYI, ADAM - LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Function Theory on Symmetric Spaces, \$37,257

**KORN-BURSZTYZ, CAROL - BROOKLYN COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Child Care Access Means Parents in School Program, \$108,725

**KOTELCHUCK, DAVID - HUNTER COLLEGE****MOUNT SINAI HOSPITAL**

Industrial Hygiene Program, \$86,655

**NYC DEPARTMENT OF HEALTH**

Critical Event Response System to Reduce Childhood Asthma Morbidity in the East Harlem Section of Manhattan, \$30,000

**UNIV OF MEDICINE & DENTISTRY OF NJ**

Hazardous Waste Worker Training Program (EPA-HWWT), \$99,859

**KOTELCHUCK, DAVID/CORBURN, JASON - HUNTER COLLEGE****UNITED HOSPITAL FUND**

Community Health Worker Project, \$60,000

**KOTKIN, LAURA - QUEENSBOROUGH C. C.****QUEENSBOROUGH COMMUNITY COLLEGE**

Queensborough Community College Development - Alumni Assistant, \$33,901

**KRANIS, JOANN - LAGUARDIA C. C.****ROCHESTER INSTITUTE OF TECHNOLOGY**

Center for the Preparation of Educational Interpreters: Design and Coordinate a Pre-Service Program in Educational Interpreting, \$114,000

**U.S. DEPARTMENT OF EDUCATION**

Educational Interpreter Preparation Project - Personnel Preparation to Improve Services and Results for Children with Disabilities, \$204,866

**KRANIS, JOANN/ALLICINO, TONY - LAGUARDIA C. C.****U.S. DEPARTMENT OF EDUCATION**

Training Interpreters for Individuals who are Deaf and Individuals who are Deaf-Blind, \$157,813

**KRAUSS, BEATRICE - HUNTER COLLEGE****HEALTH RESEARCH**

Center for Expertise on Case Management HIV/Aids Education and Training, \$79,167

**MEDICAL & HEALTH RESEARCH ASSOCIATES**

HIV Protection Case Management Initiative, \$153,667

**NEW YORK COMMUNITY TRUST**

Evaluates Programs Outcomes, \$25,000

**NIH-NIMH**

Family Effects of Disaster in an HIV-Affected Community, \$70,950

Adolescent HIV Risk - Social Settings &amp; Prevention Issues, \$574,102

**NYC DEPARTMENT OF HEALTH**

HIV Prevention Case Management Initiative, \$100,000

**VARIOUS**

Community Action to Prevent Aids, \$20,816

**KREUZER, PAUL - LEHMAN COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Developing Hispanic Serving Institutions, \$475,000

**KUPFER, ADELE - GRADUATE SCHOOL****GILDER FOUNDATION**

Project Stir, \$4,950

**GREENWALL FOUNDATION**

Project STIR's Laboratory Technology and Classroom Activities Institute, \$68,000

**PFIZER**

Support of Project STIR, \$17,000

**VARIOUS**

Project STIR, \$45,687

**KURIEN, SUMA - LAGUARDIA C. C.****NYS EDUCATION DEPT**

English Language Civics Education, \$367,601

Edge Plus English Language Instruction Program, \$475,063

**KWARTA, VIRGINIA - UNAFFILIATED PROJECTS****NYC/DYCD**

Adult Literacy Education (ALE) - Adult Education, \$55,706

**NYS EDUCATION DEPT**

Incarcerated and Institutionalized Programs, \$71,706

**U.S. HUD**

McKinney-Vento Homeless Assistance Competition, \$108,182

**KWOK, KUI-LAM - QUEENS COLLEGE****DOD-DARPA**

Translingual Information Detection, Extraction and Summarization, \$146,479

**LACHMAN, SEYMOUR / BLOOMFIELD, DAVID - GRADUATE SCHOOL****VARIOUS**

Public / Non-Public School Conference, \$150

**LACKEY, MELINDA - HUNTER COLLEGE****DAPHNE FOUNDATION INC.**

Welfare Rights Support for 2000-2001, \$25,000

**JEWISH FUND FOR JUSTICE**

Welfare Rights Initiative: Access to Higher Education for Poor Families, \$25,000

**MS. FOUNDATION FOR WOMEN**

Welfare Rights Initiative for its Statewide Multi-Sector Coalition Building, \$10,000

**NEW YORK WOMEN'S FOUNDATION**

Welfare Rights Initiative, \$15,000

**OPEN SOCIETY**

Welfare Rights Initiative, \$75,000

**LACKEY, MELINDA/LANE, MAUREEN - HUNTER COLLEGE****VARIOUS**

Welfare Rights Initiative, \$84,443

**LACKEY, MELINDA/ROMERO, MIGDALIA - HUNTER COLLEGE****J.P. MORGAN FOUNDATION**

Welfare Rights Initiative Girls Project, \$30,000

**LACKEY, MELINDA/POPPENDIECK, JANET - HUNTER COLLEGE****LIZ CLAIBORNE FOUNDATION**

Program Growth, Capacity Building and Reorganization, \$50,000

**NEW YORK WOMEN'S FOUNDATION**

Welfare Rights Initiative (Technical Assistance), \$5,000

**LAMBERT, JEANNE - QUEENSBOROUGH C. C.****NYS EDUCATION DEPT**

Queens Civic Collaboration of CUNY, \$300,000

**LAPERLA-MORALES, JOANN/ROJAS, ESTELLA - NYC COLLEGE OF TECHNOLOGY****U.S. DEPARTMENT OF EDUCATION**

Developing Hispanic-Serving Institutions, \$419,717

**LAZARIDIS, THEMIS - CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Development of Implicit Solvation Potentials for Biomolecules, \$25,250

**LEASHORE, BOGART – HUNTER COLLEGE****NYC ADMIN FOR CHILDREN'S SERVICES**

MSW Program for ACS Staff, \$106,895

**LEASHORE, BOGART/MALLON, GERALD – HUNTER COLLEGE****RESEARCH FOUNDATION/SUNY**

Development of a Curriculum for a Faculty-Led Advanced Seminar in Field Instruction/Supervision: Implementation of Neighborhood-Based Services, \$55,737

**VARIOUS**

National Resource Center for Permanency Planning, \$24,532

**LEBOVITZ, RUTH – LAGUARDIA C. C.****NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$59,190

**LECCESI-HARRIS DOBORAH – HUNTER COLLEGE****DOD-UNITED STATES ARMY**

Information Technology Computer Training, \$16,800

**LEE, THOMAS – CITY COLLEGE****FREEMAN FOUNDATION**

Strengthening Undergraduate Asian Studies at City College, \$394,017

**LEINER, MARVIN – QUEENS COLLEGE****NYC BOARD OF EDUCATION**

The Queens College and Townsend Harris High School Collaboration, \$227,629

**LENERT, EDWARD – QUEENS COLLEGE****FORD FOUNDATION**

Mapping the Public Interest in Media Policy and Technology, \$64,000

**LEPORE, STEPHEN – BROOKLYN COLLEGE****NIH-NCI**

Training Minorities in Biobehavioral Cancer Research, \$188,750

**LEVINE, ALFRED – COLLEGE OF STATEN ISLAND****INTERSTATE SANITATION**

Environmental Science Program, \$27,000

**LEVINE, CASANDRA – BRONX C. C.****U.S. DEPARTMENT OF EDUCATION**

GEAR-UP Project, \$300,000

**LEVINE, ROBERT – LAGUARDIA C. C.****U.S. DEPARTMENT OF EDUCATION**

LaGuardia/Vassar Upward Bound Program, \$346,244

**LEVINGER, LOUIS – YORK COLLEGE****NIH-NIGMS**

Human Mitochondrial 3' End Processing and Disease, \$39,309

**LEVITT, JONATHAN – CITY COLLEGE****NIH-NEI**

Mechanisms of Visual Context Effects in Visual Cortex, \$204,185

**LEVY, KENNETH – HUNTER COLLEGE****CUNY MISC.**

Clinical Techniques and Processes Related to Outcome in a Manualized Psychotherapy, \$12,000

**INTERNAL PSYCHOANALYTICAL ASSOC**

Adult Attachment and Brain Imaging, \$10,000

**LIANG, ZAI – QUEENS COLLEGE****NATIONAL SCIENCE FOUNDATION**

RUI: China International Migration Project, \$203,896

**NIH-NICHD**

Market Transition and Migration in China, \$106,592

China International Migration Project, \$220,101

**LIAW, BEEN-MING – CITY COLLEGE****NASA**

Ultrasonic Assessment of Impact Induced Damage and Microcracking in Polymer Matrix Composites, \$100,000

**LIN, YI-CHUN TRICIA – BOROUGH OF MANHATTAN C. C.****NATIONAL ENDOWMENT FOR HUMANITIES**

Remapping the Other: Cultural Translation in Asian-Pacific and Caribbean America, \$24,000

**LIPKE, PETER – HUNTER COLLEGE****NIH-NIGMS**

MARC Program, \$509,574

Score Program, \$2,876,129

**LIPPER, DONNA/SHIRVANI, HAMID – QUEENS COLLEGE****CUNY MISC.**

President's Office, \$61,390

**LIPSKY, DOROTHY – GRADUATE SCHOOL****NYC BOARD OF EDUCATION**

Adult and Mature Workers Training Program Skills Enhancement Centers, \$108,388

**LLEWELLYN, ADRIAN – CITY COLLEGE****HRSA-FIVISION OF NURSING**

Bureau of Health Professionals: Health Career Opportunity Program, \$309,795

**LOMBARDI, JOHN – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**United States-Turkey Cooperative Research: Investigation of Electro-Optic Properties of Molecular Aggregates by Stark Spectroscopy, \$18,740  
Raman Spectroscopy of Mass Selected Metal Clusters, \$141,544**LONGO, PAUL – QUEENS COLLEGE****NYC BOARD OF EDUCATION**

CSD25 Collaboration, \$20,015

**LUINE, VICTORIA – HUNTER COLLEGE****NIH-NIGMS**

MBRS/Rise at Hunter College, \$717,456

**LUINE, VICTORIA/BOWMAN, RACHEL – HUNTER COLLEGE****NIH-NIMH**

Chronic Stress Effects on Female Rats, \$22,862

**LUINE, VICTORIA/BRADSHAW, AMBER – HUNTER COLLEGE****NIH-NIGMS**

Examining Pacing Behavior in Female Mice, \$22,036

**LUNDEEN, ELEANOR/FREDERICKSON, KEVILLE – LEHMAN COLLEGE****U.S. HUD**

The Hispanic Serving Institution Assisting Communities Project, \$210,952

**LUNNEY, MARGARET – COLLEGE OF STATEN ISLAND****HRSA-DIVISION OF NURSING**

Advanced Nurse Education Program, \$242,963

**LUXTON-GOURGEY, KAREN – BARUCH COLLEGE****ALLENE REUSS MEMORIAL TRUST**

Training, Employment and Development Project, \$50,000

**VARIOUS**

Visually Impaired Professional (VIP) Career Network Program, \$49,224

**MACARI, EMMA/YANG, CATHERINE – OFFICE OF VC FOR FACILITIES PLANNING/CONSTRUCTION & MANAGEMENT****CUNY MISC.**

CUNY Construction Fund, \$1,226,031

**NY'S DORMITORY AUTHORITY**

Design Intern to Assist in Elementary Architectural Work, \$47,524

Condition Assessment Program (CUNY-Wide) to Assist in Elementary Architectural Work, \$47,524

Sophie Davis Biomedical Education Project, \$70,460

B. Altman Project, \$73,278

Marshak Buliding Rehabilitation Project, \$114,733

**MACKENZIE, BARBARA – GRADUATE SCHOOL****VARIOUS**

Giovanni Battista Pergolesi Complete Works: A Critical Edition of his Compositions, \$18,226

The Rilm Abstract, \$148,559

**MACKENZIE, BARBARA/DAY, KRISTINE – GRADUATE SCHOOL****VARIOUS**

The Rilm Abstract of Music Literacy, \$627,000

**MACKILLOP, JANE – CITY COLLEGE****NYS EDUCATION DEPT**

Adult and Continuing Education Program, \$196,000

**MACKILLOP, JANE – CITY COLLEGE****NYS EDUCATION DEPT**

ESL Computer Program, \$138,506

**MACMILLAN, NEIL – BROOKLYN COLLEGE****PSYCHONOMIC SOCIETY, INC.**

Editor – Elect Perception and Psychophysics Journal Publications, \$30,178

**MACNEIL, MARGARET – YORK COLLEGE****DOD-UNITED STATES AIR FORCE**

Physiology Software, Peripheral Devices and Computers for New Upper Division Biology Course in Animal Physiology, \$53,240

**MAGDALENO, JOSE – LEHMAN COLLEGE****LEHMAN COLLEGE ASSOCIATION**

Student Health Care Center, \$129,792

**U.S. DEPARTMENT OF EDUCATION**

Lehman College Child Care Center, \$94,100

**MAGLIOZZO, RICHARD – BROOKLYN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Acquisition of an Electron Paramagnetic Resonance Spectrometer for Use in Research, Undergraduate and Graduate Curricula at Brooklyn College, \$181,180

**NEW YORK COMMUNITY TRUST**

A Postdoctoral Fellowship Program, \$37,500

**NIH-NIAID**

Catalase-Peroxidase Catalysis in Antibiotic Activation, \$206,941

**MAIN, THOMAS – BARUCH COLLEGE****RESEARCH FOUNDATION/SUNY**

Bridge IX Work Now V, \$29,754

**MAKSE, HERNAN – CITY COLLEGE****AMERICAN CHEMICAL SOCIETY**

Avalanche Segregation in Granular Flows, \$25,000

**MALDARELLI, CHARLES – CITY COLLEGE****NASA**

Using Remobilized Surfactants to Enhance the Thermocapillary Migration of Bubbles Retarded by the Absorption of Surfactant Impurities, \$72,931

**MALLON, GERALD – HUNTER COLLEGE****CASEY FAMILY PROGRAMS**

Resources Family Project, \$38,119

**CHILD WELFARE FUND**

Immigrants And Child Welfare, \$25,000

**NYC ADMIN FOR CHILDREN'S SERVICES**

Permanency for Adolescents Training and Technical Assistance Project, \$285,514

**NYS OCFs**

Independent Living Network Training and Technical Assistant, \$359,975

**MALLON, GERALD/LEASHORE, BOGART – HUNTER COLLEGE****CHILD WELFARE LEAGUE OF AMERICA INC.**

Permanency Practice Strategic Action Planning Forum to Provide Planning and Implementation for 2 Permanency Practice Strategic Action Planning Forums in California, Illinois, and Washington DC, \$15,876

**DHHS/OASH**

National Resource Center for Foster Care and Permanency Planning, \$800,000

**FAIRFAX COUNTY BOARD OF SUPERVISORS**

Consultation and Technical Assistance in Implementing Concurrent Planning within the Department of Family Services Foster Care System, \$11,319

**MALLON, GERALD/SCHAFFER, IRENE – HUNTER COLLEGE****HITE FOUNDATION**

Hite Fellowship Program, \$37,397

**MANES, JOAN – NYC COLLEGE OF TECHNOLOGY****NYS EDUCATION DEPT**

Wia Title II Funding El/Civics, \$331,716

**MANTSIOS, GREGORY – QUEENS COLLEGE****NY CITY COUNCIL**

Labor Resources, \$50,000

**VARIOUS**

Labor Resource and Worker Education, \$28,673

**MARCUM, JAMES – COLLEGE OF STATEN ISLAND****NYS EDUCATION DEPT**

Library Collection Aid: Coordinated Collection Development Aid, \$13,987

**MARCUS, MICHAEL/ROSEN, JAY – CITY COLLEGE/COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

Research in Stochastic Processes, \$126,000

**MARKOWITZ, GERALD – JOHN JAY COLLEGE****COLUMBIA UNIVERSITY**

Research in Environmental and Occupational Health, \$24,000

**MARKOWITZ, STEVEN – QUEENS COLLEGE****MOUNT SINAI SCHOOL OF MEDICINE**

Growing up Healthy in East Harlem, \$20,238

**NEW YORK COMMUNITY TRUST**

The Deposition and Accumulation of Polychlorinated Biphenyls (PCBs) in New York Watersheds, \$100,000  
Monitoring the Health of Day Laborers Engaged in Clean-Up Near Ground Zero, \$200,407

