

New Members: Class of 2005

Class I: Mathematical and Physical Sciences

Section 1: Mathematics

M. Salah Baouendi

*University of California, San Diego,
La Jolla, CA*

Distinguished Professor of Mathematics. Made contributions to complex analysis, especially in the study of Cauchy-Riemann. Did work in the theory of partial differential equations. Program of studying extensions of Cauchy-Riemann functions and mappings (carried out jointly with L. P. Rothschild) gave insight into all types of “edge-of-the-wedge” theorems.

Eric Mark Friedlander

*Northwestern University,
Evanston, IL*

Henry S. Noyes Professor of Mathematics. Work is characterized by original techniques at the interface of algebra, geometry, topology, and representation theory. Has solved long-standing problems, achieved numerous computations, created abstract theories with important applications, and formulated problems that remain of fundamental interest.

Jerome H. Friedman

Stanford University, Stanford, CA
Professor of Statistics. Leading researcher in statistics and data mining. Has published on a wide range of data-mining topics, including nearest neighbor classification, logistical regressions, and high dimensional data analysis. Primary research interest is in the area of machine learning.

Thomas G. Kurtz

*University of Wisconsin-Madison,
Madison, WI*

Paul Levy Professor of Mathematics and Statistics. Authority on Markov processes. Works on pure and applied probability, including stochastic analysis and control theory, point processes, measure-valued processes, and

applications to communication networks and population genetics. Held leadership roles in professional societies, journals, and research institutes of probability.

Gregory Lawler

Cornell University, Ithaca, NY

Professor of Mathematics. Laid the groundwork for the demonstration that rescaled percolation leads to conformally invariant, two-dimensional fields. Along with Schramm and Werner, investigated the limit of lattice models that possess certain conformal invariance properties in the continuum limit.

Linda Preiss Rothschild

*University of California, San Diego,
La Jolla, CA*

Distinguished Professor of Mathematics. Works with E. M. Stein on differential operators. Pioneered a method of building a group invariant model for a highly singular problem and obtaining optimal regularity results for the solutions. Program of studying extensions of Cauchy-Riemann functions and mappings (with M. S. Baouendi) gave insight into “edge-of-the-wedge” theorems.

Barry Simon

*California Institute of Technology,
Pasadena, CA*

IBM Professor of Mathematics and Theoretical Physics. Made contributions to the understanding of phase transitions, resonances, multiparticle quantum theory, constructive quantum field theory, spectral analysis and inverse spectral analysis, and orthogonal polynomials. Has written many basic texts that continue to guide and influence the development of mathematical physics.

Alexander Lubotzky (FHM)

*Hebrew University,
Jerusalem, Israel*

Maurice and Clara Weil Professor of Mathematics. Solved a number of central problems in group theory and its applications to combinatorics, geometry, and theoretical computer science.

Contributed to the characterization of groups with polynomial subgroup growth; the contraction of explicit and optimal Ramanujan graphs; and the construction of cohomology for finite coverings of arithmetic manifolds.

Section 2: Physics

Barry C. Barish

*California Institute of Technology,
Pasadena, CA*

Linde Professor of Physics. Work in experimental high-energy physics helped establish the standard model of particle physics. Helped develop the study of lepton pairs in hadronic interactions. Performed experiments involving high-energy neutrino beams, which helped establish the quark structure of nucleons and provided evidence for the existence of weak neutral currents. Leads the effort to detect gravitational waves through the construction and operation of the Laser Interferometer Gravitational Wave Observatory (LIGO).

Eric A. Cornell

*National Institute of Standards and
Technology, JILA, and University
of Colorado, Boulder, CO*

Senior Scientist, Fellow, and Adjoint Professor of Physics. Work created a new subfield of physics, the study of quantum degenerate trapped gases. Created and conducted seminal studies of gaseous Bose-Einstein condensation (with C. Wieman). Recipient of the Nobel Prize in Physics in 2001.

Allan Hugh MacDonald

*University of Texas at Austin,
Austin, TX*

Sid W. Richardson Foundation Regents Chair in Physics. Work established a bridge between the incompressible fractional quantum Hall states and Feynman's theory of collective excitations in superfluid helium. Work with Girvin led to subsequent development of the composite fermion theory of the fractional

quantum Hall effect. Recently initiated research on quantum Hall ferromagnets and magnetism in semiconductors.

Gerald Dennis Mahan

*Pennsylvania State University,
University Park, PA*

Distinguished Professor of Physics. Predicted new phenomena in condensed matter physics, specifically Mahan's X-ray singularity in metals, Mahan's excitations, and Mahan's cones. Textbook on many-body theory is widely used.

Melvyn J. Shochet

University of Chicago, Chicago, IL

Kersten Distinguished Service Professor of Physical Science. Contributed to high-energy physics. Founding member and later spokesperson of the CDF collaboration at the Fermilab Tevatron. Led this collaboration through the first observation and discovery of the heaviest known elementary particle, the top quark.

Cumrun Vafa

*Harvard University,
Cambridge, MA*

Donner Professor of Science. Leading expert on particle physics and string theory, and their mathematical content. Discovered or elaborated symmetries and dualities of supersymmetric field theory and string theory.

Section 3: Chemistry

Joseph Mark DeSimone

*University of North Carolina at
Chapel Hill, Chapel Hill, NC, and
North Carolina State University,
Raleigh, NC*

William R. Kenan, Jr. Distinguished Professor of Chemistry and of Chemical Engineering. Discovered supercritical CO₂ as environmentally benign medium in polymerization of tetrafluoroethylene, a process now applied commercially by DuPont to make Teflon. Subsequent invention of CO₂-philic

detergents made liquid or superficial carbon dioxide a general solvent for polymerizations, dry cleaning, and preparation of microelectronic circuits.

Madeleine M. Joullie

University of Pennsylvania, Philadelphia, PA

Professor of Chemistry. Work in total synthesis and chemical biology advanced the field of natural products chemistry, biology, and medicine. Synthesized numerous bioactive substrates, revised the structures of important natural products, and facilitated biological investigations through molecular design chemical synthesis. Pioneered new synthetic strategies and invented enabling synthetic technologies.

Daniel G. Nocera

Massachusetts Institute of Technology, Cambridge, MA

W. M. Keck Professor of Energy; Professor of Chemistry. Leading researcher in the development of renewable energy at the molecular level, where basic mechanisms of energy conversion in biology and chemistry are examined with the goal of replacing fossil fuels with the solar-driven production of hydrogen from water.

Ralph George Nuzzo

University of Illinois at Urbana-Champaign, Urbana, IL

William H. and Janet G. Lycan Professor of Chemistry. Discovered and characterized self-assembled monolayers (SAMs), which have revolutionized surface science by extending it to include organic and biological materials and systems. Contributions have led to important tools for addressing the physical chemistry of wetting and adhesion as well as for practical microelectronic structures.

Charles Dale Poulter

University of Utah, Salt Lake City, UT

John A. Widtsoe Distinguished Professor of Chemistry. Established new methodology for studying how molecules are syn-

thesized in cells and for determining the structures of biological macromolecules by combining techniques from synthetic and mechanistic organic chemistry, nuclear magnetic resonance spectroscopy, biochemistry, molecular biology, and genetics.

Galen D. Stucky

University of California, Santa Barbara, CA

Professor of Chemistry and Materials. Made contributions to the functional design and synthesis of organic/inorganic interfaces and composite materials. Pioneered the inorganic templated assembly of three-dimensional arrays of organic dipolar molecules into configurations that activate the second-order nonlinear optic response. First to create a three-dimensional ordered quantum dot array using metal-organic chemical vapor deposition and inorganic hosts.

David Anthony Tirrell

California Institute of Technology, Pasadena, CA

Ross McCollum-William H. Corcoran Professor; Professor of Chemistry and Chemical Engineering. Combined methods of chemistry and biology to create new macromolecular materials characterized by absolute uniformity of structure. Developed the only route to polymers of predetermined (non-statistical) sequence, giving access to materials that combine structure and function in unique ways.

Section 4: Astronomy (including Astrophysics) and Earth Sciences

Stanley R. Hart

Woods Hole Oceanographic Institution, Woods Hole, MA

Senior Scientist, Geology and Geophysics. Used long-lived radioactive nuclide systems to characterize the ages and evolution of mantle reservoirs and the chemical heterogeneity of the mantle. Demonstrated the nature of chemical reactions between the oceanic crust and seawater.

Worked on reconstructing environmental changes in the ocean through the analysis of marine corals and mollusks.

David C. Jewitt

University of Hawaii at Manoa, Manoa, HI

Professor of Astronomy. With colleagues, expanded the understanding of the solar system to include a vast population of small icy bodies in the so-called Kuiper Belt, at and beyond the orbits of Neptune and Pluto. Enriched knowledge of comets, many of which are evolved Kuiper Belt objects.

Frederick K. Lamb

University of Illinois at Urbana-Champaign, Urbana, IL

Professor of Physics and Astronomy; Fortner Endowed Chair in Theoretical Astrophysics. Leader in the theory of compact cosmic X-ray sources. Instrumental in the design and launch of the Rossi XTE satellite. Work on the physics of high-frequency oscillations is leading to accurate measurements of neutron star masses and radii and strong-field gravitational effects.

Andrew Evan Lange

California Institute of Technology, Pasadena, CA

Goldberger Professor of Physics. Pioneer in the development of sensitive bolometers and novel bolometric receivers used for measuring the cosmic microwave background (CMB) radiation. Determined the geometry of the universe with these instruments, ushering in the era of high-precision cosmology with CMB measurements.

Michael Lester Norman

University of California, San Diego, La Jolla, CA

Professor of Physics. Leader in computational astrophysics and cosmology. Carried out pioneering hydrodynamical supercomputer simulations of the structure and dynamics of extragalactic radio jets, the Lyman alpha forest, thermal instabilities in the

interstellar medium, and the formation of the first stars in the universe. Developed and disseminated the ZEUS family of simulation codes. Founded and directs the Laboratory for Computational Astrophysics.

Peter Lee Olson

Johns Hopkins University, Baltimore, MD

Professor of Geophysics and Fluid Dynamics. Geophysical fluid dynamicist. Made contributions to understanding the dynamics of the Earth's mantle and core. Through laboratory and numerical computations clarified how mantle plumes produce flood basalts and how Earth generates its magnetic field by a core dynamo.

