

# ROSTER OF FELLOWS

We are proud to present the distinguished members elected to the status of AAAS Fellow by the AAAS Council for 2001. The Fellows are distinguished scientists and engineers who are chosen in recognition of outstanding accomplishments in their fields, and for their dedicated commitment to furthering the scientific enterprise.

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WALTER J. ARMBRUSTER, *Farm Foundation, Oak Brook, IL*  
BARBARA P. GLENN, *Federation of Animal Science Societies, Bethesda, MD*  
ANTHONY H. C. HUANG, *Univ. of California, Riverside*  
F. THOMAS LEDIG, *Institute of Forest Genetics, U.S. Forest Service, Placerville, CA*  
OWEN J. NEWLIN, *Des Moines, IA*  
HERBERT W. OHM, *Purdue Univ.*  
BENNIE I. OSBURN, *Univ. of California, Davis*  
SONNY B. RAMASWAMY, *Kansas State Univ., Manhattan*  
K. RAMESH REDDY, *Univ. of Florida*  
PHILIP A. ROBERTS, *Univ. of California, Riverside*  
GARY H. TOENNIESSEN, *Rockefeller Foundation, New York, NY*  
SANT S. VIRMANI, *International Rice Research Institute, Makati City, Philippines*

## **Anthropology**

RALPH M. GARRUTO, *State Univ. of New York, Binghamton*  
JOHN H. RELETHFORD, *State Univ. of New York, Oneonta*  
PAT SHIPMAN, *Pennsylvania State Univ.*  
SARAH WILLIAMS-BLANGERO, *Southwest Foundation for Biomedical Research, San Antonio*

## **Astronomy**

BRUCE BALICK, *Univ. of Washington, Seattle*  
RICHARD F. GREEN, *National Optical Astronomical Observatories, Tucson*  
WILLIAM K. HARTMANN, *Planetary Science Institute, Tucson*  
KENNETH J. JOHNSTON, *U.S. Naval Observatory, Washington, DC*  
YERVANT TERZIAN, *Cornell Univ.*  
TREVOR C. WEEKES, *Whipple Observatory, Amado, AZ*

## **Atmospheric and Hydrospheric Sciences**

ELLEN R. M. DRUFFEL, *Univ. of California, Irvine*  
DAVID HALPERN, *Jet Propulsion Lab., Pasadena, CA*  
CHARLES A. KNIGHT, *National Center for Atmospheric Research, Boulder*  
RONALD G. PRINN, *Massachusetts Institute of Technology*  
DAVID A. RANDALL, *Colorado State Univ., Ft. Collins*

## **Biological Sciences**

DONNA JEANNE ARNDT-JOVIN, *Max-Planck Institute for Biophysical Chemistry, Göttingen, Germany*  
JAMES G. BALDWIN, *Univ. of California, Riverside*  
AMIYA K. BANERJEE, *Cleveland Clinic Foundation*  
KAMALJIT S. BAWA, *Univ. of Massachusetts, Boston*  
PHILIP A. BEACHY, *Johns Hopkins Univ.*  
CAROLINE SHAFER BLEDSOE, *Univ. of California, Davis*  
CAROL L. BOGGS, *Stanford Univ.*  
DAVID WAYNE BOLEN, *Univ. of Texas Medical Branch, Galveston*  
MICHAEL R. BOTCHAN, *Univ. of California, Berkeley*  
RICHARD C. BRUSCA, *Arizona-Sonora Desert Museum*  
BARBARA KATHRYN BURGESS, *Univ. of California, Irvine*  
MARIO RENATO CAPECCHI, *Univ. of Utah*  
SEAN B. CARROLL, *Univ. of Wisconsin, Madison*