**PAPER, ALLIED-INDUSTRIAL, CHEMICAL & ENERGY WORKERS****INTERNATIONAL UNION**

Medical Surveillance of Former Workers at the Idaho National Engineering and Laboratory Implementation Phase, \$266,263  
Medical Surveillance of Former & Current Workers at the Gaseous Diffusion Plants of the Department of Energy, \$5,165,390

**RESEARCH FOUNDATION/SUNY**

Air Quality and Asthma in the New York Metropolitan Area: Design and Implementation of a Community-Based Air Pollution Monitoring Program, \$435,463

**MARTIN, ANGELA – JOHN JAY COLLEGE****CUNY MISC.**

Financial Aid, \$63,387

**MARTINEZ, HERMINIO – LEHMAN COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Project Intelligence: Bilingual Education, \$250,000  
Project Stellar, \$250,000

**MARTINSONS, BARBARA – GRADUATE SCHOOL****VARIOUS**

College and Community Fellowship Program, \$97,212

**MARTOHARDJONO, GITA/KESSLER, KATHY – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

Doctoral Dissertation Research: ERP Correlates of Morphosyntactic and Word Order Phenomena in Adult Native Speakers and L2, \$17,848

**MARTON, KLARA – BROOKLYN COLLEGE****NIH-NIDCD**

Working Memory Capacity in Children with SLI, \$75,500

**MATSUI, HIROSHI – HUNTER COLLEGE****NATIONAL SCIENCE FOUNDATION**

Career: Economical and Simple Fabrication of Quantum Dot-Electronics Using Biofunctionalized Protein Nanotubes as Building Blocks, \$354,072

**U.S. DEPARTMENT OF ENERGY**

Protein Nanotube-Based Electronics: Nano Hybrid Self-Assembly Using Biological Recognition, \$300,000

**MATTHEWS, ROBERTA – BROOKLYN COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Strengthening Institutions Program, \$350,000

**MAUE, DYANNE – QUEENS COLLEGE****CUNY MISC.**

Adult and Continuing Education: Design Graphics, \$13,768

**MAYER, EGON – GRADUATE SCHOOL****CUNY MISC.**

Center for Jewish Studies: Director-Employee Salaries, \$68,950

**MCCARTHY, KATHLEEN/KESSLER, T./MILLER, E. – GRADUATE SCHOOL****FORD FOUNDATION**

Patterns of Giving in Communities of Color and Among Women, \$200,000

**MCCARTHY, KATHLEEN/MILLER, EUGENE – GRADUATE SCHOOL****CUNY MISC.**

Center for the Study of Philanthropy, \$181,491

**MCCORMICK, LYNN – HUNTER COLLEGE****NEW SCHOOL UNIVERSITY**

New Immigrants in New York City, \$10,000

**MCGOVERN, THOMAS – HUNTER COLLEGE****NYC DEPT. OF CITYWIDE ADMINISTRATIVE SERVICES**

Anthropology: City Hall Park Artifacts, \$52,400

**UNIVERSITY OF ABERDEEN**

Landscares Circum Landnam: Viking Settlement in the North Atlantic and its Human and Ecological Consequences, \$184,884

<b>MCHUGH, CECILIA – QUEENS COLLEGE</b> <b>HUDSON RIVER FOUNDATION</b> Assessing the Natural Hazard for the Lower Hudson River Region, \$71,439	<b>MIRRER, LOUISE/HOTZLER, RUSSELL – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>KEYSPAN FOUNDATION</b> Teaching Opportunity Program (TOP), \$25,000
<b>MCKENNA, HAROLD – CITY COLLEGE</b> <b>NYS EDUCATION DEPT</b> Science and Technology Entry Program (STEP)-2002, \$54,073	<b>MIRRER, LOUISE/MICHELLI, NICHOLAS – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>DEWITT WALLACE READER'S DIGEST FUND</b> The "Ventures In Leadership" Program, \$50,000
<b>MCSORLEY, KATHLEEN – BROOKLYN COLLEGE</b> <b>NYS EDUCATION DEPT</b> IDEA, Part B, \$25,000	<b>HENRY LUCE FOUNDATION</b> Teaching Opportunity Program (TOP), \$250,000
<b>MELIKIAN, YELENA/ROMEO, DIANE – NYC COLLEGE OF TECHNOLOGY</b> <b>NYC HEALTH &amp; HOSPITALS CORPORATION</b> Provide Medical Record Keeping Training, \$90,747	<b>J. P. MORGAN FOUNDATION</b> Teaching Opportunity Program (TOP): Scholarship Support to Students with Good Academic Records to Pursue Careers in Education to meet Demand for Qualified Teachers, \$50,000
<b>NYC/DOITT</b> Authorized Sun Educational Center (ASEC) Institution in Java and Solaris, \$73,350	<b>VIVENDI UNIVERSAL</b> Teacher Opportunity Program (TOP), \$50,000
<b>SPRINGFIELD TECHNICAL COMM COLLEGE</b> Stipend for Faculty Development and Curriculum Development Costs, \$14,076	<b>MIRRER, LOUISE/OTTE, GEORGE – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>SLOAN, ALFRED P. FOUNDATION</b> CUNY Online's Faculty and Course Development, \$659,054
<b>MENZI, DONALD – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS</b> <b>CONSORTIUM FOR WORKER EDUCATION</b> To Operate an Individual Training Account (ITA) Program for Eligible WIA, \$1,507,850	<b>MIRRER, LOUISE/PTACHIK, ROBERT – GRADUATE SCHOOL</b> <b>CUNY MISC.</b> Flagship Environment Support, \$500,000
<b>UMEZ</b> Technical Assistance Initiative for Small Business, Nonprofit, and Other Organizations, \$26,146	<b>MIRRER, LOUISE/SCHOR, LAURA – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>ANDREW MELLON FOUNDATION</b> CUNY Honors Program, \$2,500,422
<b>MEYER, MARY ANNE – QUEENSBOROUGH C. C.</b> <b>NYS EDUCATION DEPT</b> Vocational and Applied Technology Education Act (VATEA): Technical Preparation Project, \$180,000	<b>MIRRER, LOUISE/SLATER, MORTON – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>FAIRCHILD</b> Support Gateway Institute for Pre-College Education, \$288,237
<b>MEYER, MARY ANNE/KAHN, ROBERT – QUEENSBOROUGH C. C.</b> <b>CUNY MISC.</b> Tech-Prep Matching Account, \$20,000	<b>MIRRER, LOUISE/TSEGAYE, MAHLET – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>NEW YORK COMMUNITY TRUST</b> Study/Travel Opportunities for CUNY Students (STOCS) Project: Outreach, Support, and Scholarships to Enable 150 Students at City University Colleges to attend Study Programs abroad in Summer 2002 and Academic Year 2002/2003, \$120,000
<b>MICHELLI, NICHOLAS – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS</b> <b>NYC BOARD OF EDUCATION</b> New York City Teaching Fellows Program, \$6,666,026	<b>MISHRA, BHUBANESWAR/PARIKH, ROHIT – BROOKLYN COLLEGE</b> <b>NATIONAL SCIENCE FOUNDATION</b> Knowledge and Distributed Intelligence in the Information Age (KDI), \$183,270
<b>NEW YORK COMMUNITY TRUST</b> Teaching Opportunity Program (TOP), \$50,000	<b>MOGULESCU, JOHN – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS</b> <b>ALLIANCE</b> Operation of Alliance Career Center, \$25,446
<b>MICHELLI, NICHOLAS/ASHER, CARLA – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>OTHER FEDERAL</b> Americorps Education Awards Program (EAP), \$600,000	<b>INDEPENDENCE COMMUNITY FOUNDATION</b> Consortium for Pre-Collegiate Arts Education, \$200,000
<b>MICHELS, CORINNE – QUEENS COLLEGE</b> <b>NIH-NIGMS</b> Maltose Sensing/Signaling Mechanisms in Saccharomyces, \$308,000	<b>NYC FAMILY INDEPENDENCE ADMIN.-HRA</b> Safety Net Job Placement and Retention, \$18,600
<b>MILLS, PAMELA/SWEENEY, WILLIAM – HUNTER COLLEGE</b> <b>CUNY MISC.</b> Using Writing Across the Curriculum: Techniques to Improve Scientific Literacy Among Science Students, \$21,000	<b>NYC HUMAN RESOURCES ADMINISTRATION</b> Rewarding Youth Achievement Program, \$46,236
<b>MIRKIN, MICHAEL/RO滕ENBERG, SUSAN – QUEENS COLLEGE</b> <b>NATIONAL SCIENCE FOUNDATION</b> US-Japan Cooperative Study: Study of Charge-Transfer Coupling Dynamics in Liquid-Liquid Two-Phase Microparticles, \$28,500	Information Technology Specialists/Information Technology Internship Program, \$799,000 Perfect Opportunity for Individual Skills and Education Development – a Program for Pregnant TANF Participants, \$1,389,590
<b>MIRRER, LOUISE – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS</b> <b>GREENWALL FOUNDATION</b> Teaching Opportunity Program, \$50,000	Begin Language Program, \$3,004,335 Employment Assessment Project, \$3,305,567
<b>JEWISH FOUNDATION FOR ED OF WOMEN</b> Teaching Opportunity Program (TOP), \$100,000	<b>NYC OFFICE OF THE MAYOR</b> Adult Literacy Program, \$3,025,038
<b>MIRRER, LOUISE/ALFANO, ROBERT – CITY COLLEGE</b> <b>NYS SCIENCE AND TECHNOLOGY FDN.</b> CAT Development Program – Nanoscale Biomedical and Laser Photonic Materials, \$511,009	<b>NYC/DYCD</b> Family Development Training and Credentializing Program, \$160,580
<b>MIRRER, LOUISE/BROWN, TED – OFFICE OF EXEC. VC</b> <b>FOR ACADEMIC AFFAIRS</b> <b>NEW YORK WORK ALLIANCE</b> CUNY Institute for Software Design and Development at the Graduate School and University Center, \$662,340	<b>NYS EDUCATION DEPT</b> Adult Literacy, \$690,336 Workforce Investment Act (WIA), \$3,555,565
	<b>NYS HIGHER ED SVCS CORPORATION</b> Gaining Early Awareness and Readiness for Undergraduate Programs, \$200,000 HESC – GEAR UP "College For Me", \$1,026,736
	<b>UNITED WAY</b> To Establish Two Pilot "College Now" Learning Centers in Bushwick High School And Adlai Stevenson High School, \$110,434
	<b>MOGULESCU, JOHN/BROWN, TED – OFFICE OF THE CHANCELLOR</b> <b>MCGRAW HILL COMPANIES</b> Herbert H. Lehman College Foundation, \$19,000
	<b>NETLOGIC, INC.</b> Software Development, \$10,000

**MOGULESCU, JOHN/DOUGLAS, DEBORAH – OFFICE OF EXEC. VC****FOR ACADEMIC AFFAIRS****NYC HUMAN RESOURCES ADMINISTRATION**

The College Opportunity to Prepare for Employment, \$3,616,623

**MOGULESCU, JOHN/EBENSTEIN, WILLIAM – OFFICE OF EXEC. VC****FOR ACADEMIC AFFAIRS****CUNY MISC.**

John Fitzgerald Kennedy (JFK) Institute, \$500,000

**MOGULESCU, JOHN/PETERSON, BRIAN – OFFICE OF EXEC. VC****FOR ACADEMIC AFFAIRS****NYC HUMAN RESOURCES ADMINISTRATION**

Human Resources Administration (HRA) and City University of New York (CUNY) Project, \$1,956,032

Professional Training Academy, \$3,309,606

**MOLINA, CARLOS – HOSTOS C. C.****NYS EDUCATION DEPT**

Liberty Partnership Program 2001, \$195,861

**MOLLENKOPF, JOHN – GRADUATE SCHOOL****CUNY MISC.**

Second Generation Project, \$89,000

**MOODY, HARRY – HUNTER COLLEGE****ROBERT WOOD JOHNSON FOUNDATION**

Institute for Human Values in Aging, \$61,145

**MOOTOO, DAVID – HUNTER COLLEGE****NIH-NIGMS**

Synthesis of Stable Galacto Disaccharide Mimetics, \$284,936

**MORRIS, ANNE – BARUCH COLLEGE****CUNY MISC.**

Center for Logistics and Transportation, \$20,000

**MOSHOYANNIS, THALIA – GRADUATE SCHOOL****NYC BOARD OF EDUCATION**

Paraprofessional Academy, \$81,000

Training Program for Crisis Management Paraprofessionals, \$124,849

**MOUSKOS, KYRIACOS – CITY COLLEGE****NEW JERSEY INSTITUTE OF TECHNOLOGY**

Transportation Information and Decision Engineering Center, \$49,949

**MOVASSEGHI, DARIUS/NAGARKATTE, UMESH – MEDGAR EVERES COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Improving Mathematics Instruction by Extending the Reform Calculus Approach, \$147,222

**MOY, JOYCE – LAGUARDIA C. C.****STATE UNIV OF NEW YORK-ALBANY**

The New York State Small Business Development Center, \$250,000

**MULLER, LAWRENCE – LAGUARDIA C. C.****NATIONAL SCIENCE FOUNDATION**

LaGuardia New Media Technologies Curriculum and Professional Development Adaptation and Implementation Project, \$199,935

**MUSICUS, JOSEPH – KINGSBOROUGH C. C.****NYC CITY COUNCIL**

Alcohol and Substance Abuse Prevention, \$250,000

**NYS DEPARTMENT OF HEALTH**

Health Support Staff/ Management Computer Training, \$30,898

**NYS EDUCATION DEPT**

Liberty Partnership Program, \$232,500

Carl D. Perkins Vocational and Technical Education, \$771,085

**MUSICUS, JOSEPH/CORRENTI, WILLIAM – KINGSBOROUGH C. C.****CUNY MISC.**

Kingsborough Community College Association, \$389,052

**MUSICUS, JOSEPH/FUHR, MORTON – KINGSBOROUGH C. C.****GREENTREE FOUNDATION**

After School Tutorial Program, \$200,000

**NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP): To Encourage High School Students to Participate in Science and Technology Programs, \$34,346

**SUMITOMO BANK GLOBAL FDN, INC.**

After School Tutorial Program, \$16,000

**MUSICUS, JOSEPH/PERO, LAWRENCE – KINGSBOROUGH C. C.****NYC BOARD OF EDUCATION**

Tutoring Services for Students in Brooklyn High Schools, \$20,000

**NAIDER, FRED – COLLEGE OF STATEN ISLAND****MEDIWOUND LTD.**

Debriding – The Removal of Damaged Tissue Prior to the Application of Medication or Grafts for Burn Treatment, \$44,877

Analysis and Characterization of Enzyme Components of Pineapple Extracts, \$48,064

**NIH-NIGMS**

Peptide Cell Interactions, \$335,425

**NAIR, PARAMESWARAN – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Gauge Theories at Zero and Nonzero Temperatures, \$39,000

**NAPLES, BRUCE – QUEENSBOROUGH C. C.****CUNY MISC.**

Webmaster, \$21,945

**NAPPER, JEAN – BRONX C. C.****NYS EDUCATION DEPT**

WIA-Title 2-ESOL, \$298,893

English Language Instruction Program (ELI), \$500,000

**NATHANSON, MELVYN – LEHMAN COLLEGE****DOD-NATIONAL SECURITY AGENCY**

Additive Number Theory, \$32,120

**NEUJAHR, JAMES/HALL, CAMILLE – CITY COLLEGE****NYC BOARD OF EDUCATION**

Middle School Mathematics and Science Technology Program, \$95,187

**NEWMAN, MICHAEL – QUEENS COLLEGE****SOCIOLOGICAL INITIATIVE FOUNDATION**

Language Variation in a New York Secondary School, \$19,663

**NGUYEN, TROUTNG-THAO – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Algebraic Properties of NTH Order Sigma-Delta Modulators, \$99,177

