Mathematics People

Hoang Tuy Awarded Carathéodory Prize

HOANG TUY of the Institute of Mathematics of the Vietnamese Academy of Science and Technology has been awarded the first Constantin Carathéodory Prize "for his pioneering work and fundamental contributions to global optimization."

The Constantin Carathéodory Prize was established by the International Society of Global Optimization in 2011. It is awarded biannually to an individual or a group for fundamental contributions to theory, algorithms, and applications of global optimization. The prize carries a cash award of US$2,000 and a certificate.

—International Society of Global Optimization

Sargent Awarded 2011 CME/MSRI Prize

THOMAS J. SARGENT of New York University and the Hoover Institution, Stanford, California, has been awarded the sixth annual CME Group-MSRI Prize in Innovative Quantitative Applications. The prize recognizes individuals or groups for originality and innovation in the use of mathematical, statistical, or computational methods for the study of the behavior of markets and, more broadly, of economics. Sargent was recognized for his work in macroeconomics, monetary economics, and time series economics. The award carries a cash prize of US$25,000.

—From a CME/MSRI announcement

Sevenheck Receives von Kaven Award

CHRISTIAN SEVENHECK of the University of Mannheim has been awarded the von Kaven Prize in Mathematics of the von Kaven Foundation, which is administered by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation). The prize carries a cash award of 10,000 euros (approximately US$13,500).

Sevenheck was honored for his "outstanding work in the field of complex algebraic geometry and singularity theory." According to the prize citation, "his work focuses on very challenging problems in algebraic geometry and singularity theory" and involves research into such topics as Frobenius manifolds, twistor structures, Hodge theory, and mirror symmetry.

The von Kaven prize is funded from the proceeds of the von Kaven Foundation, which was established in 2004 by mathematician Herbert von Kaven, who died in 2009 at the age of 101.

—From a DFG announcement

Ball and Rajamani Receive 2011 CAV Award

THOMAS BALL and SRIRAM RAJAMANI of Microsoft Research have been awarded the 2011 Computer-Aided Verification (CAV) Award "for their contributions to software model checking, specifically the development of the SLAM/SDV software model checker, which successfully demonstrated computer-aided verification techniques on real programs." Their research showed how theorem proving, model checking, and static analysis technology can be applied to real programs of realistic size written in real programming languages. The CAV award is given annually in recognition of a specific fundamental contribution or a series of outstanding contributions to the field of computer-aided verification and includes a cash prize of US$10,000.

—Moshe Vardi, Rice University

Lamzouri Receives 2011 CMS Doctoral Prize

YOUNESS LAMZOURI of the University of Illinois, Urbana-Champaign, has been awarded the 2011 Doctoral Prize of the Canadian Mathematical Society (CMS) for his research in analytic number theory. According to the prize citation, "his thesis provides a first good understanding of extreme values of the Riemann zeta-function (and

of all *L*-functions) at the edge of the critical strip, an area involved in some of the most difficult and central problems in analytic number theory." The CMS Doctoral Prize recognizes outstanding performance by a doctoral student. Lamzouri earned his Ph.D. in mathematics from the University of Montreal in 2009.

—From a CMS announcement

NSF Postdoctoral Fellowships Awarded

The Mathematical Sciences Postdoctoral Research Fellowship program of the Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) awards fellowships each year for postdoctoral research in pure mathematics, applied mathematics and operations research, and statistics. Following are the names of the fellowship recipients for 2011, together with their Ph.D. institutions (in parentheses) and the institutions at which they will use their fellowships.