DEBORAH A. CLARK, *Univ. of Missouri, St. Louis*  
DIANE W. DAVIDSON, *Univ. of Utah*  
CAROL A. ERICKSON, *Univ. of California, Davis*  
JOHN FAABORG, *Univ. of Missouri, Columbia*  
MARK H. GINSBERG, *Scripps Research Institute, La Jolla, CA*  
BRIAN J. HALES, *Louisiana State Univ., Baton Rouge*  
GONZALO HALFFTER, *Instituto de Ecologia, Veracruz, Mexico*  
R. SCOTT HAWLEY, *Univ. of California, Davis*  
JOHN B. HAYS, *Oregon State Univ.*  
LEWIS A. JACOBSON, *Univ. of Pittsburgh*  
PHILIP HUNG-SUN JEN, *Univ. of Missouri, Columbia*  
LINDA JEN-JACOBSON, *Univ. of Pittsburgh*  
RUSSELL L. JONES, *Univ. of California, Berkeley*  
SAMMY WILLIAM JOSEPH, *Univ. of Maryland, College Park*  
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HYNDA K. KLEINMAN, *National Institute of Dentistry and Craniofacial Research, Bethesda, MD*  
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SANDRA D. MICHAEL, *State Univ. of New York, Binghamton*  
SCOTT EVERETT MILLER, *National Museum of Natural History, Washington, DC*  
DIANA G. MYLES, *Univ. of California, Davis*  
SHAHID NAEEM, *Univ. of Washington, Seattle*  
REED F. NOSS, *Conservation Science, Inc., Corvallis, OR*  
LYNNE R. PARENTI, *National Museum of Natural History, Washington, DC*  
MARY V. PRICE, *Univ. of California, Riverside*  
PAUL PRIMAKOFF, *Univ. of California, Davis*  
CURTIS J. RICHARDSON, *Duke Univ.*  
JAMES A. SPUDICH, *Stanford Univ.*  
FERN TABLIN, *Univ. of California, Davis*  
CINDY LEE VAN DOVER, *College of William and Mary*  
MICHAEL VECCHIONE, *National Marine Fisheries Service, Washington, DC*  
NICKOLAS M. WASER, *Univ. of California, Riverside*  
ERIC WESTHOF, *Univ. Louis Pasteur, Strasbourg, France*  
SUE HENGREN WICKNER, *National Cancer Institute, Bethesda, MD*  
CHARLES F. YOCUM, *Univ. of Michigan, Ann Arbor*

## **Chemistry**

EDWARD V. ARNOLD, *Rutgers Univ.*  
CHARLES A. ARRINGTON, *Furman Univ.*  
KIM K. BALDRIDGE, *Univ. of California, San Diego*  
MICHAEL ROBERT BERMAN, *Air Force Office of Scientific Research, Arlington, VA*  
ELLIOT R. BERNSTEIN, *Colorado State Univ., Ft. Collins*  
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DAVID A. BRANT, *Univ. of California, Irvine*  
 MAURICE S. BROOKHART, *Univ. of North Carolina, Chapel Hill*  
 BRIAN P. COPPOLA, *Univ. of Michigan, Ann Arbor*  
 DENNIS P. CURRAN, *Univ. of Pittsburgh*  
 PHILIP R. DESHONG, *Univ. of Maryland, College Park*  
 DAVID EISENBERG, *Univ. of California, Los Angeles*  
 CATHERINE C. FENSELAU, *Univ. of Maryland, College Park*  
 JOSEPH S. FRANCISCO, *Purdue Univ.*  
 M. REZA GHADIRI, *Scripps Research Institute, La Jolla, CA*  
 RICHARD I. GUMPORT, *Univ. of Illinois, Urbana*  
 CARLOS G. GUTIÉRREZ, *California State Univ., Los Angeles*  
 CHARLES B. HARRIS, *Univ. of California, Berkeley*  
 WILLIAM R. HEINEMAN, *Univ. of Cincinnati*  
 ANDREW KALDOR, *Exxon Mobil Research and Engineering Co., Annandale, NJ*  
 GEORGE B. KAUFFMAN, *California State Univ., Fresno*  
 CHARLES E. KOLB, JR., *Aerodyne Research, Inc., Billerica, MA*  
 ERIC T. KOOL, *Stanford Univ.*  
 JEFFREY D. KOVAC, *Univ. of Tennessee, Knoxville*  
 GERD N. LA MAR, *Univ. of California, Davis*  
 FREDERICK D. LEWIS, *Northwestern Univ.*  
 DAVID M. LUBMAN, *Univ. of Michigan, Ann Arbor*  
 MICHAEL A. MARLETTA, *Univ. of Michigan, Ann Arbor*  
 LAWRENCE J. MARNETT, *Vanderbilt Univ.*  
 LINDA B. MCGOWN, *Duke Univ.*  
 MARIO J. MOLINA, *Massachusetts Institute of Technology*  
 JOHN H. MOORE, *Univ. of Maryland, College Park*  
 ALEXANDER PINES, *Univ. of California, Berkeley*  
 LAWRENCE QUE, JR., *Univ. of Minnesota, Minneapolis*  
 RONALD T. RAINES, *Univ. of Wisconsin, Madison*  
 DEBRA R. ROLISON, *Naval Research Lab., Washington, DC*  
 RICHARD J. SAYKALLY, *Univ. of California, Berkeley*  
 JEFFREY SKOLNICK, *Danforth Plant Science Center, St. Louis, MO*  
 AMOS B. SMITH, III, *Univ. of Pennsylvania*  
 OLKE C. UHLENBECK, *Univ. of Colorado, Boulder*  
 PAUL A. WENDER, *Stanford Univ.*  
 ROBERT MARK WIGHTMAN, *Univ. of North Carolina, Chapel Hill*  
 TODD O. YEATES, *Univ. of California, Los Angeles*  
 FRANCISCO ZAERA, *Univ. of California, Riverside*