**NOKES, KATHLEEN – HUNTER COLLEGE****HELENE FULD HEALTH TRUST**

Building Community Partnerships Through Service-Learning, \$100,000

**NOMIKOS, JIM – HUNTER COLLEGE****CUNY MISC.**

Census Collaboration, \$57,711

**NORWOOD, CHRIS – BRONX C. C.****INSTITUTE FOR URBAN FAMILY HEALTH**

Bronx Reach 2010 Demonstration Project, \$13,729

**MHRA**

Interventions for Tobacco Control in the Community, \$10,000

HIV Prevention Program, \$38,900

Women &amp; Men Against Aids, \$100,000

Access to Care, \$154,500

Women &amp; Men Against Aids, \$200,000

Custody Planning &amp; Transitional Supports, \$243,788

Family Centered Harm Reduction, \$255,849

Harm Reduction Recovery Readiness, \$311,112

**MONTEFIORE MEDICAL CENTER**

A Model of Community Outreach to Reduce Disparities in Cardiovascular and Diabetic Morbidity and Mortality in the South Bronx, \$47,500

**NAT'L DEV'L AND RESEARCH INST, INC.**

Peer Mentors for Early Adolescents, \$171,602

**NYC DEPARTMENT OF HEALTH**

Promote or Provide Public Health Programs to Reduce the Incidents of Aids and HIV Infection, \$168,025

Health Force: New York City Childhood Asthma Initiative, \$235,000

**NYS DEPARTMENT OF HEALTH**

Health Force-Aids Institute: The South Bronx Diabetes and Heart Disease Coalition, \$53,000

**NYS/OASAS**

Aids Outreach Program – La Familia Unida (AOP), \$265,917

Center For Substance Abuse Prevention- Phase II: Relief for World Trade Center Disaster and Recovery, \$12,000

**POSTGRADUATE CTR. FOR MENTAL HEALTH**

Federal Housing Opportunities for Persons with Aids Program (HOPWA), \$79,853

**VARIOUS**

Children's Mentoring Program, \$10,000

Healthforce: Women Against Aids, \$15,932

**NWOKE, GODFREY – NYC COLLEGE OF TECHNOLOGY****HOFSTRA UNIVERSITY**

NYSCATE: New York State Curriculum for Advanced Technological Education, \$103,883

**NYC BOARD OF EDUCATION**

Substitute Vocational Assistant Program, \$47,475

**NYS EDUCATION DEPT**

Teacher Opportunity Corps (TOC), \$42,738

**OATES, JOHN – HUNTER COLLEGE****CONSERVATION INT'L**

Biodiversity Conservation in the Gulf of Guinea Forests, \$22,500

**OGUNUSI, JAMES/HANSON, JACINTH – NYC COLLEGE OF TECHNOLOGY****NYS EDUCATION DEPT**

SUNY Brooklyn Educational Opportunity Center, \$153,675

**OLIVER, THOMAS – MEDGAR EVERS COLLEGE****AFTER-SCHOOL CORPORATION**

After School Program at Public School 181, \$280,000

**CUNY MISC.**

Ace Operations, \$65,000

**NYS DEPARTMENT OF LABOR**

Progressive Adolescent Vocational Exploration Program (PAVE) – Assisting Economically Disadvantaged Youth in Defining and Clarifying their Career and Educational Goals, \$144,194

**NYC/DYCD**

Youth Development Initiative Project, \$89,538

Beacon School Program, \$398,000

Beacon School Program, \$433,000

**NYS EDUCATION DEPT**

English Language/Civics Education, \$299,922

Science and Technology Entry Program (STEP), \$79,250

Home Health Aide Program, \$16,610

**U.S. DEPARTMENT OF EDUCATION**

Central Brooklyn Gear Up Partnership, \$491,302

**OLIVER, THOMAS/HEUSNER, WARREN – MEDGAR EVERS COLLEGE****NCAA**

2001 National Youth Sport Program, \$82,500

**OLIVER, THOMAS/KANTEE, JULLY – MEDGAR EVERS COLLEGE****NYS DEPARTMENT OF FAMILY ASSISTANCE**

Advantage After-School Program – Better Utilization of Teen Activities (BUTA), \$56,250

**OLIVER, THOMAS/REID, JULIANNE – MEDGAR EVERS COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Student Support Services at Medgar Evers College of CUNY, \$249,208

**O'NEILL, JOHN – HUNTER COLLEGE****MOUNT SINAI HOSPITAL**

NIDRR Research and Training Center, \$30,512

**NYS/OASAS**

Work Study Specialization in Chemistry, \$273,770

**U.S. DEPARTMENT OF EDUCATION**

Long-Term Training in Rehabilitation Counseling, \$99,999

**VARIOUS**

Training for Professional Staff, \$72,188

**O'NEILL, JUNE – BARUCH COLLEGE****MANHATTAN INSTITUTE FOR POLICY RESEARCH INC.**

Gaining Ground? Measuring the Impact of America's Welfare Revolution, \$14,313

**RESEARCH FOUNDATION/SUNY**

Bridge IX Work Now V, \$61,900

**O'REILLY, LILLIAN/BELTON, ELLEN – BROOKLYN COLLEGE****CUNY MISC.**

Adult Literacy Education – Adult Learning Center, \$384,000

**OSLEEB, JEFFREY/KLEIN, YEHUDA – HUNTER COLLEGE****U.S. DEPARTMENT OF DEFENSE**

Research Graduate Student Internships, \$79,599

**OSTROW, RONA – LEHMAN COLLEGE****NYS EDUCATION DEPT**

Library Collection Aid, \$11,759

**OTHEGUY, RICARDO/ZENTELLA, ANA CELIA – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

The Interaction of Language and Dialect Contact: Variable Expression of Spanish Subject Pronouns in Six Spanish Dialects, \$45,380

**p****PAASWELL, ROBERT – CITY COLLEGE****DOT/NHTSA**

University Transportation Research Center – Technology Transfer, \$1,012,169

**NEW JERSEY DEPT OF TRANSPORTATION**

New Jersey Department of Transportation (NJDOT) Consortium, \$349,292

**NYS DEPARTMENT OF TRANSPORTATION**

University Transportation Research Consortium, \$259,999

**PAASWELL, ROBERT/FALCOCCHIO, JOHN – CITY COLLEGE****US DOT/NHTSA**

What Impact Will Future Freight Transportation Needs Have on the New York City Interstate and Truck Route System? (Phase 2), \$63,784

**PADNOS, MARK/SKURDENIS, JULIANN – BRONX C. C.****NYS EDUCATION DEPT**

Library Collection Aid, \$10,249

**PAGAN-UBIDES, MYRNA – BRONX C. C.****U.S. DEPARTMENT OF EDUCATION**

Student Support Services, \$529,460

**PAN, VICTOR – LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Synthesis of Algebraic and Numerical Algorithms, \$33,946

**PAPA, ZULLY – HUNTER COLLEGE****CUNY MISC.**

Child Care Center, \$17,900

**PARKER, NEVILLE – CITY COLLEGE****NASA**

Cooperative Research &amp; Educational Program: Institute on Climate and Planets, \$199,197

**RUTGERS UNIVERSITY**

Life Cycle Cost Analysis Guidelines, \$50,000

**SOUTH CAROLINA UNIVERSITY**

2002 Summer Transportation Institute, \$41,153

**UNIVERSITY OF ALABAMA IN BIRMINGHAM**

Great Cities Universities Transportation Initiative: Hybrid-Electric Transit Buses – Challenges and Implications for full Implementation, \$100,297

Great Cities University Transportation Initiative Task 008 Maintenance and Management of Transit Infrastructure, \$64,997

**PARKER, NEVILLE/L. JOHNSON/L. SQUITIERRI – OFFICE OF THE CHANCELLOR****NATIONAL SCIENCE FOUNDATION**

AMP: New York City Alliance for Minority Participation, \$1,000,000

**PARRA, MERRILL/MATTHEWS, TERRY – QUEENSBOROUGH C. C.****U.S. DEPARTMENT OF EDUCATION**

Project Bridge IV: A Support Service Program for Students with Disabilities, Both On-Campus and Homebound, \$316,740

**PARSONS, JEFFREY – HUNTER COLLEGE****MOUNT SINAI SCHOOL OF MEDICINE**

Cognitive Behavior Risk Reduction Treatment, \$92,127

Pharmacotherapy of Sexually Compulsive Men who Have Sex with Men, \$233,735

**NEW JERSEY CITY UNIVERSITY**

Behavioral Intervention Research Continuation, \$45,346

**NEW YORK UNIVERSITY**

Protease Inhibitor Adherence Among Drug Users, \$39,486

Club Drug Use and Men's Health, \$11,094

**NIH-NIAAA**

Secondary Prevention Among HIV Positive Alcohol Abusers, \$323,288

Adherence Intervention for HIV, \$837,700

**PATTERSON, M'SHELL/KAHN, ARLENE – LAGUARDIA C. C.**  
**U.S. DEPARTMENT OF EDUCATION**  
Gaining Early Awareness and Readiness for Undergraduate Programs, \$1,519,988

**PATTI, JANET – HUNTER COLLEGE**  
**NYS EDUCATION DEPT**  
The School Leader's Center for Change and Renewal (DDE), \$130,000  
**VARIOUS**  
Conference: Safe Schools, Safe Youth, \$22,233

**PATTI, JANET/KNOLL, MARCIA – HUNTER COLLEGE**  
**NEW LEADERS FOR NEW SCHOOLS**  
Principal Preparation Program: Training of Prospective School Administrators, \$82,167

**PAUL, MICHAEL – LEHMAN COLLEGE**  
**CITIBANK**  
Citigroup, \$13,000  
**HOSPITAL LEAGUE/1199**  
Health Care, \$423,855  
**RESEARCH FOUNDATION/SUNY**  
Self-Employment Assistance Program Counseling and Training, \$51,690  
The New York State Small Business Development Center, \$332,702

**PAVLOVSKAYA, MARIANNA – HUNTER COLLEGE**  
**NATIONAL RESEARCH COUNCIL**  
Housing, Multiple Economies and Urban Change: A Case Study of Three Neighborhoods in New York City, \$55,000

**PEARSALL, BETTY – QUEENS COLLEGE**  
**CUNY MISC.**  
Child Development Center-Part Time, \$17,991  
Child Development Center-Full Time, \$113,263

**PEDRAZA, PEDRO/DEJESUS, JOSE – HUNTER COLLEGE**  
**ROCKEFELLER FOUNDATION**  
National Latino/A Education Research Agenda Project, \$100,000

**PENROD, STEVEN – JOHN JAY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
A Continuing Empirical Analysis of the Admissibility of Expert Testimony: Investigating the Effects of Kumho Tire vs. Carmichael, \$55,468  
Risk Management and Juries: How Jurors React to Cost-Benefit Analysis, \$260,000

**PERDIKARIS, SOPHIA/MCGOVERN, THOMAS – BROOKLYN COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Anthropology and Archaeology, \$170,519

**PEREZ, ANTONIO/BRAGG, SADIE – BOROUGH OF MANHATTAN C. C.**  
**VARIOUS**  
Borough of Manhattan Community College – SUNY Educational Opportunity Center, \$111,221

**PEREZ, NELIDA/DEJESUS, JOSE – HUNTER COLLEGE**  
**NHPRC/GSA**  
Puerto Ricans in New York: A Records Processing Project, \$72,621  
**NYS EDUCATION DEPT**  
Documentary Heritage Program, \$12,500

**PERSICO, SEBASTIAN/MANEIRO, FELIX – GRADUATE SCHOOL**  
**VARIOUS**  
Miscellaneous Project Expenses, \$1,864,558

**PESCOW, ANITA – QUEENSBOROUGH C. C.**  
**CUNY MISC.**  
Continuing Education Payroll, \$107,500

**PLAISIR, JEAN – CITY COLLEGE**  
**NYS EDUCATION DEPT**  
Haitian Bilingual Education/ESL Technical Assistance Center (HABETAC), \$266,635  
**NYS/OMRDD**  
Haitian Family Support Services Project, \$37,418

**PLOOG, BERTRAM – COLLEGE OF STATEN ISLAND**  
**CURE AUTISM NOW FOUNDATION**  
Diagnosis and Treatment of Attentional Abnormalities in Children with Autism Using an Automated Multimedia Video Game, \$40,000

**POSAMENTIER, ALFRED – CITY COLLEGE**  
**CUNY MISC.**  
Mathematics Specialist Training Program, \$226,895

**NYC BOARD OF EDUCATION**  
Real World Mathematics Professional Development Services, \$18,000  
Teacher Certification Test Preparation Courses and Services Agreement, \$58,480  
Scholarship Program at City College of CUNY, \$89,540  
Select Programs in Science and Engineering, \$159,885  
The City College Mathematics Project, \$338,500

**NYS EDUCATION DEPT**  
Teacher Opportunity Corps (TOC), \$38,283  
**ROCKLAND TEACHERS**  
Math and Science Teacher Certification, \$330,780

**POSTER, SANDRA/OXTOBY, LILIAN – BOROUGH OF MANHATTAN C. C.**  
**NEW YORK COMMUNITY TRUST**  
Parenting Education Program: Smart Moms, Smart Choices, \$75,000

**POTASEK, MARY/LAX, MELVIN – CITY COLLEGE**  
**DOD-UNITED STATES AIR FORCE**  
Investigations of Optical Limiting Involving Light-Matter Interactions, \$204,192

**PRASAD, GAUTAMA – QUEENS COLLEGE**  
**CUNY MISC.**  
Queens College Miscellaneous, \$93,903  
Queens College Foundation (QCF) Administration, \$126,660

**PRASAD, LORRAINE – QUEENS COLLEGE**  
**CUNY MISC.**  
Property Management, \$63,910

**PRICE, THOMAS – CITY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Career: Micromechanical Model of Undrained Cyclic Soil Behavior, \$160,328

**PSOMIADES, HARRY – QUEENS COLLEGE**  
**CUNY MISC.**  
Byzantine and Modern Greek, \$67,563  
**NY CITY COUNCIL**  
Byzantine and Modern Greek Studies, \$20,000

**PURYEAR, ALVIN/FENTON, CHERYL – BARUCH COLLEGE**  
**RESEARCH FOUNDATION/SUNY**  
New York State Small Business Development Center (SBDC), \$379,836

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**QUINONES, VANYA – HUNTER COLLEGE**  
**NIH-NIMH**  
Career Opportunities in Research Education and Training Program (CORE), \$232,207

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**RAAB, JENNIFER – HUNTER COLLEGE**  
**NIH-NCRR**  
Research Center for the Study of Gene Structure and Function, \$1,467,085

**RACHLIN, JOSEPH – LEHMAN COLLEGE**  
**CITY PARKS FOUNDATION**  
Trophic Dynamics of Bronx River Estuarine Fauna, \$27,140  
Bronx River Restoration, \$28,270  
**NIH-NIGMS**  
MARC U\*Star Program, \$78,873

**RADEL, STANLEY/BALGOR-NAIR/LAKSHAMAN/TASAYCO – CITY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Purchase of a Circular Dichroic Spectrophotometer for Research and Teaching, \$76,873

**RAMIG, KEITH – BARUCH COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
RUI: Stereoselective Synthesis of Isoflurane, \$46,000

**RAMOS, GLORIA – HUNTER COLLEGE**  
**HRSA-DIVISION OF NURSING**  
Scholarship For Disadvantaged Students (SDS), \$54,526

