



INDUCTION

FALL 2002

American Academy Welcomes New Members

On Saturday, October 5, the Academy inducted its 223rd class of members at Harvard University's Sanders Theatre. With over 500 Fellows and guests in attendance, Academy officers greeted 180 new Fellows and Foreign Honorary Members—nearly 75 percent of this year's electees. Among those present were distinguished scholars, scientists, public and business leaders, writers, and artists. Induction speakers included Edward Kolb (Fermi National Accelerator Laboratory), Nancy Andreasen (University of Iowa), Philip Khoury (MIT), Daniel Schorr (National Public Radio), Chinua Achebe (Bard College), and Edward M. Kennedy (U.S. Senate).

At an orientation session held earlier that day at the House of the Academy, President Patricia Meyer Spacks (University of Virginia) told the group that the Academy was the creation of John Adams and other leaders of the new nation. "The scholar-patriots who founded the Academy," she said, "sought to establish not just an honorary society for distinguished individuals, but a community of thinkers and doers from every field and profession who would share their ideas and apply their talents to the pressing social problems of their time." Academy Vice President Louis Cabot (Cabot-Wellington, LLC) outlined the Academy's historic roots and its evolution over more than two centuries, while Secretary Emilio Bizzi (MIT) reviewed the rights and privileges of Fellows, including the nomination and election of new members, participation in Stated Meetings and informal gatherings held throughout the country, and involvement in projects and governance committees.

Executive Officer Leslie Berlowitz described the Academy's studies and publications, emphasizing that the Academy's independence enables it to set its own research agenda and to pursue its work free from political bias and ideological restraint. She introduced several Fellows who briefly described some of the issues that have shaped current Academy projects in three program areas: Science, Technology and Global Security; Humanities and Culture; and Social Policy and Education. John Steinbruner (University of Maryland), co-chair of the Academy's Committee on International Security Studies, described the Committee's study of U.S. space policy and emphasized the need for a more balanced discussion of the rules of space activity. Francis Oakley (Williams College) summarized the three-part strategy of the Academy's Initiative for Humanities and Culture: to create an improved system for developing humanities indicators for use by education planners and policy makers; to map the histories of the humanities (their evolution and institutional settings); and to support the next

CONTINUED P. 4



President Patricia Meyer Spacks welcomes new Fellow Senator Edward M. Kennedy

Lee Seng Tee Endows Humanities Lecture Series



Lee Seng Tee, Foreign Honorary Member from Singapore and director of the Lee Group of companies, has endowed a lecture series in the humanities. The lectures, which will be given biannually by distinguished humanists, will be known as the S. T. Lee Lectures in the Humanities of the American Academy of Arts and Sciences. Executive Officer Leslie Berlowitz noted, "We are deeply grateful to Dr. Lee for this very special gift—the first endowed lecture series in our 222-year history."

CONTINUED P. 2

Visiting Scholars Program Launched



Visiting Scholars: L-R: Andrew Jewett, Ann-Marie Mikkelsen, David Greenberg, Eric Bettinger, Joseph Entin, Jay Grossman, Chair of the Visiting Scholars Program James Carroll, and Page Fortna

In early September, the Academy welcomed scholars of economics, political science, English literature, history, and American studies to the inaugural class of its new Visiting Scholars Program (VSP). The program will support research conducted by young scholars and practitioners who show promise of becoming leaders in their fields. Contributing to the American Academy's multidisciplinary focus, specific research projects range from an examination of the effectiveness of international peacekeeping efforts in civil wars and an analysis of the use of school vouchers in a developing country to a study of the role of ideology in the confirmation process for Supreme Court justices and explorations of themes in twentieth-century humanities and culture. In spring 2003, Academy Fellow David Hollinger (University of California, Berkeley) will join the VSP for several weeks as a senior scholar. Hollinger is developing a study of the social forces that have transformed the humanities since World War II, as part of the Academy's Initiative for Humanities and Culture.

Historian and Fellow James Carroll, who is also a columnist for *The Boston Globe*, chairs the program. In his words, "the VSP will foster new ties between an emerging generation of thinkers and doers and members of the Academy with shared intellectual or policy-related interests. It will also create a national network for young scholars, assisting them in their research and in their career development." Carroll will also be in residence, working on a history of the Pentagon.

Applicants were selected through a national competition that judged both the distinction of their research and its relevance to the Academy's major areas of concern: Science, Technology, and Global Security; Social Policy and Education; and Humanities and Culture. As Executive Officer Leslie Berlowitz observed, "the number and quality of the applications received in this first year indicate that the new community the Academy is building will lead to accomplishments that grace the intellectual life of this country." In addition to Carroll and Berlowitz, members of the Academy's national oversight committee for the Visiting Scholars Program include R. Howard Bloch (Yale University), Allan Brandt (Harvard University), Neil Harris (University of Chicago), John Steinbruner (University of Maryland), Eugene Skonikoff (MIT), and Pauline Yu (UCLA).

To assist in launching the program, the Academy has developed a new relationship with forty-one colleges and universities across the country. University Affiliates provide support and guidance in advancing the goals of the Academy through the Visiting Scholars Program. Grants from the Annenberg Foundation and the Virginia Wellington Cabot Foundation will also provide funding for the Visiting Scholars.

A list of the new Visiting Scholars and their projects appears on page 13.

CONTENTS

COVER STORIES

- Induction 2002
- Visiting Scholars at the Academy
- Humanities Lecture Series

INSIDE

- Academy Projects 2
- Regional Activities 2
- Hewlett Foundation and the Humanities 3
- Broad Collection 3
- Selected Grants and Gifts 3
- Annual Fund Campaign 3
- New Inductees 5 - 13
- Visiting Scholars' Research 13
- David McCullough Stated Meeting 14
- New Councilors and Vice President 14
- Publications 16



Emily Hannum (University of Pennsylvania), a leader of the UBASE project's working group on the consequences of achieving universal education

Academy Program Explores Value of Universal and Basic Secondary Education

Global events in the past year have heightened interest in primary and secondary education, particularly in poor and developing regions. Anticipating the importance of this question in international affairs, the American Academy, two years ago, initiated the planning phase of a major study of the rationale, means, and consequences of universal and basic secondary education for all children across the globe. With support from the William and Flora Hewlett Foundation, the initiative was launched in earnest in September of 2001 under the leadership of Joel E.

Cohen (Rockefeller and Columbia Universities) and David E. Bloom (Harvard School of Public Health).

In the Summer 2002 issue of *Daedalus*, Cohen and Bloom reviewed the successes and failures of the last decade and the current obstacles to realizing universal education globally. "New thinking on designing and implementing a high-quality education for all the world's children is clearly needed," they asserted.

The Academy's Universal and Basic Secondary Education project has a number of features that set it apart from previous efforts to promote universal education. First, the project does not presume that the benefits of education are self-evident when compared to other values. Rather, it will provide an analytical assessment of the consequences of achieving universal education under conditions of limited resources. Second, the project defines education more broadly than most other efforts—extending the scope within the realm of formal education beyond the primary level to include secondary education, and beyond the classroom to include nonconventional forms of education. Third, the project takes into account the interactions of universal and local criteria for what constitutes high-quality education. Finally, fresh perspectives from across the academic disciplines—the ideas of economists, demographers, cultural anthropologists, and public health workers, among others—will be encouraged to complement the expertise of those in the education field.

Scholars and practitioners involved with this project have met several times in the past year at the Academy's headquarters in Cambridge and elsewhere to discuss these features of the study and the best way to achieve the goal of universal basic and secondary education. In the coming year, the project will publish a series of papers on such topics as the status of data on education, the history of efforts to achieve education for all, the consequences of achieving universal education, the goals and assessment of progress, the means and technologies of delivery, the political obstacles to success, and the question of cost and finance.

Congress and the Court

In recent years, the United States Supreme Court has developed a body of law that could profoundly alter two of the fundamental principles of American government—the separation of powers and federalism. For the first time since the New Deal, the Court has undertaken systematically to limit congressional power. Members of the Court have also



Supreme Court Justices David Souter, Ruth Bader Ginsburg, and Stephen Breyer

adopted new forms of statutory interpretation that in some instances exclude all reference to legislative history. At the same time, the congressional confirmation process has become increasingly contentious.

To inaugurate a new study of the issues underlying the changing relationship between Congress and the Court, the Academy sponsored a special Stated Meeting at the Library of Congress on March 21, 2002. Fellows and guests were welcomed by Librarian of Congress James Billington, while Academy Vice President Louis Cabot presided over the meeting. Supreme Court Justices Stephen Breyer, Ruth Bader Ginsburg, and David Souter, all Academy Fellows, were also in attendance.

The meeting was organized by the members of the planning committee for the study: Fellows Jesse Choper, Robert C. Post, and Nelson W. Polsby, all of the University of California at Berkeley, Abner Mikva of the University of Chicago Law School, and Linda Greenhouse of *The New York Times*. Committee members took part in a panel discussion following presentations by Senator Charles Schumer (D-New York) and J. Harvie Wilkinson, Chief Judge of the U.S. Fourth Circuit Court of Appeals.

Senator Schumer, a member of the Senate committee responsible for confirming Supreme Court justices, expressed concern about recent Supreme Court decisions that limit congressional power in favor of the judiciary. According to Schumer, "It appears to me that, with increasing frequency, the courts have tried to become policymaking bodies, supplanting court-made judgments for ours." In response to this shifting dynamic, Schumer proposed three criteria for selecting judges: excellence, moderation, and diversity. "We need to fill the bench with judges who represent all Americans, not just those with hard-line conservative views," he said. "Far-minded, moderate nominees are, in my mind, the best candidates to restore the proper balance of power between Congress and the courts and to refrain from engaging in judicial activism."

Judge Wilkinson countered Senator Schumer's focus on judicial activism, saying, "what one comes to appreciate in a colleague is not so much ideology but dedication, preparation, intelligence, humanity, and, above all, legal mastery and competence. I worry then that this new emphasis upon ideology is going to cause us to overlook the fact that professional habits of mind are what will serve the public best, day in and day out."

CONTINUED P. 15

Regional Activities

The American Academy continues its efforts to reach out to members with events and activities across the country. In the past year, the Academy hosted two Stated Meetings in New York City. In November of 2001, Academy Fellows Lee Bollinger and John Sexton, the then incoming presidents of Columbia University and New York University, respectively, exchanged views on the critical issues facing higher education, particularly on the need for greater interinstitutional cooperation. In February of 2002, Chinese scholars and Fellows Roderick MacFarquhar, Jonathan Spence, Jerome A. Cohen, and Tu Weiming took part in a panel discussion of China's role in global affairs. John Biggs, chair and chief executive officer of TIAA-CREF, hosted the meeting at the company's Manhattan headquarters. Panelists offered their varied political, cultural, religious, and legal perspectives on China's search for a modern identity and its impact on the continually changing vision of China to the United States. In March of 2002, the Academy initiated its newly formed study on the changing relationship between Congress and the Court with a special Stated Meeting at the Library of Congress in Washington, D.C. (see story, page 2).

These events complement the outreach activities of the Academy's regional centers in Irvine, California, and Chicago, Illinois. As the Academy's membership became increasingly national, these centers were established to create a presence for the Academy in the Midwest and West. At the Midwest Stated Meeting on October 26, 2002, David Bevington (University of Chicago) discussed "The Comedy of Errors as Early Experimental Shakespeare." The meeting at the Minneapolis Institute of Arts was preceded by a matinee performance of "The Comedy of Errors" at the Guthrie Theatre and a backstage tour of the facility. On November 2, 2002, the Western Center hosted an event in the wine country of Napa Valley, including a tour of the American Center for Wine, Food, and the Arts (COPIA) and a visit to the Mondavi winery. Carole Meredith (University of California, Davis), an authority on the genetic manipulation and analysis of grapevines, presented a talk entitled *Science as a Window into Wine History*.

In upcoming months the Academy again plans to host meetings in New York and Washington, D.C. On December 4, 2002, J. Kirk Varnedoe (Institute for Advanced Study) will speak on *Matisse, Picasso, and the Idea of Influence* at The Rockefeller University in New York. A meeting on judicial independence will be held in Washington, D.C., in the spring. Academy Fellows interested in learning more about these events, as well as the Academy's calendar of programs at its Cambridge headquarters and its regional centers, should contact the Membership Events Office at 617-576-5032.

LEE ENDOWS HUMANITIES LECTURE SERIES

CONTINUED FROM P. 1

Lee's philanthropic support for scholarship both here and abroad spans several decades. Lee has been a member of the council of both the University of Malaya and the University of Singapore. He also served on the Singapore Preservation of Monuments Board for nearly two decades and on the Advisory Board of the Singapore Raffles Museum. Currently, he is a member of the Board of the Singapore Art Museum and recently helped to establish the new Singapore Management University. He was named an Honorary Fellow of Wolfson College in 1986 and endowed its Lee Library. He is also an Honorary Fellow of the Needham Research Institute, the British Academy, and Oriel College, and a member of the Advisory Committee of the East Asia Institute and of the Chancellor's Court of Benefactors at the University of Oxford.

Hewlett Foundation Supports Humanities Indicators

The William and Flora Hewlett Foundation has awarded the American Academy a \$750,000 grant to advance its work on statistical indicators for the humanities. The grant will be used to improve data collection about the humanities and American education, to strengthen the research infrastructure, and to create new research tools to improve our understanding of the state of the liberal arts and knowledge more generally. This project is modeled after the National Science Foundation's *Science and Engineering Indicators*. The Academy Committee on Humanities Indicators, co-chaired by Francis Oakley (Williams College), Stephen Raudenbush (University of Michigan), and Kenneth Prewitt (Russell Sage Foundation), includes Robert Solow (MIT) and Jonathan Cole (Columbia University). Also associated with the effort are Susan Ball (College Art Association), Phyllis Franklin (formerly, Modern Language Association), John Hammer (National Humanities Alliance), Arnita Jones (American Historical Association), and Steven Wheatley (American Council of Learned Societies).

The overall purpose of this project is to encourage the creation of comprehensive new databases that will enable comparisons among the humanities, social sciences, and science disciplines. According to Leslie Berlowitz, Executive Officer of the Academy, "In order for any field to understand its current health, it needs to understand trends. The science and engineering community have this kind of planning data, but there is almost a total absence of information of this type for the humanities disciplines."

The Academy leads a consortium composed of nonprofit organizations in the humanities and higher education, including the Association of American Universities, the American Council of Learned Societies, and the National Humanities Alliance. The Hewlett grant will assist this group as it works to design guidelines for collecting humanities data that can be adopted by scholarly and professional organizations, public humanities organizations, and national educational groups. The development of such a template will allow professions to collect data consistently and compare this data across their respective fields.