Steven W. Squyres

Cornell University, Ithaca, NY

Goldwin Smith Professor of Astronomy. Principal Investigator for the Mars Exploration Rovers. Major contributions include geochemical and photometric analyses of planetary and asteroid surfaces, tectonic features on icy satellites and Venus, and the history of water on Mars.

Section 5: Engineering Sciences and Technologies

John Leonard Anderson

Case Western Reserve University, Cleveland, OH

Provost; University Vice President. Developed the first theories for electrokinetic particle and fluid transport in non-uniformly charged media that influence current advances in microfluidics and particle manipulation by electric fields. Membrane research led to advances in applications of hindered molecular transport in nano-pores. As Dean of engineering directed major initiatives in education and faculty diversification.

William Bruce Bridges

California Institute of Technology, Pasadena, CA

Carl F Braun Professor of Engineering, Emeritus. Invented the Argon ion laser in 1964 as part of the proposal and demonstration of laser emission from noble gas ions. Continued to develop his invention until these lasers became important instruments in physics, chemistry, and biology laboratories, as well as for ophthalmology.

Rodney James Clifton

Brown University, Providence, RI

Professor of Engineering; Rush C. Hawkins University Professor. Developed experimental and computational methods that contribute to a microstructure-based understanding of the inelastic deformation and fracture of materials at very high rates of deformation. Created a three-dimensional simulator for predicting the geometry of fractures induced by hydraulic fracturing.

Edith M. Flanigen

UOP, LLC, Des Plaines, IL

Scientist Emerita. Pioneer in molecular sieve chemistry. Discovered the first practical way to manufacture zeolite Y, now one of the most commonly produced molecular sieves with applications in the petroleum refining and petrochemical industries. Invented or coinvented over two hundred synthetic materials.

John P. Hirth

Washington State University, Pullman, WA; Ohio State University, Columbus, OH

Professor Emeritus. Known for fundamental theoretical and experimental contributions to the study of line defects (dislocations), key to the strength and deformation characteristics of materials. Wrote *Theory of Dislocations*. Early work on dislocations in thin films had impact on the semiconductor industry.

Julia M. Phillips

Sandia National Laboratory, Albuquerque, NM

Director of the Physical, Chemical, and Nano Science Center. At Bell Labs, did pioneering work on heteroepitaxy of dissimilar materials, leading to success in growing silicon on insulators and thus various important transistors. Several leadership roles at Bell Labs and Sandia National Lab; President of the Materials Research Society; Chair of National Materials Advisory Board.

Harold Vincent Poor

Princeton University, Princeton, NJ

George Van Ness Lothrop Professor in Engineering. Researcher and educator in the fields of signal detection and estimation, with applications in communications and related fields. Publications, courses, and mentoring educated a generation of research specialists and a broad spectrum of students across disciplines.

Niels Hansen (FHM)

RISØ National Laboratories, Roskilde, Denmark

Director Emeritus and Senior Scientist. Expert in the field of strengthening of polycrystalline metals, pioneering studies of their behavior under extreme deformation and elucidating dislocation of mechanisms in plastic flow. Founded the international RISØ Conference on Materials Science.

Peter B. Hirsch (FHM)

University of Oxford, Oxford, England

Professor Emeritus. Pioneered the use of electron microscopy as a tool for materials research. First to see line defects (dislocations) and their motion in the transmission electron microscope. Interpreted observations of dislocations and other defects in crystalline solids; related these observations to dislocations' pre-eminent role in determining mechanical properties.

Section 6 : Computer Sciences (including Artificial Intelligence and Information Technologies)

Nicholas Michael Donofrio

International Business Machines Corporation, Armonk, NY

Executive Vice President, Innovation and Technology. Established IBM in the RISC/UNIX workstation and systems business. Led the transformation of IBM's mainframe business from bipolar to CMOS technologies. Champions diversity programs for engineers inside IBM and across the country.

Herbert Edelsbrunner

Duke University, Durham, NC

Arts and Sciences Professor of Computer Science and Mathematics. Authority in the field of computational geometry and topology. Pioneered the approach of exploring the deep connections between computational geometry, discrete geometry, and combinatorial topology. Demonstrated how insights into combinatorial structures help in designing and analyzing geometric algorithms and how algorithmic issues lead to intriguing combinatorial problems.

Zvi Galil

Columbia University, New York, NY
Dean, The Fu Foundation School of Engineering and Applied Science; Morris and Alma A. Schapiro Professor of Engineering. Leadership in engineering and in the scientific community. Made contributions to theoretical computer science in design and analysis of algorithms, complexity, cryptography, and optimal experimental design. Invented algorithmic techniques and designed algorithms for many computational problems.

John V. Guttag

Massachusetts Institute of Technology, Cambridge, MA

Dugald C. Jackson Professor of Electrical Engineering and Computer Science. Known for work on abstract data types, program specifications, and the Larch specification language. Developed the "algebraic" approach for specifying abstract data types.

Kenneth W. Kennedy

Rice University, Houston, TX

John and Ann Doerr University Professor. Founder and Chair, Rice Computer Science Department and Rice Computer and IT Institute. Established and directed NSF's Center for Research on Parallel Computation. Fellow of the American Association for the Advancement of Science, Association for Computing Machinery, and Institute of Electrical and Electronics Engineers. Recipient of W. W. McDowell Award and ACM SIGPLAN Programming Languages Achievement Award. Cochair of the President's Information Technology Advisory Committee.

Jack K. Wolf

University of California, San Diego, La Jolla, CA

Stephen O. Rice Professor of Magnetics, Electrical Engineering, and Computer Engineering. Instrumental in the evolution of the disciplines of information, coding, and communication theories. Made contributions to the information sciences through innovations in the areas of Shannon theory, data compression, source coding, algebraic error-correction coding, constrained coding, trellis-coded modulation (TCM), channel equalization, and detection theory.

Class II: Biological Sciences

Section 1: Biochemistry and Molecular Biology

Giovanna Ferro-Luzzi Ames

University of California, Berkeley, CA; Children's Hospital Oakland Research Institute, Oakland, CA
Professor of Biochemistry and Molecular Biology, Emerita; Senior Scientist. Elucidated the transport of L-histidine in bacteria in detailed genetic and biochemical terms, illuminating the subject of cross-membrane transport and of the universally occurring ABC membrane-embedded transporters.

Gideon Dreyfuss

University of Pennsylvania School of Medicine, Philadelphia, PA
Isaac Norris Professor of Biochemistry and Biophysics; Investigator, Howard Hughes Medical Institute. Made discoveries concerning the nature of RNA-binding proteins and their critical roles in mRNA synthesis, export, and translation in normal and diseased cells. Defined now-classic major RNA binding motifs and found that many nuclear proteins shuttle rapidly and continuously between the nucleus and cytoplasm.

Jack D. Griffith

University of North Carolina at Chapel Hill, Chapel Hill, NC
Kenan Distinguished Professor of Microbiology and Immunology. Leading figure in the application of electron microscopy to the structure of individual molecules of DNA. Visualization of protein-DNA complexes, coupled to statistical analysis, has provided insights into the mechanisms of replication, recombination, and repair of the genetic material.

Stephen C. Kowalczykowski

University of California, Davis, CA
Professor of Microbiology and Molecular and Cell Biology. Research provides a synthetic mechanistic understanding of homologous recombination in eubacte-

ria, archaea, and eukaryota. Using biophysical and biochemical approaches, analyzes the nanoscale, molecular machines that repair DNA and their assembly into complete, biologically significant DNA transactions. Work bridges the biophysics/biology interface.

Rowena Green Matthews

University of Michigan Medical School and Life Sciences Institute, Ann Arbor, MI
G. Robert Greenberg Distinguished University Professor of Biological Chemistry; Research Professor. Scientific contributions as a researcher, teacher, and administrator cross the fields of biochemistry, microbiology, and structural biology. Known for biochemical studies demonstrating the role of folate and B₁₂-dependent enzymes in homocysteine metabolism and their relevance to disease.

Nancy Goldman Nossal

National Institutes of Health, Bethesda, MD
Chief, Laboratory of Molecular and Cellular Biology. Work guides thinking about DNA replication from phage to man. Research deals with the proteins and enzymatic reactions required for DNA replication. Using a simple phage model, made contributions to our understanding of the mechanisms as well as protein-protein and protein-DNA interactions needed for faithful replication.

Anna Marie Pyle

Yale University, New Haven, CT
William Edward Gilbert Professor of Molecular Biophysics and Biochemistry; Investigator, Howard Hughes Medical Institute. Contributed analyses of RNA folding, catalysis, and unwinding. Characterized the tertiary structure and catalytic mechanism of group II introns, RNA molecules that catalyze excisions like those performed by eukaryotic spliceosomes; and showed that RNA helicases are molecular motors that unwind RNA in a processive and directional manner.

Tom A. Rapoport

Harvard Medical School, Boston, MA
Professor of Cell Biology; Investigator, Howard Hughes Medical Institute. Biochemist and cell biologist responsible for our current understanding of the channel proteins engaged in polypeptide translocation into the endoplasmic reticulum membrane. Biochemical and structural analysis has guided understanding of the function and shape of the translocation pore.

Peter K. Vogt

The Scripps Research Institute, La Jolla, CA
Professor of Molecular and Experimental Medicine. Contributed to our knowledge of retroviruses and oncogenes. Work extends from studies on virus-host interactions to a genetic analysis of retroviruses that led to the discovery of oncogenes and their cellular origins. Continues to work on oncogenic transcription factors and cytoplasmic signaling proteins.

Margarita Salas (FHM)

Consejo Superior de Investigaciones Científicas, Madrid, Spain
Professor of Research, Centro de Biología Molecular. Using phage $\phi 29$, applied biochemical and genetic approaches to elucidate mechanisms of control of gene expression and of replication of linear DNA genomes that have proteins attached to their ends. Work has yielded insights into gene activity and replication.

Axel Ullrich (FHM)

Max-Planck-Institut für Biochemie, Martinsried, Germany
Director. Leader in molecular medicine and growth factor receptor research. Pioneer in the cloning of insulin gene sequences and discovery of the receptor tyrosine kinase HER2, which led to the development of effective breast cancer therapeutics. Provided insights into the roles of oncogenes and receptor tyrosine kinases in cancer and angiogenesis.