<b>RANDALL, LAURA – HUNTER COLLEGE</b> <b>FORD FOUNDATION</b> Evaluation of Educational Quality Enhancement Programs in Four Latin American Countries: Increasing Learning in Primary Schools in Latin America, \$100,000	<b>RIZVI, SYED – COLLEGE OF STATEN ISLAND</b> <b>DOD-UNITED STATES ARMY</b> A Modular Clutter Rejection Technique for Flir Imagery Using Region-Based Principal Component Analysis, \$37,010
<b>RAPHAN, THEODORE – BROOKLYN COLLEGE</b> <b>BAYLOR COLLEGE OF MEDICINE</b> Advanced Techniques for Assessment of Postural and Locomotor Ataxia Spatial Orientation and Gaze Stability, \$250,076	<b>ROBERTS, LYNN – HUNTER COLLEGE</b> <b>NYC BOARD OF EDUCATION</b> ASCD Health in Education Initiative, \$14,000
<b>NIH-NIDCD</b> Vestibular Mechanisms in The Dynamics of Locomotion, \$343,525	<b>ROBERTS, LYNN/KRAUSS, BEATRICE – HUNTER COLLEGE</b> <b>BRONX LEBANON HOSPITAL</b> A Saturday Program in Urban Public Health, \$14,000
<b>NIH-NEI</b> Multidimensional Dynamics of Vestibulo Ocular Reflex, \$232,479	<b>NYS DEPARTMENT OF HEALTH</b> School Based Initiative, \$95,759
<b>RAPS, SHIRLEY – HUNTER COLLEGE</b> <b>HOWARD HUGHES MEDICAL INSTITUTE</b> Hughes Grant, \$325,000	<b>ROCKWELL, PATRICIA – HUNTER COLLEGE</b> <b>ALZHEIMER'S ASSOC</b> Ubiquitin, Inflammation and Cell Death in Alzheimer's Disease, \$78,934
<b>RAVINDRAN, KALIAPPA – CITY COLLEGE</b> <b>ITT INDUSTRIES</b> Secure Network, \$20,000	<b>RODRIGUEZ, MARIA VICTORIA/ROTHSTEIN, ANNE – LEHMAN COLLEGE</b> <b>U.S. DEPARTMENT OF EDUCATION</b> Para-Educator Pathways to Teaching Careers, \$220,972
<b>RAY, DONALD – JOHN JAY COLLEGE</b> <b>U.S. DEPARTMENT OF EDUCATION</b> Student Support Services Program, \$273,588	<b>RODRIGUEZ, MARIA VICTORIA – LEHMAN COLLEGE</b> <b>SPENCER FOUNDATION</b> Personal Experiences with Literacy of Bilingual Para-Educators, \$35,000
<b>RAY, LOUIS – HUNTER COLLEGE</b> <b>U.S. DEPARTMENT OF EDUCATION</b> Ronald E. McNair Post-Baccalaureate Achievement Project, \$209,811 Student Support Services Project, \$394,860	<b>RODRIGUEZ, CATHERINE – UNAFFILIATED PROJECTS</b> <b>CUNY MISC.</b> Asian-American Higher Education Council, \$27,966
<b>REBER, ARTHUR – BROOKLYN COLLEGE</b> <b>NATIONAL SCIENCE FOUNDATION</b> Fine Tuning The Timing in the Sequential Reaction Time Task, \$106,999	<b>RODRIGUEZ, ESTHER/BLANCH, ALICE – HOSTOS C. C.</b> <b>COLUMBIA UNIVERSITY</b> Serrano Scholars Program, \$330,566
<b>REESE, LINDA – COLLEGE OF STATEN ISLAND</b> <b>HRSA</b> Scholarship for Disadvantaged Students (SDS), \$39,141	<b>NYS EDUCATION DEPT</b> Vocational and Applied Technology Education Act (VATEA): Supporting and Expanding Allied Programs, \$402,101
<b>REID, LESLIE/MCGEE, LYNN – OFFICE OF EXEC. VC FOR ACADEMIC AFFAIRS</b> <b>NYC DEPARTMENT OF EMPLOYMENT</b> Young Adult Learning Academy – Youth Internship Program, \$70,498	<b>ROGERS, WILLIAM – CITY COLLEGE</b> <b>NYS EDUCATION DEPT</b> Liberty Partnerships, \$171,956 Extended Day/School Violence, \$200,000
<b>REISER, DIANE – BROOKLYN COLLEGE</b> <b>AFTER-SCHOOL CORPORATION</b> Brooklyn College Community Partnership for Research and Learning – Bushwick High School After School Advancement Program, \$16,525	<b>ROGOFF, EDWARD/FENTON, CHERYL – BARUCH COLLEGE</b> <b>RESEARCH FOUNDATION/SUNY</b> Small Business Development Center (SBDC) Self Employment Assistance Program (SEAP), \$18,872
<b>RENDON, DIANE – HUNTER COLLEGE</b> <b>HRSA-DIVISION OF NURSING</b> Advanced Education Nursing Traineeships, \$90,344	<b>ROMAN, STANFORD – CITY COLLEGE</b> <b>CUNY MISC.</b> Cellular/Molecular Basis of Development – Research Center, \$450,000
<b>RENDON, DIANE – HUNTER COLLEGE</b> <b>NEW YORK COMMUNITY TRUST</b> Hunter Bellevue Nursing Fund, \$160,000	<b>VARIOUS</b> CUNY Medical School Administrative Support, \$411,857
<b>RESNICK, EILEEN – BRONX C. C.</b> <b>NYC DEPARTMENT FOR THE AGING</b> Project SOS Refugee Program, \$750,953	<b>ROMEO, DIANE – NYC COLLEGE OF TECHNOLOGY</b> <b>VARIOUS</b> Continuing Education Administration, \$49,335
<b>RIBAUDO, MICHAEL – OFFICE OF VC FOR BUDGET &amp; FINANCE</b> <b>CUNY MISC.</b> Open Systems Center, \$10,000	<b>ROMER, NANCY/REISER, DIANE – BROOKLYN COLLEGE</b> <b>AFTER-SCHOOL CORPORATION</b> Brooklyn College Community Partnership for Research and Learning: New Utrecht High School-After School Advancement Program, \$76,229 Brooklyn College Community Partnership for Research and Learning (TASC/DOE), \$116,738
<b>RICHARDSON, KATHRYN – NYC COLLEGE OF TECHNOLOGY</b> <b>HELENE FULD FEALTH TRUST</b> Curriculum and Faculty Development in Community-Based Care, \$98,328	<b>NYC/DYCD</b> Education Support for Youth Leadership and Learning, \$104,593
<b>HRSA-DIVISION OF NURSING</b> Scholarships for Disadvantaged Students (SDS), \$130,029	<b>OTHER FEDERAL</b> Reach for Success: Learn and Serve in Brooklyn, \$125,000
<b>RICHMAN, GERALD – NYC COLLEGE OF TECHNOLOGY</b> <b>CUNY MISC.</b> Financial Aid, \$128,422	<b>ROSA, CHRISTOPHER – QUEENS COLLEGE</b> <b>U.S. DEPARTMENT OF EDUCATION</b> Student Support Services, \$224,267
<b>RINDSKOPF, DAVID/LIVERT, DAVID – GRADUATE SCHOOL</b> <b>BRANDEIS UNIVERSITY</b> Fighting Back, \$98,795	<b>ROSEN, MILTON – BROOKLYN COLLEGE</b> <b>W.R. GRACE &amp; CO.</b> Air Management Project, \$62,000
<b>RITCHIN, BARBARA – QUEENS COLLEGE</b> <b>CUNY MISC.</b> Continuing Education – Part Time, \$174,572 Continuing Education – Full Time, \$1,419,558	<b>ROSENBERG, SETH/ZIMNY, ARLENE – CITY COLLEGE</b> <b>NYS EDUCATION DEPT</b> Comprehensive Development for Uncertified Middle School Science Teachers, \$80,000
	<b>ROSENGARTEN, FRANK – GRADUATE SCHOOL</b> <b>CUNY MISC.</b> Research Group on Socialism and Democracy, \$22,200

**ROSENTHAL, BILL/EDIGER, A./ELDRIDGE, D. – HUNTER COLLEGE****CUNY MISC.**

Professional Development School Project, \$18,000

**ROSENTHAL, BILL – HUNTER COLLEGE****NYS EDUCATION DEPT**

Mathematics Inquiry, Innovation, and Implementation (MI3), \$83,000

**ROTBENBERG, SUSAN – QUEENS COLLEGE****NIH-NIAMS**

Detection of Metastatic Human Breast Cells by SECM, \$77,000

**ROTH, MILLICENT – CITY COLLEGE****NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$180,080

**ROTHBURD, MILTON – JOHN JAY COLLEGE****NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP), \$49,172

**ROTHSTEIN, ANNE – LEHMAN COLLEGE****NASA, MATHEMATICS**

Science, and Technology with Excellence in Research: A Science and Technology Entry Program, \$100,000

**NYC BOARD OF EDUCATION**

Summer Science Institute, \$25,000

**NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP), \$58,077

**U.S. DEPARTMENT OF EDUCATION**

Lehman Urban Teacher Education, \$249,999

Urban Teacher Recruitment: Corridors to Teaching Careers, \$394,812

**ROUSON, DAMIAN – CITY COLLEGE****U.S. DEPARTMENT OF COMMERCE/EDA**

A Novel Model for Boundary Layer Scaler Transport, \$51,122

**ROYE, CAROL – HUNTER COLLEGE****NIH-NINR**

Dual Methods of Protection from Pregnancies and STDS/HIV, \$326,612

**RUIZ, SANDRA/DAVILA, SUSAN – HOSTOS C. C.****U.S. DEPARTMENT OF EDUCATION**

Child Care Access Means Parents in School, \$82,895

**RUMAYOR, SANDRA – BOROUGH OF MANHATTAN C. C.****NYC BOARD OF EDUCATION**

Summer Bridge Program: Summer Academy for Fall 2001 Entering Freshman at Martin Luther King Jr. High School, \$29,982

**NYS EDUCATION DEPT**

Science and Technology Entry Program (STEP), \$62,063

**RUMAYOR, SANDRA/BRAGG, SADIE – BOROUGH OF MANHATTAN C. C.****NYS EDUCATION DEPT**

Continued Development of the Data Tracking System and Support of Student Participation in and Completion of Programs Leading to Employment in Jobs Nontraditional to the Students Gender, \$1,389,016

**RUMAYOR, SANDRA/LAW, JIM – BOROUGH OF MANHATTAN C. C.****U.S. DEPARTMENT OF EDUCATION**

Gaining Early Awareness and Readiness for Undergraduate Programs, \$119,999

**RUMAYOR, SANDRA/LINDSEY, THERESA – BOROUGH OF MANHATTAN C. C.****U.S. DEPARTMENT OF EDUCATION**

Upward Bound Program, \$298,371

**RUMAYOR, SANDRA/RAMIREZ, KIM – BOROUGH OF MANHATTAN C. C.****NYS EDUCATION DEPT**

Liberty Partnerships Program, \$191,500

**RUMAYOR, SANDRA/WONG, ERWIN – BOROUGH OF MANHATTAN C. C.****NYS EDUCATION DEPT**

Collegiate Science and Technology Entry Program (C-STEP), \$41,240

**RUMSCHITZKI, DAVID – CITY COLLEGE****NIH-NHLBI**

Vessel Structure and Pressure: Transport and Therogenesis, \$290,100

**RUMSCHITZKI, DAVID/JAN, KUNG-MING – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

How Vessel Structure and Transmural Pressure Affect Interfacial Transport in Arteries and Valves, \$190,000

**RUSSELL, STEWART/KAWAGUCHI, AKIRA – CITY COLLEGE****BAYER CORP**

Bayer Wireless Blood Glucose Monitor Joint Research Project, \$42,241

**S****SAADAWI, TAREK/LEE, MYUNG – CITY COLLEGE****SUPREME COUNCIL, 33, BENEVOLENT FDN**

Telecordia Consortium: Collaborative Technology Alliance for Communications and Networking (CTA C&amp;N), \$656,000

**SADEGH, ALI – CITY COLLEGE****ALCOA-KEEP**

Senior Design Mechanical Engineering Projects, \$14,000

**SADEGH, ALI/WATKINS, CHARLES – CITY COLLEGE****CROWN EQUIPMENT CORPORATION**

Development of a High-Biofidelity Simulation for Stand-Up Rider Operator Motion During Extreme Dynamic Events, \$50,263

**SAEGERT, SUSAN – GRADUATE SCHOOL****CLINTON SEED FUND**

Evaluate the Physical and Financial State of the Co-Ops and the Extent to Which the Buildings Decision Making Processes are Responsive to Shareholders and Promote Sound Management, \$24,869

**URBAN HOMESTEADING ASSISTANCE BOARD**

Connecting Low-Income Communities to Develop "Digital-Age" Skills, \$12,500

**SAENZ DE VITERI, JORGE – BRONX C. C.****U.S. DEPARTMENT OF EDUCATION**

Child Care Access Means Parents in School, \$124,647

**SALANE, DOUGLAS – JOHN JAY COLLEGE****UNITED NEGRO COLLEGE FUND, INC.**

Computer Clusters to Support Curricular Improvements in Networking Parallel/Distributed Computing, \$84,513

**SALMON, ROBERT – HUNTER COLLEGE****ASSOCIATION OF COMMUNICATION**

Training of Community Resident Staff, \$12,519

**CHARLES FRUEAU**

School of Social Work Project Impact, \$30,000

**NYC HEALTH & HOSPITALS CORPORATION**

Training at Lincoln Hospital, \$24,999

**SALMON, ROBERT/SCHAEFER, IRENE – HUNTER COLLEGE****HELENA RUBENSTEIN FOUNDATION**

Scholarships for MSW Students, \$15,000

**JEWISH FOUNDATION FOR EDUCATION OF WOMEN**

Jewish Foundation Scholarships: Provide 4 Scholarships Per Year, For 3 Years, in the Amount of \$5000; 2 for Single Women Raising at Least 1 Child and 2 for Women Concentrating in Gerontology, \$10,000

**SALMON, ROBERT/UNTERBACH, DAVIDA – HUNTER COLLEGE****PROMESA INC.**

Staff Development Project, \$26,250

**SAMUEL, SYDNEY – JOHN JAY COLLEGE****NYS EDUCATION DEPT**

Dwight D. Eisenhower Local in-Service Training in Mathematics for Elementary School Teachers, \$48,000

**SANCHEZ, GEORGE – BRONX C. C.****RESEARCH FOUNDATION/SUNY**

Public Service Workshops Program, \$31,680

**SANDERS, JAMES/CIACCIO, LEONARD – COLLEGE OF STATEN ISLAND****NYC BOARD OF EDUCATION**

Goals 2000: Project Teach, \$13,309

**NYS EDUCATION DEPT**

Teacher Opportunity Corps (TOC), \$44,405

**U.S. DEPARTMENT OF EDUCATION**

Gaining Early Awareness and Readiness for Undergraduate Programs, \$720,000

**SARACHIK, MYRIAM – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Experimental Studies in High-Spin Molecular Magnets, \$92,000