Utilizing some of the currently existing resources on the humanities, the Academy also plans to commission a model series of research studies drawing on datasets from the National Center for Education Statistics at the U.S. Department of Education. These papers will address concerns about the quality of the liberal arts and the humanities in education, including enrollments, course-taking patterns, and school and university staffing.

Finally, the Academy will explore the possibility of including questions about humanities graduates in the National Science Foundation's *National Survey of College Graduates* (NSCG). For example, no existing database tracks the career choices of those who hold undergraduate or master's degrees in the humanities.

The Academy is grateful to the William and Flora Hewlett Foundation for their support of this and other Academy programs over the past thirty years. Last year the foundation awarded the Academy a three-year grant of \$800,000 for its study on Universal Basic and Secondary Education (see story on page 2), bringing the foundation's total support in 2001-2002 to \$1,550,000.

Broad Collection

Last summer, Fellows and their guests attended a special preview of a major new exhibit of contemporary art: "Jasper Johns to Jeff Koons: Four Decades of Art From the Broad Collection," on display at Boston's Museum of Fine Arts. Academy Fellow Eli Broad, chairman and chief executive officer of SunAmerica, Inc., and his wife Edythe have spent the last four decades collecting some of the most important and challenging works of contemporary American and German art.

Academy Fellow Stephanie Barron, chief curator of Modern and Contemporary Art at the Los Angeles County Museum of Art, together with Lynn Zelevansky, organized the exhibition, which showcases major works from the Broad collection. Among the artists represented are Jasper Johns, Andy Warhol, Jean-Michel Basquiat, Roy Lichtenstein, Cindy Sherman, and Jeff Koons. The show traveled from its initial viewing at the Los Angeles County Museum of Art to the Corcoran Gallery of Art in Washington and then to Boston.

"The Broad collection is certainly one of the most significant and well-regarded collections of postwar art in the United States," says Barron. The curators were faced with the challenge of selecting from over a thousand works of



Edythe Broad, Eli Broad (SunAmerica), Leslie Berlowitz, Patricia Spacks, Emilio Bizzi, and Malcolm Rogers (MFA)

CONTINUED P. 14

Annual Fund Supports Programs and Activities

The Annual Fund provides essential support for the Academy's enhanced program of projects and publications and its expanded outreach activities. With greater participation by Academy Fellows, the Annual Fund campaign for 2001-2002 totaled \$1,066,000. In October, the Academy launched its 2002-2003 campaign, seeking the participation of every member. As Louis Cabot, co-chair of the Development Committee, observed: "I am grateful to my co-chair Robert Alberty and the other members of the Development Committee for their persistent efforts on the Academy's behalf, and to all of the Fellows and friends who contributed, particularly those in the Leadership Circle categories. Our wish is that every Fellow will contribute to the Annual Fund this year to help provide the resources to implement the goals and objectives of our strategic plan for the Academy's future and to maintain a balanced budget in a period of economic uncertainty."

Selected Grants and Restricted Gifts

On March 31, 2002, the Academy completed another exceptional year of foundation and restricted support for projects and other activities. Selected recent grants and gifts to program areas include:

HUMANITIES AND CULTURE

Principal Investigators (PIs) include: Denis Donoghue, New York University; Steven Marcus, Columbia University; Francis Oakley, Williams College; Kenneth Prewitt, Russell Sage Foundation; Patricia Meyer Spacks, University of Virginia; and Leslie Berlowitz, American Academy of Arts and Sciences.

The William and Flora Hewlett Foundation – \$750,000 over four years to support the development of humanities indicators (story, page 3).

The Rockefeller Foundation – \$250,000 over two years to support the development of humanities indicators.

Sara Lee Corporation – \$60,000, third installment of \$180,000 grant supporting the Humanities and Culture Initiative.

SCIENCE, TECHNOLOGY, AND GLOBAL SECURITY

Carnegie Corporation of New York – the second year of a three-year \$548,500 grant to support *International Security in the Post-Soviet Space*. PI: Robert Legvold, Columbia University.

Carnegie Corporation of New York – the first year of a three-year \$497,000 grant for *Governance of the Military and Commercial Uses of Space*. PIs: John Steinbruner, University of Maryland, and Martin Malin, American Academy of Arts and Sciences.

W. Alton Jones Foundation – \$100,000 for *Governance of the Military and Commercial Uses of Space*. PIs: John Steinbruner and Martin Malin.

National Science Foundation – \$57,000 of a three-year \$99,000 grant for a study of *Human Origins as Shaped by Gene Evolution*. PI: Morris Goodman, Wayne State University.

National Science Foundation – \$87,000 to support the International Institute for Applied Systems Analysis. PI: M. Gordon Wolman, Johns Hopkins University.

SOCIAL POLICY AND EDUCATION

The Andrew W. Mellon Foundation – the second year of a \$468,000 three-year grant for *The Educational Impact of Changing Student Demographics in Colleges and Universities*. PI: Richard Light, Harvard University.

Carnegie Corporation of New York – \$25,000 for publication of one issue in the Academy's Occasional Papers series entitled "Evaluation and the Academy" (story, page 16).

The William and Flora Hewlett Foundation – \$800,000 over three years for the *Universal Basic and Secondary Education Project*. PIs: Joel Cohen, Rockefeller and Columbia Universities, and David Bloom, Harvard School of Public Health (story, page 2).

DAEDALUS

Germeshausen Foundation – \$65,000 to support an issue on Religion and Ecology.

OTHER

Cabot Family Charitable Trust – \$50,000 to help plan for the Academy's 225th Anniversary Celebration and Archives Project.

The Virginia Wellington Cabot Foundation – \$500,000 over four years for the Visiting Scholars Program and community outreach.

Forty-one University Affiliates – \$540,000 for the Visiting Scholars Program.



Participating in a recent Development Committee meeting in Cambridge were: Charles M. Haar (Harvard Law School), Executive Officer Leslie C. Berlowitz, and co-chairs Louis W. Cabot (Cabot-Wellington, LLC) and Robert A. Alberty (MIT). Participants in the monthly meeting by conference call include: J. P. Barger (Reboxx Corporation), Jesse H. Choper (UC, Berkeley), Michael E. Gellert (Windcrest Partners), William T. Golden (New York, New York), Elmer W. Johnson (Jenner & Block), Ruben F. Mettler (TRW Inc.), and Jack W. Peltason (UC, Irvine).

INDUCTION

CONTINUED FROM P. 1

generation of promising scholars through the Visiting Scholars Program. Robert C. Post (University of California, Berkeley), co-chair of the Academy's Committee on Congress and the Court, spoke about the committee's multidisciplinary study of the changing, and increasingly tense, relationship between the federal legislature and judiciary. David E. Bloom (Harvard School of Public Health), co-director (with Joel E. Cohen of Rockefeller and Columbia Universities) of the Academy's Universal Basic and Secondary Education project, presented an overview of the activities of its working groups, whose topics range from the goals and assessment of universal education to its costs and financing. Author and columnist James Carroll, Chair of the Academy's Visiting Scholars Program, described the diverse topics being explored by the program's first class of scholars and remarked on the vitality they are bringing to the Academy and its ongoing projects.

At the induction ceremony itself, six Academy inductees addressed the audience:

- Physicist-cosmologist Edward Kolb combined complex science with good humor, telling the audience, "I don't want to alarm you, but it seems that 95 percent of the mass and energy of the entire universe is missing . . . well, it's not exactly missing because we know it's there, we can measure its effect, but it seems to be invisible." The new century, said Kolb, will be a time of "clearing up the cosmic accounting irregularities," resulting in a revolution that could be as far reaching as the one sparked by Einstein and felt in disciplines beyond the sciences.

- Neuroimaging pioneer Nancy Andreasen remarked on the importance of integrity, using her own professional experience as both a professor of English and a medical researcher to exemplify the integration of two "cultures," the humanities and science. In her view, the collaboration of such outwardly disparate cultures—a true integration of the arts and sciences—will enable practitioners to wisely "navigate between the perils and promises" of vast knowledge in the biological sciences during the 21st century.

- Historian and MIT dean Philip Khoury spoke about the urgent need for information and understanding about non-Western societies, which he termed "distant cultures." Khoury observed that the current, unprecedented interest in Middle Eastern societies and the wider Islamic world is all too often met by simplistic theories or by lack of skill in communicating the more richly nuanced portraits of these cultures. He challenged the humanities and social sciences to make their knowledge more broadly accessible in an effort to produce a genuine "dialogue of cultures."

- National Public Radio senior news analyst Daniel Schorr remarked that over the years, he has developed serious reservations about his industry. Invoking the words of his mentor, Edward R. Murrow, who warned that television "insulates us from the realities of the world in which we live," Schorr said that the media had displayed "an inexorable attraction to scandal, along with violence, and the hot pursuit of celebrities." There were exceptions, including coverage of September 11, but overall, he expressed sadness over the state of journalism, a profession he has "loved not always wisely, but well."

- Nigerian novelist and Foreign Honorary Member Chinua Achebe spoke of the ways that African writers take stories about Africa written by Western writers and "stand them on their head," rejecting their exotic broken English and images of silent African "savages." Achebe said that, in his own writing, he chose to reflect on the eloquence and dignity of the language he had heard in his own village. To demonstrate, he read a short passage from his first novel, *Things Fall Apart*, a complex portrait of a traditional African village and its culture.

- Edward M. Kennedy, U.S. Senator from the Commonwealth of Massachusetts, stated that the nation today faces great uncertainty and challenge, much as it did



1



2



3



4



5



6



7



8



9

PHOTO CAPTIONS

1. Orientation speakers Robert C. Post (UC, Berkeley), John Steinbruner (University of Maryland), David Bloom (Harvard School of Public Health), Francis Oakley (Williams College), and James Carroll (Visiting Scholars Program)
2. University leaders William Kirwan (University System of Maryland), David Frohnmayer (University of Oregon), and Stephen J. Trachtenburg (George Washington University)
3. New Fellows Ronald and Joan Conaway (Stowers Institute, Kansas City)
4. Amory Houghton, Jr. (U.S. Congress), David Greenberg (Visiting Scholars Program), Andy Zelleke (American Academy of Arts and Sciences), and Warren Rudman (Paul, Weiss, Rifkind, Wharton & Garrison)
5. Kong Hwa Koh and Douglas N. C. Lin (UC, Santa Cruz)
6. Induction Ceremony speakers Edward M. Kennedy (U.S. Senate), Philip Khoury (MIT), Daniel Schorr (National Public Radio), Edward Kolb (Fermi National Accelerator Laboratory), and Nancy Andreasen (University of Iowa)
7. Induction Ceremony speaker Chinua Achebe (Bard College) with Academy President Patricia Meyer Spacks (University of Virginia) and Executive Officer Leslie Berlowitz
8. Sara Lee Schupf (New York Academy of Sciences) and Frances Fergusson (Vassar College)
9. William Ederly (State Street Corporation, Boston) and Academy Vice President Louis Cabot (Cabot-Wellington, LLC)

PHOTO CREDITS

Martha Stewart: page 1, top and middle; pages 3, 4, 13, 14, top left and bottom, 15
 Jocelyn Augustino: page 2, middle
 Museum Associates/LACMA: page 14, top right

NEW MEMBERS OF THE ACADEMY

CLASS I

MATHEMATICAL AND PHYSICAL SCIENCES

SECTION 1

MATHEMATICS

ROBERT L. BRYANT

DUKE UNIVERSITY, DURHAM, NORTH CAROLINA

J. M. Kreps Professor of Mathematics. Made major contributions to differential geometry, particularly geometric partial differential equations and cohomology.

RICHARD T. DURRETT

CORNELL UNIVERSITY, ITHACA, NEW YORK

Professor of Mathematics. Leader in probability theory and its applications to ecology and population biology. Invented fundamental tools in interacting particle systems and applied these systems to give conditions for the coexistence of species in spatial stochastic models.

JOSEPH D. HARRIS

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Professor of Mathematics. Authority in algebraic geometry. Resolved fundamental questions of Brill-Noether and Severi and proved (with Mumford) the nonrationality of the moduli space of curves.

MICHAEL J. HOPKINS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASSACHUSETTS

Professor of Mathematics. Led work in homotopy theory and forged remarkable connections with algebraic geometry. Awarded the Veblen Prize for his studies of formal groups and nilpotence in stable homotopy theory.

CARLOS E. KENIG

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Louis Block Distinguished Service Professor of Mathematics. Discovered new applications of oscillatory integrals and Fourier analysis to nonlinear wave and Schrödinger equations. Developed tools to understand the geometry of free boundary surfaces as well as the behavior of solutions to elliptic partial differential equations near fixed boundaries.

PETER McCULLAGH

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Ralph and Mary Otis Isham Professor. Principal architect of the modern theory and application of generalized linear models. Conducted research on discrete data analysis, the theory of statistical inference, the group theoretic structure of statistical models, and the application of tensor methods in multivariate analysis.

SECTION 2

PHYSICS

BRYCE S. DEWITT

UNIVERSITY OF TEXAS, AUSTIN, TEXAS

Professor of Physics. Contributed to the quantum theory of gravity and made seminal advances in gravitational physics, from the theory of vacuum stresses to the formal framework of gravitation and non-abelian gauge theories to mathematical relativity. Worked on the interpretation of quantum mechanics as well as the mathematics of supersymmetry.

RONALD WILLIAM PREST DREVER

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA,
CALIFORNIA

Professor of Physics. Used NMR in the earth's magnetic field to place a 10–22 limit on anisotropy of inertial mass. Inventor and co-developer of Pound-Drever-Hall laser stabilization. Co-founder of the LIGO Project for gravitational wave detection and led construction and development of its 40-meter prototype. Invented many aspects of gravitational wave detectors.

CLAIRE ELLEN MAX

UNIVERSITY OF CALIFORNIA, SANTA CRUZ,
CALIFORNIA; LAWRENCE LIVERMORE NATIONAL
LABORATORY, LIVERMORE, CALIFORNIA

Professor of Astronomy and Associate Director, Center for Adaptive Optics; Physicist. Works in plasma physics, high-energy astrophysics, and astronomy. Experimental demonstrations of the utility of the upper-atmospheric sodium atoms for adaptive optics and her pressure on DoD led to the declassification of much of the useful DoD work on laser guidestars. Leader in the exploitation of adaptive optics.

JOSEPH G. POLCHINSKI

UNIVERSITY OF CALIFORNIA, SANTA BARBARA,
CALIFORNIA

Professor of Physics. Leading field and string theorist. Reformulated the Wilsonian renormalization group and discovered the string theory realization of D-branes.

CLIFFORD M. WILL

WASHINGTON UNIVERSITY IN ST. LOUIS, ST. LOUIS,
MISSOURI

Professor and Chair, Department of Physics. Demonstrated that general relativity is the correct classical theory of gravity. Developed techniques for comparing gravitation theories with each other and with experiment and invented experimental tests based on geophysical, planetary, and laboratory data. Laid theoretical foundations for future gravitational wave observations.

