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# Mathematics People

## Ball Awarded Crighton Medal

JOHN BALL, Sedleian Professor of Natural Philosophy at the University of Oxford, is the first recipient of the David Crighton Medal, awarded jointly by the Institute of Mathematics and its Applications (IMA) in Essex, United Kingdom, and the London Mathematical Society (LMS). Ball's research focuses on the calculus of variations and its applications to solid mechanics using the knowledge and techniques of mathematical analysis and algebra. He is currently president of the International Mathematical Union.

The Crighton Medal was instituted in 2002 in memory of David George Crighton. The award will be given every three years to a mathematician who has shown outstanding service both to mathematics and to the mathematical community.

—From an LMS announcement

## National Science Award of Singapore

HARALD NIEDERREITER, LING SAN, and XING CHAOPING have received one of two National Science Awards of Singapore. The award recognizes research scientists and engineers in Singapore who have made outstanding contributions in basic research leading to the discovery of new knowledge or the pioneering development of scientific or engineering techniques and methods. Award recipients receive a crystal trophy, a citation, and a prize of 15,000 Singapore dollars (approximately US\$8,700). The awards were presented in September 2003.

Niederreiter, San, and Chaoping are in the Department of Mathematics at the National University of Singapore. They were cited for "their outstanding contribution to the application of algebra, algebraic curves and number theory in coding, cryptography, nets and low-discrepancy sequences."

The other award went to two researchers at the National University of Singapore who are investigating chemical reaction dynamics.

The award is given by A\*STAR, the Agency for Science, Technology, and Research. The Science and Engineering Research Council, which oversees public sector research and development activities in Singapore, is part of A\*STAR.

—Allyn Jackson

## National Defense Science and Engineering Graduate Fellowships Awarded

Nine young mathematicians have been awarded National Defense Science and Engineering Graduate (NDSEG) Fellowships by the Department of Defense (DoD). As a means of increasing the number of U.S. citizens trained in disciplines of military importance in science and engineering, DoD awards fellowships to individuals who have demonstrated ability and special aptitude for advanced training in science and engineering. The fellowships are awarded for a period of three years for study and research leading to doctoral degrees in mathematical, physical, biological, ocean, and engineering sciences. The fellowships are sponsored by the United States Army, Navy, and Air Force.

Following are the names of the fellows in mathematics and the offices that awarded the fellowships. SAMUEL EHRLICHMAN, Army Research Office (ARO); NATHAN GEORGE, Air Force Office of Scientific Research (AFOSR); KATHLEEN GRUHER, AFOSR; BRYCE JOHNSON, AFOSR; SHILPA KHATRI, AFOSR; CHENG LY, ARO; JEREMY ROUSE, Office of Naval Research (ONR); NITIN SAKSENA, ARO; and CAMILLIA SMITH, ONR.

—From an NDSEG announcement

## Bulgaria Finishes First in International Mathematical Olympiad

The team from Bulgaria won six gold medals and compiled a team score of 227 in the 2003 International Mathematical Olympiad held in Tokyo, Japan. China won five gold medals and one silver medal, with a score of 211. The United States was third, with four gold and two silver medals and a team score of 188.

The six members of the U.S. team were DANIEL KANE (Madison, Wisconsin), gold medalist; ANDERS KASEORG (Charlotte, North Carolina), gold medalist; PO-RU LOH (Madison, Wisconsin), gold medalist; AARON PIXTON (Vestal, New York), gold medalist; MARK LIPSON (Lexington, Massachusetts), silver medalist; and YAN ZHANG (Alexandria, Virginia), silver medalist.

The team was chosen on the basis of the students' performance in the 2003 USA Mathematical Olympiad. The students attended a four-week Mathematical Olympiad Summer Program at the University of Nebraska, Lincoln, over the past summer under the leadership of Titu Andreescu, director of the American Mathematics Competitions. The USA Mathematical Olympiad is a program of the Mathematical Association of America and is sponsored by the Akamai Foundation and the University of Nebraska. More information is available on the official scoring site of the IMO at <http://www.imo2003.com>.

—*Elaine Kehoe*

## AMS Awards for Outstanding Student Paper Presentations

Each year, the AMS sponsors the AMS Awards for Outstanding Pi Mu Epsilon Student Paper Presentations. The awards, first presented in 1989, are made by Pi Mu Epsilon (PME), the U.S. honorary mathematics society, to recognize the best undergraduate student papers presented at a PME student paper session. Each awardee receives a prize of \$150.

The PME held a conference in conjunction with the MathFest in Boulder, Colorado, July 31–August 2, 2003, and thirty-two students presented talks. From these, seven presentations were selected to receive the AMS award. The names of the students, together with their institutions and the titles of their talks, are listed below.

CHRIS JONES, Youngstown State University, “Mathematical Freedom”; EMILY KING, Texas A&M University, “A Matricial Algorithm for Polynomial Refinement”; MARTA KOBIELA, Texas A&M University, “Knots in a Cubic Lattice”; DEREK POPE, Seton Hall University, “Bifurcations of the Henon Map”; BRENDA RUSSO, Salisbury University, “Algebraic Structures and the Long-term Behavior of Discrete Dynamical Systems”; MARIA SALCEDO, Youngstown State University, “Crystallographic Fractal Tilings”; and BARBARA SEXTON, Sam Houston State University, “Means of Complex Numbers”.

—*Allyn Jackson*