<b>U.S. DEPARTMENT OF ENERGY</b> Metal-Insulator Transitions in Two and Three Dimensions: Transport and Microwave Studies, \$110,000	<b>VARIOUS</b> Division of Continuing Education's Research Development Programs and Taxi Institute Program, \$1,704,346
<b>SARACHIK, MYRIAM/VITKALOV, SERGEY – CITY COLLEGE</b> <b>NATIONAL SCIENCE FOUNDATION</b> Collaborative Research: Study of Novel Phases in Two Dimensional Electron Systems in High Magnetic Fields and Low Temperature, \$208,519	<b>SCHULMAN, JANE/GILBERTO, LINDA – LAGUARDIA C. C.</b> <b>NYC HUMAN RESOURCES ADMINISTRATION</b> Employment Services and Placement Consortium – Central Services, \$2,027,372
<b>SARAVIA-SHORE, MARIETTA – LEHMAN COLLEGE</b> <b>VARIOUS</b> GEAR-UP Power Point: Program Income Account, \$74,660	<b>SCHULZ, HORST – CITY COLLEGE</b> <b>CV THERAPEUTICS, INC.</b> Ranolazine Mechanistic Studies, \$17,500
<b>W. K. KELLOGG FOUNDATION</b> Engaging Latino Communities for Education Initiative, \$400,000	<b>NIH-NHLBI</b> Metabolism of Unsaturated and Hydroxy Fatty Acids, \$271,250
<b>SAUNDERS, WILFORD – LAGUARDIA C. C.</b> <b>NYS EDUCATION DEPT</b> Workplace Literacy, \$38,792	<b>SCHWARTZ, BRIAN – GRADUATE SCHOOL</b> <b>NATIONAL SCIENCE FOUNDATION</b> A Symposium Associated with the Opening of the Play "Copenhagen" in Washington DC, \$19,301
<b>SAVAGE, ANDREA/SCHAEFER, IRENE – HUNTER COLLEGE</b> <b>PALLADIA, INC.</b> Study of Women and Violence with Co-Occurring Substance Abuse and Mental Health Disorders and the Impact on their Children, \$301,338	<b>U.S. DEPARTMENT OF ENERGY</b> A Symposium Associated with the Opening of the Play "Copenhagen" in Washington, \$21,000
<b>SAVAGE, CARIN – BRONX C. C.</b> <b>DHHS/ACF</b> Head Start Partnerships with Hispanic Serving Institutions of Higher Education, \$130,000	<b>SCHWARTZ, GARY – LEHMAN COLLEGE</b> <b>U.S. DEPARTMENT OF EDUCATION</b> Ronald E. McNair Post-Baccalaureate Achievement, \$209,811
<b>SAVAGE-DUNN, CATHY – QUEENS COLLEGE</b> <b>MARCH OF DIMES</b> TGFB Signaling in the Egg-Laying System of <i>C. elegans</i> , \$64,207	<b>SCHWARTZ, LAURA – GRADUATE SCHOOL</b> <b>VARIOUS</b> Renaissance Society of America, \$19,351
<b>SAVAS, STEVE – BARUCH COLLEGE</b> <b>NYC HUMAN RESOURCES ADMINISTRATION</b> Study Projects: An Evaluation of HRA Initiatives, \$849,267	<b>SCHWARTZ, RICHARD – GRADUATE SCHOOL</b> <b>NIH-NIDCD</b> Research Training Speech and Hearing Sciences, \$174,004
<b>SCARLATOS, LORI – BROOKLYN COLLEGE</b> <b>NATIONAL SCIENCE FOUNDATION</b> Career: Tangible Interfaces for Collaborative Learning Environments, \$67,837	<b>SCHWARZ, STEVEN – QUEENS COLLEGE</b> <b>RESEARCH FOUNDATION/SUNY</b> Garcia Center for Polymers at Engineered Interfaces, \$141,000
<b>SCELSA, JOSEPH – QUEENS COLLEGE</b> <b>NY CITY COUNCIL</b> Queens College Calandra Institute, \$50,000	<b>SCLAFANI, ANTHONY – BROOKLYN COLLEGE</b> <b>NIH-NIDDK</b> Carbohydrate Appetite, Fat Appetite, and Obesity, \$289,250
<b>SCHAEFER, ANNETTE – NYC COLLEGE OF TECHNOLOGY</b> <b>NIH-NIGMS</b> Rise – The Center for Research, Learning, and Teaching, \$157,435	<b>SEGAL, LYDIA – JOHN JAY COLLEGE</b> <b>UNIVERSITY OF CALIFORNIA – L.A.</b> Replacement Costs, \$12,000
<b>SCHLEIN, JACK – YORK COLLEGE</b> <b>NYS EDUCATION DEPT</b> Dwight D. Eisenhower Professional Development Program, \$41,999	<b>SEKERINA, IRINA – COLLEGE OF STATEN ISLAND</b> <b>NATIONAL SCIENCE FOUNDATION</b> Fellows: Bilingual Processing and Acquisition Multidisciplinary Environment, \$244,189
<b>PARAGON TEC</b> Science, Engineering, Mathematics and Aerospace Academy (SEMAA), \$40,625	<b>SELF, GLENDA – BRONX C. C.</b> <b>NYC HUMAN RESOURCES ADMINISTRATION</b> Project Hire Adult Training Program, \$157,625
<b>SCHMELTZER, DAVID – CITY COLLEGE</b> <b>U.S. DEPARTMENT OF ENERGY</b> Quantum Wires, \$77,697	<b>NYS DEPARTMENT OF LABOR</b> Youth Work Skills (YWS), \$144,392
<b>SCHMIDT, PETER – QUEENS COLLEGE</b> <b>CUNY MISC.</b> Queens College Center Caumsett P/T, \$135,378 Queens College Center Caumsett F/T, \$314,665	<b>SHAKIN, CARL – BROOKLYN COLLEGE</b> <b>SEMICONDUCTOR CHARACTERIZATION INST</b> Thermal Conductivity Measurements of GaN and Related Materials Using Scanning Thermal Microscopy, \$41,903 Surface Photovoltage Spectroscopy Characterization of Semiconductor Device Structures, \$90,000
<b>SCHMIDT-GLENEWINDEL, THOMAS – HUNTER COLLEGE</b> <b>CUNY MISC.</b> Expression Patterns of Neuronal Nic, \$12,000	<b>SHANLEY, DEBORAH – BROOKLYN COLLEGE</b> <b>NYC BOARD OF EDUCATION</b> Scholarship Program, \$12,740
<b>SCHNEIDER, PATRICIA – QUEENSBOROUGH C. C.</b> <b>NIH-NIGMS</b> Bridges to the Future, \$210,079	<b>UNITED FEDERATIONS OF TEACHERS</b> United Federation of Teachers Cooperative Project, \$738,016
<b>SCHREIBMAN, MARTIN – BROOKLYN COLLEGE</b> <b>RESEARCH FOUNDATION/SUNY</b> Endocrine Disruption in Jamaica Bay: Are Winter Flounder Being Affected?, \$44,000	<b>VARIOUS</b> Long Island Teacher Association Cooperative Project/Brooklyn College School of Education Consortium, \$1,355,205
<b>SCHREIBMAN, MARTIN/MAGLIULO-CEPRIANO, LUCIA – BROOKLYN COLLEGE</b> <b>NATIONAL PARK SERVICE</b> Jamaica Bay Restoration Service, \$85,000	<b>SHANLEY, DEBORAH/IRGANG, VICKI – BROOKLYN COLLEGE</b> <b>CUNY MISC.</b> Program Development Support, \$32,638
<b>SCHULMAN, JANE – LAGUARDIA C. C.</b> <b>NYS EDUCATION DEPT</b> Edge VIII – Welfare To Work, \$192,561	<b>SHAPIRO, NORMAN – CITY COLLEGE</b> <b>NATIONAL ENDOWMENT FOR HUMANITIES</b> Culture Quest, \$100,000
	<b>NYS EDUCATION DEPT</b> DDE Program: Developing Cyberspaces, \$64,000
	<b>U.S. DEPARTMENT OF EDUCATION</b> The Consortium for the Advancement of Teaching with Technology (CATT), \$475,904

**SHATTUCK, MARK – CITY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Career: Granular Media – Experimental Kinetic Theory, \$86,279

**SHEPPARD, SAMONA – QUEENS COLLEGE**  
**CUNY MISC.**  
Center for Unlimited Enrichment, \$22,275

**SHERBY, LOUISE/WONSEK, PAMELA – HUNTER COLLEGE**  
**NYS EDUCATION DEPT**  
Library Collection Aid, \$21,402

**SHERWEN, LAURIE/DORNBAUM, MARTIN – HUNTER COLLEGE**  
**CUNY MISC.**  
Comprehensive Computer-Based Review Strategy for Professional Licenser Examinations, \$12,000

**SHILLING, WYNNE – YORK COLLEGE**  
**NYC BOARD OF EDUCATION**  
Literacy Enhancement Project, \$240,500

**SHINNAR, REUEL – CITY COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Coalescence and Phase Separation during Spinodal Decomposition of Solvent Mixtures Far from Critical Point, \$106,623

**SHOR, STUART – LEHMAN COLLEGE**  
**CUNY MISC.**  
Tuition and Fees Collections, \$55,304

**LEHMAN COLLEGE ASSOCIATION**  
Lehman College Association Art Gallery, \$342,592

**SHORT, TIMOTHY – QUEENS COLLEGE**  
**NATIONAL SCIENCE FOUNDATION**  
Career: Isolation and Use of Arabidopsis Thaliana L. Mutants for Elucidating Photomorphogenic Signaling Pathways and for Undergraduate and Graduate Student Instruction and Training, \$140,000

**SHUJAA, MWALIMU – MEDGAR EVERS COLLEGE**  
**NYS EDUCATION DEPT**  
Liberty Partnerships Program, \$245,500

**SILBERMAN, ROSANNE – HUNTER COLLEGE**  
**LAVELLE FUND FOR THE BLIND, INC.**  
Preparation of Teachers of the Visually Impaired as Orientation and Mobility Specialists, \$49,525

**LIGHTHOUSE INC.**  
Overcoming Vision Impairment through Rehabilitation, Education, and Research: VRT Program, \$32,500

**NEW YORK COMMUNITY TRUST**  
To Train Professional Personnel in Vision Rehabilitation, Teaching, and Orientation Mobility, \$100,000

**STATE UNIV OF NEW YORK-ALBANY**  
Intensive Teacher Institute for Teachers of the Blind/Visually Impaired and Deaf/Hearing Impaired, \$46,901

**U.S. DEPARTMENT OF EDUCATION**  
Specialized Personnel for Rehabilitation of Individuals who are Blind or Have Vision Impairments, \$99,968  
Preparation of Teachers for Learners with Severe Disabilities Including Deaf-Blindness from Culturally and Linguistically Diverse Urban Populations, \$200,000

**SILER, JOYCE – MEDGAR EVERS COLLEGE**  
**W. K. KELLOGG FOUNDATION**  
Internship Development, \$25,000

**SILVERMAN, LINDA – NYC COLLEGE OF TECHNOLOGY**  
**NYS EDUCATION DEPT**  
Dwight D. Eisenhower Higher Education Professional Development (DDE), \$75,000

**SIMMONS, ESMERALDA – MEDGAR EVERS COLLEGE**  
**NEW YORK COMMUNITY TRUST**  
New York Voter Equity Research and Advocacy Project, \$10,000

**SIMMONS, ESMERALDA – MEDGAR EVERS COLLEGE**  
**NYS EDUCATION DEPT**  
Effective Schools Parent Education Program Grant: Parent Leadership Development and Advocacy Project, \$141,931

**SIT, KWAN-YUK CLAIRE/MUIR, BARBARA – LAGUARDIA C. C.**  
**U.S. DEPARTMENT OF EDUCATION**  
Minority Science and Engineering Program, \$50,992

**SLATER, MORTON/ILER, ELISABETH – CITY COLLEGE**

**IRENE DIAMOND FOUNDATION**  
Gateway to Higher Education, \$125,000

**NYS EDUCATION DEPT**  
Science and Technology Entry Program (STEP), \$249,750  
**VARIOUS**  
Gateway to Higher Education Program, \$12,000

**SMALL, GILLIAN – CITY COLLEGE**

**NIH-NIDDK**  
Peroxisome Biogenesis and Regulation in Yeast, \$193,410

**PFIZER**  
Characterization of Novel Proteins Involved in Sterol Homestasis, \$103,839

**SMITH, GARY – CITY COLLEGE**

**U.S. DEPARTMENT OF AGRICULTURE**  
Summer Food Program – USDA Summer Food Service, \$11,164

**SMITH, LAUNCELOTT – JOHN JAY COLLEGE**

**U.S. DEPARTMENT OF JUSTICE**  
Police Integrity Training Initiative Project, \$400,000

**SMITH, NONA – NYC COLLEGE OF TECHNOLOGY**

**COMMUNITY COUNCILING & MEDIATION**  
Expanding Options for Teens, \$80,000  
**NYC/DYCD**  
Expanding Options for Teenage Parents, \$59,705

**SNYDER, KATHERINE – QUEENS COLLEGE**

**U.S. DEPARTMENT OF EDUCATION**  
Democracy and Civil Society in Tanzania: Local and National Perspective, \$75,000

**SOFAYER, SHOSHANNA – BARUCH COLLEGE**

**KATHPAL TECHNOLOGIES, INC.**  
The Development of Materials and Strategies to Report Managed Care and Fee for Service Quality Performance Measures, \$83,842

**SOIFFER, STEPHEN/SCHAEFER, ANNETTE – NYC COLLEGE OF TECHNOLOGY**

**NATIONAL SCIENCE FOUNDATION**  
CSEMS Scholars at New York City Technical College, \$275,000

**SONNENBLICK, CAROL/HOFFMAN, CHUCK – NYC COLLEGE OF TECHNOLOGY**

**BROOKLYN WORKFORCE INNOVATIONS**  
Memorandum of Understanding between the Brooklyn Workforce Innovations (BWI) and the College's Division of Continuing Education and External Partnerships, \$67,345

**SORMANI, CHRISTINA – LEHMAN COLLEGE**

**NATIONAL SCIENCE FOUNDATION**  
The Topology of Open Manifolds with Non-Negative Ricci Curvature, \$85,714

**SPERGEL, MARTIN – YORK COLLEGE**

**NASA**  
York College Observatory Educational Outreach Service to the College and Public School Community, \$233,000

**SPIELMAN, JANE – CITY COLLEGE**

**NYC BOARD OF EDUCATION**  
Center for Educational Options – Community School District Number Three, \$13,498  
Center for Educational Options to Provide Staff Development Services and Technical Assistance in Alternative Assessment of Student Achievement, \$25,588

**ST. JOHN, KATHERINE – LEHMAN COLLEGE**

**NATIONAL SCIENCE FOUNDATION**  
ITR/ AP: Collaborative Research: Exploring the Tree of Life, \$123,988

**ST. JOHN, RONALD – YORK COLLEGE**

**U.S. DEPARTMENT OF AGRICULTURE**  
New York Summer Food Service Program, \$16,933

**STAMOS, IOANNIS/EHLSCHLAEGER, CHARLES – HUNTER COLLEGE**

**NATIONAL SCIENCE FOUNDATION**  
Acquisition of Range-Scanning Equipment and of Data Servers for the Reconstruction of Large Scale Scenes from 3D Range and 2D Color Data, \$159,307

**STARK, JOEL – QUEENS COLLEGE**

**CUNY MISC.**  
Communication Arts and Sciences, \$88,698

**STARK, RUTH – COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

Molecular Structure and Function of Protective Plant Polymers, \$133,155

**STARK, RUTH/BATTEAS, JAMES – COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

Research Experience for Undergraduates in Chemistry, \$60,000

**STARR, ROSE/SHAW, PENNY – HUNTER COLLEGE****LONG ISLAND JEWISH MEDICAL CTR**

North Shore/Long Island Jewish Health Systems School: Mental Health Partnership, \$20,745

**STERN, NICHELE/BLOOM, JOYCE – BRONX C. C.****U.S. DEPARTMENT OF AGRICULTURE**

National Sports Camp, \$22,153

**STICKNEY, BETH – GRADUATE SCHOOL****U.S. DEPARTMENT OF EDUCATION**

Ronald E. McNair Postbaccalaureate Achievement Program: Project Ascend, \$250,530

**STORCK, BYRON – LAGUARDIA C. C.****DOD-UNITED STATES AIR FORCE**

Computer Based Physical Science Curricula Enhancement, \$62,130

**STRANGE, WINIFRED – GRADUATE SCHOOL****NIH-NIDCD**

Cross-Language Studies of Vowel Acoustics and Perception, \$259,139

**STURMEY, PETER/POULSON, CLAIRE – QUEENS COLLEGE****NYS EDUCATION DEPT**

Develop and Deliver Undergraduate, Graduate and Inservice Courses Relating to the Education of Students with Autism Spectrum Disorders, \$23,705

**SUBRAMANIAM, KOLLURU – CITY COLLEGE****DOD-UNITED STATES AIR FORCE**

Acquisition of Instrumentation for Material Characterization and Damage Quantification of Materials and Systems Laboratory, \$100,270

**NORTHWESTERN UNIVERSITY**

Ultra-Sonic Technique for In-Situ Monitoring of Setting, Hardening and Strength Gain of Concrete, \$30,000

**SULLIVAN, DENNIS – GRADUATE SCHOOL****NATIONAL SCIENCE FOUNDATION**

Combinatorial Model for Geometry and Analysis Based on the Algebraic Topology of Closed Curves, \$64,770

Algebraic Topology and Quantum Field Theory, \$200,700

**SUNDARAM, BALA – COLLEGE OF STATEN ISLAND****NATIONAL SCIENCE FOUNDATION**

Mixed Phase Spaces: Templates for Quantum Manipulation, \$82,000

**SWARTZ, KARYL – LEHMAN COLLEGE****NIH-NIGMS**

MBRS/Score Project, \$2,323,844

**NIH-NIMH**

Psychology Research, \$276,833

**SZABO, ZOLTAN – LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Inspectral and Isotonal Metrics with Different Local Geometries, \$100,000

**TAMARGO, MARIA – CITY COLLEGE****U.S. DEPARTMENT OF ENERGY**

Non-Equilibrium Approaches to Doping of Wide Bandgap Materials by MBE, \$57,278

**TASAYCO, MARIA LUISA – CITY COLLEGE****NATIONAL SCIENCE FOUNDATION**

Learning About Protein Unfolded States from Heterodimeric Fragment Complementation, \$220,000

