

May 1, 2001

# UCSB Professors Alan Heeger and Arthur Gossard Elected to National Academy of Sciences

## 72 Members Chosen by Academy

WASHINGTON -- The National Academy of Sciences today announced the election of 72 new members and 15 foreign associates from 10 countries in recognition of their distinguished and continuing achievements in original research. In addition, one member was elected posthumously.

The election was held this morning during the business session of the 138th annual meeting of the Academy. Election to membership in the Academy is considered one of the highest honors that can be accorded a U.S. scientist or engineer. Those elected today bring the total number of active members to 1,874.

Foreign associates are nonvoting members of the Academy, with citizenship outside the United States. Today's election brings the total number of foreign associates to 325.

The National Academy of Sciences is a private organization of scientists and engineers dedicated to the furtherance of science and its use for the general welfare. It was established in 1863 by a congressional act of incorporation, signed by Abraham Lincoln, that calls on the Academy to act as an official adviser to the federal government, upon request, in any matter of science or technology.

Additional information about the institution is available on the Internet at [. A full directory of NAS members can be found online at .](#)

Newly elected members and their affiliations at the time of election are:

ALCOCK, CHARLES; professor, department of physics and astronomy, University of Pennsylvania, Philadelphia

BEATY, BARRY J.; University Distinguished Professor and director, Arthropod-Borne and Infectious Diseases Laboratory, department of microbiology, College of Veterinary Medicine and Biomedical Science, Colorado State University, Fort Collins

BENDER, MICHAEL L.; professor, department of geosciences, Princeton University, Princeton, N.J.

BINFORD, LEWIS R.; Distinguished Professor of Anthropology, department of anthropology, Southern Methodist University, Dallas

BJORKMAN, PAMELA J.; investigator, Howard Hughes Medical Institute, and professor, division of biology, California Institute of Technology, Pasadena

BREIMAN, LEO; Emeritus Professor, department of statistics, University of California, Berkeley

BROOKHART, MAURICE S.; William R. Kenan Jr. Professor of Chemistry, department of chemistry, University of North Carolina, Chapel Hill

BROOKS, FREDERICK P., JR.; Kenan Professor of Computer Science, University of North Carolina, Chapel Hill

BROWN, ROBERT A.; provost and Warren K. Lewis Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge

BRUGGE, JOAN SIEFERT; professor, department of cell biology, Harvard Medical School, Boston

BUMPASS, LARRY LEE; N.B. Ryder Professor of Sociology, Center for Demography and Ecology, University of Wisconsin, Madison

CANTLEY, LEWIS C.; professor, department of cell biology, Harvard Medical School, and chief, division of signal transduction, department of medicine, Beth Israel Deaconess Medical Center, Boston

CARPENTER, STEPHEN R.; Halverson Professor, Center for Limnology, University of Wisconsin, Madison

CAVA, ROBERT JOSEPH; associate director, Princeton Materials Institute, and professor of chemistry and materials institute, Princeton University

CERLING, THURE E.; professor, department of geology and geophysics, University of Utah, Salt Lake City

CRESSWELL, PETER; investigator, Howard Hughes Medical Institute, and professor, department of biology, Yale University, New Haven, Conn.

CRIM, F. FLEMING, JR.; professor of chemistry, department of chemistry, University of Wisconsin, Madison

CURTISS, ROY, III; George William and Irene Koechig Freiberg Professor of Biology, department of biology, Washington University, St. Louis

DALGARNO, ALEXANDER; physicist, Smithsonian Astrophysical Observatory, and Phillips Professor of Astronomy, Harvard-Smithsonian Center for Astrophysics, Cambridge, Mass.

DE CAMILLI, PIETRO V.; investigator, Howard Hughes Medical Institute, and professor, department of cell biology, Boyer Center for Molecular Medicine, Yale University School of Medicine, New Haven, Conn.

DUKE, CHARLES B.; vice president and senior research fellow, Xerox Research and Technology, Xerox Corp., Webster, N.Y.

EINHORN, LAWRENCE H.; Distinguished Professor of Medicine, department of medicine, Indiana University, Indianapolis

EXTON, JOHN H.; investigator, Howard Hughes Medical Institute, and professor of molecular physiology and

of pharmacology, Vanderbilt University, Nashville, Tenn.

FEARON, DOUGLAS T.; Wellcome Trust Research Professor of Medicine, School of Clinical Medicine, Addenbrookes Hospital, University of Cambridge, Cambridge, U.K.