BENJAMIN BAKKER (Princeton University), Courant Institute, New York University; JENNIFER BALAKRISHNAN (Massachusetts Institute of Technology), Harvard University; DEAN BASKIN (Stanford University), Northwestern University; JACOB BEDROSSIAN (University of California, Los Angeles), Courant Institute, New York University; JONATHAN BLOOM (Columbia University), Massachusetts Institute of Technology; MATTHEW BOND (Michigan State University), University of British Columbia; AARON BROWN (Tufts University), Pennsylvania State University; TOVA BROWN (Massachusetts Institute of Technology), University of California, Los Angeles; DUSTIN CARTWRIGHT (University of California, Berkeley), Yale University; IVAN CHRISTOV (Northwestern University), Princeton University; THOMAS CHURCH (University of Chicago), Stanford University; MARIA CUETO (University of California, Berkeley), Columbia University; JEFFREY DANCIGER (Stanford University), University of Texas, Austin; CHRISTOPHER DODD (Massachusetts Institute of Technology), University of Toronto; BENJAMIN DODSON (University of North Carolina, Chapel Hill), University of California, Berkeley; DAMIR DZHAFAROV (University of Chicago), University of Notre Dame; BENJAMIN ELIAS (Columbia University), Massachusetts Institute of Technology; ALLISON GILMORE (Columbia University), Princeton University; PAUL HAND (New York University), Massachusetts Institute of Technology; NADIA HENINGER (Princeton University), University of California, San Diego; ARIE ISRAEL (Princeton University), Courant Institute, New York University; DAVID JORDAN (Massachusetts Institute of Technology), University of Texas, Austin; DANIEL KANE (Harvard University), Stanford University; CAGATAY KUTLUHAN (University of Michigan); Harvard University; KAROLA MESZAROS (Massachusetts Institute of Technology), University of Michigan; RONEN MUKAMEL (Massachusetts Institute of Technology), Stanford University; KYLE ORMSBY (University of Michigan), Massachusetts Institute of Technology; BRAXTON OSTING (Columbia University), University of California, Los Angeles;

WILLIAM PERKINS (New York University), Georgia Institute of Technology; YANIV PLAN, California Institute of Technology), University of Michigan; EMILY RIEHL (University of Chicago), Harvard University; LIEF RISTROPH (Cornell University), Courant Institute, New York University; NANCY RODRIGUEZ (University of California, Los Angeles), Stanford University; SHERRI ROSE (University of California, Berkeley), Johns Hopkins University; MATTHEW SATRIANO (University of California, Berkeley), University of Michigan; MICHAEL SCHNALL-LEVIN (Massachusetts Institute of Technology), Broad Institute; PAUL SMITH (University of California, Los Angeles), University of California, Berkeley; ANDREW SUK (New York University), Massachusetts Institute of Technology; CHELSEA WALTON (University of Michigan), University of Washington; RAY YANG (University of Texas, Austin), Courant Institute, New York University.

—NSF announcement

William B. Woolf (1932–2010)

William Blauvelt Woolf, who served *Mathematical Reviews* (MR) and the American Mathematical Society (AMS) from 1979 to 1995, died in Seattle, Washington, on December 6, 2010, following a long struggle with a combination of medical conditions.

Biography

Bill Woolf was born in New Rochelle, NY, on September 18, 1932. He earned his bachelor's degree at Pomona College, his master's degree at the Claremont Graduate School, and his Ph.D. degree at the University of Michigan in 1960 under the guidance of Arthur J. Lohwater.

From 1959 to 1968 Bill taught at the University of Washington, spending 1963–64 in Helsinki as a Fulbright Fellow. Bill was a member of the senior staff at the American Association of University Professors in Washington DC from 1968 to 1979. He was managing editor at MR from 1979 to 1990 and associate executive director of the AMS from 1990 to 1995. Bill and his wife, Shirley (McRae), retired to Port Townsend, WA, to a house he helped design (in 1977 he designed a home in Great Falls, VA).

Bill's commitment to civil rights led to a lifelong association with the American Civil Liberties Union. A lover of sailing, he owned two boats (the second of which was christened "Aftermath"). He was an active member of the Society of Friends (Quakers) and was a founding member of the Port Townsend Friends meeting. His many associates will always remember his love both of good food and of well-reasoned arguments.

The MR Years

Bill Woolf was called in 1979 to *Mathematical Reviews* by John Selfridge, who had known him as a colleague from earlier times at the University of Washington. Bill's organizational and administrative skills were especially valuable in his new position as managing editor at MR.