**TAYLOR, DAVID – YORK COLLEGE****CUNY MISC.**

York College Staff Account, \$17,835

York College of CUNY Financial Aid: Delinquent Fee Collection, \$41,698

**TCHERNICHOVSKI, OFER – CITY COLLEGE****NIH-NIDCD**

Behavioral Mechanisms of Vocal Imitation, \$396,270

**TERRY, SHERRI-ANN/BYGRAVE-DOZIER, SANDRA – QUEENSBOROUGH C. C.****NYS EDUCATION DEPT**

Liberty Partnerships Program (LPP) – Project Prize, \$239,861

**TEXEIRA, KAREN – JOHN JAY COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Upward Bound Program, \$413,399

**THANGARAJ, ELIZABETH – CITY COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Student Support Services Program, \$464,209

**THOMAS, RONALD/CORBIE, LEO – YORK COLLEGE****CUNY MISC.**

Continuing Education, \$642,000

**THOMAS, RONALD/SCHLEIN, JACK – YORK COLLEGE****CUYAHOGA COMMUNITY COLLEGE**

Science, Engineering, Mathematics, and Aerospace Academy (SEMAA), \$128,258

**THOMAS, SHEILA – OFFICE OF VC FOR STUDENT AFFAIRS****NYS OCFS**

Child Care Development Block Grant, \$660,500

**TIEN, CHARLES – HUNTER COLLEGE****COUNCIL FOR INTERNATIONAL EXCHANGE OF SCHOLARS**

Sino-U.S. Student &amp; Faculty Exchange, \$18,880

**TOBIS, DAVID/LACKEY, M./ROMERO, M. – HUNTER COLLEGE****NEW YORK COMMUNITY TRUST**

Child Welfare Administration, \$98,000

**TOLLIVER, WILLIE/KOGAN, GARY – HUNTER COLLEGE****NYC BOARD OF EDUCATION**

Project Grow: Staff Leadership Professional Development, \$92,161

**TRENKNER, EKKHART – COLLEGE OF STATEN ISLAND****NYS/OMRDD**

Improvement of Pre and Post Doctoral Education and Research in Developmental Neuroscience and Developmental Disabilities, \$580,650

**TRES, LAURA – CITY COLLEGE****NIH-NICHD**

Bioregulation of the Spermatogonial Stem Cell Lineage, \$196,134

**TRUESELL, LEE ANN/LOPEZ, EMILIA – QUEENS COLLEGE****NYC BOARD OF EDUCATION**

Scholarship Program, \$10,545

**TRUESELL, LEE ANN/CURCIO, FRANCES – QUEENS COLLEGE****NYC BOARD OF EDUCATION**

Support Services and Innovative Educational Approaches at 227 Queens, \$250,000

**TURNER, CHARLES – QUEENS COLLEGE****JOHNS HOPKINS UNIVERSITY**

Assessment Mode and Validity of Self-Reports in Adults, \$24,218

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**UGORETZ, JOSEPH/BRAGG, SADIE – BOROUGH OF MANHATTAN C. C.****GEORGETOWN UNIVERSITY**

Visible Knowledge Project, \$24,500

v

**VALIAN, VIRGINIA – HUNTER COLLEGE****NATIONAL SCIENCE FOUNDATION**

Dis-Gender Schemas and Science Careers: Tutorials for Change, \$101,500

**VALIAN, VIRGINIA/COHEN, A./RABINOWITZ, V./RAPS, S. – HUNTER COLLEGE**

**NATIONAL SCIENCE FOUNDATION**

Advance Institutional Transformation Award, \$750,000

**VAN RYZIN, GREGG/WEIKART, LYNNE – BARUCH COLLEGE**

**NYC BOARD OF EDUCATION**

Project for Rockaway Youth in Safety and Education, \$183,560

**VAN SLYCK, PHYLLIS – LAGUARDIA C. C.**

**NYS EDUCATION DEPT**

Creation of a Professional Development Center/Assessment, Technology and Leadership Development, \$1,151,963

**VAUGHN, SUSAN/HIGGINBOTHAM, BARBARA – BROOKLYN COLLEGE**

**NYS EDUCATION DEPT**

Library Collection Aid, \$17,834

**VAZQUEZ, JOSE – HUNTER COLLEGE**

**EASTERN SUFFOLK**

Goals 2000 Project- Coordination and Development of New York State ESL Standards Document and Training Materials, \$50,000

**NYS EDUCATION DEPT**

Bilingual Education Technical Assistance Center, \$463,353

**VEIT, RICHARD – COLLEGE OF STATEN ISLAND**

**NATIONAL SCIENCE FOUNDATION**

Career: Dymatics of Predator-Prey Behavior in the Antarctic Ocean, \$150,325

**VOLPE, MARIA – JOHN JAY COLLEGE**

**CUNY MISC**

Cuny Dispute Resolution Consortium, \$17,160

Hewlett Theory Center Conference, \$80,000

**SURDINA FOUNDATION**

Making Talk Work: Cops and Kids Transition Dialogue Program, \$82,000

**W**

**WALLMAN, JOSHUA – CITY COLLEGE**

**NIH-NEI**

Role of Vision in Etiology of Axial Myopia, \$382,425

**WALSER, ARDIE/DORSINVILLE, ROGER – CITY COLLEGE**

**LAWRENCE LIVERMORE NATIONAL LAB**

Two Photon Absorption Imaging of KDP Crystals, \$34,162

**WALSH, ELAINE – HUNTER COLLEGE**

**NYS EDUCATION DEPT**

Pre-College After School Program for Neighborhood High Schools, \$258,500

**WASHINGTON, VALERIE – LEHMAN COLLEGE**

**NYS EDUCATION DEPT**

Teacher Opportunity Corps (TOC), \$61,318

Dwight D. Eisenhower Bureau of Professional Career Opportunities Program, \$113,977

**WASSERMAN, SUZANNE – GRADUATE SCHOOL**

**VARIOUS**

Gotham Center-Education, \$20,424

**WATERS, GLORIANA/PHILLIPS, SAMUEL – OFFICE OF VC FOR FACULTY & STAFF RELATIONS**

**CUNY MISC.**

University Personnel Office: Office of the Vice Chancellor for Faculty and Staff Relations, \$68,986

**WATKINS, CHARLES – CITY COLLEGE**

**NATIONAL SCIENCE FOUNDATION**

Computer Science, Engineering, and Mathematics Scholarships Program, \$275,000

**WATSON, SANDRA – LAGUARDIA C. C.**

**NYC DEPARTMENT OF EMPLOYMENT**

Youth Employment Program (YEP) – Workforce Investment Act (WIA), \$256,130

**WATSON, SANDRA/DE JESUS, RUTH – LAGUARDIA C. C.**

**NYS DEPARTMENT OF LABOR**

Project Archive – Another Change Initiative for Education, \$144,076

**WATSON, SANDRA/KYDD, BALDONEDO – LAGUARDIA C. C.**

**NYC DEPARTMENT OF LABOR**

The Senior Green Team Program, \$138,601

**WAXMAN, JERRY – QUEENS COLLEGE**

**U.S. DEPARTMENT OF EDUCATION**

Exploring Quantitative Relationships: A New Approach to Mathematical Literacy, \$90,475

**WEAVER, ANTHONY – BRONX C. C.**

**DOD-UNITED STATES AIR FORCE**

Equipping the DOD Undergraduate Mathematics and Computer Science Research and Teaching Laboratory at Bronx Community College, \$90,000

**WEINBAUM, SHELDON – CITY COLLEGE**

**CORNELL UNIVERSITY**

New York State NASA Space Grant College and Fellowship Program, \$34,000

**NIH-NHLBI**

A National Urban Model for Minority Undergraduates, \$396,519

**UNIVERSITY OF CALIFORNIA-DAVIS**

A New Approach to Endothelial Cleft Structure, \$139,179

**WHITAKER FOUNDATION**

Creation of a New Department and Undergraduate Degree Program in BME Using the Resources of an Urban Consortium, \$445,733

**WEINER, MICHAEL – CITY COLLEGE**

**NIH-NIGMS**

MARC Honors Undergraduate Research, \$350,190

Research Support for Biomedical Careers, \$475,337

**WEINER, MICHAEL/GOLDSTEIN, ELLEN – CITY COLLEGE**

**U.S. DEPARTMENT OF EDUCATION**

Science and Mathematics Teachers for the New Millennium: An Online Virtual Classroom for Tomorrow's Urban Teachers, \$149,281

**WEISBERG, MICHAEL – KINGSBOROUGH C. C.**

**NASA**

Petrologic-Geochemical Studies of Primitive Solar System Materials, \$44,000

**WEISS, THOMAS – GRADUATE SCHOOL**

**CUNY MISC.**

United Nations Intellectual History Project, \$361,872

**WEISS, THOMAS/SALMON, ROBERT – GRADUATE SCHOOL**

**CUNY MISC.**

Project on Internally Displaced Persons, \$206,482

**WEISSMAN, HAROLD – HUNTER COLLEGE**

**NYS OCFs**

Management Training and Quality Assurance Seminars for HRA, \$91,616

**WELCHMAN, ROSAMOND – BROOKLYN COLLEGE**

**NYS EDUCATION DEPT**

Dwight D. Eisenhower Professional Development Program, \$81,192

**WENZEL, MITCHELL – BRONX C. C.**

**U.S. DEPARTMENT OF EDUCATION**

Developing Hispanic-Serving Institutions, \$469,129

**WETTAN, RICHARD – QUEENS COLLEGE**

**CUNY MISC.**

Athletics Support Program, \$134,670

Athletics Auxiliary, \$193,801

Summer Sports Camp, \$540,830

Athletics Full Time, \$587,032

**NATIONAL SCIENCE FOUNDATION**

The Effects of Prior Conduct, Legal Standards and Investigative Interviews, \$15,000

**WIERASZKO, ANDRZEJ – COLLEGE OF STATEN ISLAND**

**NIH-NIEHS**

The Influence of Static Magnetic Fields on Brain Tissue, \$182,270

**WILKINSON, PATRICIA/KOK, A./SHER, L. – BOROUGH OF MANHATTAN C. C.**

**NATIONAL SCIENCE FOUNDATION**

Multimedia Based Calculus with E-Folios, \$74,999

**WILKINSON, PATRICIA/SHER, LAWRENCE – BOROUGH OF MANHATTAN C. C.**

**U.S. DEPARTMENT OF EDUCATION**

Minority Science and Engineering Improvement Program, \$180,168

**WILKINSON, PATRICIA/COHEN, ALICE – BOROUGH OF MANHATTAN C. C.****NATIONAL SCIENCE FOUNDATION**

Computer Science, Engineering and Math Scholarship Program, \$396,000

**WILLIAMS, GREGORY – CITY COLLEGE****NIH-NCR**

The Cellular/Molecular Basis of Development: The Research Center in a Minority Institution, \$1,740,494

**WILLIAMS, MARIA – YORK COLLEGE****NYS EDUCATION DEPT**

English For Speakers of Other Languages – Civics Program (ESOL), \$300,000

**WINTER, AMY – QUEENS COLLEGE****CUNY MISC.**

Godwin-Ternbach Museum, \$18,915

**WISHNOFF, DANIEL/KESSNER, THOMAS – GRADUATE SCHOOL****THE FOREST HILLS CONTROVERSY**

U.S. HUD, \$30,000

**WITHERS, DORIS – MEDGAR EVERES COLLEGE****NYS EDUCATION DEPT**

VATEA-Perkins III Formula Allocation, \$659,358

**WOLFE, MARCIE/LIBFELD, SUZANNE – LEHMAN COLLEGE****NATIONAL SCIENCE FOUNDATION**

Teacher Leaders for Mathematics Success, \$718,287

**WOLFE, MARCIE/CAMPOS, ANNE – LEHMAN COLLEGE****ARTS CONNECTION, INC.**

Reading the World at Community Elementary School 53, \$10,000

**J. P. MORGAN FOUNDATION**

Precollegiate Education, \$15,000

**NEW VISION FOR PUBLIC SCHOOLS**

Maritime High School for Math, Science and Technology, \$50,000

**NYC BOARD OF EDUCATION**

New York City Writing Project, \$329,321

Student Academic Support Services in the Areas of Reading and Mathematics, \$773,200

**NYC BOARD OF EDUCATION**

Community School District 5: 21st Century Community Learning Center Project, \$48,105

**WHITE PLAINS CITY SCHOOL DISTRICT**

Professional Development/New York City Mathematics Project, \$16,250

**WILLIAM T. GRANT FOUNDATION**

Pass It On: A Summer Youth Writer's Institute, \$10,000

**WONG, SHERMAN – BARUCH COLLEGE****DOD-UNITED STATES ARMY**

Establishment of a Unix-Based Computing Facility for the Mathematics Department, \$47,880

**WOO, HELEN/BRABHAM, SHERRY – OFFICE OF VC FOR BUDGET & FINANCE****CUNY MISC.**The University Accounting Office's Financial Aid Program, \$181,677  
Systems Telecommunication Initiative, \$222,376