MARK BRIAN WISE

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA,
CALIFORNIA

John A. McCone Professor of High Energy Physics. Awarded the 2001 J. J. Sakurai Prize of the American Physical Society for his construction of the heavy quark mass expansion and his discovery of heavy quark symmetry.

THOMAS ADAMS WITTEN

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Professor of Physics. Pioneered the fractal study of aggregating materials. Co-inventor of diffusion-limited aggregation. Generated formalism to treat the statistics of polymers in densely grafted brushes showing new power law regimes and predicted scaling laws for capillary flow responsible for widespread pattern formation in evaporating drops.

SECTION 3

CHEMISTRY

BRIAN M. HOFFMAN

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Professor of Chemistry. Contributed to biochemistry, bioinorganic chemistry, and electron paramagnetic resonance spectroscopy. Work has involved dioxygen binding to metalloporphyrins, long-range electron transfer within protein complexes, and the spectroscopic determination of metalloprotein active-site structure and function.

KENDALL NEWCOMB HOUK

UNIVERSITY OF CALIFORNIA, LOS ANGELES,
CALIFORNIA

Professor of Chemistry. Leading theoretical organic chemist. Discovered the origins of the stereoselectivity of many important synthetic organic reactions. Responsible for the first definitive quantum mechanical calculations to establish transition states of many types of organic reactions. Developed the theory of organic stereoselectivity and substituent effects on rates. Former director of the Chemistry Division of the National Science Foundation.

CHARLES M. LIEBER

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Mark Hyman, Jr. Professor of Chemistry. Research interests include the chemistry and physics of materials with an emphasis on low dimensional and nanoscale materials; rational synthesis of new nanoscale materials and nanostructured solids; development of methodologies for hierarchical assembly of nanoscale materials into complex and functional systems; investigation of fundamental electronic, optical, and optoelectronic properties of nanoscale materials; and design and development of nanoelectronics and nanophotonic systems, with emphasis on electrically based biological detection, digital and quantum computing, and photonic systems.

GEORGE ANDREW OLAH

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES,
CALIFORNIA

Donald P. and Katherine B. Loker Distinguished Professor of Organic Chemistry. Pioneered several broad areas of chemistry, including superacid chemistry, the study of carbocations and other key intermediates, and new synthetic methods, reactions, and processes for a new environmentally friendly production of hydrocarbons. Received the Nobel Prize in Chemistry in 1994.

GEORGE CHAPPELL SCHATZ

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Professor of Chemistry. Performed the first quantum mechanical studies of chemical reactions. Reaction dynamics theories led to the discovery of transition state resonances and mode-specific chemical reactions. Formulated theories of nanoparticle optical properties and DNA melting of relevance to biological molecule sensing.

PETER JOHN STANG

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Distinguished Professor in the Department of Chemistry. Expert in molecular architecture via coordination and the ready preparation of discrete supramolecular species via self-assembly, vinyl cations and unsaturated carbenes, vinyl(enol) triflate chemistry, and organic polyvalent iodine and alkynyl ester chemistry.

SECTION 4

ASTRONOMY (including Astrophysics) AND EARTH SCIENCES

RONALD NEWBOLD BRACEWELL

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Lewis M. Terman Professor of Electrical Engineering, Emeritus. Seminal work on astronomical imaging—including smoothing, uniqueness, restoration, and reconstruction—underlies modern interferometry and forms the basis for reconstruction algorithms used in computerized axial tomography. Contributed to solar and extragalactic radio astronomy and introduced the idea of searching for extra-solar planets with an infrared nulling interferometer.

MARK A. CANE

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

G. Unger Vetlesen Professor of Earth and Climate Sciences; Professor of Applied Physics and Applied Mathematics. Principally responsible for unraveling the mystery of the El Niño phenomenon. Produced, with co-workers, the first comprehensive and self-consistent model of the coupled atmosphere-ocean mode of instability that explains the fundamental character of El Niño and allows it to be predicted.

EDWARD W. KOLB

FERMI NATIONAL ACCELERATOR LABORATORY, BATAVIA,
ILLINOIS

Member of Astrophysics Group. Leader in cosmology. Applies modern particle theory to astrophysics and cosmology and is one of the pioneers of this interdisciplinary field.

DOUGLAS N. C. LIN

UNIVERSITY OF CALIFORNIA, SANTA CRUZ, CALIFORNIA

Professor of Astronomy and Astrophysics. Studies of tidal truncation of a disk by an embedded body, orbital migration of that body, disk instability in cataclysmic variables, tidal stripping of the Magellanic Clouds, and dwarf galaxies helped change the perception of planets, stars, and galaxies as passively evolving objects.

HARRY Y. McSWEEN, JR.

UNIVERSITY OF TENNESSEE, KNOXVILLE, TENNESSEE

Distinguished Professor of Science. Expert in studies of meteorites and their interpretation in terms of processes in planetary bodies and the solar system. Participated in the science teams of numerous spacecraft missions to Mars.

MARK H. THIEMENS

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA

Professor of Atmospheric Chemistry. Discovered and subsequently developed and applied mass independent isotopic effects, which have been applied to understanding a wide range of issues, from definition of sources of greenhouse gases to stratospheric ozone chemistry, to the global transport of aerosol particles, to the origin and evolution of the solar system.

JOHN A. WHITEHEAD

WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASSACHUSETTS

Senior Scientist, Paul M. Fye Chair. Contributed to many areas of geophysical fluid dynamics. Experimental work on convection led the way in understanding the nonlinear character of stability theory for thermal convection. Has done experimental work on the dynamics of flows in volcanic conduits in the earth's mantle, in deep, hydraulically controlled oceanic flows in straits connected to ocean basins, and on multiple equilibria in fluid systems pertinent to the oceanic thermohaline circulation.

SECTION 5

ENGINEERING SCIENCES AND TECHNOLOGIES

TED BELYTSCHKO

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Walter P. Murphy Professor of Mechanical Engineering. Formulated nonlinear finite element methods for crashworthiness simulation, nuclear reactor safety, and process simulation. Produced novel methods for crack growth simulation and time integration and has developed high-speed finite elements.

JAMES G. FUJIMOTO

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS

Professor of Electrical Engineering and Computer Science. Leader in ultrafast optics and the pioneer of optical coherence tomography, an important technique for obtaining micron-scale cross-sectional imaging of biological tissue. Recipient of the Rank Prize.

ALICE PETRY GAST

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS

Robert T. Haslam Professor; Vice President for Research; Associate Provost. Authority on the chemistry, physics, and engineering applications of soft materials. Advanced our knowledge of order-disorder transitions in a wide variety of synthetic and natural materials and has studied polymer adsorption and the response of polymers to electric and magnetic fields.

DELON HAMPTON

DELON HAMPTON & ASSOCIATES, WASHINGTON, D.C.

Chairman of the Board. Expert in the field of civil engineering and the construction industry. Advocates diversity in engineering and has been influential in shaping civil engineering through professional society leadership.

SIEGFRIED S. HECKER

LOS ALAMOS NATIONAL LABORATORY, LOS ALAMOS, NEW MEXICO

Senior Fellow; Former Director. Laboratory contributed to national security through nuclear stockpile stewardship under his directorship. Continues to play a role in securing nuclear installations in Russia and to perform research on plutonium metallurgy.

WILLIAM D. NIX

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Lee Otterson Professor of Engineering. Made major contributions, both theoretical and experimental, to our understanding of the mechanical behavior of a wide range of materials. Developed widely used basic equations for interpreting nanoindentation experiments and brought attention to the nanoindentation technique.

SECTION 6

COMPUTER SCIENCES

(including Artificial Intelligence and Information Technologies)

JOEL S. BIRNBAUM

HEWLETT-PACKARD COMPANY, PALO ALTO, CALIFORNIA

Senior Technical Advisor. Pioneer in the development of distributed computer system architecture, real-time data acquisition, analysis and control, and RISC processor architecture.

DAVID D. CLARK

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS

Senior Research Scientist. Led the development of the Internet, acted as chief protocol architect (1981–1989), and chaired the Internet Activities Board. Recent activities include extensions to the Internet to support new services and applications, pricing and related economic issues, and policy issues surrounding local loop deployment. Chairman of the Computer Science and Telecommunications Board of the National Research Council.

HECTOR GARCIA-MOLINA

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Leonard Bosack and Sandra Lerner Professor; Chairman, Department of Computer Science. Researcher in database management systems and digital libraries. Has studied long transactions, main-memory databases, replicated data, voting schemes, and disk striping. Recipient of the ACM SIGMOD Innovations Award in 1999.

RANDY H. KATZ

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Professor of Computer Science. Focuses on methods to achieve high performance by spanning multiple technical disciplines in the field of computing systems. Contributions include innovative systems for design versioning, coherent multiprocessor memories, redundant and parallel storage (RAID), and wireless multi-networks.

ROBERT F. SPROULL

SUN MICROSYSTEMS, INC., BURLINGTON, MASSACHUSETTS

Vice President; Fellow. Founded and led Sun's Massachusetts research laboratory for ten years. Co-author of a computer graphics textbook and developer of programming systems and of hardware and software for printing complex page images. Conducted research in integrated circuit design, especially in asynchronous systems.

GUY L. STEELE JR.

SUN MICROSYSTEMS, INC., BURLINGTON, MASSACHUSETTS

Distinguished Engineer. Co-creator of the Scheme language, designer of the original EMACS command set, and co-author of widely used technical books on C, Common Lisp, High Performance FORTRAN, and Java. Received the ACM Grace Murray Hopper Award in 1988.

IRVING WLADAWSKY-BERGER

INTERNATIONAL BUSINESS MACHINES, SOMERS, NEW YORK

Vice President, Technology and Strategy Server Group. Led efforts to bring advanced technologies to the marketplace, including initiatives in supercomputing and parallel computing. Currently directs IBM's strategy for Linux, e-business, and the future of the Internet. A founding member of the Computer Science and Technology Board of the National Research Council. He co-chaired the President's Information Technology Advisory Committee.

CLASS II

BIOLOGICAL SCIENCES

SECTION 1

BIOCHEMISTRY AND MOLECULAR BIOLOGY

ADRIAAN BAX

NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES, BETHESDA, MARYLAND

Chief, Biophysical Nuclear Magnetic Resonance Spectroscopy Section. Conducted pioneering research in the development of nuclear magnetic resonance as a powerful and practical tool for the determination of the three-dimensional structure of proteins in solution.

JOAN W. CONAWAY

STOWERS INSTITUTE, KANSAS CITY, MISSOURI

Senior Scientist; Biochemist and Molecular Biologist. First complete reconstitution of a mammalian RNA polymerase II transcription system. Co-discovered general transcription factor TFIIF and Elongin, its interaction with the VHL tumor suppressor protein and function of the complex as a ubiquitin ligase.

RONALD C. CONAWAY

STOWERS INSTITUTE, KANSAS CITY, MISSOURI

Senior Scientist; Biochemist and Molecular Biologist. First complete reconstitution of a mammalian RNA polymerase II transcription system. Co-discovered general transcription factor TFIIF and Elongin, its interaction with the VHL tumor suppressor protein and function of the complex as a ubiquitin ligase.

GREGORY A. PETSKO

BRANDEIS UNIVERSITY, WALTHAM, MASSACHUSETTS

Professor of Biochemistry and Chemistry. Pioneered the development of low-temperature X-ray crystallography. Generated major methods at the interphase between crystallography and enzymology, including low-temperature protein crystallography and time-resolved crystallography.

SUE HENGREN WICKNER

NATIONAL CANCER INSTITUTE, BETHESDA, MARYLAND

Chief, DNA Molecular Biology Section. Major contributor to the understanding of the enzymatic mechanisms of DNA replication. Among the first to purify key replication enzymes. Demonstrated that replication proteins can target other proteins to DNA sites or remodel inactive complexes.

IAN ANDREW WILSON

SCRIPPS RESEARCH INSTITUTE, LA JOLLA, CALIFORNIA

Professor of Molecular Biology. Leader in the three-dimensional structural elucidation of many of the components of the immune system. Worked out structures for protein-protein interactions that are at the heart of the immune response.

RICHARD VANCE WOLFENDEN

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NORTH CAROLINA

Alumni Distinguished Professor of Chemistry, Biochemistry, and Biophysics. Showed that transition state and multisubstrate analogs are bound more tightly by an enzyme than the substrate. Synthesized prototypes of drugs effective against HIV and hypertension and evaluated the contribution of changing solvation to binding interactions in water.

SECTION 2

CELLULAR AND DEVELOPMENTAL BIOLOGY, MICROBIOLOGY, AND IMMUNOLOGY

(including Genetics)

DAVID J. ANDERSON

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

Professor of Biology. Made major contributions to stem cell biology, including the first isolation of a vertebrate neural stem cell, the first isolation of vertebrate proneural genes that are master regulators of neurogenesis, and the discovery that the endothelial cells of arteries and veins are genetically distinct.

HOWARD GEST

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

Distinguished Professor Emeritus. Leading figure in the area of physiology, photometabolism, phylogeny, and intermediary metabolism of phototrophic bacteria. Discovered photoproduction of molecular hydrogen by purple non-sulfur bacteria as well as nitrogen fixation in phototrophic bacteria. Isolated Heliobacteria, a new group of phototrophic bacteria.

EVERETT PETER GREENBERG

UNIVERSITY OF IOWA, IOWA CITY, IOWA

Virgil L. and Evalyn N. Shepperd Chair of Microbiology. Established that communication between bacteria is a general biological phenomenon. Elucidated the mechanisms of quorum sensing, showed its generality, and demonstrated its role in virulence, symbiosis, and bacterial biofilm formation.

MARY BERNADETTE KENNEDY

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

Professor of Biology. Leader in understanding the molecular and cellular basis of forms of synaptic plasticity that underlie learning and memory. Opened up areas of investigation that have led to new insights into molecular mechanisms of learning.

THOMAS E. SHENK

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

Chairman, Department of Molecular Biology. Virologist who has developed methods for the genetic and biochemical dissection of human adenovirus and human cytomegalovirus. Elucidated the functions of numerous viral gene products and identified cellular genes that play roles during viral replication and pathogenesis.

BRUCE MICHAEL SPIEGELMAN

HARVARD MEDICAL SCHOOL AND DANA-FARBER CANCER INSTITUTE, BOSTON, MASSACHUSETTS

Professor of Cell Biology. Leader in understanding fat cell differentiation and in discovering the transcriptional signals important to obesity and type 2 diabetes. Identified the major transcriptional regulators of adipogenesis and adaptive thermogenesis in mammals and has shown that they have a critical function in glucose homeostasis.