Ada Yonath (FHM)

Weizmann Institute of Science, Rehovot, Israel
The Martin S. and Helen Kimmel Professor of Structural Biology. Pioneer in ribosomal crystallography. Developed methods for crystallization and cryo-temperature crystal stabilization. Determined the atomic resolution structures of both ribosomal subunits, providing insights into the mechanism of protein synthesis. Elucidated principles of the action, selectivity, and synergism of ribosomal antibiotics and of resistance to them.

Section 2: Cellular and Developmental Biology, Microbiology, and Immunology (including Genetics)

Alfred L. Goldberg

Harvard Medical School, Boston, MA
Professor of Cell Biology. Made contributions to our understanding of intracellular protein degradation – its biochemical mechanisms, regulation, and physiological importance. First described the proteasome pathway in eukaryotic cells and many of its novel components and functions. Work has influenced many areas of biochemistry, cell biology, immunology, and medicine.

Iva S. Greenwald

Columbia University College of Physicians and Surgeons, New York, NY
Professor of Biochemistry and Molecular Biophysics; Investigator, Howard Hughes Medical Institute. Pioneer in the field of LIN-12/Notch signaling. Made discoveries in understanding this conserved and clinically sufficient signal transduction pathway. First to delineate the regulatory circuitry that governs lateral signaling and to describe the key role of presenilin in LIN-12/Notch processing. Discovered transcriptional and post-transcriptional levels of control of LIN-12/Notch activity during development of *Caenorhabditis elegans*.

John E. Heuser

Washington University School of Medicine, St. Louis, MO
Professor of Cell Biology and Physiology. Preparations of macromolecules, cells, and tissues for electron microscopy revealed many cellular features, including synaptic vesicle release and recycling, clathrin and coated pits, caveolin and caveolae, NSF and the SNARE complex, the cytoskeleton and molecular motors.

David Mark Kingsley

Stanford University, Stanford, CA
Professor of Developmental Biology; Investigator, Howard Hughes Medical Institute. Identified fundamental genetic pathways that create cartilage, bone, and joints in vertebrates and control arthritis susceptibility in mice and humans. Pioneered the molecular genetic analysis of evolutionary change in sticklebacks, revealing the number and type of genetic changes that control skeletal adaptations in natural populations.

Louis M. Kunkel

Harvard Medical School, Boston, MA
Professor of Pediatrics and Genetics; Investigator, Howard Hughes Medical Institute. Discovered, by positional cloning, the gene altered in the common sex-linked Becker/Duchenne muscular dystrophy. Described the muscle protein, dystrophin, which is diminished or defective in the muscular dystrophies. Biochemical purification of dystrophin from muscle led to the identification of additional proteins altered in other forms of dystrophy. Has shown that adult muscle progenitor cells are able to systematically deliver cystrophin to diseased muscle. Work has improved diagnosis and led to rational approaches to therapy of dystrophy.

Trudy F. C. Mackay

North Carolina State University, Raleigh, NC
William Neal Reynolds Distinguished Professor of Genetics. In projects with sensory and life-history traits in *Drosophila*, made

contributions to our understanding of the genetic basis of polygenic variation. Analyzed the homozygous, heterozygous, epistatic, and pleiotropic effects of naturally occurring and newly arisen mutations.

Hiroshi Nikaido

University of California, Berkeley, CA
Professor of Biochemistry and Molecular Biology. Characterized the outer membrane of gram-negative bacteria as a barrier to antibiotics and toxic agents. Proved the lipid bilayer of this membrane was asymmetric, which retarded passage of lipophilic solutes including many antibiotics. Discovered porin channels that allow small nutrient molecules to cross the outer membrane rapidly.

Thomas D. Petes

Duke University Medical Center, Durham, NC
Chair, Department of Molecular Genetics and Microbiology. Leader in studying genetic factors influencing recombination in yeast. Pioneered the use of DNA manipulation to define structural differences useful as genetic markers. Discovered several genes that affect yeast chromosome structure and recombination. Foresaw that defects in homologous human genes would cause a predisposition to cancer.

Thomas J. Silhavy

Princeton University, Princeton, NJ
Warner-Lambert Parke-Davis Professor of Molecular Biology. First to identify a component of the *E. coli* protein secretion machinery and to describe a "two-component system," a major family of bacterial regulatory elements that sense a variety of environmental signals and transduce the information to transcriptionally regulate gene expression.

Gary Struhl

Columbia University, New York, NY
Professor of Genetics and Development; Investigator, Howard Hughes Medical Institute. Discovered the nature and mode of action of spatial determinants

controlling pattern formation in animal development, which include the Polycomb and HOX "selectors" in specifying segmental states; Notch receptors in governing intercellular communication; and secreted factors of the Hedgehog, Wnt, and BMP/TGF[β] superfamilies as the first, bona fide gradient.

Tak Wah Mak (FHM)

University of Toronto, Toronto, Canada
Professor of Medical Biophysics and Immunology. Made discoveries through the application of molecular biology and biotechnology to hematology and immunology. Recognized as the discoverer of the human T-cell receptor.

Section 3: Neurosciences, Cognitive Sciences, and Behavioral Biology

Fred H. Gage

The Salk Institute for Biological Studies, La Jolla, CA
Vi and John Adler Professor of Age-Related Neurodegenerative Diseases, Laboratory of Genetics. Discovered and demonstrated the structural and functional plasticity in the adult mammalian brain, specifically that neurotrophic factors can induce functional repair of the damaged and aged brain, that humans continue to generate new neurons throughout life, and that behavior regulates the birth and survival of neurons.

David Julius

University of California, San Francisco, CA
Professor of Cellular and Molecular Pharmacology. Made contributions to understanding the molecular and functional properties of receptors for the neurotransmitters serotonin and ATP, and for the sensory modalities of pain, heat, and cold. Discoveries helped in understanding the molecular basis for thermal sensation.

Robert Charles Malenka

Stanford University School of Medicine, Palo Alto, CA
Pritzker Professor of Psychiatry and Behavioral Sciences. Made contributions to the understanding of the molecular mechanisms by which adaptive and pathological experiences modify synapses and circuits in the brain. Work has influenced current hypotheses regarding the neural mechanisms underlying learning and memory as well as drug addiction.

Eric J. Nestler

University of Texas Southwestern Medical Center, Dallas, TX
Lou and Ellen McGinley Distinguished Chair in Psychiatric Research. Elaborated molecular and cellular mechanisms by which drugs of abuse change brain function to cause complex behavioral abnormalities that characterize addiction. Discovered transcriptional mechanisms that control the brain's responses to drugs of abuse.

Louis French Reichardt

University of California, San Francisco, CA
Jack and Deloris Lange Professor of Physiology and Biochemistry and Biophysics; Investigator, Howard Hughes Medical Institute. Leader in the molecular biology of brain development. Discovered specific roles for different neurotrophins in regulating neuronal survival, connectivity, synaptic function, and behavior in the developing and mature brain. Discovered receptors and signaling mechanisms responsible for specificity of interactions between growing neurons and the cells and extracellular matrix that surround them.

Kâmil Ugurbil

University of Minnesota Medical School, Minneapolis, MN
McKnight Presidential Endowed Chair and Professor of Radiology, Neurosciences, and Medicine; Director, Center for Magnetic Resonance Research. Introduced and developed *in vivo* functional magnetic resonance imaging and spectroscopy meth-

ods for investigating brain function, including BOLD fMRI, chemical shift imaging, and spectroscopy to measure rates of specific enzymes and pathways.

Nancy Sabin Wexler

Columbia University, New York, NY
Higgins Professor of Neuropsychology. Genetic research discovered the families needed to identify the Huntington's disease gene – the first human disease-causing gene identified using DNA markers. As founding chairperson of the Human Genome Project's Ethical, Legal and Social Issues Working Group, united diverse constituencies behind sound public policies for genetic research.

Brenda Milner (FHM)

McGill University, Montreal, Canada
Dorothy J. Killam Professor of Psychology, Montreal Neurological Institute. One of the founders of cognitive neuroscience. Observations on patients with temporal-lobe lesions and on the two memory systems (explicit and implicit) have been central to understanding the brain circuits underlying memory processes and are directly relevant to the study of Alzheimer's disease. Contributions have revolutionized modern research on memory.

Rüdiger Wehner (FHM)

University of Zürich, Zürich, Switzerland
Director, Institute of Zoology. First to show how the honeybee's eyes and brain analyze the pattern of polarization in the sky for navigation. Studies methods of direction finding in the desert ant.

Section 4: Evolutionary and Population Biology and Ecology

James Samuel Clark

Duke University, Durham, NC
H. L. Blomquist Professor, Nicholas School of the Environment and Department of Biology. Pioneered studies on population processes in past and modern vegetation, using Baye-

sian methods to forecast future changes in vegetation. Work has provided understanding and predictions of changes in forest and grassland vegetation in response to global climate change, rising atmospheric CO₂, and changes in fire frequency.

Joseph Hurd Connell

University of California, Santa Barbara, CA
Professor of Zoology, Emeritus. Helped turn ecology into a rigorous, experimental science by pioneering use of field experiments (including long-term experiments) to test mechanisms structuring ecological communities. Contributed to our understanding of biodiversity through the intermediate-disturbance hypothesis, the Janzen-Connell hypothesis, and the concept of recruitment limitations of populations and biodiversity.

Edward Francis DeLong

Massachusetts Institute of Technology, Cambridge, MA
Professor, Division of Biological Engineering and Department of Civil and Environmental Engineering. Changed marine microbial ecology. Developed methods for phylogenetic identification, functional characterization, and quantification of individual bacterial species in culture-independent ways. Discovered new marine bacterial taxa, metabolic pathways, and photosynthetic systems.

Alan Hastings

University of California, Davis, CA
Distinguished Professor, Department of Environmental Science and Policy. Theoretical ecologist whose work spans the spectrum from population genetics to the science of marine reserves. Papers have influenced theory and practice.

Anne Pusey

University of Minnesota, St. Paul, MN
Distinguished McKnight University Professor; Research Director, Jane Goodall Institute. Long-term research on chimpanzees provided insight into

the evolution of primate social behavior. Showed that primate social systems are intimately linked to mating characteristics such as incest avoidance and limiting extra-group paternities, and to females achieving reproductive and territorial advantages.

Michael Ellman Soulé

University of California, Santa Cruz, CA
Professor Emeritus of Environmental Studies. Champion and founder of conservation biology. Developed methods to predict rates of species extinction, demonstrated role of meso-predator release in trophic cascades, and helped establish population viability analysis. Introduced fluctuating asymmetry as a measure of stress in natural populations.

