
Mathematics People

AMS-AAAS Fellows Chosen

This year the AMS is again participating in the Mass Media Science and Engineering Fellowship program of the American Association for the Advancement of Science (AAAS). This program places graduate students in internships in major media organizations for ten weeks during the summer. The purpose of the program is to improve public understanding and appreciation of science and technology and to sharpen the ability of the fellows to communicate complex technical issues to nonspecialists.

A mathematics graduate student holds a fellowship this summer through the sponsorship of the AMS. EDOUARD SERVAN-SCHREIBER, a graduate student at the University of California at Berkeley, is spending his fellowship at National Geographic Television.

In addition, SARA ROBINSON, also a graduate student at the University of California at Berkeley, holds the SIAM-AAAS Fellowship sponsored by the Society for Industrial and Applied Mathematics, which she is spending at the *Dallas Morning News*.

—Elaine Kehoe

Mathematicians Elected to American Academy of Arts and Sciences

Seven mathematicians have been elected to membership in the American Academy of Arts and Sciences in 1998. They are: ROY ADLER (IBM T. J. Watson Research Center), FAN CHUNG (University of Pennsylvania), WILLIAM FULTON (University of Chicago), PETER W. JONES (Yale University), CURTIS McMULLEN (Harvard University), YUM-TONG SIU (Harvard University), and JOHN G. THOMPSON (University of Florida). MICHÈLE F. VERGNE (École Normale Supérieure, Paris, France) and MIGUEL VIRASORO (International Center for Theoretical

Physics, Trieste, Italy) were elected as foreign honorary members.

The American Academy of Arts and Sciences was founded in 1780 to foster the development of knowledge as a means of promoting the public interest and social progress. The membership of the academy is elected and represents distinction and achievement in a range of intellectual disciplines: mathematical and physical sciences, biological sciences, social arts and sciences, and humanities and fine arts.

—AAAS Announcement

Aharonov and Berry Awarded Wolf Prize in Physics

The Wolf Foundation Prize in Physics for 1998 has been jointly awarded to YAKIR AHARONOV of Tel Aviv University and the University of South Carolina and MICHAEL V. BERRY of Bristol University, United Kingdom. The two were honored for their discovery of the quantum topological and geometrical phases, particularly the Aharonov-Bohm effect and the Berry phase, and their incorporation into many fields of physics. The work of Aharonov and Berry has stimulated research in such varied areas as nuclear, fluid, and molecular physics, string theory, cosmology, gravitational physics, solid state physics, the foundations of quantum mechanics, and recent attempts to develop quantum computing.

Yakir Aharonov was born in Israel in 1932 and received his Ph.D. from Bristol University in 1960. He has taught at Yeshiva University and has held a joint professorship at Tel Aviv University and the University of South Carolina since 1973. He held a Miller Research Professorship at the University of California at Berkeley in 1988–89. His numerous awards and honors include the Weizmann Prize in Physics and the Rothschild Prize in Physics, both awarded in 1984; the 1989 Israel National Prize in Physics; and the

Photos courtesy of the Wolf Foundation, Israel.



Yakir Aharonov



Sir Michael Berry

1995 Hewlett-Packard Europhysics Prize. He is a fellow of the American Physical Society and a member of both the U.S. National Academy of Sciences and the Israel Academy of Sciences and Humanities.

Michael V. Berry was born in the United Kingdom in 1941 and received his Ph.D. from St. Andrews University in 1965. He has been associated with Bristol University since 1967, where he is currently a Royal Society Research Professor. Among his awards and honors are the 1990 Paul Dirac Medal and Prize of the United Kingdom Institute of Physics, the Hewlett-Packard Europhysics Prize for 1995, and the Kapitza Medal of the Russian Academy of Sciences (1997). He was named a Knight Bachelor at the Queen's Birthday Honors in 1996. He is a fellow of the Royal Society of London; a member of the European Academy, the Royal Society of Sciences of Uppsala, and the Indian Academy of Sciences; and a foreign member of the U.S. National Academy of Sciences.

