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# Mathematics People

## James Arthur Receives Canada Gold Medal

JAMES ARTHUR has received the 1999 Canada Gold Medal for Science and Engineering. The award is made annually by the Natural Sciences and Engineering Research Council (NSERC) of Canada. Arthur was honored for his mathematical achievements, especially his work in automorphic forms and representation theory.



James Arthur

Arthur is a professor of mathematics at the University of Toronto. He was elected to the Royal Society of Canada (1980) and the Royal Society of London (1992). He received the Synge Award in 1987 and the Henry Marshall Tory Medal of the Royal Society of Canada in 1997. He has also received the Centre de Recherche Mathématique/Fields Institute Prize in Mathematics (1997) and the E. W. R. Steacie Memorial Fellowship (1982) from NSERC.

The Canada Gold Medal, NSERC's highest honor, was first awarded in 1991. It recognizes outstanding, sustained, lifetime contributions to Canadian research in the natural sciences and engineering. Individuals in all sectors concerned with the advancement of research—university, business, industry, and government—may be nominated for the award. The final selection is made by an NSERC award

committee on the basis of an international peer evaluation. Arthur is the first mathematician to receive the medal.

—From NSERC announcement

## AAAS Fellows Elected

Four mathematicians have been elected as Fellows of Section A, the mathematics section, of the American Association for the Advancement of Science. The new fellows are JOHN C. BAEZ, University of California, Riverside; ETNA Z. FALCONER, Spelman College; ROBERT M. FOSSUM, University of Illinois, Urbana-Champaign; and SUSAN LANDAU, Sun Microsystems, Burlington, Massachusetts.

—From an AAAS announcement

## NRC-Ford Foundation Minority Fellowships Awarded

The names of the recipients of Ford Foundation Minority Fellowships for 1999 have been announced. The fellowship programs are administered by the National Research Council for the purpose of increasing the presence of under-represented groups among faculty members in colleges and universities.

Both awardees received 1999 Predoctoral Fellowships. This program provides students of demonstrated ability with the opportunity to engage in advanced study leading to the Ph.D. or Sc.D. degree in research-based doctoral programs. The recipients are JOHNNY GUZMAN and JESUS

FRANCISCO RODRIGUEZ, both of Cornell University. The field of both students is applications of mathematics.

The award winners were selected from a field of about 1,000 applicants, based on merit and promise of future achievement.

—*From a National Research Council announcement*

## Putnam Prizes Awarded

The winners of the 59th William Lowell Putnam Competition have been announced. The Putnam Competition is administered by the Mathematical Association of America and consists of an examination containing mathematical problems that are designed to test both originality and technical competence. Prizes are awarded to both individuals and teams.

The five highest-ranking individuals, listed in alphabetical order, were NATHAN G. CURTIS, Duke University; MIKE L. DEVELIN, Harvard University; KEVIN D. LACKER, Duke University; CIPRIAN MANOLESCU, Harvard University; and ARI M. TURNER, Princeton University.

Institutions with at least three registered participants obtain a team ranking in the competition based on the rankings of three designated individual participants. The five top-ranked teams (with team members listed in alphabetical order) were: Harvard University (Mike L. Develin, Ciprian Manolescu, Dragos N. Oprea), Massachusetts Institute of Technology (Amit Khetan, Eric H. Kuo, Edward D. Lee), Princeton University (Craig R. Helfgott, Michael R. Korn, Yuliy V. Sannikov), the California Institute of Technology (Christopher C. Chang, Christopher M. Hirata, Hanhui Yuan), and the University of Waterloo (Sabin Cautis, Derek I. E. Kisman, Soroosh Yazdani).

The top five individuals in the competition received cash awards of \$2,500; the next ten received \$1,000. The first-place team was awarded \$25,000, with each team member receiving \$1,000. The team awards for second place were \$20,000 and \$800; for third place, \$15,000 and \$600; for fourth place, \$10,000 and \$400; and for fifth place, \$5,000 and \$200.

—*Elaine Kehoe*

## NSF Awards Graduate Teaching Fellowships in K-12 Education

Two mathematical scientists have received grants under a new program of the National Science Foundation (NSF) that enables talented graduate students and advanced undergraduates in science, mathematics, engineering, and technology to serve as teaching fellows in elementary and secondary schools. BEVERLY J. BAARTMANS of Michigan Technological University and DENNIS DETURCK of the University of Pennsylvania have each received three-year grants under

the NSF Graduate Teaching Fellows in K-12 Education (GK-12) program.

Researchers at 31 institutions nationwide were selected to receive two- to three-year awards that range from \$200,000 to \$500,000 per year. A total of \$13.4 million was awarded to fund about 300 graduate and 100 undergraduate students during the first year of the program.

According to NSF director Rita Colwell, "The GK-12 program will boost the content of elementary and secondary education and the quality of graduate and undergraduate education at the same time. This is a very practical approach: graduate and advanced undergraduate students will get direct classroom experience; young scientists will get involved in the educational process at an early stage in their careers; and the program gives recognition to teaching in a scientific career."

Graduate students in the GK-12 program will receive annual stipends of \$18,000 plus a cost-of-education allowance. Undergraduate students will receive as much as \$5,000 per academic year plus up to an additional \$5,000 for service in the summer.

Academic institutions that offer graduate degrees in science, mathematics, and engineering are eligible to apply for the awards. The institutions are responsible for selecting the teaching fellows.

—*From an NSF announcement*

## Deaths

WILFRED H. COCKCROFT, of Banbury, England, died on September 27, 1999. Born on June 7, 1923, he was a member of the Society for 44 years.

TOSIO KATO, professor emeritus at the University of California, Berkeley, died on October 2, 1999. Born on August 25, 1917, he was a member of the Society for 45 years. He received the Norbert Wiener Prize from the AMS in 1980.

PESI R. MASANI, professor emeritus at the University of Pittsburgh, died on October 18, 1999. Born on August 1, 1919, he was a member of the Society for 56 years.

ARJAN SOBHRAJ MIRCHANDANEY, of Defiance College, Ohio, died on September 11, 1999. Born on August 13, 1923, he was a member of the Society for 19 years.

PEETER MUURSEPP, of Keila, Estonia, died on November 3, 1999. Born on March 21, 1918, he was a member of the Society for 17 years.

RICHARD E. PHILLIPS, of Michigan State University, died on November 8, 1999. Born on December 3, 1936, he was a member of the Society for 37 years.

STEVEN PURISCH, of Orlando, Florida, died on November 6, 1999. Born on March 25, 1945, he was a member of the Society for 28 years.

EDWARD SILVERMAN, professor emeritus at Purdue University, died on July 21, 1998. Born on November 23, 1917, he was a member of the Society for 50 years.