Initially the problems to be addressed included the backlog of material that had accumulated at MR. This resulted in MR's bumper volume 58, which was 76 percent

larger than the previous one and cleared up most of the problems. Then a new month-and-year-based volume numbering of MR was instituted, beginning with issue 80a for January of 1980. This signaled a revamping of the production system for MR that is still paying off today.

Bill and John managed the transition of the composition of the pages of MR from the arcane STI system to TeX. The 85a issue of MR appeared on schedule and signaled the beginning of the new TeX era for MR. The relatively smooth changeover to a whole new production system was a tribute to the MR administration's policy of encouraging staff to educate and train themselves in new technologies and skills, because TeX, and computer database deployment in business operations were both in their early stages. That MR has been able to become MathSciNet online is largely due to the forward-looking computerized design introduced in large part by Bill in the 1980s.

The AMS Years

Bill Woolf joined the AMS's Providence office staff as associate executive director in February of 1990, transferring from his position as managing editor of MR at the AMS's Ann Arbor office. Bill was director of the Computer Services Division, a central component of the Society's membership and publication operations. Within ten months of his arrival, Bill's role was expanded to include supervision of the departments that formed the Providence office's publication production group. This was a task at which Bill excelled, which was no surprise given his success in establishing and supervising the large-scale production processes for MR. He made crucial contributions to the initiation of the AMS's `e-math.ams.org` and later to the launching of MathSciNet in 1996.

Those who worked under Bill's supervision found his management style one that encouraged cross-department collaboration in accomplishing the tasks at hand, focusing on efficiency while not sacrificing quality. When the inevitable problems arose, his approach was best reflected by a favorite saying of his: "Fix the problem, not the blame." Those who worked for Bill knew that he expected their best efforts and also knew he would support those efforts by providing them with the resources they needed to do their jobs.

—Patrick Ion,
Mathematical Reviews

—James W. Maxwell,
American Mathematical Society

—Donovan H. Van Osdol,
University of New Hampshire

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 PME held a session in conjunction with the Mathematical Association of America MathFest in Lexington, Kentucky, August 4–6, 2011. The AMS and the American Statistical Association sponsor awards to student speakers for excellence in exposition and research. Each awardee received a check for US$150. The names, chapters, institutions, and paper titles of the award-winning students follow.

JOSEPH FERRARA, Florida Eta Chapter, University of North Florida, "Exterior algebra and the Maxwell-Boltzmann equations"; KATIE HEAPS, Pennsylvania Upsilon Chapter, Duquesne University, "Variational image denoising and decomposition using duality"; KADY HOSSNER, Oregon Delta Chapter, Western Oregon University, "Cayley-Sudoku tables and loop theory"; RACHEL LEVANGER, Florida Eta Chapter, University of North Florida, "Imagining the Banach-Tarski paradox"; KATHERINE MOORE, Ohio Pi Chapter, Kenyon College, "Abundancy index outlaws"; BRIAN PIETSCH, Wisconsin Delta Chapter, St. Norbert College, "Parameterizing the Koch curve"; CHRISTOPHER SCHAFHAUSER, Wisconsin Eta Chapter, University of Wisconsin-Platteville, "Alpha-regular stick unknots"; MARIO SRACIC, Ohio Xi Chapter, Youngstown State University, "Cryptology and quantum computing"; and HONGYING ZHAO, Minnesota Delta Chapter, Saint Johns University and the College of Saint Benedict, "Nonabelian groups with perfect order subsets".

—From a Pi Mu Epsilon announcement

Correction

The following correction was printed in the November 2011 issue:

The email address given for author James Schwartz, "Gerhard Hochschild (1915–2010)", *Notices*, September 2010 issue, page 1082, was incorrect. The correct address is `jamesschwartz1@gmail.com`.

Unfortunately, the correction listed the incorrect issue for the article "Gerhard Hochschild (1915–2010)". The article appeared in the September 2011 issue.