

# AAAS Fellows

AAAS Fellows are elected annually by the AAAS Council for meritorious efforts to advance science or its applications. Fellows have made significant contributions in areas such as research, teaching, technology, services to professional societies, and the communication of science to the public.

The following members were elected Fellows in 2005. AAAS congratulates them and thanks them for their service to science and technology.

## **Agriculture, Food, and Renewable Resources**

Jose M. Amador  
Alan B. Bennett  
Peter Bretting  
Bruce C. Campbell  
Kenneth G. Cassman  
Gebisa Ejeta  
Charles A. Francis  
Scot H. Hulbert  
William K. Lauenroth  
Hei Leung  
Na-Sheng Lin  
Richard H. Loeppert  
Timothy D. Paine  
Pedro A. Sanchez  
Lawrence B. Schook  
Jei-Fu Shaw

## **Anthropology**

Stephen J. Beckerman  
Russell L. Ciochon  
Gary M. Feinman  
William L. Hylander  
Clifford J. Jolly  
William H. Kimbel  
Jeffrey T. Laitman  
William C. McGrew  
Thomas C. Patterson  
Payson D. Sheets

## **Astronomy**

Sushil K. Atreya  
Henry C. Ferguson  
Alan W. Harris  
David C. Jewitt  
Steven D. Kawaler  
Eugene H. Levy  
J. Michael Shull  
Mark Vincent Sykes  
Paul Robert Weissman

## **Atmospheric and Hydrospheric Sciences**

Francisco P. Chavez  
Peter Henry Gleick  
Philip B. Russell  
Graeme L. Stephens  
Susan E. Trumbore  
Peter J. Webster  
Douglas R. Worsnop  
Yuk L. Yung

## **Biological Sciences**

Jill P. Adler-Moore  
Michael F. Allen  
Todd Alan Anderson  
Michael L. Arnold  
Julia N. Bailey-Serres  
Tania A. Baker  
Barbara Gail Beckman  
Jeffrey Lynn Bennetzen  
Nora J. Besansky  
Roger K. Bretthauer  
Arturo Casadevall  
Vicki L. Chandler  
Joanne Chory  
Keith Clay  
Gloria M. Coruzzi  
Evan H. Delucia

Daniel R. Gallie  
Robert C. Gallo  
James I. Garrels  
N. Louise Glass  
Takashi Gojobori  
Carla B. Green  
Joel Francis Habener  
James Edward Haber  
Benjamin D. Hall  
Joyce Libby Hamlin  
Linda Kay Hanley-Bowdoin  
Jon Fewell Harrison  
Stephen Coplan Harrison  
Alan Hastings  
John E. Hearst  
Tina M. Henkin  
Joan Herbers  
Daniel Herschlag  
Philip Andrew Hieter  
Tatsuya Hirano  
F. Kay Huebner  
James H. Hunt  
Richard Timothy Hunt  
Robert D. Ivarie  
Richard A. Jorgensen  
Fotis C. Kafatos  
Nancy Pulane Keller  
David Kowalski  
Adam Kuspa  
Laura Landweber  
Meredith Anne Lane  
Linda L. Lasure  
Walter S. Leal  
Leslie A. Leinwand  
Laura S. Levy  
Jim Jung-Ching Lin  
Jonathan B. Losos  
Dario Maestriperi  
Vivek Malhotra  
Richard B. Meagher  
Synthia H. Mellon  
Sabeeha Merchant  
Aaron P. Mitchell  
Edward J. Mullaney  
Michael W. Nachman  
Berl R. Oakley  
Philip Osdoby  
Stephen W. Pacala  
Jeffrey D. Palmer  
Patricia G. Parker  
Aristides A. N. Patrinos  
Thomas D. Petes  
Christoph Plass