### **Dentistry and Oral Health Sciences**

MARTHA J. SOMERMAN, *Univ. of Michigan, Ann Arbor*  
 JOAN S. WILENTZ, *Chevy Chase, MD*

### **Education**

DAVID W. BROOKS, *Univ. of Nebraska, Lincoln*  
 JOHN SEELY BROWN, *Xerox Corp., Palo Alto, CA*  
 JAMES J. GALLAGHER, *Michigan State Univ.*  
 JOSEPH S. KRAJCIK, *Univ. of Michigan, Ann Arbor*  
 ALAN H. SCHOENFELD, *Univ. of California, Berkeley*

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 JOHN L. ANDERSON, *Carnegie Mellon Univ.*  
 WILLIAM E. BENTLEY, *Univ. of Maryland, College Park*  
 LEONARD J. BRILLSON, *Ohio State Univ., Columbus*  
 MELVIN W. CARTER, *Dunwoody, GA*  
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 KENNETH R. DILLER, *Univ. of Texas, Austin*  
 AUDEEN WALTERS FENTIMAN, *Ohio State Univ., Columbus*  
 MORTON H. FRIEDMAN, *Duke Univ.*  
 ERIC W. KALER, *Univ. of Delaware*  
 TARALD O. KVÁLSETH, *Univ. of Minnesota, Minneapolis*  
 JEAN-PIERRE LEBURTON, *Univ. of Illinois, Urbana*  
 HENRY R. LINDEN, *Illinois Institute of Technology, Chicago*  
 MARK R. MATSUMOTO, *Univ. of California, Riverside*  
 JOHN W. POSTON, SR., *Texas A&M Univ., College Station*

RONALD W. ROUSSEAU, *Georgia Institute of Technology, Atlanta*  
 BERTRAM WOLFE, *Monte Sereno, CA*  
 NOVAK ZUBER, *Rockville, MD*

### **General Interest in Science and Engineering**

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 BARBARA GASTEL, *Texas A&M Univ., College Station*  
 THOMAS H. MOSS, *Alexandria, VA*

### **Geology and Geography**

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 MICHAEL H. CARR, *U.S. Geological Survey, Menlo Park, CA*  
 SANKAR CHATTERJEE, *Texas Tech Univ., Lubbock*  
 MARY L. DROSER, *Univ. of California, Riverside*  
 JOHN M. FERRY, *Johns Hopkins Univ.*  
 GEORGE W. FISHER, *Johns Hopkins Univ.*  
 BRYAN L. ISACKS, *Cornell Univ.*  
 JOSEPH L. KIRSCHVINK, *California Institute of Technology*  
 H. JAY MELOSH, *Univ. of Arizona*  
 JOSÉ ANTONIO RIAL, *Univ. of North Carolina, Chapel Hill*  
 DAVID R. STODDART, *Univ. of California, Berkeley*

### **History and Philosophy of Science**

DAVID A. HOUNSHELL, *Carnegie Mellon Univ.*  
 BARBARA HERRNSTEIN SMITH, *Duke Univ.*  
 VASSILIKI BETTY SMOCOVITIS, *Univ. of Florida*

### **Industrial Science and Technology**

HARVEY D. KUSHNER, *Kushner Management Planning Corp., Palos Verdes Estates, CA*  
 RUDOLPH PARISER, *R. Pariser & Co., Inc., Hockessin, DE*

### **Information, Computing, and Communication**

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 EDWARD D. LAZOWSKA, *Univ. of Washington, Seattle*  
 HANS P. MORAVEC, *Carnegie Mellon Univ.*  
 CALTON PU, *Georgia Institute of Technology, Atlanta*  
 BRUCE R. SCHATZ, *Univ. of Illinois, Urbana*  
 ALAN JAY SMITH, *Univ. of California, Berkeley*

### **Linguistics and Language Science**

MARK ARONOFF, *State Univ. of New York, Stony Brook*

### **Mathematics**

JONATHAN MICHAEL BORWEIN, *Simon Fraser Univ., Burnaby, BC, Canada*  
 JOHN GUCKENHEIMER, *Cornell Univ.*  
 BERNARD J. MATKOWSKY, *Northwestern Univ.*  
 REINHARD SCHULTZ, *Univ. of California, Riverside*  
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### **Medical Sciences**

