

Mathematics People

Prizes of the CRM, Montreal

Several prizes have been awarded to mathematicians by the Centre de Recherches Mathématiques (CRM), Montreal, Canada. They are listed below.

PAVEL WINTERNITZ of the University of Montreal was awarded the 2002 CAP-CRM Prize in Theoretical and Mathematical Physics jointly by the CRM and the Canadian Association of Physicists (CAP) for his work on symmetry methods in physics. The CAP-CRM Prize, instituted in 1995, is intended to recognize exceptional achievements in research in the fields of theoretical and mathematical physics. The prize is given for research done primarily in Canada or in affiliation with a Canadian university or industry. It carries a cash award of \$2,000 and a commemorative medal. Awardees are invited to lecture at the annual congress of the CAP.

JOHN B. FRIEDLANDER of the University of Toronto was awarded the 2002 CRM/Fields Institute Prize by The Fields Institute for Research in Mathematical Sciences (Toronto) and the CRM. The prize recognizes exceptional achievement in the mathematical sciences. Recipients are chosen on the basis of outstanding contributions to the advancement of research, with research having been done primarily in Canada or in affiliation with a Canadian university. A prize of \$5,000 is awarded, and the recipients present lectures at the CRM and at The Fields Institute.

JINYI CHEN of the University of British Columbia has been awarded the 2001 André Aisenstadt Mathematics Prize. The prize, instituted in 1991, consists of an award of \$3,000 and is intended to recognize talented young Canadian researchers in pure and applied mathematics who have held the Ph.D. for no more than seven years.

—From a CRM announcement

Lieb Receives Honor from Austria

On July 29, 2002, ELLIOTT H. LIEB of Princeton University received the prestigious order Österreichisches Ehrenzeichen für Wissenschaft und Kunst (Austrian Honor for Science and Art) in a ceremony held at the Austrian Federal Ministry for Education, Science, and Culture. The order was awarded

to Lieb by the president of the Republic of Austria, Thomas Klestil.

In honor of Lieb on the occasion of his seventieth birthday, a symposium on mathematical physics, *Stability Matters*, was held at the International Erwin Schrödinger Institute for Mathematical Physics from July 28 to August 2, 2002, in Vienna, Austria.

—Austrian Federal Ministry for Education, Science, and Culture

Ando Awarded Hans Schneider Prize

TSUYOSHI ANDO of Hokusei Gakuen University, Japan, has been awarded the 2002 Hans Schneider Prize of the International Linear Algebra Society (ILAS). Ando is an editor of the *Journal of Inequalities in Pure and Applied Mathematics*. His major research interests are operator theory and matrix theory. The prize was awarded at the ILAS meeting in June 2002.

—From an ILAS announcement

Wu Receives Radcliffe Institute for Advanced Study Fellowship

SIJUE WU of the University of Maryland, College Park, has been awarded a Radcliffe Institute fellowship for the academic year 2002–2003. Wu is a past winner of the Satter Prize of the AMS. Her research interests include harmonic analysis and partial differential equations, in particular nonlinear equations from fluid mechanics. Her recent work concerns the full nonlinear water wave problem and the motion of general two-fluid flows. The Radcliffe Institute for Advanced Study at Harvard University awards more than fifty funded post-doctoral fellowships each year to scholars, professionals, writers, and artists from throughout the world.

—From a Radcliffe announcement

National Defense Science and Engineering Graduate Fellowships Awarded

Eighteen 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 sponsored by the United States Army, Navy, and Air Force.

Following are the names of the fellows in mathematics, followed by the students' institutions and the offices that awarded the fellowships.

JOMY ALAPPATTU, Northwestern University, Office of Naval Research (ONR); JAMES BRINK, Indiana University, Air Force Office of Scientific Research (AFOSR); KEVIN CHU, Stanford University, AFOSR; MICHAEL GELINE, University of Illinois, AFOSR; TEENA GERHARDT, Stanford University, Army Research Office (ARO); GEIR HELLELOID, University of Wisconsin, Madison, ARO; EREZ LIEBERMAN, Princeton University, ARO; PHILIP MATCHETT, Harvard University, AFOSR; CHRISTOPHER MIHELICH, Harvard University, AFOSR; JEROME O'NEAL, Georgia Institute of Technology, ARO; ALEXANDER PEKKER, Stanford University, ONR; DANIEL RAMRAS, Cornell University, ONR; CAMILLIA SMITH, Michigan State University, ARO; SAVERIO SPAGNOLIE, University of Colorado, AFOSR; SETH TRIBBLE, Rice University, ARO; LAUREN WILLIAMS, Massachusetts Institute of Technology, AFOSR; PAUL WRIGHT, University of California, Berkeley, ONR; and BORIS ZBARSKY, Massachusetts Institute of Technology, ONR.

—From an NDSEG announcement

Trjitzinsky Memorial Awards Presented

The AMS has made awards to eight undergraduate students through the Waldemar J. Trjitzinsky Memorial Fund. The fund is made possible by a bequest from the estate of Waldemar J., Barbara G., and Juliette Trjitzinsky. The will of Barbara Trjitzinsky stipulates that the income from the bequest should be used to establish a fund in honor of the memory of her husband to assist needy students in mathematics.

For the 2002 awards the AMS chose eight geographically distributed schools to receive one-time awards of \$4,000 each. The mathematics departments at those schools then chose students to receive the funds to assist them in pursuing careers in mathematics. The schools are selected in a random drawing from the pool of AMS institutional members.