FIELD, CHRISTOPHER B.; staff scientist, department of plant biology, Carnegie Institution of Washington, Stanford, Calif.

FLYNN, GEORGE WILLIAM; director, Microelectronic Sciences and Columbia Radiation Laboratories, and Higgins Professor of Chemistry, Columbia University, New York City

FREEDMAN, STUART J.; professor, department of physics, University of California, Berkeley

FRIEDMAN, JEFFREY M.; investigator, Howard Hughes Medical Institute, and director, Starr Center for Human Genetics, Rockefeller University, New York City

FUNG, INEZ Y.; professor and director, Center for Atmospheric Sciences, University of California, Berkeley

GLAZER, ALEXANDER N.; director, Natural Reserve System, and professor, division of biochemistry and molecular biology, department of molecular and cell biology, University of California, Berkeley

GOLDBERG, ROBERT BRUCE; Distinguished Professor of Biology, department of molecular, cell, and developmental biology, University of California, Los Angeles

GORDON, JEFFREY I.; Alumni Professor and head, department of molecular biology and pharmacology, and director, division of biology and biomedical sciences, Washington University School of Medicine, St. Louis

GOSSARD, ARTHUR CHARLES; professor of materials, electrical, and computer engineering, materials department, University of California, Santa Barbara

GRAY, JAMES N.; senior researcher, Microsoft Corp., San Francisco

GREEN, PHILIP P.; investigator, Howard Hughes Medical Institute, and professor, department of molecular biotechnology, University of Washington School of Medicine, Seattle

GROUDINE, MARK T.; professor of radiation oncology, University of Washington School of Medicine, and director, division of basic sciences, Fred Hutchinson Cancer Research Center, Seattle

HEEGER, ALAN J.; professor of physics, University of California, Santa Barbara, and chief scientist and chairman of the board, UNIAX Corp., Santa Barbara

HEMLEY, RUSSELL J.; research staff member, Geophysical Laboratory, Carnegie Institution of Washington, Washington, D.C.

INGRAM, LONNIE O'NEAL; Distinguished Professor, department of microbiology and cell science,

University of Florida, Gainesville

JOKIPII, JACK RANDOLPH; Regents' Professor, Lunar and Planetary Laboratory, University of Arizona, Tucson

JONES, RONALD WINTHROP; Xerox Professor of Economics, department of economics, University of Rochester, Rochester, N.Y.

JOYCE, GERALD F.; investigator, Skaggs Institute for Chemical Biology, and professor, departments of chemistry and molecular biology, Scripps Research Institute, La Jolla, Calif.

KAHNEMAN, DANIEL; Eugene Higgins Professor of Psychology and Public Affairs, Woodrow Wilson School, Princeton University

KIRBY, ROBION C.; professor, department of mathematics, University of California, Berkeley

KLAENHAMMER, TODD R.; William Neal Reynolds Professor of Food Science and Microbiology and NCSU Alumni Distinguished Professor, department of food science, North Carolina State University, Raleigh

KOEHL, MIMI A.R.; professor of integrative biology, department of integrative biology, University of California, Berkeley

KURIYAN, JOHN; investigator, Howard Hughes Medical Institute, and Patrick E. and Beatrice M. Haggerty Professor, Laboratories of Molecular Biophysics, Rockefeller University

LAGARIAS, J. CLARK; Paul K. and Ruth R. Stumpf Professor of Plant Biochemistry and professor, section of molecular and cellular biology, University of California, Davis

LANDMESSER, LYNN T.; professor and chair, department of neurosciences, Case Western Reserve University, Cleveland

LIFTON, RICHARD P.; associate investigator, Howard Hughes Medical Institute, and professor, department of genetics, medicine, and molecular biophysics and biochemistry, Yale University School of Medicine

MARGULIS, GREGORY A.; professor, department of mathematics, Yale University

MCCLELLAND, JAMES L.; professor of psychology and of computer science, and co-director, Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh

MILLON, RENE; Professor Emeritus, department of anthropology, University of Rochester

NORDHAUS, WILLIAM D.; A. Whitney Griswold Professor, department of economics, Yale University

OSTROM, ELINOR; Arthur F. Bentley Professor of Political Science, Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington

PRESCOTT, CHARLES YOUNG; professor of physics, Stanford Linear Accelerator Center, Stanford, Calif.

PUTNAM, ROBERT D.; professor of government, John F. Kennedy School of Government, Harvard University, Cambridge, Mass.