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 GILLIAN M. AIR, *Univ. of Oklahoma, Oklahoma City*  
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 ROBERT C. BAST, JR., *M.D. Anderson Cancer Center, Houston, TX*  
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 PETER C. DOHERTY, *St. Jude Children's Research Hospital, Memphis, TN*  
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DAVID GINSBURG, *Univ. of Michigan, Ann Arbor*  
JAMES M. HUGHES, *National Center for Infectious Diseases, Atlanta, GA*  
LARRY F. LEMANSKI, *Texas A&M Univ., College Station*  
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JOHN B. LOWE, *Univ. of Michigan, Ann Arbor*  
MIRIAM MEISLER, *Univ. of Michigan, Ann Arbor*  
KENNETH L. MOSSMAN, *Arizona State Univ., Tempe*  
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JONATHAN I. RAVDIN, *Univ. of Minnesota, Minneapolis*  
STEPHEN C. REINGOLD, *National Multiple Sclerosis Society, New York, NY*  
ANNE P. SASSAMAN, *National Institute of Environmental Health Sciences, Research Triangle Park, NC*  
HAROLD C. SOX, JR., *Dartmouth-Hitchcock Medical Center, Lebanon, NH*  
RONALD SWANSTROM, *Univ. of North Carolina, Chapel Hill*  
THEA DOROTHY TLSTY, *Univ. of California, San Francisco*  
LUCY S. TOMPKINS, *Stanford Univ.*  
PETER F. WELLER, *Beth Israel Deaconess Medical Center, Boston*  
MARVIN C. ZISKIN, *Temple Univ.*

### Neuroscience

LINDA BUCK, *Harvard Medical School, Boston*  
JOHN H. BYRNE, *Univ. of Texas, Houston*  
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ITZHAK FRIED, *Univ. of California, Los Angeles*  
JOHN CHRISTIAN GILLIN, *V.A. Medical Center, San Diego, CA*  
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LAWRENCE C. KATZ, *Duke Univ.*  
GEORGE F. KOOB, *Scripps Research Institute, La Jolla, CA*  
GILLES LAURENT, *California Institute of Technology*  
MU-MING POO, *Univ. of California, Berkeley*  
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RUDOLPH E. TANZI, *Massachusetts General Hospital, Charlestown*  
MARC TESSIER-LAVIGNE, *Univ. of California, San Francisco*

### Pharmaceutical Sciences

STEPHEN C. BROWN, *Ann Arbor, MI*  
JI-WANG CHERN, *National Taiwan Univ.*  
JOHN C. DRACH, *Univ. of Michigan, Ann Arbor*  
PETER W. SCHILLER, *Clinical Research Institute of Montreal, Canada*  
W. THOMAS SHIER, *Univ. of Minnesota, Minneapolis*

### Physics

SYUN-ICHI AKASOFU, *Univ. of Alaska, Fairbanks*  
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DOON GIBBS, *Brookhaven National Lab., Upton, NY*  
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GORDON L. KANE, *Univ. of Michigan, Ann Arbor*  
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BERNARD V. KHOURY, *American Association of Physics Teachers, College Park, MD*  
LAWRENCE M. KRAUSS, *Case Western Reserve Univ.*

JOHANNA M. H. LEVELT-SENGERS, *National Institute of Standards and Technology, Gaithersburg, MD*  
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THOMAS EDWARD MASON, *Oak Ridge National Lab., TN*  
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CHANG-CHYI TSUEI, *IBM T.J. Watson Research Center, Yorktown Heights, NY*  
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### Psychology

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STEPHEN J. CECI, *Cornell Univ.*  
SUSAN GOLDIN-MEADOW, *Univ. of Chicago*  
RANDI C. MARTIN, *Rice Univ.*  
NORA S. NEWCOMBE, *Temple Univ.*  
ELISSA L. NEWPORT, *Univ. of Rochester*  
IRENE MAXINE PEPPERBERG, *Univ. of Arizona*  
LYNNE M. REDER, *Carnegie Mellon Univ.*

### Social, Economic, and Political Sciences

GARY L. ALBRECHT, *Univ. of Illinois, Chicago.*  
CHRISTOPHER CHASE-DUNN, *Univ. of California, Riverside*  
MICHAEL D. INTRILIGATOR, *Univ. of California, Los Angeles*  
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IAN I. MITROFF, *Univ. of Southern California*  
ELINOR OSTROM, *Indiana Univ., Bloomington*  
ROBERT E. PALMER, *Committee on Science, U.S. House of Representatives*

### Societal Impacts of Science and Engineering

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JURGEN SCHMANDT, *Univ. of Texas, Austin*  
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### Statistics

BARRY C. ARNOLD, *Univ. of California, Riverside*  
FRANÇOISE SELLIER-MOISEWITSCH, *Univ. of North Carolina, Chapel Hill*  
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