Robert L. Trivers

Rutgers University, New Brunswick, NJ
Professor of Anthropology and Biological Sciences. Provided insights that revolutionized studies of animal behavior and life history: parent-offspring conflict, reciprocal altruism, parental investment and mating systems, and worker-queen conflict in social insects. Discoveries fostered subdisciplines of study in evolutionary biology, animal behavior, and psychology.

Michael Turelli

University of California, Davis, CA
Professor of Genetics. Advanced theoretical research on the maintenance of quantitative genetic variability by mutation and selection, and developed methods to predict phenotypic and multilocus genetic changes under natural and sexual selection. Contributed to the ecological theory of stochastic population dynamics and to theories of speciation.

Section 5: Medical Sciences (including Physiology and Pharmacology), Clinical Medicine, and Public Health

Qais Al-Awqati

Columbia University College of Physicians and Surgeons, New York, NY
Robert F. Loeb Professor of Medicine and Physiology. Discovered the vacuolar proton-ATPase. Showed that this ATPase and a chloride-channel constituted the mechanism for cell compartment acidification, which is crucial for endocytosis, loading of exocytotic vesicles, protein trafficking, lysosomal degradation, bone remodeling, and cellular invasion by viruses and toxins.

Barry Spencer Coller

Rockefeller University, New York, NY
David Rockefeller Professor of Medicine; Head, Laboratory of Blood and Vascular Biology; Physician-in-Chief, Rockefeller University Hospital. Translated basic research on blood platelet receptors into the first example of using a chimeric monoclonal antibody fragment to treat a disease. Product, inhibitor of platelet clumping, became a major therapy in cardiovascular medicine and a prototype of others.

David Ginsburg

University of Michigan, Ann Arbor, MI
James V. Neel Distinguished University Professor; Investigator, Howard Hughes Medical Institute. Identified the genetic bases of multiple inherited bleeding and clotting diseases including von Willebrand disease and thrombotic thrombocytopenic purpura. Discovered the genes responsible for combined deficiency of coagulation factors V and VIII and provided insights into the basic cellular processes of ER to Golgi transport.

Richard Michael Locksley

*University of California,
San Francisco, CA*

Sandler Distinguished Professor of Medicine; Investigator, Howard Hughes Medical Institute. Contributed basic research findings to our understanding of infectious and inflammatory disease. Defined the critical roles of cytokines in the regulation of T cell responses and T cell subsets. Showed that T cell subset regulation influences disease outcome.

Andrew Robert Marks

*Columbia University College of Physicians and Surgeons,
New York, NY*

Professor and Chair of Physiology and Cellular Biophysics. Discovered the calcium release channel (ryanodine receptor) macromolecular complex and the mechanism by which PKA phosphorylation of the channel enhances cardiac contractility. Showed that PKA hyperphosphorylation causes leaky channels in heart failure and elucidated a therapy for heart failure based on restoring normal channel function.

Anita Bauer Roberts

*National Institutes of Health,
Bethesda, MD*

Principal Investigator, Laboratory of Cell Regulation and Carcinogenesis, National Cancer Institute. Discovered transforming growth factor[β] (TGF- β) and elucidated its critical roles during development, fibrotic diseases, and cancer. Research has led to understanding the mechanism of action of the SMAD proteins in the signal transduction cascades, which are downstream of TGF- β binding to its receptor.

Ajit P. Varki

*University of California, San Diego,
La Jolla, CA*

Professor of Medicine and Cellular & Molecular Medicine. Studies biomedical and evolutionary issues in glycobiology, especially with regard to changes during human evolution. Elucidated the biology and evolution of sialic acids and Siglecs, which mediate interactions

among normal and malignant cells and with pathogens.

Raymond L. White

*University of California,
San Francisco, CA*

Rudi Schmid Distinguished Professor and Director of Ernest Gallo Clinic and Research Center. Contributions include conception of the use of genetic polymorphisms to map disease genes, discovery of variable repeat (VNTR) polymorphisms, demonstration of loss of heterozygosity as a mechanism for tumorigenesis, elucidation of the genetic basis of neurofibromatosis and familial polyposis coli, and genetic mapping of diverse human diseases.

Class III: Social Sciences

Section 1: Social Relations (Anthropology, Archaeology, Sociology, Social and Developmental Psychology, Education, Demography, Geography)

David E. Bloom

*Harvard School of Public Health,
Boston, MA*

Clarence James Gamble Professor of Economics and Demography. Research provides theory-based empirical support for the view that population health and demographic change influence economic growth. Contributed to our understanding of the rationale, means, and consequences of providing high-quality education throughout the world, at the primary, secondary, and tertiary levels.

John M. Darley

Princeton University, Princeton, NJ

Warren Professor of Psychology; Professor of Public Affairs. Work on bystander intervention is one demonstration that situational forces have a far greater influence on behavior than individual dispositions. Published work on academic careers and on the motivation to punish in legal

contexts. Past President of the American Psychological Society.

Christopher B. Donnan

*University of California,
Los Angeles, CA*

Professor of Anthropology. Leading authority on Peru's oldest pre-Hispanic state, the Moche. Work combines both science and the humanities, from studies of domestic architecture and subsistence to the details of Moche iconography and style.

Susan Tufts Fiske

Princeton University, Princeton, NJ

Professor of Psychology. Founder and contributor to social cognition. Former President of the American Psychological Society. American Psychological Association Early Career Awardee and Louvain-la-Neuve honorary degree recipient. Editor of eleven volumes and author of two books and more than a hundred articles and chapters on social cognition and prejudice.

Susan J. Goldin-Meadow

University of Chicago, Chicago, IL

Irving B. Harris Professor of Psychology. Studies the invention of communication systems by isolated deaf children deprived of any linguistic input. Work provides insight into the origins of language and human mentality. Current research explores two possible ways in which gesture can not only reflect cognitive change, but may also help to create it.

Reginald G. Golledge

*University of California,
Santa Barbara, CA*

Professor of Geography. Leader in the field of spatial cognition in urban environments. Developed basic theory and research techniques for investigating spatial behavior. Other contributions have focused on the acquisition of spatial knowledge and navigation ability for people without sight, including cooperative research on the development of an auditory way-finding system using GPS.

David I. Kertzer

Brown University, Providence, RI

Paul R. Dupee University Professor of Social Science; Professor of Anthropology and Italian Studies. Known for work on political symbolism, anthropological demography, and modern Italian history. Books include *The Kidnapping of Edgardo Mortara*.

Conrad Phillip Kottak

*University of Michigan,
Ann Arbor, MI*

Chair, Department of Anthropology. Leader of the "new ecological anthropology," an approach that considers each society's place in the broader world economy as crucial as its environmental setting. Analyses of state formation in Africa and Madagascar (among the Buganda, Betsileo, and Merina) exemplify this approach.

Ronald Demos Lee

*University of California,
Berkeley, CA*

Professor of Demography and Aging; Director, Center on the Economics and Demography of Aging. Work encompasses demographic effects of Malthusian shocks, intergenerational transfers, aging populations, and evolution of longevity. Member of the National Academy of Sciences and of the American Association for the Advancement of Science. Corresponding Fellow of the British Academy. Recipient of the Tauber and Sheps Awards of the Population Association of America. Advisor on Social Security reform.

Alberto Palloni

*University of Wisconsin-Madison,
Madison, WI*

H. Edwin Young Professor of Population and International Studies; Director, Center for Demography and Ecology. Developed techniques for measuring infant and child mortality in the absence of vital statistics; formulated a model for the assessment of demographic consequences of HIV/AIDS. Research focused on Latin American fertility, mortality, health migration, population aging, and household organization. Oversees data

collection on elderly people in seven Latin American countries and in Puerto Rico. President-elect of the Population Association of America.

Dolores Rita Piperno

Smithsonian Tropical Research Institute, Balboa, Republic of Panama; National Museum of Natural History, Washington, D.C.
Staff Scientist; Curator for South American Archaeology. Founded the field of phytolith analysis as a technique to revolutionize the identification of fossil plants. Authored a volume on the use of phytoliths in plant identification and pioneered the application of these techniques toward understanding the origins of agriculture and environmental history in the New World.

Henry L. Roediger III

Washington University in St. Louis, St. Louis, MO

James S. McDonnell Distinguished University Professor; Dean of Academic Planning. Leading cognitive psychologist studying learning and memory. Contributed to the study of illusory or false memories (developed a major laboratory paradigm) and the study of implicit (unaware) expressions of memory (through transfer-appropriate processing framework).

Robert J. Sampson

Harvard University, Cambridge, MA

Henry Ford II Professor of Social Sciences. Research interests center on crime, deviance, and stigmatization; the life course; neighborhood effects; and the sociology of the modern city. Current work in the area of neighborhood effects and urban sociology focuses on race/ethnicity and social mechanisms of ecological inequality, the subjective meanings of disorder, spatial dynamics, the comparative network structure of community influence, and collective civic engagement.

Richard Borshay Lee (FHM)

University of Toronto, Toronto, Canada

University Professor. Pioneering research on the Ju/'hoansi-

!Kung of southern Africa has enhanced understanding of the ecology and political economy of hunting-gathering societies. Books include *The !Kung San: Men, Women, and Work in Foraging Society* and *The Dobe Ju/'hoansi*.

Section 2: Economics

Truman Bewley

Yale University, New Haven, CT

Alfred C. Cowles Professor of Economics; Director, Graduate Studies in the Department of Economics. Contributor to general equilibrium theory and labor economics. Has done work on economies with infinitely many commodities, connections between equilibria and core allocations, stochastic games, and the permanent income hypothesis. Recent research documents the effect of recessions on wages and employment.

Guillermo Calvo

University of Maryland, College Park, MD

Distinguished University Professor. Developed the now standard model of inertia in product prices, which forms the basis of most modern research describing the effect of monetary policy on real activity. Recent research deals with transition economies and international capital flows, especially recent crises in emerging market economies.

Laurence J. Kotlikoff

Boston University, Boston, MA

Professor of Economics. Contributed to understanding the determinants of household saving behavior and the impact of taxation on capital accumulation. Codeveloped and calibrated numerical general equilibrium model with overlapping generations for analyzing dynamic fiscal policy. Codeveloped "generational accounting" to measure intergenerational fiscal transfers, assess the sustainability of fiscal policy, and replace inherently vacuous deficit accounting.