Louise Prakash  
Satya Prakash  
Patricia J. Pukkila  
Michael D. Purugganan  
John Ralph  
Yasuko Rikihisa  
George D. Rose  
Fred D. Sack  
Sandra L. Schmid  
Eric Ursell Selker  
Fred Sherman  
David J. Sherratt  
Arend Sidow  
Rama S. Singh  
Neelima Roy Sinha  
D. Peter Snustad  
David R. Soll  
L. Andrew Staehelin  
Bruce William Stillman  
Douglas M. Stocco  
Bernard S. Strauss  
Kevin Struhl  
Lloyd W. Sumner  
Michael R. Sussman  
Edward I. Bradbridge Thompson  
Donald M. Waller  
Xuemin Wang  
Margaret Werner-Washburne  
Susan R. Wessler  
James Francis White, Jr.  
H. Steven Wiley  
Huntington F. Willard  
Chun-Fang Wu  
Zhenbiao Yang  
Meng-Chao Yao  
Jiujiang Yu

## Chemistry

Daniel J. Auerbach  
Carlos F. Barbas, III  
Mary W. Baum  
Henry N. Blount  
Joel M. Bowman  
Michael S. Chapman  
David L. Clark  
Dimitri Coucouvanis  
Larry R. Dalton  
Paul Davidovits  
Dana D. Dlott  
Richard Eisenberg  
Gregory J. Exarhos  
John T. Fourkas  
Samuel H. Gellman  
Arun K. Ghosh  
James L. Gole  
Vicki H. Grassian  
Naomi J. Halas  
Lawrence Brook Harding  
John F. Hartwig  
W. Christopher Hollinsed  
Mark A. Johnson  
Bruce D. Kay  
Richard A. Keller  
John W. Kozarich  
Harold H. Kung  
Deborah E. Leckband  
Timothy J. Lee  
James L. Leighton  
Hung-Wen Liu  
Charles E. McKenna  
Terry A. Miller  
Tyrone D. Mitchell  
Martin Mrksich  
Milan Mrksich  
Amy Sue Mullin  
Carlos A. Murillo  
Donna J. Nelson  
Keith A. Nelson  
Cheuk-Yiu Ng  
Mitchio Okumura  
Thomas L. Poulos  
G. K. Surya Prakash  
Peter Pulay  
Antonio Redondo  
Dagmar Ringe  
Celeste M. Rohlifing  
Dennis R. Salahub  
Joseph B. Schlenoff  
Ayusman Sen  
J. Fraser Stoddart

# AAAS Fellows

Weihong Tan  
Michael J. Therien  
Jacopo Tomasi  
Robert Tycko  
David E. Wemmer  
John C. Wright  
Xiaoliang Sunney Xie

## Dentistry and Oral Health Sciences

Beverly A. Dale-Crunk

## Education

William W. Cobern  
John C. Kotz  
Jay B. Labov  
Madeleine J. Long  
Robert J. Semper

## Engineering

J. K. Aggarwal  
Cynthia J. Atman  
Prith Banerjee  
Frank S. Bates  
Rafael L. Bras  
Jeffrey J. Chalmers  
Mohamed Jamal Deen  
Leonard C. Feldman  
Morteza Gharib  
Hans G. Hornung  
John L. Hudson  
Frank P. Incropera  
Alex K-Y. Jen  
Kannan M. Krishnan  
Mary E. Lidstrom  
William M. Miller  
José M. F. Moura  
Wolfgang Porod  
Ishwar K. Puri  
Steven A. Ringel  
Michael Shur  
Subhash C. Singhal  
Gregory N. Stephanopoulos  
Dwight C. Streit  
Rao Y. Surampalli  
Elias Towe  
Charles B. Watkins

## General Interest in Science and Engineering

Adlai J. Amor  
Marta Cehelsky  
Kathleen M. Donovan  
Kendrick Frazier  
Michael Strigel