University Accounting, \$2,852,650

**WRIGLEY, JULIA – GRADUATE SCHOOL****CUNY MISC.**

Children's Care Giver, \$44,984

**WU, CLARA – LAGUARDIA C. C.****NIH-NIGMS**

Two Year To Four Year Transition Program, \$647,990

**WUSSOW, HELEN/O'REILLY, LILLIAN – BROOKLYN COLLEGE****NYC BOARD OF EDUCATION**

Professional Development, \$46,571

**WUSSOW, HELEN/BELTON, ELLEN – BROOKLYN COLLEGE****CUNY MISC.**

Adult Learning Center Payroll Account, \$35,000

**XU, MIN/LAX, MELVIN – CITY COLLEGE****DOD-UNITED STATES ARMY**

Time-Resolved Spectral Optical Breast Tomography, \$150,000

**XU, PING – BARUCH COLLEGE****U.S. DEPARTMENT OF EDUCATION**

Pen-Less Chinese Language Learning: A Computer Assisted-Approach, \$97,109

**y****YANG, NAN-LOH – COLLEGE OF STATEN ISLAND****INSTITUTE OF SPORTS MEDICINE**

Synthetic Polymer Ligament, \$31,385

**YAU, SIU-TUNG – HUNTER COLLEGE****CUNY MISC.**

Reducing Protein Denaturation for Ultrasensitive Biosensing, \$20,000

**z****ZADOIAN, HRATCH – QUEENS COLLEGE****CUNY MISC.**

Financial Aid, \$62,350

**ZAKERI, ZAHRA – QUEENS COLLEGE****CUNY MISC.**

Cell Death Society, \$11,300

**ZEIGLER, HARRIS – HUNTER COLLEGE****NIH-NINDS**

Development of an "Active Touch" System, \$300,000

**ZEITLIN, ARTHUR – KINGSBOROUGH C. C.****NATIONAL SCIENCE FOUNDATION**

Crossing Boundaries: A Two Year Study, \$298,275

**ZEVIN, JACK – QUEENS COLLEGE****NYC BOARD OF EDUCATION**

Professional Development \$18,500

**ZEVIN, JACK/KRASNER, MICHAEL – QUEENS COLLEGE****TAFT INSTITUTE**

Taft Institute 2001 Summer and Fall Workshops, \$24,000

**ZHENG, YAN – QUEENS COLLEGE****COLUMBIA UNIVERSITY**

Arsenic Mobilization in Bangladesh Groundwater, \$61,952

**ZIMMER, LYNN – QUEENS COLLEGE****ZIMMER FAMILY FOUNDATION**

American Civil Liberties Union/Michael Harrington Center Program, \$10,000

**ZINNANTI, LEONARD – HUNTER COLLEGE****CUNY MISC.**

Collection Activity, \$125,092

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## Sponsor Abbreviations

<b>ACLS</b>	American Council of Learned Societies
<b>AFOSR</b>	Air Force Office of Scientific Research
<b>ARO</b>	Army Research Office
<b>AID</b>	Agency for International Development
<b>BHP</b>	Bureau of Health Professions
<b>BNL</b>	Brookhaven National Laboratory
<b>BRFC</b>	Black Rock Forest Consortium
<b>CNCS</b>	Corporation for National and Community Service
<b>DARPA</b>	Defense Advanced Research Projects Agency
<b>DHHS:</b>	Department of Health and Human Services
<b>PHS:</b>	Public Health Service
<b>ACF</b>	Administration for Children and Families
<b>AHRQ</b>	Agency for Health Care Research & Quality
<b>AOA</b>	Administration of Aging
<b>ASPE</b>	Office of Assistant Secretary for Planning and Evaluation
<b>CDC:</b>	Centers for Disease Control and Prevention
<b>NCEH</b>	National Center for Environmental Health
<b>NCID</b>	National Institute for Infectious Diseases
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>FDA</b>	Food and Drug Administration
<b>HRSA</b>	Health Resources and Services Administration
<b>BHPr</b>	Bureau of Health Professions
<b>NIH:</b>	National Institutes of Health
<b>FIC</b>	John E. Fogarty International Center
<b>NCI</b>	National Cancer Institute
<b>NCCAM</b>	National Center for Complementary & Alternative Medicine
<b>NCMHHD</b>	National Center on Minority Health and Health Disparities
<b>NCRR</b>	National Center for Research Resources
<b>NEI</b>	National Eye Institute
<b>NHGRI</b>	National Human Genome Research Institute
<b>NHLBI</b>	National Heart, Lung and Blood Institute
<b>NIA</b>	National Institute of Aging
<b>NIAAA</b>	National Institute of Alcohol Abuse and Alcoholism
<b>NIAID</b>	National Institute of Allergy and Infectious Diseases
<b>NIAMS</b>	National Institute of Arthritis and Musculoskeletal and Skin Diseases
<b>NIBIB</b>	National Institute of Biomedical Imaging and Bioengineering
<b>NICHHD</b>	National Institute of Child Health and Human Development
<b>NIDA</b>	National Institute on Drug Abuse
<b>NIDCD</b>	National Institute on Deafness and Other Communication Disorders
<b>NIDCR</b>	National Institute of Dental and Craniofacial Research
<b>NIDDK</b>	National Institute of Diabetes and Digestive and Kidney Diseases
<b>NIDR</b>	National Institute of Dental Research
<b>NIEHS</b>	National Institute of Environmental Health Sciences
<b>NIGMS</b>	National Institute of General Medical Sciences
<b>NIMH</b>	National Institute of Mental Health
<b>NINR</b>	National Institute of Nursing Research
<b>NINDS</b>	National Institute of Neurological Disorders and Stroke
<b>NLM</b>	National Library of Medicine
<b>OASH</b>	Office of Assistant Secretary of Health
<b>SAMHSA:</b>	Substance Abuse and Mental Health Services Administration
<b>CMHS</b>	Center for Mental Health Services
<b>CSAP</b>	Center for Substance Abuse Prevention
<b>CSAT</b>	Center for Substance Abuse Treatment
<b>DOC</b>	Department of Commerce
<b>DOD</b>	Department of Defense
<b>DOE</b>	Department of Energy
<b>DOI</b>	Department of the Interior
<b>DOL</b>	Department of Labor
<b>DOT</b>	Department of Transportation
<b>EOC</b>	Equal Opportunity Center
<b>EPRI</b>	Environmental Protection Research Institute
<b>EVMS</b>	Eastern Virginia Medical School

<b>FEGS</b>	Federation Employment and Guidance Service
<b>FEMA</b>	Federal Emergency Management Agency
<b>FJP</b>	Federation of Jewish Philanthropies
<b>FTA</b>	Federal Transportation Authority
<b>HUD</b>	Department of Housing and Urban Development
<b>LAC</b>	Literacy Assistance Center
<b>MHRA</b>	Medical and Health Research Associates
<b>NASA</b>	National Aeronautics and Space Administration
<b>NASW</b>	National Association of Social Workers
<b>NCAA</b>	National Collegiate Athletic Association
<b>NEA</b>	National Endowment for the Arts
<b>NEH</b>	National Endowment for the Humanities
<b>NHPRC</b>	National History Publication and Records Commission
<b>NRC</b>	National Research Council
<b>NIST</b>	National Institute of Standards and Technology
<b>NSF</b>	National Science Foundation
<b>NYANA</b>	New York Association for New Americans
<b>NYC:</b>	New York City
	AC Art Commission
	ACS Administration for Children Services
	BOE Board of Education (Now Department of Education)
	DCA Department of Cultural Affairs
	DEP Department of Environmental Protection
	DFA Department for the Aging
	DMH Department of Mental Health
	DOE Department of Employment
	DOH Department of Health
	DOITT Department of Information Technology & Telecommunication
	DOT Department of Transportation
	DYCD Department of Youth and Community Development
	HA Housing Authority
	HHC Health and Hospitals Corporation
	HPD Housing Preservation and Development
	HRA Human Resources Administration
	MHMRA Mental Health, Mental Retardation and Alcoholism
	NYPD New York Police Department
	OBD Office of Business Development
	PBA Patrolmen's Benevolent Association
	TLC Taxi and Limousine Commission
	YB Youth Board
<b>NYS:</b>	New York State
	DA Dormitory Authority
	DED Department of Economic Development
	DMH Department of Mental Hygiene
	DOH Department of Health
	DOL Department of Labor
	DOT Department of Transportation
	OASAS Office of Alcoholism and Substance Abuse Services
	DSS Department of Social Services
	DY Division for Youth
	ED Department of Education
	ERDA Energy Research and Development Authority
	GOER Governor's Office of Employee Relations
	HESC Higher Education Service Corporation
	IOLA Interest on Lawyer Account
	OFA Office for the Aging
	ONCS Office of National and Community Service
	STF Science and Technology Foundation
<b>NYSUT</b>	New York State United Teachers
<b>PIC</b>	Private Industry Council
<b>PSC</b>	Professional Staff Congress
<b>RF-SUNY</b>	Research Foundation of the State University of New York
<b>UDC</b>	Urban Development Corporation
<b>UFT</b>	United Federation of Teachers

<b>UJA</b>	United Jewish Appeal
<b>UNICEF</b>	United Nations International Children's Emergency Fund
<b>USDA</b>	United States Department of Agriculture
<b>U.S. ED</b>	United States Department of Education
<b>USIA</b>	United States Information Agency
<b>USIP</b>	United States Institute of Peace
<b>VA</b>	Veterans Administration
<b>VARIOUS</b>	Various Private Sources
<b>WHO</b>	World Health Organization





345 Park Avenue  
New York, NY 10154

## Independent Auditors' Report

The Board of Directors  
Research Foundation of  
The City University of New York

We have audited the accompanying balance sheets of the Research Foundation of The City University of New York (the Foundation) as of June 30, 2002 and 2001, and the related statements of activities and cash flows for the years then ended. These financial statements are the responsibility of the Foundation's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Research Foundation of The City University of New York as of June 30, 2002 and 2001, and the changes in its net assets and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

**KPMG LLP**

September 27, 2002



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**Balance Sheets**

June 30, 2002 and 2001

<b>Assets</b>	<b>2002</b>	<b>2001</b>
Cash and cash equivalents	\$ 39,307,358	36,199,060
Grants, contracts, and accounts receivable (net of allowance of \$4,200,000 in 2002 and \$2,800,000 in 2001)	43,263,609	36,645,683
Insurance recovery receivable (note 8)	2,506,170	—
Prepaid expenses and other assets	1,075,188	224,984
Investments, at fair value (note 3)	32,088,966	20,683,852
Fixed assets:		
Furniture, fixtures, and equipment (net of accumulated depreciation of \$117,789 in 2002 and \$1,867,704 in 2001)	584,504	940,442
Leasehold improvements (net of accumulated amortization of \$15,926 in 2002 and \$1,055,207 in 2001)	143,340	1,952,248
Total assets	<u><u>\$ 118,969,135</u></u>	<u><u>96,646,269</u></u>
 <b>Liabilities and Net Assets (Deficit)</b>		
Accounts payable and accrued expenses	\$ 25,870,251	22,318,419
Deferred revenue (note 5)	49,978,972	32,932,513
Postretirement benefits payable (note 4)	20,402,194	17,440,070
Deposits held in custody for others	26,296,844	27,544,483
Total liabilities	<u><u>122,548,261</u></u>	<u><u>100,235,485</u></u>
Net assets (deficit):		
Unrestricted – board designated:		
Postretirement benefits	(20,402,194)	(17,440,070)
Central allocation budget	2,961,966	2,692,792
Other	<u><u>13,861,102</u></u>	<u><u>11,158,062</u></u>
Total net assets (deficit)	(3,579,126)	(3,589,216)
Total liabilities and net assets (deficit)	<u><u>\$ 118,969,135</u></u>	<u><u>96,646,269</u></u>

See accompanying notes to financial statements.

## Statements of Activities

Years ended June 30, 2002 and 2001

	<b>2002</b>	<b>2001</b>
Grants and contracts administered for others:		
Revenue:		
Governmental	\$ 157,245,376	135,773,425
Private	65,848,206	56,499,960
Total grants and contracts revenue	<u>223,093,582</u>	<u>192,273,385</u>
Expenses:		
Research	(68,274,788)	(55,072,870)
Training	(74,857,787)	(55,396,839)
Academic development	(59,384,134)	(62,932,787)
Student services	(15,283,235)	(13,788,437)
Other	(5,293,638)	(5,082,452)
Total grants and contracts expenses	<u>(223,093,582)</u>	<u>(192,273,385)</u>
Administrative services:		
Revenue:		
Administrative fees	17,156,315	13,456,836
Investment return (note 3)	1,362,072	4,262,134
Other	160,499	261,132
Total administrative revenue	<u>18,678,886</u>	<u>17,980,102</u>
Expenses:		
Management and general	(14,068,356)	(13,115,050)
Central research initiatives	(2,959,371)	(3,848,667)
Investment return allocated to individual colleges	(1,641,069)	(3,371,435)
Total administrative expenses	<u>(18,668,796)</u>	<u>(20,335,152)</u>
Excess (deficiency) of revenue over expenses	10,090	(2,355,050)
Costs and losses related to September 11, 2001, net of insurance recoveries (note 8):		
Write-off of fixed assets	(2,892,690)	—
Other expenses	(1,576,591)	—
Insurance recoveries	4,469,281	—
Increase (decrease) in net assets	<u>10,090</u>	<u>(2,355,050)</u>
Net assets (deficit) at beginning of year	(3,589,216)	(1,234,166)
Net assets (deficit) at end of year	<u>\$ (3,579,126)</u>	<u>(3,589,216)</u>

See accompanying notes to financial statements.

## Statements of Cash Flows

Years ended June 30, 2002 and 2001

	<b>2002</b>	<b>2001</b>
Cash flows from operating activities:		
Increase (decrease) in net assets	\$ 10,090	(2,355,050)
Adjustments to reconcile increase (decrease) in net assets to net cash provided by operating activities:		
Depreciation and amortization	133,715	708,296
Loss on disposal of equipment	—	8,373
Loss on disposal of fixed assets due to WTC disaster	2,892,690	—
Net depreciation (appreciation) in fair value of investments	308,997	(540,699)
Increase in insurance recovery receivable	(2,506,170)	—
Increase in grants, contracts, and accounts receivable	(6,617,926)	(13,721,575)
Increase in prepaid expenses and other assets	(850,204)	(38,408)
Increase (decrease) in accounts payable and accrued expenses	3,551,832	(1,449,573)
Increase in deferred revenue	17,046,459	12,549,282
Increase in postretirement benefits payable	2,962,124	3,588,971
(Decrease) increase in deposits held in custody for others	<u>(1,247,639)</u>	<u>3,539,103</u>
Net cash provided by operating activities	<u>15,683,968</u>	<u>2,288,720</u>
Cash flows from investing activities:		
Purchases of fixed assets	(861,559)	(190,052)
Purchases of investments	(91,382,725)	(49,586,580)
Sales and maturity of investments	79,668,614	76,761,782
Net cash (used in) provided by investing activities	<u>(12,575,670)</u>	<u>26,985,150</u>
Net increase in cash and cash equivalents	3,108,298	29,273,870
Cash and cash equivalents at beginning of year	36,199,060	6,925,190
Cash and cash equivalents at end of year	<u>\$ 39,307,358</u>	<u>36,199,060</u>

See accompanying notes to financial statements.

## Notes to Financial Statements

June 30, 2002 and 2001

### (1) Organization

The Research Foundation of The City University of New York (the Foundation) was chartered in 1963 to provide post-award administration of sponsored programs for The City University of New York (the University) and other not-for-profit organizations. The Foundation is a separate legal entity and is exempt from Federal income taxes under the provisions of Section 501(c)(3) of the Internal Revenue Code.

### (2) Summary of Significant Accounting Policies

#### (a) Basis of Presentation

The Foundation's financial statements are prepared on the accrual basis of accounting in accordance with standards established by the Financial Accounting Standards Board (FASB) for external financial reporting by not-for-profit organizations. The financial statements focus on the Foundation as a whole and present balances and transactions according to the existence or absence of donor-imposed restrictions. Accordingly, net assets of the Foundation and changes therein are classified and reported as follows:

**Unrestricted net assets** – Net assets that are not subject to donor-imposed restrictions. In addition, grants and contracts for the performance of certain services or functions are reported in the unrestricted net asset category.

**Temporarily restricted net assets** – Net assets subject to donor-imposed restrictions that will be met either by actions of the Foundation or the passage of time. The Foundation had no temporarily restricted net assets at June 30, 2002 and 2001.

**Permanently restricted net assets** – Net assets subject to donor-imposed restrictions stipulating that funds be maintained permanently by the Foundation, but permit the Foundation to expend part or all of the income derived therefrom. The Foundation had no permanently restricted net assets at June 30, 2002 and 2001.

Revenues and gains and losses on investments and other assets are reported as changes in unrestricted net assets unless limited by explicit donor-imposed restrictions or by law. Expenses are reported as decreases in unrestricted net assets.

#### (b) Grants and Contracts

Revenue from grants and contracts, awarded to and accepted by the Foundation and various units of the University, as joint grantees, primarily for research, training, and academic development programs, is generally recognized as earned, that is, as the related costs are incurred under the grant or contract agreements.

Facilities and administrative costs recovered on grants and contracts are recorded at rates established by the Foundation with its Federal cognizant agency, or predetermined by the non-Federal sponsor. Facilities and administrative cost rates for government grants and contracts are subject to audit, and subsequent final settlements, if any, are recorded as current period adjustments. Management believes the impact of any future settlements to be immaterial to the financial statements.

#### (c) Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingencies at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

#### (d) Cash Equivalents

Highly liquid debt instruments with maturities at date of purchase of three months or less are classified as cash equivalents.

#### (e) Investments

Investments are reported at fair value based upon quoted market prices. Realized and unrealized gains and losses on investments are reflected in the accompanying statements of activities.

#### (f) Fixed Assets

Furniture, fixtures, and equipment and leasehold improvements are stated at cost. Depreciation of furniture, fixtures, and equipment is computed on a straight-line basis over the estimated useful lives of the assets, ranging from five to seven years. Amortization of leasehold improvements is computed on a straight-line basis over the estimated useful lives of the assets, not to exceed the remaining life of the lease.

Equipment purchased by the Foundation on behalf of various units of the University from grant and contract funds is to be used in the project for which it was purchased and is not included in the Foundation's fixed assets on the accompanying balance sheets.

#### (g) Deposits Held in Custody for Others

Deposits held in custody for others reflect those resources held on behalf of the individual colleges of the University. These deposits are credited with indirect cost recoveries and released time recoveries for the respective colleges.

Released time recoveries represent personal service costs for individuals on the various colleges' payrolls who report effort under grants or contracts. When colleges replace an individual providing time and effort to sponsored projects, they do so by hiring, on the Foundation payroll, adjuncts whose personal service costs are reflected as deductions of deposits held in custody for others.

Facilities and administrative costs are considered recoveries of the specific colleges and, accordingly, are credited to deposits held in custody for others.

#### (h) Reclassifications

During 2002, the Foundation changed its method of recording grants authorized for which expenditures have not been incurred. Previously, these amounts were displayed as both grants receivables and deferred revenue on the balance sheet. Under the current method, grants authorized are not reflected on the balance sheet, which is the method generally followed by higher education institutions. Accordingly, the effect of this change was to reduce grants receivable and deferred revenue at June 30, 2001.

Certain other 2001 amounts have been reclassified to conform to the 2002 presentation.