Stephen Edward Morris

Princeton University, Princeton, NJ

Professor of Economics. Research ranges from the epistemic foundations of game theory to policy analysis. Unifying theme has been the importance of higher-order beliefs (uncertainty about others' beliefs) in applied economic settings such as asset pricing and currency crises. Recent work shows the limitations of "transparency" (improved public information) in achieving efficient coordination.

Donald John Roberts

Stanford University, Stanford, CA

John H. Scully Professor in International Business Studies. Pioneer in applying game theory to the study of industrial organization. Authored theories of limit pricing, reputation-building strategies, predatory pricing, and manufacturing strategy. Introduced the use of lattice theory in economics. Studies the connection between firm strategy and organization.

Neil Wallace

Pennsylvania State University, University Park, PA

Professor of Economics. Contributor to the fields of monetary theory, regulation of financial intermediaries, and central bank policy. Works on deposit insurance, the role of inside money, deficits and inflation, and the determination of exchange rates.

Mark Watson

Princeton University, Princeton, NJ

Professor of Economics and Public Affairs. Applies advanced statistical methods to issues of economic dynamics. Coauthor of a body of research on the joint movements of unemployment and inflation that form the basis for modern thinking on this subject. Developed a general approach to the measurement of business-cycle dynamics.

Fumio Hayashi (FHM)

University of Tokyo, Tokyo, Japan

Professor of Economics. Contributed empirical work on a number of theoretical models: the 'q' theory of investment, the

permanent income hypothesis, the role of liquidity constraints on consumption, altruism within families, and saving behavior. Work has highlighted the extent to which these classic models are consistent with the evidence.

Werner Hildenbrand (FHM)

Universität Bonn, Bonn, Germany

Professor of Economics. Made contributions to mathematical economics. Generalized the results under which competitive equilibria and the core coincide in a continuum economy and developed general limit theorems for the core. Showed key properties of aggregate demand, including the Law of Demand.

Paul David Klemperer (FHM)

University of Oxford, Oxford, England

Edgeworth Professor of Economics. Contributor to industrial economics, competition policy, and auction theory. Introduced the now widely used concept of "strategic complements" to study oligopoly (with Bulow and Geanakoplos). Developed the theory of consumer switching costs. Showed how to apply auction-theoretic techniques in other fields. Designed auctions (with Binmore) including the British 3G telecom auction.

Section 3: Political Science, International Relations, and Public Policy

Rebecca M. Blank

University of Michigan, Ann Arbor, MI

Dean, Gerald R. Ford School of Public Policy. Played a role in clarifying how macroeconomic factors affect the economic well-being of the poor and women. Served on the Council of Economic Advisors and on National Academy of Science panels. Analyzed policies for promoting social welfare, especially for anti-poverty programs.

Nancy E. Burns

*University of Michigan,
Ann Arbor, MI*

Professor of Political Science; Director, Center for Political Studies. Applies statistical techniques in the study of American politics, including urban politics and the politics of gender. Recent book, cowinner of the APSA's Schuck Prize, demonstrated the roots of the gender gap in political participation in the experiences of adult life. Co-principal investigator of the American National Election Study.

Robert Legvold

Columbia University, New York, NY

Professor of Political Science. Former director, Harriman Institute for Advanced Study of the Soviet Union. Author of studies on foreign and military policies of Soviet and post-Soviet states, arms control, and international politics.

Gerhard Loewenberg

University of Iowa, Iowa City, IA

Professor of Political Science, Emeritus; University of Iowa Foundation Distinguished Professor. Fostered legislative studies as a cross-national and systematic field of inquiry. Coeditor of *Legislative Studies Quarterly*.

Robert L. Powell

University of California, Berkeley, CA

Robson Professor of Political Science. Applying game theory to the study of conflict and the use of force in weakly institutionalized environments, focused on credibility and nuclear deterrence, the role of force in international bargaining, and the causes of conflict and war.

Richard J. Samuels

*Massachusetts Institute of
Technology, Cambridge, MA*

Ford International Professor; Director, Center for International Studies. Work on state-society relations in Japan changed understanding of the state's role in the economy and the security objectives of modern nations. Book on leadership explores the

space for political choice in late-developing Italy and Japan and reanimates debates over leaders and agency in political science. Pioneered "applied area studies" at American universities.

Norman J. Schofield

*Washington University in St. Louis,
St. Louis, MO*

William Taussig Professor of Political Economy. Leading mathematical political scientist. Made contributions in the theory of voting and models of coalition formation. Associated with applied work on multiparty parliamentary government, electoral contests, and crises in American political history.

Michael Jonathan Wallerstein

Yale University, New Haven, CT

Professor of Political Science. Applied formal models of bargaining and politics to study the impact of labor market institutions and social divisions on equality, growth, and unemployment. Work includes studies of union growth and decline, the efficiency and redistributive effects of centralized wage setting, and the politics of social insurance. Deceased.

Stephen M. Walt

Harvard University, Cambridge, MA

Robert and Renee Belfer Professor of International Affairs; Academic Dean, John F. Kennedy School of Government. Author of *The Origins of Alliances, Revolution and War*, and *Taming American Power: The Global Response to U.S. Primacy*. Coeditor of the *Cornell Studies in Security Affairs*. Developed the "balance of threat" theory. Writes on international politics and foreign policy.

Janice Gross Stein (FHM)

*University of Toronto,
Toronto, Canada*

Belzberg Professor of Conflict Management; Director, Munk Centre for International Studies. Fellow of the Royals Society; Trudeau Fellow. Scholar of the impact of political psychology on conflict management, with particular expertise on the Middle East. Pioneer in three subfields of political science:

negotiation theory, foreign policy decision making, and international conflict management.

Section 4: Law (including the Practice of Law)

Jack M. Balkin

Yale Law School, New Haven, CT

Knight Professor of Constitutional Law and the First Amendment. Examines a variety of legal issues through multidisciplinary prisms, including history, sociology, political science, literary theory, cognitive psychology, and music. Recent work involves the interplay between social movements and legal change.

Elena Kagan

Harvard Law School, Cambridge, MA

Dean; Charles Hamilton Houston Professor of Law. Defended the shift to centralized policy-making in administrative law and developed detailed analysis of governmental purpose and motive in First Amendment issues. Deputy Assistant to President Clinton for Domestic Policy and Deputy Director of the Domestic Policy Council.

Duncan McLean Kennedy

Harvard Law School, Cambridge, MA

Carter Professor of General Jurisprudence. Author of *Legal Education and the Reproduction of Hierarchy, Sexy Dressing Etc.*, and *A Critique of Adjudication*. One of the founders of the critical legal studies movement.

Sylvia Ann Law

*New York University School of Law,
New York, NY*

Elizabeth K. Dollard Professor of Law, Medicine and Psychiatry; Codirector, Arthur Garfield Hays Civil Liberties Program. Scholar in health law, welfare law, and constitutional law. Constitutional litigator. Coauthor of *Blue Cross: What Went Wrong?* (*New York Times* Outstanding Book Award for 1974); *Political and Civil Rights in the U.S.*; and *American Health Law*. Recipient of MacArthur Prize Fellowship.

Catharine Alice MacKinnon

*University of Michigan Law School,
Ann Arbor, MI*

Elizabeth A. Long Professor of Law. Made contributions to political theory (legal theory, feminism), the theory and practice of law, and public policy-making in civil rights and human rights. Specialist on equality, sexual assault, and women's rights.

William Rehnquist

*United States Supreme Court,
Washington, D.C.*

Chief Justice. Influence on the Court's jurisprudence is complemented by his championship of judicial independence and management of the Court's business and the U.S. Judicial Conference. Author of *Political Battles for Judicial Independence, Sunshine in the Third Branch, Constitutional Law and Public Opinion, The Supreme Court, Grand Inquests*, and *All the Laws but One*. Deceased.

Frederick A. O. Schwarz, Jr.

*Brennan Center for Justice,
New York, NY*

Senior Counsel. Combined private practice at Cravath, Swaine & Moore with publications and public service, including Chair, New York City Charter Revision; Corporation Counsel, City of New York; Counsel, post-Watergate Senate Select Committee on Intelligence; and Chair, New York City Campaign Finance Board. Has held board positions in Natural Resources Defense Council, Vera Institute of Justice, and NAACP Legal Defense Fund.

Class IV: Humanities and Arts

Section 1: Philosophy and Religious Studies

Daniel Boyarin

University of California, Berkeley, CA
Herman P. and Sophia Taubman Professor. Specialist in Talmudic culture and the intersections of early Judaism and early Christianity. Author or editor of nine books and over one hundred

articles and essays concerning Talmudic interpretation, martyrdom in Judaism and Christianity, constructions of "heresy," the separation of Judeo-Christianity, and the history of sexuality.

Robert John Fogelin

Dartmouth College, Hanover, NH
Sherman Fairchild Professor in the Humanities, Emeritus. Scholar in epistemology, historical figures, and issues in philosophy of language, e.g., metaphor. Contributed to the renewed interest in Pyrrhonian skepticism (especially Sextus, Hume, Wittgenstein) and developed a distinctive version of neo-Pyrrhonism. Author of *Evidence and Meaning, Wittgenstein, Hume's Skepticism, Philosophical Interpretations, Pyrrhonian Reflections on Knowledge and Justification, Berkeley's Idealism, and Walking the Tightrope of Reason*.

Gilbert H. Harman

Princeton University, Princeton, NJ
Stuart Professor of Philosophy; Chair, Committee for Cognitive Studies. Made contributions in several subfields of philosophy, including ethics, epistemology, metaphysics, and the philosophies of language and mind. Advocate of a sophisticated form of relativism in ethics.

Charles Larmore

University of Chicago, Chicago, IL
Chester D. Tripp Professor in the Humanities. Author of *Patterns of Moral Complexity, Modernité et morale, The Morals of Modernity, The Romantic Legacy*, and the recent *Les pratiques du moi*, for which he was awarded the Grand Prix de Philosophie by the Académie Française. Developed, at the same time as John Rawls, the concept of "political liberalism."

Keith E. Lehrer

University of Arizona, Tucson, AZ
Regents Professor, Emeritus; Honorary Professor at the University of Graz, Austria. Leading epistemologist. Main advocate of a coherence theory of knowledge. Developed a mathematical theory of rational consensus (with Carl Wagner). Contributor

to the literature on free will. Author of an overall account of the philosophy of Thomas Reid. Now writes on aesthetics and is a painter.