## Geology and Geography

J. David R. Applegate  
Bruce A. Bolt  
William E. Doolittle  
Richard M. Forester  
Claude Hillaire-Marcel  
Roger L. Kaesler  
Erle G. Kauffman  
Richard Marston  
Peter Molnar  
Lonnie G. Thompson  
Youxue Zhang

## History and Philosophy of Science

William Bechtel  
Ronald L. Numbers  
M. Norton Wise

## Industrial Science and Technology

Robert Boily  
Charles L. Liotta  
Steven W. Popper

## Information, Computing, and Communication

Ashok K. Agrawala  
Daniel M. Cotter  
James D. Foley  
Eugene C. Freuder  
Philip Green  
Joseph Y. Halpern  
Ravishankar K. Iyer  
Anil K. Jain  
Christopher R. Johnson  
Suzanna E. Lewis  
Linda R. Petzold  
Eric S. Roberts  
Daniel P. Siewiorek  
Walter L. Warnick

## Linguistics and Language Science

Sheila E. Blumstein  
Frederick J. Newmeyer  
Karen Rice

## Mathematics

Jennifer Tour Chayes  
Robert M. Miura  
T. Christine Stevens  
Robert Williams

## Medical Sciences

Peter C. Agre  
Rolf Frederick Barth  
H. Franklin Bunn  
Paul A. Bunn  
Harvey Cantor  
Robert D. Cardiff  
Valerie P. Castle  
E. Antonio Chiocca  
Dennis W. Choi  
Linda C. Cork  
Harry C. Dietz III  
Duane J. Gubler  
Paul A. Insel  
Sissy Meihua Jhiang  
Michael D. Lairmore  
Stuart B. Levy  
David E. Pleasure  
Teresa K. Woodruff

## Neuroscience

David F. Clayton  
David H. Cohen  
Ronald M. Harris-Warrick  
Susan Hockfield  
Mark F. Jacquin  
Lawrence Kruger  
Susan E. Leeman  
Irwin B. Levitan  
Joe L. Martinez, Jr.  
Richard G. M. Morris  
Richard T. Robertson  
Richard E. Zigmond

## Pharmaceutical Sciences

Ian A. Blair  
Edward Chu  
Steven Grant  
Anthony J. Hickey  
C. Anthony Hunt  
Andrej Rotter

## Physics

Samuel H. Aronson  
Neil V. Baggett  
Dawn A. Bonnell  
Swapan Chattopadhyay  
Alan W. DeSilva  
J. Thomas Dickinson  
Louis F. DiMauro  
Robert E. Ecke  
C. W. Francis Everitt  
Roger W. Folcone  
Theodore Alan Fulton  
P. Chris Hammel  
Peter Hänggi  
Richard D. Hazeltine  
Arthur F. Hebard  
Siegfried S. Hecker  
Ulrich Walter Heinz  
John F. Holzrichter  
V. M. Kenkre  
Daniel J. Larson  
Thomas A. Mehlhorn  
Miklos Porkolab  
Ramamoorthy Ramesh  
Bharat Ratra  
Z. F. Ren  
William C. Stwalley  
Michael S. Turner

Chandra M. Varma  
Alfons Weber

## Psychology

Norman Bruce Anderson  
David Harrison Barlow  
John D. Corrigan  
Richard L. Doty  
James S. Jackson  
John F. Marshall  
Earl K. Miller  
Barbara J. Rolls  
Donald Thomas Stuss  
Daniel M. Wegner  
David R. Williams

## Social, Economic, and Political Sciences

Robert J. Blendon  
Howard Kunreuther  
Edward L. Miles  
James K. Mitchell  
Willie Pearson, Jr.  
Jeffrey D. Sachs  
Paul M. Sniderman  
Richard C. Sutch

## Societal Impacts of Science and Engineering

John P. Boright  
Barry Bozeman  
Bruce B. Darling  
Rachel E. Levinson  
James D. Wilson

## Statistics

Jianqing Fan  
Sallie Keller-McNulty  
Sally C. Morton  
Carol K. Redmond