Professors Aharonov and Berry will share the \$100,000 prize, which was presented on May 10, 1998, in Jerusalem by President Ezer Weizman of Israel. The Wolf Foundation was established by Ricardo Wolf, once Cuban ambassador to Israel, for the purpose of promoting science and art for the benefit of mankind.

—From a Wolf Foundation announcement

1998 USA Mathematical Olympiad Winners

The 27th USA Mathematical Olympiad (USAMO) exam was held on April 28, 1998, and consisted of six questions to be solved in six hours. A total of 179 students were selected to take the exam on the basis of their performances on the American High School and American Invitational Mathematics Examinations.

This year for the first time a female student, MELANIE WOOD of Park Tutor High School in Indianapolis, Indiana, won first-place honors. She shares first place with ALEXANDER B. SCHWARTZ of Radnor High School in Radnor, Pennsylvania. The other winners were: REID BARTON of Arlington, Massachusetts, who is home-schooled; GABRIEL CARROLL, Oakland Technical High School, Oakland, California; KEVIN

D. LACKER, Sycamore High School, Cincinnati, Ohio; DAVID E. SPEYER, Choate Rosemary Hall, Wallingford, Connecticut; PAUL A. VALIANT, Milton Academy, Milton, Massachusetts; and DAVID T. VICKREY, Vermillion High School, Vermillion, South Dakota. Kevin Lacker was also a winner in last year's competition.

The Mathematical Olympiad Summer Program, which prepares the team for the International Mathematical Olympiad (IMO), includes as participants the top eight winners and twenty-two other high-ranking USAMO students. This program is sponsored by the Office of Naval Research and the Matilda Wilson Foundation, with support from the University of Nebraska-Lincoln, the site of the program.

The top six winners—Barton, Carroll, Lacker, Schwartz, Valiant, and Wood—represented the United States in the IMO, which was held July 15 and 16 in Taipei, Taiwan. Travel funds to the IMO are provided by the Army Research Office. The USAMO is run by American Mathematics Competitions.

—Mathematical Association of America

Fred Glover Receives von Neumann Prize

FRED W. GLOVER, U.S. West Chaired Professor in Systems Science at the University of Colorado, Boulder, has been awarded the 1998 John von Neumann Theory Prize, the highest prize given in the field of operations research and management science.

The \$5,000 prize, awarded by the Institute for Operations Research and the Management Sciences, was given to Glover "for his fundamental contributions to integer programming, networks, and combinatorial optimization." His principal areas of research include applications of computers to the fields of optimization, decision support, industrial planning, financial analysis, systems design, multicriteria analysis, applied artificial intelligence, energy, natural resources planning, logistics, transportation, and large-scale allocation models. He developed the framework for the metaheuristic called Tabu Search, which has been instrumental in solving difficult problems in many areas, ranging from scheduling to financial planning to training neural networks.

Fred Glover was born on March 8, 1937, in Kansas City, Missouri. He graduated from the University of Missouri, Kansas City, in 1960 and received his Ph.D. from Carnegie-Mellon University in 1965. He has taught at the University of California, Berkeley; the University of Texas; and the University of Minnesota. He was professor of management sciences and information systems at the University of Colorado from 1970 to 1986 and has been U.S. West Chaired Professor there since 1986. He served as director of research at the Center for Applied Artificial Intelligence, of which he was a founding member, at Colorado between 1984 and 1990. He has received numerous academic honors and awards. He was honored by the North Atlantic Treaty Organization (NATO) Division of Scientific Affairs for research and lec-

ture presentations at NATO Advanced Study Institutes on networks and logistics planning. He has also received the National Award for Research Excellence in Operations Research/Computer Science of the Operations Research Society of America, the Outstanding Achievement Award of the American Institute of Decision Sciences, the International Business Machines Award for Mathematical Programming Research, and the Energy Research Institute Award for research on alternative energy resources and uses.

