
Mathematics People

2010–2011 AMS Centennial Fellowship Awarded

The AMS has awarded its Centennial Fellowship for 2010–2011 to JOËL BELLAÏCHE of Brandeis University. The fellowship carries a stipend of US\$77,000, an expense allowance of US\$7,700, and a complimentary Society membership for one year.

Joël Bellaïche was born and raised in Paris. As an undergraduate and graduate student, he attended the École Normale Supérieure in Paris. He defended his thesis in 2002 at the University of Orsay, where his advisor was Laurent Clozel. After a short postdoctoral stay at the University of Padua in Italy and at the Institute for Advanced Study in Princeton, and after one year as a *maître de conférences* at the University of Nice (France), he moved permanently to the United States and became a Ritt Assistant Professor at Columbia University in 2004. Since January 2008 he has been an associate professor at Brandeis University.

Bellaïche's main interest is in the Birch and Swinnerton-Dyer conjecture and, more generally, the Bloch-Kato conjectures. Those conjectures, still wide open, relate some analytic invariants of a motive over a number field (more specifically, the values of its L -function or its p -adic L -function) with some arithmetic invariant of the motive (e.g., the Mordell-Weil group of an elliptic curve). Bellaïche's approach uses the theory of automorphic forms.

Next year he plans to work on higher-rank p -adic L -functions and their relations with the universal families of automorphic forms called eigenvarieties. He plans to visit several places, including Princeton, Montreal, Chicago, and Paris.

Please note: Information about the competition for the 2011–2012 AMS Centennial Fellowships will be published in the “Mathematics Opportunities” section of an upcoming issue of the *Notices*.

—Allyn Jackson

Khot Wins Waterman Award

SUBHASH KHOT of the Courant Institute of Mathematical Sciences, New York University, has been awarded the 2010 Alan T. Waterman Award of the National Science Foundation. He is a theoretical computer scientist who works in the field of computational complexity, which seeks to understand the power and limits of efficient computation.

A fundamental phenomenon in computer science is the existence of computational problems that cannot be quickly solved. These “computationally intractable” problems, as they are called, present far-reaching consequences. For instance, they limit our ability to use mathematics to tackle large-scale problems arising in science and engineering, such as the optimal design of protein folding. Conversely, they make computer security possible, as computational intractability thwarts hackers' attempts to access personal information stored in online databases. Understanding and addressing this phenomenon, therefore, has huge potential benefits for science and engineering. Khot has made significant inroads in identifying computational intractability. He has uncovered a problem about probabilistic games called “the Unique Games Problem”. His work shows that it lies at the core of a variety of intractable computational problems.

Khot earned a bachelor's degree from the Indian Institute of Technology, Bombay, in 1999 and a doctorate in computer science from Princeton University in 2003. He has been the recipient of an NSF CAREER award, a Sloan Foundation Fellowship, and a Microsoft New Faculty Fellowship.

The Waterman Award was established in 1975 and is considered the NSF's most prestigious honorary award, given annually to an outstanding researcher under the age of thirty-six in any field of science and engineering supported by the NSF. The award includes a grant of US\$500,000 over three years for scientific research or advanced study in the recipient's field of science.

—From an NSF announcement

Tropp Awarded Popov Prize

JOEL A. TROPP of the California Institute of Technology has been awarded the sixth Vasil Popov Prize for outstanding research contributions to approximation theory and related areas. According to the prize citation, Tropp was honored “for his outstanding contributions to the development of sparse reconstruction methods in the context of approximation from redundant systems, greedy algorithms, and, most recently, compressed sensing. In particular, he has shown that greedy algorithms will with high probability exactly recover sparse vectors from random measurements (for example) based on Gaussian or Bernoulli distributions. This was a cornerstone result in showing the efficacy of greedy algorithms for decoding in compressed sensing.... Tropp's work has significantly advanced the understanding of greedy algorithms and

sublinear reconstruction algorithms in new, highly relevant application contexts.”