## Notes to Financial Statements

June 30, 2002 and 2001

### (3) Investments

Investments held by the Foundation consist of the following at June 30, 2002 and 2001:

	2002		2001	
	Fair Value	Cost	Fair Value	Cost
U.S. Treasury Bills	\$ 11,932,800	11,761,200	9,354,335	9,289,098
U.S. Government Agency Obligations	19,946,700	19,886,598	11,329,517	10,854,055
U.S. Equity Securities	209,466	249,806	—	—
<b>Total</b>	<b>\$ 32,088,966</b>	<b>31,897,604</b>	<b>20,683,852</b>	<b>20,143,153</b>

Components of investment return are:

	2002	2001
Interest	\$ 1,671,069	3,721,435
Net (depreciation) appreciation in fair value of investments	(308,997)	540,699
<b>Total</b>	<b>\$ 1,362,072</b>	<b>4,262,134</b>

### (4) Pension and Other Retirement Benefits

Eligible employees of the Foundation and certain project personnel are covered under a defined contribution pension plan established with Teachers Insurance and Annuity Association (TIAA). The Foundation's contribution to the pension plan is based on specified percentages, ranging from 8% to 14%, of each employee's annual salary. Total pension expense for the years ended June 30, 2002 and 2001 was approximately \$6,130,000 and \$6,440,000, respectively. There are no unfunded past service costs.

In addition to providing pension benefits, the Foundation provides certain health care benefits to retired employees (including eligible dependents) who have a combination of age and years of service equal to 70 with a minimum age of 55 and at least ten years of continuous service. For the years ended June 30, 2002 and 2001, total claims paid for these benefits were approximately \$1,002,000 and \$1,031,000, respectively.

The Foundation accounts for postretirement medical and other nonpension benefits provided to retirees on an accrual basis during the period of their employment.

The following table sets forth the plan's funded status reconciled with the amounts shown in the Foundation's balance sheets as of June 30, 2002 and 2001:

	2002	2001
Benefit obligation	\$ (37,018,795)	(36,826,757)
Fair value of plan assets	6,697,375	5,081,796
 Funded status as of June 30	 (30,321,420)	 (31,744,961)
Unrecognized transition obligation	11,967,115	12,724,528
Unrecognized net loss	8,370,364	12,832,076
Unrecognized gain on plan amendment	(10,418,253)	(11,251,713)
 Accrued liability	 \$ (20,402,194)	 (17,440,070)

## Notes to Financial Statements

June 30, 2002 and 2001

During 2001, the Foundation amended its medical coverage for retirees reaching age 65 after June 30, 2001, limiting coverage to the Foundation's Blue Cross Blue Shield PPO Plan.

Postretirement benefit costs for 2002 and 2001 included the following components:

	<u>2002</u>	<u>2001</u>
Service cost	\$ 2,883,490	2,710,456
Interest cost	2,626,155	2,202,912
Amortization of transition obligation		
over 22.8 years	757,413	757,413
Amortization of gain on plan amendment	(833,460)	—
Amortization of unrecognized net loss	432,187	—
Expected return on plan assets	(301,499)	(251,182)
Net periodic postretirement benefit cost	<u>\$ 5,564,286</u>	<u>5,419,599</u>

The weighted average discount rate used in determining the accumulated postretirement benefit obligation was 7.00% and 7.25% as of June 30, 2002 and 2001, respectively. For measurement purposes, health care costs other than Medicare Part B were assumed to increase 9% and 9.5% for the years 2002 and 2001, respectively, and to decrease 0.5% per year until 2010 and remain at 5% thereafter. Medicare Part B costs were assumed to increase 4% annually.

In 1998, the Foundation adopted a policy of funding an amount approximating the annual amortization of the transition obligation in

a trust established under Section 501(c)(3) of the Internal Revenue Code. For the years ended June 30, 2002 and 2001, the Foundation made contributions to the trust of \$1,600,000 and \$800,000, respectively.

The Foundation also provides postemployment benefits, including salary continuance, to certain employees. The cost of these benefits is provided over the employees' years of service. Postemployment benefits' liability included in accounts payable and accrued expenses was approximately \$620,000 in 2002 and \$550,000 in 2001.

## (5) Deferred Revenue

At June 30, 2002 and 2001, cash advances for grants and contracts are for the following projects:

	<u>2002</u>	<u>2001</u>
Research	\$ 6,708,454	6,276,188
Training	17,114,056	8,776,305
Academic development	17,307,399	13,468,485
Student services	4,968,821	2,371,733
Other	3,880,242	2,039,802
	<u>\$ 49,978,972</u>	<u>32,932,513</u>

## Notes to Financial Statements

June 30, 2002 and 2001

### (6) Commitments

The Foundation is obligated under noncancelable operating leases for office space. Future minimum lease payments are as follows:

<u>Amount</u>	
Year ending June 30:	
2003	\$ 1,221,954
2004	1,244,620
2005	1,267,906
2006	1,291,838
2007	1,316,426
Thereafter	5,525,383
	<u>\$ 11,868,127</u>

Rent expense for the years ended June 30, 2002 and 2001 was \$907,696 and \$400,000, respectively.

### (7) Fair Value of Financial Instruments

The carrying amounts of cash equivalents, grants, contracts and accounts receivable, accounts payable and accrued expenses, and deposits held in custody for others approximate fair value due to the short maturity of these financial instruments.

### (8) Events of September 11, 2001

The events of September 11, 2001 resulted in operational disruptions and facilities damage, causing the Foundation to relocate its operations. In connection therewith, the Foundation wrote off its fixed assets located at 30 West Broadway and incurred business interruption costs of \$2,892,690 and \$1,576,591, respectively. The Foundation also recognized insurance recoveries of \$4,469,281, of which \$1,963,111 was received during fiscal 2002. Subsequent to June 30, 2002, the Foundation settled the claim with its insurance carrier and recorded additional insurance recoveries of \$775,880 in fiscal 2003.

# Research Foundation Supplemental Financial Schedules

(not a part of the independent audited financial statements)

**Grants and Contracts Expenses by Funding Source**

Years ended June 30, 2002 and 2001

	<u>2002</u>	<u>2001</u>
Governmental grants and contracts:		
National Science Foundation	\$ 13,239,900	12,515,214
Department of Health and Human Services	33,396,561	28,079,689
Department of Education	21,379,867	18,044,605
Other Federal sponsors	12,636,032	12,996,119
State sponsors	30,820,227	29,273,336
Municipal sponsors	45,772,789	34,864,462
	<hr/> <u>157,245,376</u>	<hr/> <u>135,773,425</u>
Private grants and contracts:		
PSC-CUNY research award program	2,891,968	3,031,665
Corporations	2,245,166	2,779,171
Foundations	8,083,941	7,730,815
Other Private	36,755,109	26,786,877
CUNY Miscellaneous	15,872,022	16,171,432
	<hr/> <u>65,848,206</u>	<hr/> <u>56,499,960</u>
Total private grants and contracts	<u>\$223,093,582</u>	<u>192,273,385</u>

## Distribution of Grants and Contracts Funds

Years ended June 30, 2002 and 2001

FEDERAL AWARDS:	2002	Percentage of total direct income	2001	Percentage of total direct income
Direct costs:				
Research programs	\$ 32,491,467	48.66%	\$ 25,870,526	43.73%
Training programs	10,169,970	15.23%	9,224,018	15.59%
Academic development programs	15,103,895	22.62%	16,518,432	27.92%
Student services programs	8,320,526	12.46%	7,224,617	12.21%
Other programs	690,221	1.03%	325,013	0.55%
Total direct costs	<u>66,776,079</u>	<u>100.00%</u>	<u>59,162,606</u>	<u>100.00%</u>
Indirect costs:				
Research programs	10,934,813	33.65%	9,256,878	35.78%
Training programs	942,110	9.26%	790,317	8.57%
Academic development programs	1,417,575	9.39%	1,841,067	11.15%
Student services programs	581,783	6.99%	584,759	8.09%
Other programs	—	0%	—	0%
Total indirect costs	<u>13,876,281</u>	<u>20.78%</u>	<u>12,473,021</u>	<u>21.08%</u>
Total grants and contracts	<u>\$ 80,652,360</u>		<u>\$ 71,635,627</u>	
NON-FEDERAL AWARDS:	2002	Percentage of total direct income	2001	Percentage of total direct income
Direct costs:				
Research programs	\$ 21,935,158	16.44%	\$ 17,594,062	15.61%
Training programs	59,585,642	44.67%	42,285,125	37.51%
Academic development programs	41,324,400	30.98%	42,787,898	37.96%
Student services programs	6,029,904	4.52%	5,485,740	4.87%
Other programs	4,525,657	3.39%	4,565,045	4.05%
Total direct costs	<u>133,400,761</u>	<u>100.00%</u>	<u>112,717,870</u>	<u>100.00%</u>
Indirect costs:				
Research programs	2,913,350	13.28%	2,351,404	13.36%
Training programs	4,160,065	6.98%	3,097,379	7.32%
Academic development programs	1,538,264	3.72%	1,785,390	4.17%
Student services programs	351,022	5.82%	493,321	8.99%
Other programs	77,760	1.72%	192,394	4.21%
Total indirect costs	<u>9,040,461</u>	<u>6.78%</u>	<u>7,919,888</u>	<u>7.03%</u>
Total grants and contracts	<u>\$ 142,441,222</u>		<u>\$ 120,637,758</u>	
<b>Total Activity</b>	<b><u>223,093,582</u></b>			<b><u>192,273,385</u></b>

**Research programs** – costs incurred for all research and development activities that are conducted in research centers and institutes.

**Training programs** – costs incurred for conducting nonstudent training programs.

**Academic development programs** – costs incurred in support of academic activities and program development.

**Student services programs** – costs incurred for the administration of student affairs and services for students.

**Other programs** – costs incurred for general purpose/equipment grants.

**Budget Categories of Grants and Contracts Expenses**

Years ended June 30, 2002 and 2001

	<u>2002</u>	<u>2001</u>
Personal services:		
Salaries and wages	\$ 110,521,367	99,189,905
Staff benefits	26,275,916	23,792,769
Total personal services	<u>136,797,283</u>	<u>122,982,674</u>
Other than personal services:		
Supplies	10,081,814	9,129,035
Telephone and communications	237,398	247,246
Postage and shipping	646,991	595,450
Occupancy	1,409,216	813,397
Printing and publications	677,642	889,968
Travel	3,524,824	3,289,302
Conferences and meetings	1,153,415	1,034,348
Independent contractors	3,132,264	3,241,032
Equipment and furniture	7,806,782	5,275,080
Equipment rental and maintenance	935,016	745,030
Scholarships, fellowships, and training allowance	19,459,182	10,906,273
Fund-raising	50,685	41,669
Professional fees	15,565	44,014
Subcontracts	8,995,060	8,338,459
Child Care subsidies	1,263,066	1,772,687
Advertising	269,965	552,346
Administrative fees	1,909,761	1,377,781
Other	1,810,911	604,685
Subtotal	<u>63,379,557</u>	<u>48,897,802</u>
Facilities and administrative costs reimbursements	22,916,742	20,392,909
Total other than personal services	<u>86,296,299</u>	<u>69,290,711</u>
Total grants and contracts	<u>\$ 223,093,582</u>	<u>192,273,385</u>

## Schedule of Operating Income

Years ended June 30, 2002 and 2001

	2002	2001
Revenues collected from:		
Administrative fees		
Administrative fees-fixed rate	\$ 16,045,087	12,689,711
Accrual of administrative fee revenue	216,970	—
PSC CUNY	305,935	305,935
Direct fees	588,323	461,190
Total Administrative Fees	<u>17,156,315</u>	<u>13,456,836</u>
Interest income	1,671,069	3,721,435
Net (depreciation) appreciation in fair value of investments	(308,997)	540,699
Insurance Proceeds - WTC	4,469,281	—
Recovery of Unused CAB Appropriations	160,499	261,132
Total income	<u>23,148,167</u>	<u>17,980,102</u>
Revenues allocated to:		
Initial allocations:		
RFCO expenses	(8,969,710)	(8,912,136)
Central allocation budget reserve	(3,443,650)	(3,419,161)
Contingency fund reserve	(100,000)	(100,000)
Employee termination reserve	(100,000)	(60,000)
Legal reserve	(500,000)	(525,000)
Foundation working capital reserve	(750,000)	(750,000)
Workflow and new systems implementation reserve	(350,000)	—
Reserve for HR/payroll application placement	(500,000)	—
Off-site recovery reserve	(100,000)	—
Marketing to new clients reserve	(30,000)	—
Plant fund	—	(500,000)
New financial accounting system reserve	—	—
Interest distributed to colleges	(1,641,069)	(3,371,435)
Interest distributed to RFCUNY	(30,000)	(100,000)
(Gain) loss on investments	308,997	(540,699)
RFCO internal funds	(3,849)	(28,250)
Mid-year allocations:		
Contingency fund reserve	(2,689)	—
Audit disallowance reserve	(263,477)	—
Employee termination reserve	(89,712)	—
University wide insurance – FY01	(8,541)	—
University wide insurance – FY02	(161,068)	—
Reserve for furniture and equipment purchases	(1,318,738)	—
Reserve for capital improvements	(88,368)	—
Reserve for business interruption costs	(695,357)	—
Reserve for physical plant	(4,469,281)	—
Technology transfer	(1,450)	—
Total deductions to administrative fee reserve	<u>(23,307,962)</u>	<u>(18,306,681)</u>
Increase (decrease) to administrative fee reserve	(159,795)	(326,579)
Administrative fee reserve at the beginning of the year	30,809	357,388
Administrative fee reserve at the end of the year	<u>\$ (128,986)</u>	<u>30,809</u>

## Reconciliation of Administrative Fee Expenditures

Years ended June 30, 2002 and 2001

	<u>2002</u>	<u>2001</u>
Total RFCO expenditures from operating budget	\$ 8,969,710	8,912,136
Less income used to offset expenditures:		
PSC/CUNY administrative fees	(305,935)	(305,935)
Direct fees from non CUNY clients	(588,323)	(461,190)
	<u>(894,258)</u>	<u>(767,125)</u>
	8,075,452	8,145,011
Total RF central office expenditures funded from administrative fees		
Plus reserve fund allocations:		
Central allocation budget reserve	2,872,000	2,776,279
University wide insurance	415,000	410,000
Contingency fund reserve	100,000	100,000
Employee termination reserve	100,000	60,000
Foundation working capital reserve	750,000	500,000
Legal reserve	500,000	525,000
Plant fund	—	500,000
Workflow and new systems implementation reserve	350,000	—
Reserve for hr/payroll application placement	500,000	—
Off-site recovery reserve	100,000	—
Marketing to new clients reserve	30,000	—
	<u>5,717,000</u>	<u>4,871,279</u>
Computed amount of administrative fee expenditures	13,792,452	13,016,290
Amount reported as administrative fee expenditure	<u>13,792,452</u>	<u>13,016,289</u>
Variance	\$ <u>—</u>	<u>1</u>

## Schedule of Changes in Deposits Held in Custody for Others

Years ended June 30, 2002 and 2001

	<u>2002</u>	<u>2001</u>
<b>Additions:</b>		
Facilities and administrative cost recoveries:		
From sponsored programs	\$ 22,916,742	19,625,783
From internal programs (college directed fees)	1,029,166	1,438,719
Released time recoveries	11,434,445	9,771,394
<b>Total</b>	<u>35,380,353</u>	<u>30,835,896</u>
Transfers from unrestricted net assets:		
Intercampus collaborations	442,589	442,100
CUNY research exchange	60,000	51,540
Return of college advances	—	837,100
Transfers from program services	—	76,722
Other income	35,000	—
<b>Total</b>	<u>537,589</u>	<u>1,407,462</u>
Interest income	1,641,069	3,218,255
<b>Total additions</b>	<u>37,559,011</u>	<u>35,461,613</u>
<b>Deductions:</b>		
Administrative fee paid RFCUNY	16,045,087	12,689,711
Campus based expenses:		
General academics	11,233,123	9,891,566
Research projects	1,547,453	1,897,920
Operations and maintenance	6,894	—
Training projects	19,807	221,170
Academic support	6,359,283	5,246,434
Replacement cost	1,683,718	1,375,709
Transfers to central research initiatives	156,650	—
Advances to fund restricted projects	354,635	—
Bad debt expense	1,400,000	600,000
<b>Total deductions</b>	<u>38,806,650</u>	<u>31,922,510</u>
Net (decrease) increase for the year	(1,247,639)	3,539,103
<b>Deposits held in custody for others:</b>		
Beginning of year	27,544,483	24,005,380
<b>End of year</b>	<u>\$ 26,296,844</u>	<u>27,544,483</u>

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