Mathematics People

Kreps Awarded 2007 CME/MSRI Prize

The Chicago Mercantile Exchange (CME), the largest and most diverse financial exchange, through its Center for Innovation has partnered with the Mathematical Sciences Research Institute (MSRI) to award the second annual CME/MSRI Prize. This award is designed to recognize individuals or groups who contribute original concepts and innovation in the use of mathematical, statistical, or computational methods for the study of the behavior of markets and, more broadly, of economics.

CME and MSRI have awarded the 2007 CME/MSRI Prize in Innovative Quantitative Applications to DAVID M. KREPS, Senior Associate Dean for Academic Affairs and the Theodore J. Kreps Professor of Economics at the Stanford University Graduate School of Business.

Kreps's prolific and seminal research in microeconomics has probed deeply into dynamic choice in both single-person and multiperson settings. In 1979 he was part of a team that placed the concept of risk-neutral asset pricing in the framework of "martingale measures", an approach that is now standard for the pricing and risk management of financial products. He has had influential insights across a host of different topics, including dynamic choice, in which parties exhibit a preference for flexibility or concern over the timing of resolution of uncertainty; processes of learning both in markets and in games; and models of reputation in repeated games, with applications to corporate culture and human resource management.

As this year's recipient, Kreps was presented with the CME/MSRI Prize medal and a cash award of US$25,000 at a recognition ceremony held on September 20, 2007, at CME in Chicago. In conjunction with the award ceremony, a seminar was held with Milton Harris of the University of Chicago; Nobel Laureate Myron Scholes of Platinum Grove Asset Management; last year's CME/MSRI awardee, Stephen A. Ross of MIT Sloan School of Management; and Luigi Zingales of the University of Chicago Graduate School of Business on the topic "What's the Deal with Private Equity?"

Members of the CME/MSRI Prize Selection Committee were: Leo Melamed, CME Group Chairman Emeritus; Myron Scholes; Stephen A. Ross; Darrell Duffie, James I. Miller Professor of Finance, Stanford University Graduate School of Business; Hugo Sonnenschein, president emeritus and Adam Smith Distinguished Service Professor, University of Chicago; and David Eisenbud, former director of MSRI.

—From a CME news release

Singapore National Science and Technology Awards Given

The Agency for Science, Technology, and Research (A*STAR) in Singapore has announced its National Science and Technology Awards (NSTA) for 2007. A. J. BERRICK and WU JIE of the National University of Singapore received a joint National Science Award for their work in mathematics. According to the prize citation, they have "uncovered deep connections between algebraic topology and the theory of braids. This fundamental work, which brought together two branches of mathematics, lays the foundation for other researchers to apply the mathematical structures to situations requiring precise control of complex multiobject, multidimensional movement, as in the case of air traffic control, robotic motion, and the folding of proteins to create new drugs."

The National Science Awards recognize 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. Awardees receive a trophy, a citation, and a prize of US$15,000.

—From an Agency for Science, Technology, and Research announcement

NDSEG Fellowships Awarded

Fourteen 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, their institutions, and the offices that awarded the fellowships: MELODY CHAN (Princeton University), Army Research Office (ARO); DANIEL ERMAN (University of California, Berkeley), Office of Naval Research (ONR); LAUREN HUND (Harvard University), ARO; LINDA HUNG (Princeton University), Air Force Office of Scientific Research (AFOSR); QUINTINA JONES (University of Arizona), AFOSR; IRINA KALASHNIKOVA (Stanford University), AFOSR; DANIEL KANE (Harvard University), ONR; EMANUEL LAZAR (Princeton University), High Performance Computing Modernization Program (HPCMP); IAN LE (Northwestern University), ARO; CATHERINE LENNON (Massachusetts Institute of Technology), AFOSR; PO-RU LOH (Massachusetts Institute of Technology), ARO; JESSICA MCCOY (Stanford University), AFOSR; STEFAN PATRIKIS (Princeton University), ONR; AVIVA PRESSER (Harvard University), ONR.

—From an NDSEG announcement

B. H. Neumann Award Given

The B. H. Neumann Award for 2007 has been awarded by the Board of the Australian Mathematics Trust to ANNE HASTINGS, deputy principal at Kambala School, Sydney, Australia, for her significant service to the Australian Mathematics Trust, including serving the Australian Mathematics Competition Problems Committee and being a moderator for about fifteen years, a function she still serves. The awards, named for Bernhard H. Neumann, are presented each year to mathematicians who have made important contributions over many years to the enrichment of mathematics learning in Australia and its region.

—Board of the Australian Mathematics Trust

Pi Mu Epsilon Student Paper Presentation Awards

Pi Mu Epsilon (PME), the U.S. honorary mathematics society, makes annual awards to recognize the best papers by undergraduate students presented at a PME student-paper session. This year the PME held a session in conjunction with the Mathematical Association of America MathFest in San Jose, California, August 2–5, 2007. Seven students were designated as 2007 AMS Award Winning Pi Mu Epsilon Student Speakers, each of whom received a check for US$150. Their names, institutions, and paper titles follow.

JEFF CORNFIELD, Ohio Xi Chapter at Youngstown State University, "Napoleon Triangles—A Brief Presentation"; TYLER DROMBOSKY, Ohio Xi Chapter at Youngstown State University, "Effective Condition Number"; RACHEL GROTHEER, Ohio Iota Chapter at Denison University, "The tangled and knotted tale of two graphs"; DAVID HORN, Illinois Iota Chapter at Elmhurst College, "Cutting a Segment into Equal Areas without Cutting through the Curve OR Cutting Pie Fairly"; SARA JENSEN, Wisconsin Epsilon Chapter at Carthage College, "Population Genetics and the ABO Blood Type"; WILLIAM RYAN LIVINGSTON, Ohio Xi Chapter at Youngstown State University, "Statistical Observations on America's Colleges and Universities"; MATT WARD, Ohio Xi Chapter at Youngstown State University, "Are the Gaussian Integers Friends?".

—From a Pi Mu Epsilon announcement

UNIVERSITY of LOUISVILLE
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Tenure-track Positions

The Department of Mathematics at the University of Louisville invites applications for two tenure-track positions at the Assistant Professor level beginning Fall 2008. Preference will be given to applicants in applied or computational areas of Algebra and Combinatorics, but qualified applicants in other areas strengthening the department's Ph.D. program in applied and industrial mathematics and complementing existing strengths, will be considered. The typical teaching load in the department is two courses per semester. The minimum qualifications for these positions include a Ph.D. degree, or its equivalent, in the Mathematical Sciences. Applicants with demonstrated strengths in research and teaching are encouraged to apply. The expectations include that the successful applicant will contribute fully to research and both undergraduate and graduate instruction. Review of applications will begin December 15, 2007. Applicants must apply on-line at **www.louisville.edu/jobs**; for the Algebra position use Job ID # 22066; for the Combinatorics position use Job ID# 22067. For either job, submit the following items electronically as well as a hardcopy (1) cover letter that clearly indicates the position name or the job ID number, summary of research interest and statement of teaching interests; (2) the AMS Standard Coversheet; and (3) curriculum vitae. Please indicate whether you are going to attend the AMS annual joint meeting in San Diego in your cover letter submitted on-line. Also, please mail directly at least four letters of recommendation which discuss at length your research and teaching qualifications to: Search Committee, Department of Mathematics, University of Louisville Louisville, KY 40292. For more information about the position or institution please see: **http://www.math.louisville.edu/**

The University of Louisville is an Affirmative Action, Equal Opportunity, Americans with Disabilities Employer, committed to diversity and in that spirit, seeks applications from a broad variety of candidates.