The Popov Prize honors the memory of Vasil A. Popov (1942–1990), the Bulgarian analyst best known for his work in nonlinear approximation. It is awarded every three years and carries a cash award of US\$2,000. Previous winners of the Popov Prize are Albert Cohen, Arno Kuijlaars, Emmanuel Candes, Serguei Denissov, and Mauro Maggioni.

—Popov Prize Selection Committee

Kreck Receives Cantor Medal

The Deutsche-Mathematiker-Vereinigung (German Mathematical Society, DMV) has awarded the 2010 Cantor Medal to MATTHIAS KRECK, director of the Hausdorff Research Institute for Mathematics in Bonn.

Born in 1972, Kreck received his doctorate from the University of Bonn under the direction of Friedrich Hirzebruch. Kreck held positions in Wuppertal, Mainz, Heidelberg, and Bonn and also served for many years as director of the Mathematisches Forschungsinstitut Oberwolfach. His research focuses on manifolds and their classification.

The Cantor Medal is the highest honor given by the DMV and is presented at most every two years for outstanding research in mathematics. Previous recipients are Karl Stein (1990), Jürgen Moser (1992), Erhard Heinz (1994), Jacques Tits (1996), Volker Strassen (1999), Yuri Manin (2002), Friedrich Hirzebruch (2004), Hans Föllmer (2006), and Hans Grauert (2008).

—From the DMV Mitteilungen

Mantegazza Awarded 2010 Balaguer Prize

The Ferran Sunyer i Balaguer Foundation has awarded the Ferran Sunyer i Balaguer Prize for 2010 to CARLO MANTEGAZZA of Scuola Normale Superiore di Pisa for his monograph *Lecture Notes on Mean Curvature Flow*. According to the prize citation, the monograph is “an introductory text to the mean curvature flow at a high level. It is an excellent book for Ph.D. students and for researchers... [that] fills a gap in the literature” and organizes an important amount of material on the mean curvature flow. The monograph “is very well written, with a precise and clear style.” It includes chapters on definition of the flow and small time existence, evolution of geometric quantities, monotonicity formula and type I singularities, and type II singularities. It features a series of appendices on quasilinear parabolic equations on manifolds, interior estimates of Ecker and Huisken, Hamilton’s maximum principle for tensors, classification of homothetically shrinking closed curves, and a series of important results without proofs.

The Ferran Sunyer i Balaguer Foundation of the Institut d’Estudis Catalans (IEC) awards this international prize every year to honor the memory of Ferran Sunyer i Balaguer (1912–1967), a self-taught Catalan mathematician who

gained international recognition for his research in mathematical analysis despite the serious physical disabilities with which he was born. The prize carries a cash award of 15,000 euros (approximately US\$20,000); the winning monographs are published by Birkhäuser Verlag.

—From a Ferran Sunyer i Balaguer Foundation announcement

Hersh Awarded Michler Prize

PATRICIA HERSH of North Carolina State University has been awarded the fourth annual Ruth I. Michler Memorial Prize by the Association for Women in Mathematics (AWM) and Cornell University. She will spend the fall semester of 2010 doing research at Cornell, where she plans to study topology and combinatorics of stratified spaces from Schubert calculus, combinatorial representation theory, and total positivity theory with Allen Knutson. She will also collaborate with Irena Peeza on combinatorial commutative algebra and cellular resolutions and with Ed Swartz on rings of graph colorings. Hersh received her Ph.D. from the Massachusetts Institute of Technology, where she studied enumerative properties and decomposition in partially ordered sets. Her primary interests are in algebraic and topological combinatorics, particularly the interactions between combinatorics and such fields as topology, commutative algebra, representation theory, and theoretical computer science. She is particularly interested in combinatorial methods for studying topological structure.

The Michler Prize is awarded annually to a woman recently promoted to associate professor or an equivalent position in the mathematical sciences. It consists of a residential fellowship in the Cornell University mathematics department without teaching obligations. The amount of the award is US\$45,000, with an additional travel allowance provided by the Cornell University mathematics department.