RONALD D. VALE

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor of Cellular and Molecular Pharmacology; Howard Hughes Investigator. Discovered kinesin, a motor protein important in all facets of cellular function. Combining biochemistry, mutagenesis, and structural biology, has dissected kinesin function. A leader in defining mechanisms of molecular motors and in single molecule analysis.

PETER WALTER

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor of Biochemistry and Biophysics; Howard Hughes Investigator. Identified the signal recognition particle and showed how it assembles and recognizes signal sequences. Unprecedented mechanism for cellular homeostasis called the unfolded protein response was discovered in his laboratory.

SECTION 3

NEUROSCIENCES, COGNITIVE SCIENCES, AND BEHAVIORAL BIOLOGY

BERNARD WILLIAM AGRANOFF

UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

Ralph Waldo Gerard Professor of Neurosciences. Identified several previously unknown lipids, including cytidinediphosphatidylglycerol, precursor of phosphatidylinositol, the parent compound of the major intracellular second messengers diacylglycerol and inositol trisphosphate. Established the essential role of protein synthesis in long-term memory formation.

RICHARD A. ANDERSEN

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

James G. Boswell Professor of Neuroscience. Has focused on the role of the posterior parietal cortex in visual-motor integration, spatial perception, and visual-motion analysis. Showed that neural computations for transforming cortical representations are performed by a gain-field mechanism. Elucidated intention related neural activity that forms a cognitive basis for movement planning.

NANCY C. ANDREASEN

UNIVERSITY OF IOWA, IOWA CITY, IOWA

Andrew H. Woods Chair of Psychiatry. Made paradigm-shifting discoveries about the neural mechanisms of schizophrenia, demonstrating that it is a neurodevelopmental disorder affecting distributed brain circuitry. Conducted integrative studies of mind and brain, joining objective symptom and behavioral measures with neuroimaging technology to study mental disorders, as well as processes such as memory and creativity.

CORNELIA ISABELLA BARGMANN

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor and Vice Chair, Department of Anatomy. Pioneer in studying the process of olfaction. Made important breakthroughs in understanding how aspects of odor detection, discrimination, and response are encoded by the nervous system.

APOSTOLOS P. GEORGOPOULOS

VETERANS AFFAIRS MEDICAL CENTER AND UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA

Professor of Neuroscience, Neurology, and Psychiatry. Deciphered brain activity underlying planning of movement and cognitive processing. Discovered the directional tuning of single cells in the motor cortex and used neuronal population analyses to visualize mental rotation, memory scanning, and serial order encoding in motor cortical populations.

ALBERT JAMES HUDSPETH

ROCKEFELLER UNIVERSITY, NEW YORK, NEW YORK

F. M. Kirby Professor; Howard Hughes Investigator. Leader in the field of sensory neurobiology and receptor biophysics. Elucidated the operation of mechano-sensitive transducer channels found in the stereocilia of all hair cells.

NICHOLAS CANADAY SPITZER

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA

Professor of Biology. Research centers on developmental neurobiology. Carried out fundamental work on the embryonic development of classical electrical excitability and showed the importance of spontaneous activity and calcium transients for neuronal development. Discerned novel forms of excitability and demonstrated coding of their functions by the frequency of calcium transients.

MICHAEL P. STRYKER

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor and Chair, Department of Physiology. Elucidated the key role of neural activity and early visual experience in the development of the cortex of the mammalian brain. Showed how experience can shape the organization of the brain through effects on growth and stability of synaptic connections.

SECTION 4

EVOLUTIONARY AND POPULATION BIOLOGY AND ECOLOGY

F. STUART CHAPIN III

UNIVERSITY OF ALASKA, FAIRBANKS, ALASKA

Professor of Biology. Leading force in bringing a mechanistic approach to the study of ecosystem dynamics. Work focuses on how ecosystems change through successional and evolutionary time and how they will respond to global change.

SUSAN MARIE KIDWELL

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Professor, Department of Geophysical Sciences. Founder of modern taphonomy, producing deeper understanding of biological and physical processes that determine the accumulation, preservation, and resolving power of multispecies fossil assemblages.

MIMI A. R. KOEHL

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Professor of Integrative Biology. Expert in biomechanics and functional morphology. Applied engineering principles to an understanding of how organisms perform in nature. Studies mechanisms of feeding, locomotion, mechanical support, and morphogenesis, as well as how organisms withstand and use the movement of water and air in their environment.

MICHAEL LYNCH

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

Professor of Biology. Leading evolutionary quantitative geneticist. Theoretical and experimental contributions to diverse disciplines, including evolution of quantitative traits, mutational meltdown and its impact on conservation biology, and mechanisms of the evolution of duplicated genes in vertebrate evolution.

WILLIAM W. MURDOCH

UNIVERSITY OF CALIFORNIA, SANTA BARBARA, CALIFORNIA

Professor of Biology. Pioneer in demonstrating the power of simple but mechanistic approaches to ecological theory, especially theories of population regulation and biological control of pests. Serves on the Board of Governors of The Nature Conservancy.

TIMOTHY DOUGLAS WHITE

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Professor of Integrative Biology. Human paleontologist and osteologist who has made important discoveries of early hominid fossils in Africa. Analyses document prehistoric cannibalism.

SECTION 5

MEDICAL SCIENCES (*including Physiology and Pharmacology*), CLINICAL MEDICINE, AND PUBLIC HEALTH

MINA J. BISSELL

LAWRENCE BERKELEY NATIONAL LABORATORY, BERKELEY, CALIFORNIA

Director, Life Sciences Division. Authority on cell structure and function with emphasis on breast cancer. Research has provided seminal underpinnings to understanding the role of the extracellular matrix in both normal growth and differentiation and of the abnormalities that give rise to cancer.

JOHN ALLEN CLEMENTS

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor of Pulmonary Biology. Known for his discovery of pulmonary surfactant and the characterization of its components and physiological regulation. Produced the first exogenous surfactant approved for clinical use, an advance that has saved the lives of thousands of babies throughout the world.

SHAUN ROBERT COUGHLIN

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA

Professor of Medicine; Director, Cardiovascular Research Institute. Solved the mystery of how a protease can act like a hormone to regulate cellular responses by identifying and characterizing a family of protease-activated receptors. System he discovered links tissue injury to cellular responses and may lead to novel drugs to prevent or treat thrombosis and other disorders.

MARK CHARLES FISHMAN

NOVARTIS INSTITUTE OF BIOMEDICAL RESEARCH, CAMBRIDGE, MASSACHUSETTS

President. A major force in the introduction of the zebrafish as a new genetic model organism. Identified key genes that fashion cardiovascular form and function in the embryo.

IRMA GIGLI

UNIVERSITY OF TEXAS, HOUSTON, TEXAS

Walter and Mary Mischer Professor of Molecular Medicine. Clinician-scientist in the field of dermatology. Made contributions to the immunopathogenesis of skin disease and to the field of immunochemistry.

ELLIOTT DAN KIEFF

HARVARD MEDICAL SCHOOL AND BRIGHAM AND WOMEN'S HOSPITAL, BOSTON, MASSACHUSETTS

Harriet Ryan Albee Professor of Medicine. Scholar in the field of human virology. Made seminal discoveries concerning the immunological, cell biological, and molecular events by which the Epstein Barr virus causes infectious mononucleosis and contributes to human malignancies.

KENNETH MARC LUDMERER

WASHINGTON UNIVERSITY IN ST. LOUIS, ST. LOUIS, MISSOURI

Professor of Medicine. Physician-historian whose two books on the history of American medical education will serve as the definitive account of the subject for our generation and will undoubtedly be the basis for all planning of medical education in the next century.

ANTHONY R. MEANS

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Nanah H. Duke Professor and Chairman of Pharmacology and Cancer Biology. Studied cellular signaling mechanisms, calmodulin, cAMP dependent protein kinase, and calcium and calmodulin-regulated kinases (CaM kinases). Characterized CaMKIV and caldesmon, a testis CaMKIV alternative gene product, designed studies to characterize the structure and regulation of CaM kinases, and generated a CaMKIV deficient mouse.

VICTOR NUSSENZWEIG

NEW YORK UNIVERSITY SCHOOL OF MEDICINE, NEW YORK, NEW YORK

Herman M. Biggs Professor of Pathology. Discovered and characterized proteins that regulate leukocyte function and the complement system. Provided the rationale for the development of a malaria vaccine currently efficacious in human trials by identifying and cloning the major surface protein (CS) of malaria sporozoites and characterizing its immunodominant, protective B epitope.

JERROLD M. OLEFSKY

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA

Professor of Medicine. Combined basic science research with clinical investigation to advance our understanding of diabetes mellitus. Pioneered the idea of insulin resistance, which is now accepted as a primary defect in type 2 diabetes mellitus. Described mechanisms of signaling by insulin in cells and applied these to human disease.

CLASS III

SOCIAL SCIENCES

SECTION 1

SOCIAL RELATIONS

(*Anthropology, Archaeology, Sociology, Social and Developmental Psychology, Education, Demography, Geography*)

ROBERT F. BORUCH

UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PENNSYLVANIA

University Trustee Chair Professor of Education and Statistics. Has shown scientific leadership by participating in work on national organizations and by funding and directing his own projects on methodology, evaluation, and policy analysis. Established the Campbell Collaboration at the University of Pennsylvania.

SHELDON H. DANZIGER

UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

Henry J. Meyer Collegiate Professor of Social Work and Public Policy. Specialist in social welfare and public policy. Improved the measurement of poverty and income inequality and furthered understanding of how economic, demographic, and policy changes affect poverty and inequality.

ROBYN M. DAWES

CARNEGIE MELLON UNIVERSITY, PITTSBURGH, PENNSYLVANIA

Charles J. Queenan, Jr. University Professor. Scholar in judgment, decision-making, and mathematical psychology, as well as an advocate of the application (and critic of the misapplication) of psychology to real world problems. Author of *Rational Choice in an Uncertain World* and *House of Cards: Psychology and Psychotherapy Built on Myth*.

CAROL S. DWECK

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Professor of Psychology. Specialist in achievement motivation including development, gender differences, and cultural influences. Work demonstrates how people develop theories of achievement that facilitate or impede success, as well as strategies for changing self-defeating theories.

WILLIAM L. FASH, JR.

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Charles P. Bowditch Professor of Central American and Mexican Archaeology and Ethnology; Chair, Department of Anthropology. Has drawn together the many data on Mayan prehistory—its arts, architecture, hieroglyphic information, and settlement dispositions—to present a reconstruction of ancient life at the major archaeological site of Copan and its regional setting.

WILLIAM A. GAMSON

BOSTON COLLEGE, CHESTNUT HILL, MASSACHUSETTS

Professor of Sociology. Past president of the American Sociological Association, Eastern Sociological Society, and Peace Science Society. Worked on coalition processes in political parties, the impact of social movement tactics on outcomes, and the packaging of political frames and scripts.

WILLIAM J. MCGUIRE

YALE UNIVERSITY, NEW HAVEN, CONNECTICUT

Professor Emeritus of Psychology. Scholar who contributes to the literature on attitudes, self-concept, psychohistory, applied psychology, and social psychological theory and methods. Author of works on the interaction of creative and critical forces in social psychology. Recipient of the American Psychological Association's Distinguished Scientist Award.

DOUGLAS L. MEDIN

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Professor and Chair, Department of Psychology. Has focused on the psychology of concepts and related reasoning processes, including exemplar-based models of categorization and a view that concepts are organized by theories (the so-called theory-theory). Examines how culturally distinct mental models of the natural world affect basic categorization, reasoning, and environmental decision-making processes.

LEE S. SHULMAN

CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING, MENLO PARK, CALIFORNIA; STANFORD UNIVERSITY, STANFORD, CALIFORNIA

President; Charles E. Ducommun Professor Emeritus. Research centers on teaching and teacher education, assessment of teaching, and medical education. Received the American Psychological Association's E. L. Thorndike Award. Past president of the American Educational Research Association and of the National Academy of Education.

YI-FU TUAN

UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN

Professor Emeritus of Geography. Has made vast contributions to virtually all fields of geography. Pioneered the development of humanistic geography. Connected areas of the natural sciences, social sciences, and the humanities.

SECTION 2

ECONOMICS

THEODORE GROVES

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA

Professor of Economics. Research concerns incentives, mechanism design, and transition to markets. Co-discoverer of the demand-revealing mechanism and the general Groves class of mechanisms. Provided, jointly with Ledyard, the first general equilibrium solution of the free-rider problem with public goods.

ALAN KRUEGER

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

Bendheim Professor of Economics and Public Affairs. Labor economist who has constructed and used new data sets to examine issues such as the effects of minimum wages, the relationship between education and labor market success, disability in the workforce, and the impact of technological change on labor markets. Chief economist at the Department of Labor from 1994–1995.

STEVEN LEVITT

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Professor of Economics. Empirical economist who has studied social issues using novel data. Shed light on the causes of crime, efficacy of alternative methods of deterrence, the organization of inner-city gangs, the role of campaign finance in election outcomes, and the determinants of legislative voting.

MARK J. MACHINA

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA

Professor of Economics. Fundamental work on the theory of choice under uncertainty. Improved our understanding of behavior that is observed in reality but does not conform to the classical theories of von Neumann and Morgenstern and Savage.

ARIEL PAKES

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Professor of Economics. Leading researcher on empirical problems in industrial organization. Known for his empirical implementation of dynamic structural models of firms' investment and research. Received the Econometric Society's Frisch Medal for his research on patents.

MATTHEW RABIN

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Professor of Economics. Modified economic theories of individual choice and interactive equilibrium by incorporating well documented psychological evidence of human behavior. Has studied issues of fairness, time-inconsistent choices, self-serving biases, and self-control. Latest recipient of the Clark Medal.

ROBERT W. VISHNY

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Eric J. Gleacher Distinguished Service Professor of Finance. Research spans financial economics and industrial organization. Published on the market for corporate control, corporate governance around the world, privatization and the role of government in the economy, behavior of institutional investors, behavior of stock prices, and the economics of corruption and rent-seeking behavior.

SECTION 3

POLITICAL SCIENCE, INTERNATIONAL RELATIONS, AND PUBLIC POLICY

R. DOUGLAS ARNOLD

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

William Church Osborn Professor of Public Affairs. Has done theoretical and empirical work on how Congress and the bureaucracy make policy decisions. Early work focused on how and why representatives serve parochial interests; later work explored the conditions under which representatives serve more general interests.

LEONARD BINDER

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA

Professor of Political Science. Has written on Pakistan, Iran, Egypt, and Lebanon; on the Arab-Israeli conflict and on ethnic conflict generally; on political development; and, most recently, on Islamic Liberalism.

JOSHUA COHEN

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS

Leon and Anne Goldberg Professor of Humanities. Editor of *The Boston Review*. Co-author of *On Democracy* and *Associations and Democracy* as well as many other books and articles.