—Elaine Kehoe

1998 d'Alembert Prize Awarded

Every two years the Société Mathématique de France presents the d'Alembert Prize. Established in 1984, the prize is intended to encourage mathematical works in the French language and the exposition of mathematics for the general public. The prize recognizes an article, book, radio or television broadcast, film, or other project that is designed to improve understanding of mathematics and its recent developments.

The 1998 d'Alembert Prize has been awarded to JEAN-PAUL DELAHAYE of l'Université des Sciences et Techniques de Lille for his most recent work, "Le fascinant nombre pi", published by Belin in the collection, *Bibliothèque pour la science*.

—Société Mathématique de France

Addition, National Academy of Sciences Elections

The June/July issue of the *Notices* carried an announcement about recent elections to membership in the National Academy of Sciences. One name was omitted from the list of new Academy members in the mathematical sciences: ANDREW YAO of Princeton University.

Visiting Mathematicians

(Supplementary List)

Mathematicians visiting other institutions internationally during the 1998–1999 academic years were listed in the June/July 1998 issue of the *Notices*, pp. 730–31, and the August 1998 issue of the *Notices*, p. 885. The following is an update (home country is listed in parentheses).

SANG-EON HAN (Korea), University of Rochester, Mathematics, 2/99–1/00.

GENNADI KASPAROV (Russia), Dartmouth College, Operator Algebras, KK-Theory, Noncommutative Geometry, Functional Analysis, Representation Theory, 9/98–6/99.

VLADIK KREINOVICH (U.S.A.), Chinese University of Hong Kong, Interval Mathematics, Mathematical Foundations of Knowledge, Representation and Intelligent Control, 12/98–1/99.

FATIMA SILVA LEITE (Portugal), Arizona State University, Geometric Control Theory, 3/98–7/99.

GUOQING LIU (People's Republic of China), University of Texas at El Paso, Interval Mathematics, 11/98–8/99.

NURIA MUTA (Spain), University of Texas at El Paso, Interval Mathematics, Geometry, 8/98–11/98.

PETRI OLA (Finland), University of Rochester, Partial Differential Equations, 9/98–12/98.

IULIANA OPREA (Romania), Arizona State University, Dynamical Systems, 8/98–5/99.

MICHAEL PLUMMER (U.S.A.), University of Odense, Denmark, Graph Theory, 9/98–11/98.

VASILY V. STRELA (Russia), Dartmouth College, Applied Analysis, 9/97–6/99.

STEVEN H. WEINTRAUB (U.S.A.), University of Göttingen, Germany, Differential Topology, Algebraic Geometry, 1/99–7/99.

JUERGEN WOLFF VON GUDENBERG (Germany), University of Southwestern Louisiana, Interval Mathematics, 11/98–12/98; University of Texas at El Paso, Interval Mathematics, 1/99–2/99.

JINDRICH ZAPLETAL (Czech Republic), Dartmouth College, Set Theory, 7/98–6/00.

Deaths

DAME MARY CARTWRIGHT, of Cambridge, England, died on April 3, 1998. Born on December 17, 1900, she was a member of the Society for 49 years.

H. L. CLAASEN, of Amsterdam, The Netherlands, died on May 25, 1998. Born on June 17, 1937, he was a member of the Society for 20 years.

ALBERT EDREI, professor emeritus, Syracuse University, died on April 29, 1998. Born on November 26, 1914, he was a member of the Society for 47 years.

JOHN WARREN FORMAN, retired from IBM, died on May 22, 1998. Born on November 25, 1918, he was a member of the Society for 48 years.

LEONID S. FRANK, of the University of Reims, France, died on December 29, 1997. Born on April 25, 1934, he was a member of the Society for 23 years.

ROBERT B. GARDNER, of the University of North Carolina, Chapel Hill, died on May 5, 1998. Born on February 27, 1939, he was a member of the Society for 37 years.

MARVIN L. VEST, professor emeritus, West Virginia University, died on December 28, 1997. Born on May 17, 1906, he was a member of the Society for 37 years.

CALOGERO VINTI, of the University of Perugia, Italy, died on August 25, 1997. Born on July 12, 1926, he was a member of the Society for 18 years.