Waldemar J. Trjitzinsky was born in Russia in 1901 and received his doctorate from the University of California, Berkeley, in 1926. He taught at a number of institutions

before taking a position at the University of Illinois, Urbana-Champaign, where he remained for the rest of his professional life. He showed particular concern for students of mathematics and in some cases made personal efforts to ensure that financial considerations would not hinder their studies. Trjitzinsky was the author of about sixty mathematics papers, primarily on quasi-analytic functions and partial differential equations. A member of the AMS for forty-six years, he died in 1973.

Following are the names of the selected schools for 2002, the names of the students receiving Trjitzinsky awards, and brief biographical sketches of the students.

Stephen F. Austin State University: MARCUS A. ARREGUIN. Arreguin is a resident of rural East Texas and majors in mathematics and geography. He has maintained an A average at the university. He is a member of the Honors School and has completed several courses with additional projects or papers for honors credit. Arreguin has also published several original poems and musical arrangements and is a member of community and church choirs. He is looking forward to a career using his interests in mathematics, geography, and computer science.

Bates College: CHALLIS KINNUCAN. Kinnucan was born in Albuquerque, New Mexico, and grew up in London, Ontario, Canada. She is "one of the best mathematics students in recent years at Bates," said Peter Wong, chair of the mathematics department. Kinnucan spent a semester studying in Budapest, where she took a graduate-level course in abstract algebra. She participated in a Research Experience for Undergraduates program in 2001 and reported her research findings at the Joint Mathematics Meetings in San Diego in 2002. Kinnucan loves to travel and learn about different cultures. She enjoys charcoal drawing and working with children.

Brigham Young University: JULIE BRINTON. Brinton was raised in Wenatchee, Washington, as one of seven children. She was the valedictorian of her high school class. She competed in the Washington State mathematics olympiad as a fifth-grader and decided to pursue mathematics after that experience.

The College of William and Mary: SUZANNE L. ROBERTSON. Robertson grew up in Mt. Sinai, New York, and was the valedictorian of her high school class. At William and Mary she has been a volunteer tutor at an elementary school, conducted research on nonlinear population dynamics, and attended the National Youth Science Camp. She has also maintained a grade point average of 3.9, which "ranks her as one of the top rising seniors at The College of William and Mary," according to the departmental committee, which "wholeheartedly" nominated Robertson for the Trjitzinsky scholarship.

Furman University: KEVIN L. SMITH. Smith was born and raised in Lexington, South Carolina, and graduated from high school with the highest average in mathematics and science in his graduating class. As a freshman at Furman he plans a double major in mathematics and computer science. "As a first-year student, he has been one of the highest achieving students in classes usually taken by sophomore mathematics majors," said Douglas F. Rall of the Department of Mathematics. "Kevin is an ideal student to

receive this award." Smith plans to go to graduate school in computer science.

University of Hartford: AIMEE J. GROUDAS. Groudas grew up in Chatham, New York. She was a member of the National Honor Society and competed on the varsity track and field team. She has a 4.0 grade point average at Hartford and hopes to pursue a career using her mathematical skills, possibly in business. Joel Kagan of the Departments of Mathematics, Physics, and Computer Science at Hartford said, "She is a wonderful student and received unanimous support from the faculty in recommending her for the Trjitzinsky Scholarship."

University of Southern California (USC): PETER KIRKPATRICK. Kirkpatrick grew up in the state of Washington. He received the highest scores in his high school on the American High School Mathematics Exam in his freshman, sophomore, and senior years and graduated as salutatorian of his class. "I've come to realize that education and the experience that goes with it are gifts," he said. At USC he works in the Joint Educational Project, helping to design a curriculum in which USC physics students will team-teach science at local middle and high schools. He maintains a 3.8 grade point average and was recently inducted into Phi Beta Kappa. He is also interested in music.

University of Texas at Dallas (UTD): KEVIN R. POND. Pond received the Mathematics Award from his high school in Boyd, Texas. He began to tutor mathematics in college, and this work led him to become an undergraduate assistant in the UTD calculus program. His mathematical interests are in number theory and logic. He is also interested in languages, classical music, and computer science.

For further information about the Trjitzinsky Memorial Fund, contact the AMS Development Office, 201 Charles Street, Providence, RI 02904-2294; email: development@ams.org; telephone: 401-455-4111.

—Elaine Kehoe

AMS Award for Outstanding Student Paper Presentations

Each year the AMS sponsors the AMS Award for Outstanding Pi Mu Epsilon Student Paper Presentation. 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. Seven students received awards for presentations at the Student Conference held in Burlington, Vermont, July 31–August 2, 2002. The conference was jointly sponsored by PME and the Mathematical Association of America. The names of the students, together with their institutions and the titles of their talks, are listed below.

ELIZABETH DONOVAN, Worcester Polytechnic Institute, "Maximum chromatic status of a graph"; ED KENNEY, University of Richmond, "Search for constructions of partial difference sets"; BORISLAV MEZHERICHER, Queen's College, "Graphs that count: Generalized Catalan number"; F. RONALD OGBORNE,

State University of New York at Fredonia, "Reciprocity gap and general linear 'crack' identification"; TERESA SELEE, Youngstown State University, "The assumptions and strategies of repeated games"; ROBERT SHUTTLEWORTH, Youngstown State University, "Numerical solutions of PDEs"; and BRIAN WYMAN, University of Richmond, "Game strategy development".

—Allyn Jackson

Royal Society of Canada Elections

The Royal Society of Canada has elected fifty-eight new fellows. Among these are three who work in the mathematical sciences. They are NIKY KAMRAN of McGill University, NEAL MADRAS of York University, and VIDYADHAR GODAMBE of the University of Waterloo. The new fellows will be inducted in a ceremony on November 22, 2002.

—From a Royal Society of Canada announcement