JAMES D. FEARON

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Professor of Political Science. Has written about the relationship between domestic politics and the democratic peace, commitment problems and war, and elite manipulation and ethnic violence. Current work seeks to understand cross-national variation in the incidence and magnitude of civil war.

HERBERT P. KITSCHOLT

DUKE UNIVERSITY, DURHAM, NORTH CAROLINA

Professor of Political Science. Scholar of party politics and political movements in Europe. Author of *The Radical Right in Western Europe: A Comparative Analysis* and *The Transformation of European Social Democracy* and co-author of *Post-Communist Party Systems*.

ELIZABETH J. PERRY

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Henry Rosovsky Professor of Government. Research focuses on popular protests and grassroots politics in China, from the nineteenth century to the present. Books include *Rebels and Revolutionaries in North China*, *The Political Economy of Reform in Post-Mao China*, and *Shanghai on Strike: The Politics of Chinese Labor*.

VIRGINIA SAPIRO

UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN

Sophonisba P. Breckinridge Professor of Political Science and Women's Studies. Scholar in the fields of women's studies and political psychology. Won the Victoria Schuck Award from the American Political Science Association for her book *A Vindication of Political Virtue: The Political Theory of Mary Wollstonecraft*.

SECTION 4

LAW

(*including the Practice of Law*)

PHILIP P. FRICKEY

BOALT HALL SCHOOL OF LAW, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Richard W. Jennings Professor of Law. Scholar in three separate areas: legislation, law and public choice, and federal Indian law. Co-author of *Legislation: Statutes and the Creation of Public Policy* and *Law and Public Choice: A Critical Introduction*.

STEVEN M. SHAVELL

HARVARD LAW SCHOOL, CAMBRIDGE, MASSACHUSETTS

Samuel R. Rosenthal Professor of Law and Economics. Economist who has written on law from an economic, social-scientific perspective. Author of books on accident law and on law and philosophy. President of the American Law and Economics Association.

ANNE-MARIE SLAUGHTER

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

Dean, Woodrow Wilson School of Public and International Affairs. Research focuses on global governance, the politics of international tribunals, and interdisciplinary approaches to international law. Has written on the integration of international relations theory into international law, both at the theoretical level and as applied to subjects such as humanitarian intervention, the role of nongovernmental organizations in international environmental law, and international economic law.

DAVID A. STRAUSS

UNIVERSITY OF CHICAGO LAW SCHOOL, CHICAGO, ILLINOIS

Harry N. Wyatt Professor of Law. Author of a series of papers arguing that American constitutional law is based on tradition and precedent instead of on the written Constitution, and of articles on racial discrimination, affirmative action, the First Amendment, and other subjects. Editor of *The Supreme Court Review*.

MICHAEL TRAYNOR

AMERICAN LAW INSTITUTE, PHILADELPHIA, PENNSYLVANIA; COOLEY GODWARD LLP, SAN FRANCISCO, CALIFORNIA

President; Partner. Former president of the Bar Association of San Francisco; former chairman and president of the Sierra Club Legal Defense Fund. Adviser for the Restatement (Third) of Restitution and Unjust Enrichment, and a member of the Board of Directors of the Environmental Law Institute. Adjunct lecturer at the Boalt Hall School of Law at Berkeley.

MARK V. TUSHNET

GEORGETOWN UNIVERSITY LAW CENTER, WASHINGTON, D.C.

Carmack Waterhouse Professor of Constitutional Law. Co-author of the casebooks *Federal Courts in the Twenty-first Century: Policy and Practice* and *Constitutional Law: Cases and Commentary*, and co-author, with Vicki Jackson, of a coursebook on comparative constitutional law. Author of *The NAACP's Legal Strategy Against Segregated Education 1925–1950* (Littleton Griswold Award of the American Historical Association).

CLASS IV

HUMANITIES AND ARTS

SECTION 1

PHILOSOPHY AND RELIGIOUS STUDIES

PHILIP S. KITCHER

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Professor of Philosophy. Author of books on controversies and developments in contemporary biology and bioethics and on central topics in the general philosophy of science. Former president of the American Philosophical Association Pacific Division and former editor of *Philosophy of Science*.

BERNARD J. MCGINN

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Naomi Shenstone Donnelley Professor. Leading medievalist. Has specialized in two relatively neglected strands of medieval Christian intellectual thought: apocalyptic and mystical thought.

JOHN R. PERRY

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Henry Waldgrave Stuart Professor of Philosophy. Has worked on the mind-body problem and its interplay with problems of indexicals. Author of *Knowledge, Possibility and Consciousness*. President of the American Philosophical Association. Founded the Center for the Study of Language and Information, an independent research center on the Stanford University campus.

WAYNE PROUDFOOT

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Professor of Religion. Specializes in the philosophy of religion. Has written on the idea of religious experience, modern Protestant thought, and criteria for the description and explanation of religious phenomena. Current work focuses on pragmatism, naturalism, and American religious thought.

LAWRENCE E. SULLIVAN

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Director, Center for the Study of World Religions; Professor of World Religions. Historian of religion. Co-edited the *Encyclopedia of Religion* and made important contributions to scholarship on Native American religion with his text *Icanchu's Drum*. Received the 2000 Andersen Prize for *Religions of Humanity*, co-authored with Julien Ries. Past president of the American Academy of Religions.

WILLIAM W. TAIT

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Professor Emeritus of Philosophy. Contributions to proof theory and to philosophy of mathematics and its history. Has analyzed basic mathematical concepts, in particular Hilbert's finitisms, constructive function, and the role of axiom of choice.

ALLEN W. WOOD

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Ward W. and Priscilla B. Woods Professor of Philosophy. Interpreter of Kant, Hegel, and Marx. Author of five books and translations. General co-editor of *The Cambridge Edition of the Works of Immanuel Kant* and *The Cambridge History of Philosophy 1790–1870*.

SECTION 2

HISTORY

ANN DOUGLAS

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Parr Professor of English and Comparative Literature. Literary critic and cultural historian whose books, *The Feminization of American Culture* and *Terrible Honesty: Mongrel Manhattan in the 1920s*, have changed understanding of women's history and American culture in the 1920s.

LINDA GORDON

NEW YORK UNIVERSITY, NEW YORK, NEW YORK

Professor of History. Leading American social historian. Author of four books and numerous essays that reinterpret the historical roots of contemporary social policy issues, particularly those concerning class, gender, and family relations.

ANTHONY GRAFTON

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

Professor of History. Visiting professor, Collège de France. Held the Chaire Condorcet, École Normale Supérieure, Paris. Co-editor of three volumes of studies, and author or co-author of ten books on the classical tradition, especially on humanists and humanism. Books include *Defenders of the Text: The Traditions of Humanism in an Age of Science*, a widely translated meditation on *The Footnote*, and, most recently, *Leon Battista Alberti*.

WILLIAM V. HARRIS

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

William R. Shepherd Professor of History. Historian of ancient Greece and Rome. Author of books and articles on such subjects as Roman imperialism, ancient literacy, and the slave trade. Latest work centers on anger in antiquity. First director of Columbia University's Center for the Ancient Mediterranean.

JACQUELINE JONES

BRANDEIS UNIVERSITY, WALTHAM, MASSACHUSETTS

Harry S. Truman Professor of American History. Leading historian of African American labor. Received the Bancroft Prize in American history and the Taft Prize in labor history.

PHILIP S. KHOURY

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS

Kenan Sahin Dean, School of Humanities, Arts, and Social Sciences; Professor of History. Scholar of the Arab Middle East. Author of *Syria and the French Mandate: The Politics of Arab Nationalism, 1920–45* (George Louis Beer Prize of the American Historical Association) and past president of the Middle East Studies Association of North America.

DAVID LEVERING LEWIS

RUTGERS UNIVERSITY, NEW BRUNSWICK, NEW JERSEY

Professor of History. Research centers on comparative history and biography, with particular focus on civil rights in the United States, twentieth-century African American culture, the Third Republic in France, European imperialism in late-nineteenth-century Africa, and comprehensive appreciations of three significant lives (Alfred Dreyfus, Martin Luther King, Jr., and William Edward Burghardt Du Bois).

KATHARINE PARK

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor. Works on science and medicine in late medieval and Renaissance Europe, especially in Italy. Has studied the social history of medical practice, as well as changing ideas of the natural order. Current work uses the history of gender, sexuality, and the body to rewrite the early histories of human dissection and scientific experience.

ROBERT N. PROCTOR

PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PENNSYLVANIA

Ferree Professor of the History of Science. Deepened our understanding of Nazism, public health, cancer, tobacco, and the cultural production of ignorance by probing the historical relations between science and politics. Books tackle Nazi racial theory and health policies, objectivity in the social sciences, and conflicts within cancer research.

REBECCA J. SCOTT

UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

Professor of History. Comparative historian and authority on emancipation and post-emancipation societies in Latin America and the United States. Draws on Cuban and other archival materials in her book, *Slave Emancipation in Cuba*. Co-founder of the Post-Emancipation Societies Project. Instrumental in forging connections between Cuban and North American historians.

SECTION 3

LITERARY CRITICISM

(including Philology)

BONNIE COSTELLO

BOSTON UNIVERSITY, BOSTON, MASSACHUSETTS

Professor of English. Author of the forthcoming *Shifting Ground: Reinventing Landscape in Modern American Poetry* and of books on Elizabeth Bishop and Marianne Moore. General editor of *Selected Letters of Marianne Moore* and author of articles on modern and contemporary poetry and on relations between the arts.

ROBERT A. FERGUSON

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

George E. Woodberry Professor. International leader in the study of law and literature. A pioneer in the study of the courtroom as a central ceremony in the republic of laws in the eighteenth and nineteenth centuries. Author of *Law and Letters in American Culture* and *The American Enlightenment, 1750–1820*.

CATHERINE GALLAGHER

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Professor of English. Founder of New Historicism. Works have contributed to the study of the social construction of gender difference, the relationship between art and the marketplace, and the status and self-consciousness of women writers in the eighteenth and nineteenth centuries. Author of *Nobody's Story*.

MICHAEL HENRY HEIM

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA

Professor of Slavic Languages and Literature. Leading translator of East European fiction and drama into English, including works by Chekov, Kundera, Hrabal, Kir, Esterhazy, Enzensberger, and Grass.

BRUCE REDFORD

BOSTON UNIVERSITY, BOSTON, MASSACHUSETTS

University Professor. Eminent in the world of eighteenth-century scholarship. Books include *Venice and the Grand Tour*, The Hyde Edition of *The Letters of Samuel Johnson*, and *The Converse of the Pen: Acts of Intimacy in the Eighteenth-Century Familiar Letter*. A visiting fellow at All Souls, president of The Johnson Society, and Lyell Reader in Bibliography at the University of Oxford.

KENNETH E. SILVERMAN

NEW YORK UNIVERSITY, NEW YORK, NEW YORK

Professor of English. Biographer and cultural historian. Author of *A Cultural History of the American Revolution*, *The Life and Times of Cotton Mather* (Bancroft Prize in American History and Pulitzer Prize for Biography), *Edgar A. Poe: Mournful and Never-ending Remembrance* (Edgar Award of Mystery Writers of America), and *Houdini!!!*.

SECTION 4

LITERATURE

(Fiction, Poetry, Short Stories, Nonfiction, Playwriting, Screenwriting)

WILLIAM KENNEDY

STATE UNIVERSITY OF NEW YORK, ALBANY, NEW YORK

Novelist. Author of *The Ink Truck*, *Legs*, *Billy Phelan's Greatest Game*, *Ironweed*, *Quinn's Book*, *Very Old Bones*, and *The Flaming Corsage*. Promotes reading and writing in the state's colleges and schools as executive director of the New York State Writers Institute.

PHILIP LEVINE

NEW YORK UNIVERSITY, NEW YORK, NEW YORK

Poet; Professor of English. Has woven a tapestry of history, family, memory, and invention in an effort to raise the commonplace to the mythic in the course of a half-century-long career. Books include *The Simple Truth*, *The Bread of Time*, *What Work Is*, and *Sweet Will*.

GRACE PALEY

THETFORD, VERMONT

Short Story Writer; Educator. Work includes *The Little Disturbances of Man*, *Enormous Changes at the Last Minute*, *Leaning Forward*, *Long Walks and Intimate Talks*, *New and Collected Poems*, *The Collected Stories*, *Just As I Thought*, and *Begin Again*.

OLIVER SACKS

ALBERT EINSTEIN COLLEGE OF MEDICINE, NEW YORK, NEW YORK

Essayist; Clinical Professor of Neurology. Ongoing study and treatment of neurologically damaged patients has emerged in the form of literate and thought-provoking essays about the nature of the human mind, including such books as *Awakenings*, *The Man Who Mistook His Wife For A Hat*, and *An Anthropologist on Mars*.

CHARLES SIMIC

UNIVERSITY OF NEW HAMPSHIRE, DURHAM, NEW HAMPSHIRE

Poet; Professor of English. Some of his poems reflect a surreal, metaphysical bent, while others offer grimly realistic portraits of violence and despair. Collections include *The World Doesn't End* (Pulitzer Prize for Poetry, 1990) and *Walking the Black Cat*.

WILLIAM D. SNODGRASS

ERIEVILLE, NEW YORK

Poet. Pulitzer Prize-winning poet of *Heart's Needle*. Volumes include *After Experience*, *The Fuehrer Bunker: A Cycle of Poems in Progress*, and, most recently, *The Fuehrer Bunker: The Complete Cycle*. Received the Academy of American Poets's Harold Morton Landon Translation Award in 1999 for his *Selected Translations*.

CHARLES WRIGHT

UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA

Poet; Professor of Creative Writing. Searches for the idea in the particular, jolting a reader's own awareness of spiritual possibilities. Books include *Negative Blue*, *Appalachia*, *Black Zodiac*, and *The World of the Ten Thousand Things*.

SECTION 5

VISUAL AND PERFORMING ARTS – CRITICISM AND PRACTICE

(including Art, Architecture, Sculpture, Music, Theater, Film, Dance)

REINHOLD BRINKMANN

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

James Edward Ditson Professor of Music. Musicologist who combines analysis of music with studies of its history from romanticism through modernism. Has worked to create new directions in musicology: music and literature, music in exile, and the use (and abuse) of music in Nazi Germany. Contributed to studies of Schoenberg, Brahms, Beethoven, Wagner, contemporary composers, and German musicians in exile.

STEVEN HOLL

STEVEN HOLL ARCHITECTS AND COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Principal Architect; Professor. Author of *Anchoring*, *Questions of Perception*, and *Intertwining*. Projects include the Kiasma Museum of Contemporary Art in Helsinki, Finland (1999 National AIA Design Award) and the Chapel of St. Ignatius at Seattle University (1998 National Design Award). Recipient of the Chrysler Award for Innovation in Design, the Alvar Aalto Medal, and the New York AIA Medal of Honor.