Barbara Newman

Northwestern University, Evanston, IL
Professor of English, Religion, and Classics. Has written on gender, literature, and religion in the Middle Ages. Work has two primary emphases: the accomplishments of historical women as writers, patrons, and spiritual leaders; and the functions and meanings of symbolic constructions of the feminine in devotional and imaginative texts.

Peter van Inwagen

University of Notre Dame, Notre Dame, IN
John Cardinal O'Hara Professor of Philosophy. Works on free will and determinism, materialism in philosophy of mind, the nature of material constitution, and the metaphysics of modality. In philosophy of religion, works on the problem of evil. Also works in ontology, in particular on the nature of fictional objects, and in philosophy of logic, in particular on the nature of quantification.

Section 2: History

Omer Bartov

Brown University, Providence, RI
John P. Bikelund Distinguished Professor of European History. Has written six books and edited three volumes on modern Germany, France, the Holocaust, and representations of war, genocide, and Jews. Recipient of several fellowships.

John Henry Coatsworth

Harvard University, Cambridge, MA
Monroe Gutman Professor of Latin American Affairs; Director, David Rockefeller Center. Carried out research in application of econometric methods to Latin American history (particularly on history of railroads); comparison of national incomes in Latin America and the United States; comparative studies of rural revolts in Latin America;

and U.S. relations with Central America since independence.

Victoria de Grazia

Columbia University, New York, NY
Professor of History. Scholar of twentieth-century Europe and consumer culture in comparative perspective. Known for work on Italy, notably *The Culture of Consent: Mass Organization of Leisure in Fascist Italy* and *How Fascism Ruled Women*. Coeditor of the *Dizionario del Fascismo*. Study of the cultural dimensions of U.S. global hegemony culminated in *Irresistible Empire: America's Advance Through Twentieth-Century Europe*.

Sheila Fitzpatrick

University of Chicago, Chicago, IL
Bernadotte E. Schmitt Distinguished Service Professor of Modern Russian History. Student of twentieth-century Russia. Wrote six books that transformed the field of Soviet studies, departing from Kremlinological or cold war categories to examine the lives of ordinary Russians, from the revolutionary imperative of self-reinvention through the upheavals of collectivization and cultural revolution to the hardships and utopian visions of everyday Stalinism.

Raul Hilberg

University of Vermont, Burlington, VT
Professor Emeritus of Political Science. Member of the President's Commission on the Holocaust and of the United States Holocaust Memorial Council. Author of *The Destruction of the European Jews, Perpetrators Victims Bystanders, and Sources of Holocaust Research*.

Alice Kessler-Harris

Columbia University, New York, NY
R. Gordon Hoxie Professor of American History; Department Chair. Specializes in the history of American labor and the comparative and interdisciplinary exploration of women and gender. Published works include *In Pursuit of Equity* (awarded the Joan Kelly, Phillip Taft, and Bancroft Prizes), *Women Have Always Worked, Out to Work: A*

History of Wage-Earning Women in the United States, and *A Woman's Wage: Historical Meanings and Social Consequences*. Coeditor of *Protecting Women: Labor Legislation in Europe, Australia, and the United States, 1880–1920* and *U.S. History as Women's History*.

Naomi R. Lamoreaux

University of California, Los Angeles, CA
Professor of Economics and History. Research centers on U.S. business and economic history. Author of *The Great Merger Movement in American Business, 1895–1904*; *Insider Lending: Banks, Personal Connections, and Economic Development in Industrial New England*; and numerous articles.

Harriet Ritvo

Massachusetts Institute of Technology, Cambridge, MA
Arthur J. Conner Professor of History. Author of studies at the intersection of the history of science, environmental history, and British cultural history. Created a subfield that explores the interactions of humans and animals and what they reveal about human cultures and societies in specific historical contexts. Recipient of several fellowships and honors.

Robert I. Rotberg

World Peace Foundation and Harvard University, Cambridge, MA
President of the Foundation and Director, Kennedy School of Government's Program on Intra-state Conflict and Conflict Resolution. Has written on the political history of sub-Saharan Africa, including a biography of Cecil Rhodes. Founder and coeditor of the *Journal of Interdisciplinary History*. Past President of Lafayette College and Vice President of Tufts University. Author or editor of books and articles on nation-state failure, good governance in the developing world, and conflict in Africa, the Caribbean, and Southeast Asia.

Richard P. Saller

University of Chicago, Chicago, IL
Provost and Edward L. Ryerson Distinguished Service Professor of History and Classics. Histori-

an of ancient Rome. Made contributions to the understanding of the structures and workings of Roman society. Drawing on a wide range of classical sources (literary and archaeological) and scholarly disciplines in the social sciences, illuminated the demographic and cultural developments of the Roman Empire.

Section 3: Literary Criticism (including Philology)

James Engell

Harvard University, Cambridge, MA
Gurney Professor of English Literature and Professor of Comparative Literature. Scholar, critic, and editor. Clarified and illuminated the transition between eighteenth- and nineteenth-century literary principles and practice in Great Britain and Germany. Participated in contemporary public debates about education and the importance of the humanities.

John Felstiner

Stanford University, Stanford, CA
Professor of English and Jewish Studies. Expertise includes English and American poetry, literary translation, and Holocaust poetry, art, and music. Known internationally for studies and translations of the works of Pablo Neruda and Paul Celan. Current project is a book, *So Much Depends: Poetry and Environmental Urgency*.

Robert Hollander

Princeton University, Princeton, NJ
Professor Emeritus of European Literature; Professor Emeritus in the Department of French and Italian. Author of twenty books and more than ninety articles, mainly dealing with Dante and/or Boccaccio. Founding member of Dartmouth Dante Project and Princeton Dante Project. Founding member of International Dante Seminar. Founding editor of *Electronic Bulletin of the Dante Society of America*. Chief elected officer emeritus of the boards of trustees of NEH, DSA, NJHC, NHC, and Collegiate School.

John T. Irwin

Johns Hopkins University, Baltimore, MD
Decker Professor in the Humanities. Author of books on Faulkner (*Doubling and Incest*), American symbolism (*American Heiroglyphics*), and Poe and Borges (*The Mystery to a Solution*, which won the Gauss Prize). Author of books of poetry (under the name John Bricuth). Edited various literary journals such as *The Georgia Review*.

John J. McCarthy

University of Massachusetts, Amherst, MA
Professor of Linguistics; Graduate Program Director. Helped transform the study of morphology, phonology, and their interface through the introduction of prosodic morphology and of Optimality Theory. Played a leading role in its theoretical and empirical achievements.

Eve Kosofsky Sedgwick

Graduate Center of the City University of New York, New York, NY
Distinguished Professor. Scholar-critic of nineteenth-century British and European literature and culture. Theorist of human sexuality and its representations. Leading figure in the development of gay and lesbian studies.

Lewis P. Simpson

Louisiana State University, Baton Rouge, LA
Boyd Professor; William A. Read Professor of English Literature, Emeritus. Coeditor of *The Southern Review*. Author or editor of more than thirteen books, including *Mind and the American Civil War: A Meditation on Lost Causes*. Winner of the Avery O. Craven Award. Recipient of Guggenheim and National Endowment for the Humanities Fellowships. Deceased.

Samuel Miles Weber

Northwestern University, Evanston, IL
Avalon Foundation Professor of the Humanities. Work, including *The Legend of Freud*, *Return to Freud*, *Institution and Interpre-*

tation, and *Mass Mediauras*, opened up avenues among disciplines such as literary studies, philosophy, psychoanalysis, textual theory, and institutional analysis. Recent work focuses on the relation of art and aesthetics to media. Recently published *Theatricality as Medium and Targets of Opportunity: On the Militarization of Thinking*.

Michael Hofmann (FHM)

London, England
Professor of Creative Writing (Poetry) at the University of Florida, where he teaches half-time. Published five books of poems: *Nights in the Iron Hotel*; *Corona, Corona*; and *Approximately Nowhere*. Translated more than thirty books from the German, mainly novels, including works by Ernst Junger, Franz Kafka, Wolfgang Koeppen, Joseph Roth, and Wim Wenders. Recipient of a Cholmondeley Award, the Geoffrey Faber Memorial Prize, the IMPAC Dublin Literary Award, and the Helen and Kurt Wolff Translator's Prize.

Section 4: Literature (Fiction, Poetry, Short Stories, Nonfiction, Playwriting, Screenwriting)

Lydia Davis

SUNY Albany/The Writers Institute, Albany, NY
Short story writer; Novelist; Translator. Recipient of awards from the Whiting Foundation, the Guggenheim Foundation, the Lannan Foundation, and the MacArthur Foundation. For work as writer and translator, named a Chevalier of the Order of Arts and Letters by the French government. Translation of *Swann's Way* received the French-American Foundation Translation Prize for 2003. Writings beg the boundaries between fiction and nonfiction, fiction and poetry.

Horton Foote

New York, NY
Playwright; Screenwriter. Best known for his films, including *To*

Kill a Mockingbird (received Academy Award in 1962) and *Tender Mercies* (received Academy Award in 1983). Awarded a Pulitzer Prize for drama in 1995 for *The Young Man from Atlanta*. Recipient of the National Medal of Arts and the Gold Medal for drama for lifetime achievement from the American Academy of Arts and Letters.

Rebecca Goldstein

Trinity College, Hartford, CT
Professor of Philosophy. Novelist. Works of fiction, which include *The Mind-Body Problem*, *Strange Attractors*, *Mazel*, and *Properties of Light*, bring to life ideas from philosophy, mathematics, and physics by making them central passions in her characters. Recipient of a MacArthur Foundation Fellowship. Work has won many prizes, including two Whiting Awards.

Robert Hass

New York, NY
Poet; Critic; Translator. Poetry is celebrated for its clarity of expression, conciseness, and imagery, often drawn from everyday life. Recipient of a MacArthur Foundation Fellowship, PEN award for translation, and National Book Critics Circle Award in poetry for *Sun under Wood*.

Ward Just

Martha's Vineyard, MA
Fiction Writer. Combines skills of a novelist and journalist, aesthetician and politico. Worked as a foreign correspondent during the Vietnam War. Works include *Jack Gance*, *Echo House*, *The Weather in Berlin*, and *An Unfinished Season*. Nonfiction work includes *To What End: Report from Vietnam* and the introduction to *Reporting Vietnam: American Journalism, 1959 - 1975*.