RICHTER, FRANK MORRIS; Sewell Avery Distinguished Service Professor, department of geophysical sciences, Henry Hinds Laboratory, University of Chicago, Chicago

SAARI, DONALD G.; Distinguished Professor of Economics and professor of mathematics, department of economics, University of California, Irvine

SCULLY, MARLAN O.; Hershel Burgess Distinguished Professor of Physics, department of physics, and director, Center for Theoretical Physics, Texas A&M University, College Station

SEYFERTH, DIETMAR; Robert T. Haslam and Bradley Dewey Professor of Chemistry, department of chemistry, Massachusetts Institute of Technology

SOMMER, ALFRED; professor of epidemiology and international health and dean, Johns Hopkins University School of Hygiene and Public Health, Baltimore

STEINMAN, RALPH MARVIN; senior physician and Henry G. Kunkel Professor, Rockefeller University

SUMMERS, JESSE W.; professor of molecular genetics and microbiology, Cancer Center, University of New Mexico School of Medicine, Albuquerque

TANK, DAVID W.; head, Biological Computation Research Laboratories, Bell Laboratories, Lucent Technologies, Murray Hill, N.J.

TAYLOR, EDWIN W.; Louis Block Professor of Molecular Genetics and Cell Biology and professor, department of molecular genetics and cell biology, University of Chicago

VALE, RONALD D.; associate investigator, Howard Hughes Medical Institute, and William K. Hamilton Distinguished Professorship of Anesthesia, department of cellular and molecular pharmacology, University of California, San Francisco

VALIANT, LESLIE G.; Gordon McKay Professor of Computer Science and Applied Mathematics, Harvard University

WALD, ROBERT MANUEL; professor of physics, Enrico Fermi Institute, and director, Masters Program in the Physical Sciences, University of Chicago

WATERMAN, MICHAEL S.; University Professor, University of Southern California, Los Angeles

ZAMBRYSKI, PATRICIA C.; professor, department of plant and microbial biology, University of California, Berkeley

ZELMANOV, EFIM I.; professor, department of mathematics, Yale University

Elected posthumously to the Academy:

MANDEL, LEONARD; Lee A. DuBridge Professor Emeritus of Physics and Optics, department of physics and astronomy, University of Rochester

Newly elected foreign associates, their affiliations at the time of election, and their country of citizenship are:

ALLENDE, JORGE E.; professor and director, Institute of Biomedical Sciences, Faculty of Medicine, University of Chile, Santiago (Chile)

BAR-YOSEF, OFER; professor, Institute of Archaeology, Hebrew University of Jerusalem, and George G. and Janet G.B. MacCurdy Professor of Prehistoric Archaeology, Peabody Museum, Harvard University (Israel)

COEN, ENRICO SANDRO; deputy head, department of genetics, John Innes Centre, and John Innes Foundation Professor, University of East Anglia, Norwich (U.K.)

CRANE, PETER ROBERT; director, Royal Botanic Gardens, Kew (U.K.)

DASGUPTA, PARTHA SARATHI; Frank Ramsey Professor and chair, Faculty of Economics and Politics, University of Cambridge, Cambridge, U.K. (India)

DOLL, RICHARD; honorary member, cancer studies unit, Imperial Cancer Research Fund, Oxford (U.K.)

HANSCH, THEODOR W.; professor, physics section, University of Munich, and director, Max Planck Institute for Quantum Optics, Garching (Germany)

HONJO, TASUKU; dean, Kyoto University Faculty of Medicine (Japan)

MACLENNAN, DAVID; J.W. Biles Professor, Banting and Best Department of Medical Research, University of Toronto (Canada)

OXBURGH, ERNEST RONALD; rector, Imperial College of Science, Technology, and Medicine, London (U.K.)

PALIS, JACOB; professor, Instituto de Matematica Pura e Aplicada, Rio de Janeiro (Brazil)

POWELL, MICHAEL; John Humphrey Plummer Professor of Applied Numerical Analysis, University of Cambridge (U.K.)

SAVEANT, JEAN-MICHEL; directeur de recherche, Centre National de la Recherche Scientifique, Paris (France)

VAN DISHOECK, EWINE F.; professor of molecular astrophysics, Leiden Observatory, Leiden University

(Netherlands)

YANAGIMACHI, RYUZO; professor of anatomy and reproductive biology, department of anatomy and reproductive biology, John A. Burns School of Medicine, University of Hawaii, Honolulu (Japan)

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