ANJELICA HUSTON

LOS ANGELES, CALIFORNIA

Actress; Film Maker. Known for her roles in feature films, including *Prizzi's Honor* (Academy Award for Best Supporting Actress and New York Film Critics Award), *The Dead* (Independent Filmmakers Best Actress Award), *Enemies, A Love Story* (Academy Award nomination), and *The Grifters* (Academy Award nomination). Made her directorial debut in the 1996 *Bastard Out of Carolina*, for which she received the Director's Guild of America Award.

KEITH JARRETT

SANTA BARBARA, CALIFORNIA

Jazz Pianist. Composed music in the 1970s that was edgy and liberated from conventional forms. In the 1980s and early 1990s he produced lush, romantic solo improvisations. More recently he has taken the most familiar songs and reveled in their shape while simultaneously reshaping them.

ANG LEE

NEW YORK, NEW YORK

Film Director. Recipient of the 2001 Academy Award for Best Foreign Language Film and of the 2001 Golden Globe for Best Director for *Crouching Tiger, Hidden Dragon*. First gained fame for *Sense and Sensibility*, which was honored at the Academy Awards, the New York Film Critics Circle Awards, and the British Academy Awards. Other films include *The Wedding Banquet*, *Eat, Drink, Man, Woman*, and *The Ice Storm*.

ITZHAK PERLMAN

NEW YORK, NEW YORK

Violinist. Has appeared with every major orchestra, including the London Symphony, Vienna Philharmonic, Berlin Philharmonic, and New York Philharmonic, and in recitals and festivals throughout the world. Recipient of the Medal of Liberty in 1986.

JAMES STEWART POLSHEK

POLSHEK PARTNERSHIP, NEW YORK, NEW YORK

Founder; Senior Design Principal. Architect whose building designs emerge from the consistent application of formal principles invoked in ways that emphasize the sociopolitical obligations of the architect. Recent projects include the William J. Clinton Presidential Center, the Rose Center for Earth and Space at the American Museum of Natural History, as well as historic preservation projects at Carnegie Hall and the Brooklyn Museum of Art.

JOSEPH J. RISHEL

PHILADELPHIA MUSEUM OF ART, PHILADELPHIA, PENNSYLVANIA

Senior Curator of European Painting Before 1900. Directed dozens of exhibitions—eighteenth-century Rome, late Delacroix, Cezanne, Second Empire, for example—and many international exhibitions. Has contributed to numerous catalogs and essays.

INGRID D. ROWLAND

AMERICAN ACADEMY IN ROME, ROME, ITALY

Andrew W. Mellon Professor of the Humanities. Art historian who has renovated the study of the Italian Renaissance in relation to its intellectual sources. Has illuminated the connections of Renaissance art to antiquity. Author of *The Culture of the High Renaissance: Ancient and Moderns in Sixteenth-Century Rome*, an edition of the *Correspondence of Agostino Chigi*, and *The Ecstatic Journey: Athanasius Kircher in Baroque Rome*.

CLASS V

PUBLIC AFFAIRS,

BUSINESS, AND

ADMINISTRATION

SECTION 1

PUBLIC AFFAIRS, JOURNALISM, AND COMMUNICATIONS

RITA R. COLWELL

NATIONAL SCIENCE FOUNDATION, ARLINGTON, VIRGINIA

Director. Author and co-author of sixteen books and some six hundred scientific publications in the fields of microbiology and molecular biology. Former president of the American Association for the Advancement of Science, a member of the National Science Board, and chair of the American Academy of Microbiology.

JONATHAN GALASSI

FARRAR, STRAUS AND GIROUX, NEW YORK, NEW YORK

President and Publisher. Assumed the post of editor-in-chief at Farrar, Straus and Giroux in 1988. A former chairman of the Board of Directors of the Academy of American Poets. Translator and editor of *Eugenio Montale Collected Poems: 1920–1954* and author of *Morning Run* and *North Street*.

ROBERT M. GREENSTEIN

CENTER ON BUDGET AND POLICY PRIORITIES, WASHINGTON, D.C.

Executive Director. Previously administrator of the Food and Nutrition Service, USDA (1979–1981) and director of the Project on Food Assistance and Poverty (1981). Appointed by President Clinton to the Bipartisan Commission on Entitlement and Tax Reform in 1994. A member of the Board of Directors of the National Academy of Social Insurance and Share Our Strength.

EDWARD M. KENNEDY

UNITED STATES SENATE, WASHINGTON, D.C.

Senator from Massachusetts, 1962-present. Chair of the Labor and Human Resources Committee and a member of the Armed Services Committee and Judiciary Committee. Has championed health care and education reform, strengthened Social Security, and raised the minimum wage. Recent achievements include the Health Insurance Portability and Accountability Act of 1996 and the Children's Health Act of 1997.

TINA ROSENBERG

THE NEW YORK TIMES, NEW YORK, NEW YORK

Member, Editorial Board. Winner of the Pulitzer Prize for *The Haunted Land: Facing Europe's Ghosts After Communism*. Author of *Children of Cain: Violence and the Violent in Latin America*.

WARREN B. RUDMAN

PAUL, WEISS, RIFKIND, WHARTON & GARRISON, WASHINGTON, D.C.

Partner. Former Attorney General of New Hampshire (1970–1976) and U.S. Senator (1981–1993). Co-authored the Gramm-Rudman-Hollings deficit reduction law. Former vice chairman and chairman of the President's Foreign Intelligence Advisory Board (1993–2001). Recipient of the 2001 CIA National Intelligence Distinguished Service Medal.

DANIEL SCHORR

NATIONAL PUBLIC RADIO, WASHINGTON, D.C.

Senior News Analyst; Commentator for NPR. Has helped set standards for the broadcast equivalent of the classic roles of foreign correspondent, investigative reporter, and political commentator. Confrontations with political and organizational authority led to his reflections on journalistic ethics and the media.

SECTION 2

BUSINESS, CORPORATE, AND PHILANTHROPIC LEADERSHIP

(Private Sector)

LEWIS W. BERNARD

THE AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK, NEW YORK

Chairman of the Board. Chairman of Classroom Inc. Served as chief administrative and financial officer with responsibilities in strategic planning at Morgan Stanley. Philanthropist and steward of scholarly and cultural institutions. A board member of the Andrew W. Mellon Foundation, vice chairman of the J. Paul Getty Trust, and director of Marsh & McLennan Companies.

WILLIAM K. COBLENTZ

COBLENTZ, CAHEN, MCCABE, & BREYER, SAN FRANCISCO, CALIFORNIA

Senior Partner. Director of various business corporations and public interest organizations and foundations. Former chairman of the University of California Board of Regents and Special Counsel to the Governor of California. Member of the Council on Foreign Relations and adjunct professor at Berkeley's Haas School of Business.

LEWIS W. COLEMAN

GORDON & BETTY MOORE FOUNDATION, SAN FRANCISCO, CALIFORNIA

President. Head of Bank of America's Capital Markets Group and its World Banking Group before becoming vice chairman of the board and chief financial officer. One of the key officers who engineered Bank of America's turnaround from near bankruptcy in the early 1990s.

WILLIAM S. EDGERLY

STATE STREET CORPORATION, BOSTON, MASSACHUSETTS
Chairman Emeritus. Served as chairman and chief executive officer of State Street until 1992. Formed the Foundation for Partnerships, which supports Massachusetts's public schools, and founded the Boston Private Industry Council, a partnership interfacing Boston businesses with Boston public schools, the Metropolitan Boston Housing Partnership, and the Alliance for Better Schools.

AMOS B. HOSTETTER, JR.

PILOT HOUSE ASSOCIATES, BOSTON, MASSACHUSETTS
Chairman. Co-founded Continental Cablevision in 1963 and built it into a premiere cable provider. Former director of AT&T, as well as a founding member, past chairman, and current board member of C-SPAN. Founding chairman of Cable in the Classroom.

AMORY HOUGHTON, JR.

UNITED STATES HOUSE OF REPRESENTATIVES,
WASHINGTON, D.C.

Congressman. Has represented the 31st Congressional District, New York, since 1987. The sixth-ranking Republican on the House Ways and Means Committee, chair of its Oversight Subcommittee, and a member of the Trade Subcommittee. Founder of the Bipartisan Congressional Retreats promoting the role of civility in political life. CEO of Corning, Inc. from 1964–1986.

DONALD RAYMOND KEOUGH

ALLEN & CO. INC., NEW YORK, NEW YORK

Chairman. Former president and chief operating officer of the Coca-Cola Company. Currently chairman of the investment bank Allen & Co. and Convera. Director of The Washington Post Company, McDonald's Corporation, USA Networks, Inc., and YankeeNets LLC. A former chairman of the board of trustees of the University of Notre Dame, where he established the Keough Institute of Irish Studies.

JOHN WERNER KLUGE

METROMEDIA INTERNATIONAL GROUP, INC., EAST
RUTHERFORD, NEW JERSEY

Chairman. Charted and managed the purchase, development, and sale of substantial assets ranging from television and radio broadcasting interests to outdoor advertising, paging, cellular telephone, and entertainment businesses for Metromedia. Leading philanthropist. Established the John W. Kluge Center and Prize in Human Sciences at the Library of Congress and the Kluge Public Scholars Fund at Columbia University.

LEONARD A. LAUDER

THE ESTÉE LAUDER COMPANIES INC., NEW YORK, NEW
YORK

Chairman. Served on the Advisory Committee for Trade Negotiations to President Reagan from 1983–1987. Chairman of the board of the Whitney Museum of American Art, trustee of the University of Pennsylvania and The Aspen Institute, and a member of the President's Council of the Memorial Sloan-Kettering Hospital.

PATRICK J. MCGOVERN

INTERNATIONAL DATA GROUP, BOSTON,
MASSACHUSETTS

Chairman. Founded IDG in 1964 and built it into the world's leading provider of information services on information technology. Established the McGovern Institute for Brain Research at MIT. Director of the Information Industry Association, the Magazine Publishers Association, and the American Management Association.

DAVID WOODLEY PACKARD

PACKARD HUMANITIES INSTITUTE, LOS ALTOS,
CALIFORNIA

President; Founder. Classical scholar and philanthropist who has conceptualized and contributed to the development of computerized databanks and tools for study of ancient languages, music, and the papers of the Founding Fathers. Collaborated with the Library of Congress and other archives in promoting preservation and public access to motion pictures and recorded sound.

CARL H. PFORZHEIMER III

CARL H. PFORZHEIMER & CO., NEW YORK, NEW YORK

Managing Partner. President, Carl and Lily Pforzheimer Foundation, Inc., with primary interests in advancing education, the arts, citizen participation, and libraries. Director of the Ampco-Pittsburgh Corp. and the U.S. Trust Corporation. A trustee of the National Humanities Center, Pace University, and the New York Public Library.

ARTHUR ROSS

CENTRAL NATIONAL-GOTTESMAN, INC., PURCHASE,
NEW YORK; CENRO CORPORATION AND ARTHUR ROSS
FOUNDATION, NEW YORK, NEW YORK

Vice Chairman; President. Vice Chairman of the United Nations Association of the USA. Director and governor of the Foreign Policy Association, and a member of the Advisory Board of the Center for Strategic and International Studies in Washington, D.C. A trustee of Barnard College, the American Museum of Natural History, and the American Academy in Rome. A member of the Board of Managers of the New York Botanical Garden.

SARA LEE SCHUPF

NEW YORK ACADEMY OF SCIENCES AND NEW YORK
HALL OF SCIENCE, NEW YORK, NEW YORK

Board Member. Focused on gaining recognition for women in science, encouraging more young people, especially girls, to have an interest in science, and supporting programs that connect science and society. Established the Weizmann Woman and Science Award at the Weizmann Institute and the Lubin Family Chair for a woman scientist at Skidmore College.

SECTION 3

EDUCATIONAL, SCIENTIFIC, CULTURAL, AND PHILANTHROPIC ADMINISTRATION

(Non-Profit Sector)

FRANCES DALY FERGUSSON

VASSAR COLLEGE, POUGHKEEPSIE, NEW YORK

President; Professor of Art. Served on the board of trustees of the Ford Foundation and as chair of the board of the Mayo Foundation. Steered the revitalization of Vassar's curriculum and added a number of architecturally significant buildings to its campus.

DAVID B. FROHNMAYER

UNIVERSITY OF OREGON, EUGENE, OREGON

President. Former dean of the law school. Attorney general of Oregon from 1981–1991. Recipient of several national science advocacy awards. Founder of the Fanconi Anemia Research Fund and founding director of the National Marrow Donor Program.

ROBERT BERJ GAGOSIAN

WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS
HOLE, MASSACHUSETTS

President and Director. Previously served as director of research. Contributed to our understanding of the cycling and nature of organic materials in the ocean. Research focuses on biologically produced organic compounds, with emphasis on the transport processes and transformation reactions of organic material as it travels from land to sea.

DAVID A. KESSLER

YALE UNIVERSITY MEDICAL SCHOOL, NEW HAVEN,
CONNECTICUT

Dean. Former commissioner of the Food and Drug Administration. Established impartial review boards, valid drug labeling, fast-tracking drug approval for "orphan" disease drugs, nutrient food labeling, and a new level of intervention to recognize the addictive effects of tobacco.

WILLIAM E. KIRWAN

UNIVERSITY SYSTEM OF MARYLAND, ADELPHI,
MARYLAND

Chancellor. Former President of Ohio State University and of the University of Maryland. Leader in defining the future of public research universities. At the University of Maryland improved faculty quality and diversity, developed programs that attracted more capable and diverse undergraduates, and developed strong relationships for economic development.

HERBERT PARDES

NEW YORK PRESBYTERIAN HOSPITAL, NEW YORK, NEW
YORK

President and Chief Executive Officer. Served as head of Columbia University's health sciences division and medical school, director of the National Institute of Mental Health, and chairman of the psychiatry departments of three universities. Member of the Institute of Medicine, president of the American Psychiatric Association, and chairman of the Association of American Medical Colleges.

STEPHEN JOEL TRACHTENBERG

GEORGE WASHINGTON UNIVERSITY, WASHINGTON,
D.C.

President; Professor of Public Administration. Lawyer who has integrated an urban, once largely regional university into the fabric of Washington, D.C.'s government, cultural, and intellectual communities. Prolific writer on issues in higher education. Previous positions include president of the University of Hartford and vice president for academic services and academic dean of the College of Liberal Arts at Boston University.

LAURA D'ANDREA TYSON

LONDON BUSINESS SCHOOL, LONDON, UNITED
KINGDOM

Dean. Former Dean of Haas Business School, UC Berkeley (1998–2001). Professor of economic and business administration at Haas Business School from 1978–1998. During the Clinton administration served as the President's national economic adviser and was the first woman to chair the White House Council of Economic Advisors.