Tony Kushner

New York, NY
Playwright; Director. First major work was *Angels in America: A Gay Fantasia on National Themes* (received a Pulitzer Prize, two Tony Awards, two Drama Desk Awards, the Evening Standard Award, the

New York Critics Circle Award, the Los Angeles Drama Critics Circle Award, and the LAMBDA Liberty Award for Drama). Other works are *A Bright Room Called Day* and *Slavs!* Recipient of a Whiting Foundation Writers Award and playwriting and directing fellowships from the New York Foundation for the Arts, the New York State Council on the Arts, and the National Endowment for the Arts.

Alison Lurie

Cornell University, Ithaca, NY
F. J. Whiton Professor of American Literature, Emerita. Writes about children's literature (*Don't Tell the Grownups and Boys and Girls Forever*). Known for adult novels concerning comic family strife (*The War between the Tates*) and erotic misalliance (*Foreign Affairs*). Received Pulitzer Prize in fiction for *Foreign Affairs*.

Francine Prose

New York, NY
Novelist. Author of thirteen books of fiction, including *Blue Angel*. Most recent novel is *A Changed Man*. Books of non-fiction include *Gluttony*, *The Lives of the Muses*, and *Sicilian Odyssey*. Work has appeared in *The New Yorker*, *The Atlantic Monthly*, *GQ*, and *The Paris Review*. Contributing editor at *Harper's*. Writes regularly on art for *The Wall Street Journal*. Recipient of grants and awards, including Guggenheim and Fulbright fellowships. Was a Director's Fellow at the Center for Scholars and Writers at the New York Public Library.

Art Spiegelman

New York, NY
Cartoonist. Recipient of a Special Pulitzer Prize, National Book Critics Circle Award, *Los Angeles Times* Book Prize, and Before Columbus Foundation Award for *Maus: A Survivor's Tale II: And Here My Troubles Began*. Recipient of a Guggenheim Fellowship. Cofounding editor of *RAW*, magazine of avant-garde comics published between 1980 and 1991. Most recent book, *In the Shadow of No Towers*, was a *New York Times* Notable Book (2004).

Susan Stewart

Princeton University, Princeton, NJ
Poet and Annan Professor of English. MacArthur Fellow. Combines poetry and criticism. Most recent book of literary criticism, *Poetry and the Fate of the Senses*, won both the Christian Gauss Award in 2002 and the Truman Capote Prize for Literary Criticism in 2004. *Columbarium*, a collection of poems, won the National Book Critics Circle Award in 2003. Recipient of a Guggenheim Fellowship and a Lila Wallace Award. Published recently a collection of work on contemporary art, *The Open Studio: Essays on Art and Aesthetics*. Elected a Chancellor of the Academy of American Poets.

C. D. Wright

Brown University, Providence, RI
Israel J. Kapstein Professor of English. Recent publications include *Cooling Time: An American Poetry Vigil*, *One Big Self*, in collaboration with Deborah Luster, and *Steal Away*. Published nine other books of poetry, including two book-length poems, *Deepstep Come Shining* and *Just Whistle*. Won fellowships and awards from the Bunting Institute, the Foundation for Contemporary Arts, and the Guggenheim, Lannan, and Wallace Foundations.

Wisława Szymborska (FHM)

Krakow, Poland
Poet. Won the 1996 Nobel Prize in Literature, the 1995 Herder Prize, and the 1991 Goethe Prize. Published more than fifteen collections of poems, including *View with a Grain of Sand*.

Section 5: Visual and Performing Arts – Criticism and Practice

Jane A. Bernstein

Tufts University, Medford, MA
Austin Fletcher Professor of Music. Musicologist in the field of Italian Renaissance scholarship, focusing on the history of music printing in sixteenth-century Italy. Publications include *Music Printing in Renaissance*

Venice: The Scotto Press (1539 – 1572) and *Women's Voices Across Musical Worlds*. Contributed to the field of opera and to women's studies.

Yve-Alain Bois

Institute for Advanced Study, Princeton, NJ
Professor, School of Historical Studies. Writer and Curator. Leading figure in the history and criticism of twentieth-century art, and especially of the modernist tradition of abstract art. Has written on the art of Matisse, Picasso, Mondrian, Lissitzky, Kelly, Newman, Serra, and other artists. Editor of the journal *October*. Contributed to the current state of modernist studies in this country.

Richard Brilliant

Columbia University, New York, NY
Anna S. Garbedian Professor in the Humanities, Emeritus. Transformed the study of classical art, opening the field to new critical methods of historical and stylistic analysis. Scholarship primarily based in the study of ancient Greek and Roman art. Publications include *My Laocoon: Alternative Claims in the Interpretation of Artworks*, *Commentaries on Roman Art*, and *Visual Narratives: Storytelling in Etruscan and Roman Art*. Was Editor-in-Chief of *The Art Bulletin*.

Chen Yi

University of Missouri, Kansas City, MO
Distinguished Professor in Composition at the Conservatory of Music. Composer and ambassador for the arts. Blends Chinese and Western traditions. Recipient of Charles Ives Living Award, Guggenheim Fellowship, Grammy Award, and ASCAP Award. Compositions span orchestral, chamber music, choral, and solo works.

Lynn Garafola

Barnard College, New York, NY
Dance Historian; Critic. Has written books and articles, edited books and journals, taught dance history and theory, and organized exhibitions and lecture series. Author of *Diaghilev's*

Ballets Russes and Legacies of Twentieth-Century Dance. Editor of several volumes, including *The Diaries of Marius Petipa; Of, By, and For the People: Dancing on the Left in the 1930s; José Limón: An Unfinished Memoir; Dance for a City: Fifty Years of the New York City Ballet; and The Ballets Russes and Its World*.

Judith Jamison

Alvin Ailey American Dance Theater, New York, NY
Artistic Director. Dancer, choreographer, teacher, lecturer, and author. Rehabilitated the Alvin Ailey organization, both artistically and fiscally, bringing it back to its original mission of establishing dance in the community and rededicating it to education in the arts. Recipient of an Emmy Award, an American Choreography Award, a Kennedy Center Honor, and a National Medal of Arts.

Jeff Koons

New York, NY
Visual Artist. Sculpture and paintings have been exhibited internationally and are included in the collections of museums such as the National Gallery in Washington, D.C., the Museum of Modern Art in New York, and London's Tate Modern. Recipient of several awards and honors. Recently named a Chevalier of the French Legion of Honor.

Maya Ying Lin

Maya Lin Studio, New York, NY
Architect/Artist. Designed the Vietnam Veterans' Memorial in Washington, D.C. Accomplished both in the field of art and architecture. Creates large-scale environmental art installations and works of architecture.

Glenn D. Lowry

The Museum of Modern Art, New York, NY
Director. Heads one of the world's leading museums of modern and contemporary art. Directs curatorial, educational, and administrative programs. Managed the Museum's building project, which began in 1996 and was completed this year, marking MOMA's 75th anniversary.

Former Director of the Art Gallery of Ontario.

Mark Morris

Mark Morris Dance Group,
Brooklyn, NY

Choreographer. Established the Mark Morris Dance Group in 1980. Known for commitment to live music. Created over a hundred works for MMDG and numerous works for ballet and opera companies. Opened the Mark Morris Dance Center in 2001.

Sidney Poitier

Los Angeles, CA

Actor; Director; Producer. President and Chief Executive Officer of Verdon Cedric Productions. Awards include an Academy Award for Best Actor (*Lilies of the Field*), the BAFTA Award, three Golden Globe Awards, an American Film Institute Lifetime Achievement Award, the Kennedy Center Lifetime Achievement Award, the Screen Actors Guild Lifetime Achievement Award, five NAACP Image Awards, and two Golden Bear Awards from the Berlin Film Festival. Knighted by H. M. Queen Elizabeth II in 1968. Currently serves as ambassador to Japan and to UNESCO, representing the Commonwealth of the Bahamas.

Earl A. Powell III

National Gallery of Art,
Washington, D.C.

Director. Expert in nineteenth- and twentieth-century European and American art. Previously Director of the Los Angeles County Museum of Art. Held curator positions at the National Gallery and the University of Texas at Austin. Publications include a monograph on the artist Thomas Cole.

Elizabeth Barlow Rogers

Foundation for Landscape Studies,
New York, NY

President. Directed the Central Park Task Force from 1975 until her appointment as Central Park administrator in 1979. Helped found the Central Park Conservancy in 1980. Has written on Frederick Law Olmsted and on the history of park, garden, and

urban design. Publications include *Landscape Design: A Cultural and Architectural History* and *The Forests and Wetlands of New York City*.

Ned Rorem

New York, NY

Composer; Author. Has written three symphonies, four piano concertos, several orchestral works, music for numerous combinations of chamber forces, six operas, ballet and theater music, and songs and cycles. Author of fourteen books, including five volumes of diaries and collections of lectures and criticism.

John Sayles

New York, NY

Film Director; Actor; Playwright; Film Editor. Directed the films *The Return of the Secaucus Seven*, *Eight Men Out*, *Passion Fish*, and *Lone Star*. Directed several plays and wrote a number of novels. Awards include a MacArthur Foundation Fellowship, O. Henry Award for "I-80 Nebraska," and the Writers Guild of America Hunter Award for Lifetime Achievement in Writing. Author of *Union Dues*.

Christian Wolff

Dartmouth College, Hanover, NH

Professor of Classics and Strauss Professor of Music, Emeritus. Classicist. Has written publications on Greek tragedy. Figure in contemporary music with over 150 compositions published and performed worldwide, and over 80 commercially recorded.

Daniel Barenboim (FHM)

Chicago Symphony Orchestra,
Chicago, IL

Music Director; Pianist; Conductor. Performed and conducted music of all genres in tours around the world. Through music and published works created bridges in the German/Israeli and the Israeli/Palestinian relationships. Awarded the Wolf Prize in May 2004 for his commitments to human rights causes.

Class V: Public Affairs, Business, and Administration

Section 1: Public Affairs, Journalism, and Communications

Tom Brokaw

NBC News, New York, NY

Journalist; Author. Was anchor for *NBC Nightly News*. Conducted exclusive, historic interviews with major world leaders such as Mikhail Gorbachev, the Dalai Lama, and Russian Prime Minister Vladimir Putin. Author of several works that recount World War II America.