FOREIGN HONORARY MEMBERS

CLASS I

MATHEMATICAL AND PHYSICAL SCIENCES

SECTION 2

PHYSICS

AMNON AHARONY

TEL AVIV UNIVERSITY, RAMAT AVIV, ISRAEL

Professor of Physics. Made contributions to statistical physics (critical phenomena, disordered systems, fractals, and percolation) and other topics in material science and condensed matter physics (magnetism, liquid crystals, cuprate magnetism, mesoscopics).

EDOUARD BRÉZIN

ÉCOLE NORMALE SUPÉRIEURE, PARIS, FRANCE

Professor of Physics. Has conducted research concerning the theory of condensed matter and high energy physics and contributed to the understanding of phase transitions. Studied pair production by an electromagnetic field, quantum localization by disorder, the quantum Hall effect, and two-dimensional quantum gravity through random matrices.

SECTION 3

CHEMISTRY

DAVID A. KING

UNIVERSITY OF CAMBRIDGE, CAMBRIDGE, UNITED
KINGDOM

Head of the Office of Science and Technology. Chief scientific advisor to Her Majesty's Government. Has provided contributions to the chemical physics of processes at well-defined solid surfaces as well as leadership in science policy.

SECTION 6

COMPUTER SCIENCES

(including Artificial Intelligence and Information Technologies)

PETER T. KIRSTEIN

UNIVERSITY COLLEGE LONDON, LONDON, UNITED
KINGDOM

Director of the Department of Computer Science Research. Leads research projects on network research, multimedia conferencing, active networks, mobile systems, and security. Projects include 6WINIT (EC, Ipv6 wireless access), SILK (NATO, Satellite Internet access to the Southern Caucasus and Central Asia), ANDROID (EC, managing Ipv6 active networks), and RADIOACTIVE (DARPA, Ipv6 active networks for media adaptation).

CLASS II

BIOLOGICAL SCIENCES

SECTION 1

BIOCHEMISTRY AND MOLECULAR BIOLOGY

WOLFGANG P. BAUMEISTER

MAX PLANCK INSTITUTE FOR BIOCHEMISTRY, MARTINSRIED, GERMANY

Professor and Head of the Department of Molecular Structural Biology. Figure in the fields of structural biology, protein folding, and regulated protein degradation. Has contributed to the understanding of chaperonins and proteasomes and pioneered the development of automated electron tomography.

IAN WILLIAM MATTAJ

EUROPEAN MOLECULAR BIOLOGY LABORATORY, HEIDELBERG, GERMANY

Scientific Director. Molecular cell biologist whose work has covered the synthesis, assembly, and functions of components of the U snRNPs that function in pre-mRNA splicing; nucleo-cytoplasmic transport, in particular of RNAs and ribonucleoproteins; and the roles of the Ran GTPase during both interphase and cell division.

SECTION 2

CELLULAR AND DEVELOPMENTAL BIOLOGY, MICROBIOLOGY, AND IMMUNOLOGY

(including Genetics)

GEORG FRITZ MELCHERS

UNIVERSITÄT BASEL, BASEL, SWITZERLAND

Member of University Advisors; Professor. Retired director of the Basel Institute for Immunology. Discovered the preB cell receptor and the plasticity of stem cells.

SECTION 3

NEUROSCIENCES, COGNITIVE SCIENCES, AND BEHAVIORAL BIOLOGY

GIACOMO RIZZOLATTI

UNIVERSITÀ DI PARMA, PARMA, ITALY

Director, Istituto di Fisiologia Umana. Investigated the cortical mechanisms subserving action recognition and planning of voluntary movements. Showed that motor areas of the frontal lobe play an important role in matching the external reality with internally produced actions.

SECTION 4

EVOLUTIONARY AND POPULATION BIOLOGY AND ECOLOGY

BRIAN KEITH HALL

DALHOUSIE UNIVERSITY, NOVA SCOTIA, CANADA

George S. Campbell Professor of Biology. Leading architect of the rapidly developing discipline of evolutionary developmental biology. Research concentrates on the skeletal biology of vertebrates.

NAOYUKI TAKAHATA

GRADUATE UNIVERSITY FOR ADVANCED STUDIES, HAYAMA, JAPAN

Professor, Department of Biosystems Science; Vice President. Theoretician in molecular evolutionary biology. Developed various statistical methods for studying genetic differentiation of genes and populations.

SECTION 5

MEDICAL SCIENCES (including Physiology and Pharmacology), CLINICAL MEDICINE, AND PUBLIC HEALTH

FELIX MITELMAN

UNIVERSITY HOSPITAL, LUND, SWEDEN

Professor, Department of Clinical Genetics. Research focuses on genetic changes in neoplasia. Work in the field of cancer cytogenetics has helped launch the discipline into worldwide prominence. Founding editor and curator of *Database of Chromosome Aberrations in Cancer* and editor-in-chief of the journal *Genes, Chromosomes & Cancer*.

CLASS III

SOCIAL SCIENCES

SECTION 1

SOCIAL RELATIONS

(Anthropology, Archaeology, Sociology, Social and Developmental Psychology, Education, Demography, Geography)

RENATE MAYNTZ

MAX PLANCK INSTITUTE FOR THE STUDY OF SOCIETIES, COLOGNE, GERMANY

Professor Emerita. A major figure in governmental, educational, and science policy. Held chairs at several universities before being asked to found a new Max Planck Institute in 1985. Research topics range from the theory and sociology of science to policy studies and governance theory.

KLAUS R. SCHERER

UNIVERSITY OF GENEVA, GENEVA, SWITZERLAND

Professor of Psychology. Contributor to the recent resurgence of interest in emotion and co-developer of the appraisal theory of emotion. An expert on voice analysis, the relation between cognition and emotion, and cross-cultural analyses of emotion.

SECTION 2

ECONOMICS

KENNETH GEORGE BINMORE

UNIVERSITY COLLEGE LONDON, LONDON, UNITED KINGDOM

Professor of Economics. Analyzed the foundations of game theory. Has examined the meaning of rationality of strategic players, as well as bounded rationality and evolutionary games. Applied work includes analysis of bargaining and the design of spectrum auctions in the United Kingdom.

RICHARD BLUNDELL

UNIVERSITY COLLEGE LONDON, LONDON, UNITED KINGDOM

Professor of Economics; Director, ESRC Centre for the Microeconomic Analysis of Fiscal Policy. Used new data on individual behavior over time to produce empirical research measuring labor supply and savings responses to changes in wages, interest rates, taxes, and uncertainty. Explored the successes and limitations of life cycle models of consumption and labor supply.

JOHN HARDMAN MOORE

UNIVERSITY OF EDINBURGH, EDINBURGH, UNITED KINGDOM

George Watson's and Daniel Stewart's Professor of Economics. Has done work on asset ownership, financial contracting, and the foundations of incomplete contracts. Developed an innovative theory of business cycles based on asset price fluctuations.

SECTION 3

POLITICAL SCIENCE, INTERNATIONAL RELATIONS, AND PUBLIC POLICY

FRITZ W. SCHARPF

MAX PLANCK INSTITUTE FOR THE STUDY OF SOCIETIES, COLOGNE, GERMANY

Director. Contributed to the analysis of social policy and social democracy in contemporary Europe. Pioneered the application of game theory to substantive policy problems.

SECTION 4

LAW

(including the Practice of Law)

GIULIANO AMATO

EUROPEAN UNIVERSITY INSTITUTE, FLORENCE, ITALY

Professor, Robert Schuman Centre; Former Prime Minister of Italy. Formerly professor of Italian and comparative law at the University of Rome. Author of books and articles on the foundation of law, federalism, the European economy, and individual liberty in European states. Former finance minister and president of the Italian Antitrust Authority.

LORD LESTER OF HERNE HILL QC (ANTHONY P. LESTER)

QUEEN'S COUNSEL AND BARRISTER AT BLACKSTONE CHAMBERS, LONDON, UNITED KINGDOM

Human rights lawyer concerned with free speech and discrimination. Recent cases concern "the right to die" and medical ethics. Instrumental in shaping Britain's equal opportunities legislation and the Human Rights Act of 1998. Author of books and essays on constitutional law and civil rights and liberties. Founding president of INTERIGHTS.

JACOB W. F. SUNDBERG

UNIVERSITY OF STOCKHOLM AND STOCKHOLM INSTITUTE OF PUBLIC AND INTERNATIONAL LAW, STOCKHOLM, SWEDEN

Professor of Jurisprudence Emeritus; Director of Studies. Pioneer in the field of international human rights with a focus on the European Convention on Human Rights and the International Covenant on Civil and Political Rights. Author of publications on aviation law, international terrorism and criminal law, family law, taxation law, jurisprudence, and human rights.

CLASS IV

HUMANITIES AND ARTS

SECTION 1

PHILOSOPHY AND RELIGIOUS STUDIES

GUSTAVO GUTIÉRREZ

UNIVERSITY OF NOTRE DAME, NOTRE DAME, INDIANA; UNIVERSIDAD CATÓLICA DE LIMA, LIMA, PERU

John Cardinal O'Hara Professor of Theology. Has developed new directions in Catholic scholarship after the Second Vatican Council. Books, including *A Theology of Liberation*, *On Job*, and *The Truth Shall Make You Free*, argue that theology must pursue exacting interdisciplinary reflection on the role of Christian faith, spirituality, and action in a world rent by suffering.

SECTION 2

HISTORY

MICHAEL LOEWE

UNIVERSITY OF CAMBRIDGE, CAMBRIDGE, UNITED KINGDOM

University Lecturer, Chinese Studies. Western scholar who has made Han China (206 B.C.–A.D. 220) part of our historical and intellectual consciousness. Research focuses on intellectual, religious, and institutional developments, as seen in both literary and material evidence. Author of *Records of Han Administration* and *A Biographical Dictionary of the Qin, Han and Xin Dynasties*.

FRANK W. WALBANK

UNIVERSITY OF LIVERPOOL, LIVERPOOL, UNITED KINGDOM

Professor Emeritus of Ancient History and Classical Architecture. World leader of Hellenistic studies. Has written on Greek and Roman history in the Hellenistic era, on Greek historiography, especially Polybius, and on the fall of the Roman Empire.

SECTION 4

LITERATURE

(*Fiction, Poetry, Short Stories, Nonfiction, Playwriting, Screenwriting*)

CHINUA ACHEBE

UNIVERSITY OF NIGERIA, NSUKKA, NIGERIA;
BARD COLLEGE, ANNANDALE-ON-HUDSON, NEW YORK

Novelist; Poet; Emeritus Professor of English; Charles P. Stevenson, Jr. Professor of Languages and Literature. Work explores the impact of European culture on African society. Books include *Things Fall Apart*, *No Longer at Ease*, *Arrow of God*, *A Man of the People*, and *Anthills of the Savannah*.

MILAN KUNDERA

PARIS, FRANCE

Novelist. Persuaded to self-exile in 1975 by the Czech government's censoring and suppression of his work. Holds to the conviction that the novel must be "autonomous." Denies any political motivation in his writing. Has authored ten novels and two books about the art of the novel. His works include *Identity*, *Immortality*, *The Unbearable Lightness of Being*, *The Book of Laughter and Forgetting*, and *The Joke*.

NAGUIB MAHFOUZ

CAIRO, EGYPT

Novelist. One of the most studied Arab novelists in the Anglophone world. Author of thirty-two novels, the first one published in 1939, and thirteen collections of short stories. His writings, though deeply rooted in local reality, appeal to what is universal and permanent in human nature. Received the Nobel Prize in Literature in 1988.

KENZABURO OË

TOKYO, JAPAN

Novelist. Author of *The Silent Cry*. Influenced by Dante, Rabelais, Balzac, Poe, Yeats, Eliot, Auden, and Sartre, he describes his own work as "grotesque realism." Received the Nobel Prize in Literature in 1994.

SECTION 5

VISUAL AND PERFORMING ARTS – CRITICISM AND PRACTICE

(*including Art, Architecture, Sculpture, Music, Theater, Film, Dance*)

JEAN SUTHERLAND BOGGS

NATIONAL GALLERY OF CANADA, OTTAWA, ONTARIO, CANADA

Former Director. Scholar with two major specialties—Degas and Picasso. Known for his many publications, history of exhibitions, and curatorial prowess. Currently working on a catalog of Degas's drawings.



Mark H. Thiemens (UC, San Diego), John Armstead Wood (Harvard University), and Harry Y. McSween, Jr. (University of Tennessee)

CLASS V

PUBLIC AFFAIRS,

BUSINESS, AND

ADMINISTRATION

SECTION 2

BUSINESS, CORPORATE, AND PHILANTHROPIC LEADERSHIP

(*Private Sector*)

E. PETER LOUGHEED

BENNETT JOES BARRISTERS & SOLICITORS, EDMONTON, ALBERTA, CANADA

Partner; Chairman, Luscar Ltd. Head of Alberta's Conservative Party for twenty years and premier of Alberta for fourteen years. Played a role in the economic development of Alberta and its capability, by the mid-1980s, to supply 90 percent of Canada's oil and gas.

SECTION 3

EDUCATIONAL, SCIENTIFIC, CULTURAL, AND PHILANTHROPIC ADMINISTRATION

(*Non-Profit Sector*)

WATARU MORI

JAPANESE ASSOCIATION OF MEDICAL SCIENCES, TOKYO, JAPAN

President. Former president, University of Tokyo (1985–1989). Senior member of the Japanese Council for Science and Technology and former chair of the Council's Committee on Policy Matters. Served as chair of the Medical Ethics Council and vice chair of the Provisional Commission for the Study of Brain Death and Organ Transplantation.

Visiting Scholars' Research, 2002–2003

Chair of the Visiting Scholars Program

James Carroll—Historian and columnist for *The Boston Globe*. Books include *An American Requiem*, *Constantine's Sword, the Church and the Jews: A History*, and, most recently, *Toward a New Catholic Church*. During his tenure at the program, he will be working on a history of the Pentagon.

Scholars

Eric Bettinger—Assistant Professor of Economics, Case Western Reserve University. *The Effectiveness of School Vouchers in Colombia*. An investigation of the influence of school vouchers on the education of poor high-school students in Colombia, as a case study in an interdisciplinary project on the feasibility of universal basic and secondary education.

Joseph Entin—Postdoctoral Scholar, Yale University. *Sensational Modernism: Disfigured Bodies and Aesthetic Astonishment in American Culture*. A reinterpretation of American modernism that focuses on how writers, artists, photographers, journalists, social scientists, and doctors interpreted the lives and histories of immigrants, African Americans, working-class communities, and the underclass.

Page Fortna—Assistant Professor of Political Science, Columbia University. *The Effectiveness of International Peacekeeping in Civil Wars*. An examination of whether, how, and to what extent international personnel sent to war-torn states actually contribute to a stable peace.

David Greenberg—Postdoctoral Scholar, Columbia University. *The New Politics of Appointments: Congress, Ideology, and the Supreme Court*. A study of the history of nominations to the Supreme Court and the unacknowledged role that ideology has played in the confirmation process.

Jay Grossman—Assistant Professor of English, Northwestern University. *F. O. Matthiessen—A Cultural Biography*. An analysis of the life and work of this Harvard scholar of American literature, his influence on the practice of American literary studies, and his involvement in a range of activities and institutions central to the political and cultural history of America.

Andrew Jewett—Postdoctoral Scholar, University of California, Berkeley. *To Make America Scientific: Science and Democracy in American Public Culture, 1900–1950*. A study of a group of scientists, social scientists, philosophers, and writers who thought that the development of scientific knowledge would revitalize self-government in the United States.

Ann-Marie Mikkelsen—Postdoctoral Scholar, University of California, Irvine. *Voices from the Field: Pastoral, Pragmatism, and Twentieth-Century American Poetry*. A project on twentieth-century poets who called attention to social, economic, and political inequities and attempted to reconcile these with their own relatively privileged, but simultaneously marginal, status as representative voices of a democratic society.

Associate Scholar

Andy Zelleke—J.D., Harvard Law School and Doctoral Candidate, Harvard University. *Freedom and Constraint: The Design of Governance and Leadership Structures in Britain and the United States*. An analysis of the influence of cultural, historical, market, and political forces on the leadership of prominent U.S. and British corporations.

Senior Scholar, Spring 2003

David Hollinger—Chancellor's Professor of History, University of California, Berkeley. While in residence at the Visiting Scholars Program, he will be developing a history of the demographic and social changes in the United States after World War II and their effects on the humanities.



David McCullough on John Adams

The American Academy's mission to advance knowledge in service to society was inspired by the ideals of its founder, John Adams. At the Academy's 1856th Stated Meeting, on March 13, 2002, biographer David McCullough discussed "John Adams and The Good Life of the Mind." The talk, held at Harvard University's Memorial Church, was the largest Stated Meeting in the Academy's 222-year history. Over 850 Fellows and guests attended the event, which was cosponsored by the Boston Athenaeum.

In his talk, McCullough focused on the importance of education in the life of John Adams, emphasizing that "the idea of rousing up the mind is all through his life and his writings." Adams authored the oldest written constitution still in use today—the constitution of the Commonwealth of Massachusetts. It contains what McCullough calls "a paragraph unlike any that had been written before in any document of its kind, declaring that it is the 'duty' of legislators to ensure that 'wisdom and knowledge, as well as virtue' are diffused among all the people of the commonwealth." The paragraph was drafted in September of 1779, only a month after Adams had announced that he would establish a Society of Arts and Sciences in Boston. His overriding concern with education echoes in the Academy's 1780 charter, which states that the "end and design of this institution . . . is to cultivate every art and science. . . ."

After the Stated Meeting, at a reception held at the House of the Academy, the only known life-size portrait of John Adams was unveiled. Painted by John Singleton Copley in 1783, it depicts Adams during his service as First Minister to the Court of St. James's. The Academy is grateful to the Fogg Art Museum and to Fellow James Cuno for their loan of the painting from the Harvard University Collections.

The text of McCullough's talk appears in the *Records 2002*.

BROAD COLLECTION

CONTINUED FROM P. 3

art owned by the Broads. "Because the collection is so extensive, we decided it would be best to mirror the important characteristics of the Broads' holdings," Barron notes. One of the most essential traits is the couple's commitment to collect artists' work in depth. "Their collection is not necessarily characterized by the Broads buying things as soon as they are made. They are collectors who don't have to be there first. But, when they do make a commitment, they will buy current work, and often go back and fill in earlier work, which is what they did with Warhol, for example," explains Barron.



Stephanie Barron, Los Angeles County Museum of Art

The display of the Broad collection is organized in five sections, beginning with the abstract expressionist work of Jasper Johns and Cy Twombly. It then focuses on the pop art movement, including pieces from Andy Warhol and Roy Lichtenstein. The conceptual art trend of the late 1960s and early 1970s, which includes the work of John Baldessari and Hans Haacke, is the subject of the third section. The fourth segment concentrates on the American and German artists who came to prominence in the 1980s: Anselm Kiefer, Cindy Sherman, Jean-Michel Basquiat, Eric Fischl, and Jeff Koons. The final section includes Los Angeles artists Charles Ray and Sharon Lockhart.

According to Barron, each portion of the show shares common characteristics. For one, the use and re-use of popular culture images infuses the artwork across all of the decades represented. "Contemporary audiences react to Jeff Koons's incorporation of aspects of popular culture through the lens of an awareness of Warhol's use of familiar pop culture icons" observes Barron. Another is the deep interest in social and political issues that informs most of the artwork.

Barron believes the exhibition is extremely accessible to the larger public. "Encountering a whole room of Roy Liechtenstein paintings is a thrilling opportunity for the collector, the art aficionado, and the lay public alike. The witty, exuberant sculptures and paintings by Jeff Koons make art out of familiar images of our popular culture. The show has humor, elegance, and, above all, terrific quality which I think always speaks to a wide audience," says Barron.

Along with the opportunity to work with the Broads to mount this exhibition, Barron appreciates their vision as collectors. In her view, "it is a reminder of the important role that private patronage plays in collecting and sharing works of art with the public." The exhibition will travel to the Guggenheim Museum in Bilbao, Spain, in early 2003.

New Councilors and Vice President

In May of 2002, New York University Professor David D. Sabatini and Washington University in St. Louis Professor Gerald Early were elected to the Council of the American Academy, the governing board of the institution.

Sabatini is the Frederick L. Ehrman Professor and Chairman of the Department of Cell Biology at New York University. After earning his medical degree from the University of Litoral and his Ph.D in cell biology from Rockefeller University, he completed his postdoctoral training at Yale University Medical School and Rockefeller University. He is a member of the National Academy of Sciences and a Foreign Associate of the French Academy of Sciences.

Early is the Merle Kling Professor of Modern Letters, professor of English and of African and Afro-American Studies, and director of the International Writers Center at Washington University in St. Louis, Missouri. He is the editor of several volumes, including *The Sammy Davis, Jr., Reader* (2001) and *The Muhammad Ali Reader* (1998). Early is the author of *The Culture of Bruising: Essays on Prizefighting, Literature, and Modern American Culture*, which won the 1994 National Book Critics Circle Award for criticism. He is the recipient of a Whiting Writer's Award and a General Electric Foundation Award.

University of Minnesota microbiologist Martin Dworkin was elected vice president and chair of the Midwest Council of the American Academy. Dworkin is a world authority on the group of bacteria known as the myxobacteria, the most sophisticated bacterium known. A native of New York City, he received his B.S. from Indiana University and his Ph.D. from the University of Texas, Austin. He is a recipient of a National Institutes of Health Career Development Award, was named a Guggenheim Fellow and Sackler Scholar (Tel Aviv University), and has been elected to many leadership positions within the American Society of Microbiology. "We are pleased that Martin Dworkin has agreed to chair the Midwest Council," said Academy President Patricia Meyer Spacks. "As the Academy has increased its national presence, the Midwest Council has become an important link to our Fellows based in the region."



Council members:

Front row: Executive Officer Leslie Berlowitz, Thomas Hines (UCLA), Vice President, Midwest Center Martin Dworkin (University of Minnesota), Carolyn Shoemaker (Lowell Observatory), David Sabatini (New York University), Rosanna Warren (Boston University), Robert C. Post (University of California, Berkeley)

Back row: Harvey Brooks (Harvard University), President Patricia Meyer Spacks (University of Virginia), Gerald Early (Washington University in St. Louis), Jerrold Meinwald (Cornell University), Vice President, Western Center John Hogness (University of Washington), Secretary Emilio Bizzi (MIT), Vice President Louis Cabot (Cabot-Wellington, LLC)

Not shown: Treasurer Peter S. Lynch (Fidelity Management and Research Corporation), Editor Steven Marcus (Columbia University), Joel E. Cohen (Rockefeller and Columbia Universities), Neil Smelser (UC, Berkeley), Peter Stansky (Stanford University), Leo L. Beranek (Cambridge, MA), James O. Freedman (Dartmouth College), Jaroslav Pelikan (Yale University), and Daniel C. Tosteson (Harvard Medical School)

INDUCTION

CONTINUED FROM P. 4

when the Academy was founded during the Revolutionary War. There is a new threat of war, he said, "one that will change the way America is viewed by its allies and adversaries." Kennedy asserted that he was opposed to legitimizing a preventive military strike and elevating it to the status of a core security doctrine; doing so would be inconsistent with American values and would effectively disregard history and the precedence of international law, possibly leading other nations to do the same.

Following the keynote presentations, Academy officers welcomed the new members by class as they crossed the stage and signed the members' book. Concluding the ceremony, President Spacks reminded the audience of the challenge posed by the Academy's founder, John Adams: "Let us dare to read, think, speak, and write." With the emphasis on dare, Spacks declared, "Over the past 222 years, the Academy has created a community of intellectual daring and Adams's words continue to give essential meaning to our work."

CONGRESS AND THE COURT

CONTINUED FROM P. 2

In his consideration of several distinguished judges who were never confirmed, Wilkinson observed, "The sad development is that honorable positions taken in the course of honorable professional service are regularly becoming an impediment in the confirmation path." In his view, "just as a legislature would be a poorer place without its most dynamic members, so too will the courts suffer without members of intellectual breadth and high level professional experience." Finally, the judge agreed with the senator that "competing brands of activism are in no one's interest, least of all that of the judiciary."

Judge Abner Mikva, former White House counsel and five-term congressman, moderated the discussion that followed. Panelists considered not only the historic and current relation of Congress and the Court but also several instances in which the executive branch has caused or widened the breach between the legislature and the judiciary.

Prior to the Stated Meeting, the planning committee held an off-the-record conversation with several congressmen and Supreme Court justices. On the basis of all of these discussions, a larger advisory committee consisting of members of the Supreme Court and Congress, federal judges, legal scholars, and political scientists has been formed to develop an analysis of the ideology of judges in the Courts of Appeals as well as case studies of controversial questions of statutory interpretation.

ACADEMY OFFICERS

Patricia Meyer Spacks, *President*
Leslie Cohen Berlowitz, *Executive Officer*
Louis W. Cabot, *Vice President*
Emilio Bizzi, *Secretary*
Peter S. Lynch, *Treasurer*
Steven Marcus, *Editor*
Martin Dworkin, *Vice President, Midwest Center*
John R. Hogness, *Vice President, Western Center*

INDUCTION NEWSLETTER

Alexandra Oleson, *Editor*
Phyllis S. Bendell, *Director of Publications*
Jordi Weinstock, *Layout*
Suzanne Morse, *Public Affairs*

Copyright © 2002
American Academy of Arts & Sciences
617-576-5047 • www.amacad.org



PHOTO CAPTIONS

1. Jill Abramson (New York Times) and Rita Colwell (National Science Foundation)
2. President Patricia Meyer Spacks, Vice President Louis Cabot, and Secretary Emilio Bizzi
3. Richard Buxbaum (UC, Berkeley) and Michael Traynor (American Law Institute)
4. Kenneth Silverman (New York University) and Bernard Agranoff (University of Michigan)
5. Ann-Marie Slaughter (Princeton University) and Andrew Moravcsik
6. Anthony Lewis (New York Times), Margaret Marshall (Massachusetts Supreme Judicial Court), and Daniel Schorr (NPR)
7. Wataru Mori (Japanese Association of Medical Sciences), Claire Ellen Max (UC, Santa Cruz), and Randy H. Katz (UC, Berkeley)
8. William V. Harris (Columbia University) and David Levering Lewis (Rutgers University)

Occasional Papers of the Academy

The American Academy unveiled its new series of Occasional Papers with its well-received study on college-level grade inflation. *Evaluation and the Academy: Are We Doing the Right Thing?* is co-authored by Henry Rosovsky, Academy Fellow and former dean of Harvard's Faculty of Arts and Sciences, and Matthew Hartley, lecturer at the University of Pennsylvania's Graduate School of Education.

The Academy, in collaboration with the Berlin-Brandenburg Academy, also published *Trends in American & German Higher Education*, edited by Robert McC. Adams, which provides a comprehensive and systematic look at the two nations' higher education systems.

Making the Humanities Count: The Importance of Data is the first Occasional Paper to emerge from the Academy's Initiative for Humanities and Culture. This paper features a critical analysis of currently available humanities databases, as well as essays explaining the need for more comprehensive and reliable data about the humanities.

Probing Human Origins, edited by Morris Goodman and Anne Simon Moffat, reflects the Academy's five-year effort to study humankind's evolutionary roots and explores the scientific and cultural assumptions behind human evolution.

To order any of these Occasional Papers, please contact the Academy's Publications Office by telephone: 617-576-5085; fax: 617-576-5088; or email: publications@amacad.org.

A New *Daedalus*

The American Academy of Arts & Sciences relaunched its scholarly journal, *Daedalus*, with its Winter 2002 issue. The redesigned quarterly continues to organize each issue around a theme, such as intellectual property and education, but Editor James Miller has also introduced new features to the magazine. They include fiction, poetry, and a "Notes" section with original works by distinguished Fellows. In addition, the magazine has established an interactive dialogue with the journal's readership in the form of Letters to the Editor. Selected essays are available online at www.amacad.org.

The Winter 2002 issue, which focused on inequality and highlighted articles by Academy Fellows Christopher Jencks, Orlando Patterson, Richard Epstein, and Martha C. Nussbaum, was featured in *The Chicago Tribune*, *The Chronicle of Higher Education*, *The Nation* magazine, and *The Boston Globe*. Examining some of the key issues surrounding the increasingly important concept of intellectual property, the Spring 2002 issue contained essays by Richard Posner, Daniel Kevles, and Marcia Angell and Arnold Relman. The Summer 2002 issue addressed the state of education after the culture wars and featured an article by Diane Ravitch on the content of history and literature courses in secondary education. It also included an essay by David E. Bloom and Fellow Joel E. Cohen about the Academy's Universal Basic and Secondary Education project (UBASE). The Fall 2002 issue on beauty featured essays by Fellows Susan Sontag, Arthur Danto, Alexander Nehamas, and Denis Donoghue, among others.



PRSR STD
US POSTAGE
PAID
PERMIT #375
NASHUA, NH

AMERICAN ACADEMY OF ARTS & SCIENCES

Norton's Woods • 136 Irving Street, Cambridge, MA 02138-1996 USA • Telephone 617-576-5000 • Facsimile 617-576-5050 • Email aaas@amacad.org • Website www.amacad.org