E. J. Dionne, Jr.

Brookings Institution,
Washington, D.C.

Senior Fellow. Journalist and syndicated columnist. Analyzes American politics and trends of public sentiment. Works at the intersection of journalism and scholarship. Publications include *Why Americans Hate Politics* (won the *Los Angeles Times* Book Prize), *They Only Look Dead: Why Progressives Will Dominate the Next Political Era*, and *Stand Up Fight Back: Republican Toughs, Democratic Wimps, and the Politics of Revenge*.

Eugene Garfield

Institute for Scientific Information,
Philadelphia, PA

Chairman Emeritus. Founding Editor of *The Scientist*. Pioneer in scientific communication and information science. Developed metrics for information retrieval, including citation frequencies and other data to analyze longitudinal trends in scientific communication, comparing nations, institutions, departments, research teams, or journals by their productivity and impact in various fields, disciplines, and specialties.

John H. Gibbons

Resource Strategies, The Plains, VA
Professional Science Consultant. Experimental physicist. Expert in energy supply and conservation, and environmental technology development. Published over a hundred books and papers. Director of the Office of Technology Assessment (1979–1992); Science Advisor to the President and Director of the White House Office of Science and Technology Policy (1993–1998). Served on the boards of the New York Academy of Sciences, the World Resources Institute, Population Action International, and the Black Rock Forest Consortium.

Donald E. Graham

The Washington Post Company,
Washington, D.C.

Chairman and Chief Executive Officer. Also serves as Director of BrassRing Inc. and as a member of the Pulitzer Prize Board. President of the District of Columbia College Access Program, Trustee of the Federal City Council in Washington, D.C., and Member of the Board of Directors of The Summit Fund of Washington.

Margaret C. Simms

Joint Center for Political and Economic Studies, Washington, D.C.

Vice President for Governance and Economic Analysis. Oversees all programs, including research and international affairs. Expert on minority business development. Serves on the boards of the National Academy for Social Insurance and Partners for Democratic Change. Publications include *Job Creation: Prospects and Strategies* (edited with W. Leigh), *Slipping Through the Cracks: The Status of Black Women* (edited with J. Malveaux), and *The Economics of Race and Crime* (edited with S. Myers, Jr.).

Section 2: Business, Corporate, and Philanthropic Leadership (Private Sector)

John P. Birkelund

Saratoga Partners, New York, NY
General Partner. Former Chief Executive of Dillon Read & Co., Inc. Appointed by President Bush in 1990 as chairman of the board of the Polish American Enterprise Fund. Chairman of the Thomas J. Watson Institute for International Studies; Trustee of the New York Public Library, The Frick Collection, and the American Academy in Berlin; and former Chairman of the National Humanities Center.

Sergey Brin

Google Corporation, Mountain View, CA
Cofounder and President of Technology. Research interests include search engines, information extraction from unstructured sources, and data mining of large text collections and scientific data. Published more than a dozen academic papers. Featured speaker at academic, business, and technology forums.

John F. Cogan, Jr.

Pioneer Investment Management USA, Inc., Boston, MA
Chairman and Director. Active in Boston's legal, civic, and arts communities, and in the global finance industry. Currently Deputy Chairman and Director of Pioneer Global Asset Management Spa (Milan). Of Counsel at Wilmer Cutler Pickering Hale and Dorr LLP. Trustee, Boston Symphony Orchestra, Boston Medical Center; Chairman Emeritus and Trustee, Museum of Fine Arts (Boston). Overseer, Handel and Haydn Society. Recipient, Harvard Law School Association Award (1998).

E. Gerald Corrigan

Goldman Sachs & Co., New York, NY
Managing Director. Served as Chief Executive Officer of the Federal Reserve Bank of New York (1985–1993). Instrumental

in establishing the Russian-American Banking Forum in 1992 to assist Russia in the development of its banking infrastructure. Appointed by President Bill Clinton to head the Russian-American Enterprise Fund. Advisor on investing to the Chinese government. Author of *The Practice of Risk Management: Implementing Processes for Managing Worldwide Market Risk*.

F. Warren Hellman

Hellman & Friedman LLC, San Francisco, CA
Cofounder and Chairman. Formerly Director of The NASDAQ Stock Market, Inc. Currently Director of D.N. & E. Walter & Co., Levi Strauss & Co., and Sugar Bowl Corporation. Former General Partner of Hellman, Ferri Investment Associates; Matrix Management Company; and Lehman Brothers. Trustee of the San Francisco Foundation; Member of the University of California Walter A. Haas School of Business Advisory Board; and Trustee Emeritus of the Brookings Institution. Initiated Hellman Fellowships for assistant professors at University of California, Berkeley; University of California, San Diego; University of California, San Francisco; Stanford University; and Harvard Business School. Founder of Hardly Strictly Bluegrass, a free music festival.

Brewster Kahle

Internet Archive, San Francisco, CA
Cofounder; Director; Digital Librarian. Early member of the Thinking Machines team. Invented the Internet's first publishing system, WAIS (Wide Area Information Server) and founded WAIS Inc., an electronic publishing company. Cofounded Alexa Internet, a catalog of the Internet.

Jay Lorsch

Harvard Business School, Boston, MA
Louis E. Kirstein Professor of Human Relations. Leading corporate governance scholar. Formerly Director of Research and Senior Associate Dean for Executive Education. Author of books and articles on organizational behavior and leadership.

Ann S. Moore

Time Inc., New York, NY
Chairman and Chief Executive Officer. Oversees all of the businesses of Time Inc. Has oversight of the Time Warner Book Group. Serves on the boards of directors of Avon Products, Inc. and the Wallace Foundation. Recipient of the Time Warner Civic Leadership Award.

Lawrence Page

Google Corporation, Mountain View, CA
Cofounder and President of Products. Named a World Economic Forum Global Leader for Tomorrow in 2002. Member of the National Advisory Committee of the University of Michigan College of Engineering. Awards include the Marconi Prize and election to the National Academy of Engineering. Trustee of the X PRIZE.

Robert Pozen

MFS Management, Boston, MA
Chairman. Formerly Vice Chair, Fidelity Investments, and President, Fidelity Management & Research Company. Has been the John Olin Visiting Professor at Harvard Law School. Author of *The Mutual Fund Business*. Served as Secretary of Economic Affairs for Massachusetts Governor Mitt Romney and as a member of President George W. Bush's Commission to Strengthen Social Security.

John Wallis Rowe

Aetna, Inc., Hartford, CT
Chairman and Chief Executive Officer. Prior to joining Aetna, served as President and Chief Executive Officer of Mount Sinai NYU Health (1998–2000). Formerly President of the Mount Sinai Hospital and the Mount Sinai School of Medicine (1988–1998). Helped elucidate many aspects of the physiology of aging and pioneered the concept of Successful Aging. Authored over two hundred scientific publications, mostly in the physiology of aging process. Coauthor of *Successful Aging*.

Oscar Tang

Reich and Tang Asset Management, New York, NY
Cofounder. President and Chief Executive Officer until 1993. Financier and philanthropist. Member of the Board of the Metropolitan Museum of Art and of Phillips Academy. Trustee of the China Institute in America, Inc. and of Skidmore College.

Sidney J. Weinberg, Jr.

Goldman Sachs Group, Inc., New York, NY
Senior Director. Former director of several companies, including R. H. Macy & Co., J. P. Stevens & Co., Eagle-Picher Industries, and Sigma-Aldrich Corporation. Trustee or honorary trustee of scientific and philanthropic organizations, including New York-Presbyterian Hospital; Carnegie Foundation for the Advancement of Teaching; Carnegie Institution of Washington; Keck Graduate Institute of Applied Life Sciences; Scripps College; Woods Hole Oceanographic Institution; Committee for Economic Development in New York (WNET-Channel Thirteen); and Edna McConnell Clark Foundation.

David C. Weinstein

Fidelity Investments, Boston, MA
Executive Vice President. Has overseen Fidelity's government relations, legal, human resources, and real estate and compliance operations. Serves on a variety of civic, business, and charitable boards, including Boston College Law School, Bryant University, Financial Services Roundtable, and Reading is Fundamental.

Section 3: Educational, Scientific, Cultural, and Philanthropic Administration (Nonprofit Sector)

William Franklin Baker

Educational Broadcasting Corporation (EBC), licensee of public broadcasters Thirteen/WNET and WLIW, New York, NY
Chief Executive Officer. Shaped American broadcasting in both the commercial and public sectors. Author, executive, lecturer, producer, on-air personality. Recipient of the industry's highest honors. Known as an advocate for the educational potential of television.

Harvey P. Dale

New York University School of Law, New York, NY

University Professor of Philanthropy and the Law; Director, National Center on Philanthropy and the Law. Founding President of Atlantic Philanthropies. Continues to play a role at the Foundation as a member of its board and investment committee. Oversaw the granting of more than \$2 billion to education, health, and the nonprofit sector, among other causes.

M.R.C. Greenwood

University of California, Oakland, CA

Provost and Senior Vice President of Academic Affairs. Served as Chancellor of the University of California, Santa Cruz (1996–2004). Expert in genetics and nutrition. Leader in science and higher education policies.

William C. Kirby

Harvard University, Cambridge, MA

Dean, Faculty of Arts and Sciences; Edith and Benjamin Geisinger Professor of History. Scholar of Asian history. Focuses on China's economic and political development in an international context. Has written on China's relations with Europe, the history of modern Chinese capitalism, the international socialist economy of the 1950s,

and relations across the Taiwan Strait.

Alan I. Leshner

American Association for the Advancement of Science, Washington, D.C.

Chief Executive Officer. Executive Publisher of *Science*. Held a number of science organization leadership positions in government (National Science Foundation, National Institute on Drug Abuse, and National Institute of Mental Health). Research has focused on the biological bases of behavior. Published in the areas of science and technology policy, science education, and public engagement with science.

John W. McCarter, Jr.

The Field Museum of Natural History, Chicago, IL

President and Chief Executive Officer. Oversaw the expansion of the Museum's scientific efforts; improved the Museum's galleries and scientific facilities; and deepened the Museum's commitment to public learning. Served as Senior Vice President at Booz, Allen, & Hamilton, a global strategy and technology consulting firm. Was also President of the DeKalb Corporation. Currently serves on numerous corporate and civic boards, including WTTW11 (Channel 11) and the University of Chicago.