—From an AWM announcement

Sloan Fellowships Awarded

The Alfred P. Sloan Foundation has announced the names of the recipients of the 2010 Sloan Research Fellowships. Each year the foundation awards 118 fellowships in the fields of mathematics, chemistry, computational and evolutionary molecular biology, computer science, economics, neuroscience, and physics. Grants of US\$50,000 for a two-year period are administered by each fellow’s institution. Once chosen, fellows are free to pursue whatever lines of inquiry most interest them, and they are permitted to employ fellowship funds in a wide variety of ways to further their research aims.

Following are the names and institutions of the 2010 awardees in mathematics: SPYROS ALEXAKIS, University of Toronto; OMER ANGEL, University of British Columbia; JASON BEHRSTOCK, Lehman College, City University of New York; JANET BEST, Ohio State University; ALEXANDER

BUFETOV, Rice University; MATTHEW DEVOS, Simon Fraser University; LARRY GUTH, University of Toronto; RADU LAZA, Stony Brook University; TYLER LAWSON, University of Minnesota; MAX LIEBLICH, University of Washington; SVITLANA MAYBORODA, Purdue University; ALEXEI OBLOMKOV, University of Massachusetts, Amherst; RAANAN SCHUL, Stony Brook University; AMIT SINGER, Princeton University; BALÁZS SZEGEDY, University of Toronto; JOEL A. TROPP, California Institute of Technology; MARK TYGERT, Courant Institute of Mathematical Sciences, New York University; MONICA VISAN, University of California Los Angeles; MARIA G. WESTDICKENBERG, Georgia Institute of Technology; and XIAOYI ZHANG, University of Iowa.

—From a Sloan Foundation announcement

Prizes of the Mathematical Society of Japan

The Mathematical Society of Japan (MSJ) has awarded several prizes for 2009. KENJI YAJIMA of Gakushuin University was awarded the 2009 Autumn Prize for his fundamental work on the boundedness of wave operators. His work on the L^p boundedness of wave operators for Schrödinger operators has had a tremendous impact on mathematical physics, operator theory, scattering theory, harmonic analysis, and nonlinear partial differential equations. The Autumn Prize is awarded to a member of the MSJ who has made exceptional contributions in his or her field of research.

TATSUO NISHITANI of Osaka University, HIROAKI AIKAWA of Hokkaido University, and TAKAYOSHI OGAWA of Tohoku University received Analysis Prizes. Nishitani was recognized for his contributions to the study of C^∞ well-posedness for the noneffectively hyperbolic operators and, in particular, his recent development of the C^∞ and of the Gevrey five-class well-posedness under the Levi condition and Gevrey three- or four-class well-posedness without it. Aikawa was honored for his contributions to the development of potential theory on nonsmooth domains and, in particular, for his work on characterizing geometric properties of domains in terms of behavior of harmonic functions and harmonic measures. Ogawa was recognized for his contributions to real analysis and its applications to nonlinear partial differential equations in critical function spaces and, in particular, for his end point estimates of the heat semigroup in the Hardy-Besov spaces.

KO HONDA of the University of Southern California and YOSHIKATA KIDA of Kyoto University were awarded Geometry Prizes. Honda was recognized for his fundamental work on the topology of contact structures in dimension three, in particular on the relations between tightness of contact structures and the possible monodromies of adapted open book decompositions. Kida was honored for his outstanding research on the rigidity for actions of the mapping class group of a compact orientable surface from the viewpoint of measure equivalence theory or that of orbit equivalence theory.

The Takebe Katahiro Prizes are awarded to young members of the MSJ who have obtained outstanding results, and the Takebe Katahiro Prize for Encouragement of Young Researchers is awarded to young members of the MSJ who are deemed to have begun promising careers in research by obtaining significant results. The 2009 Takebe Katahiro Prizes were awarded to RYOKI FUKUSHIMA of Kyoto University for his work on analysis of Brownian motion in random obstacles, to AKIHIRO SHIMOMURA of Tokyo Metropolitan University for his work on the scattering problem for nonlinear dispersive equations, and to HIROSHI IRITANI of Kyushu University for his research on Gromov-Witten invariants. The 2009 Takebe Katahiro Prizes for Encouragement of Young Researchers were awarded to: YOSHIHIRO SAWANO of Gakushuin University for his study of function spaces by real variable methods, HIRONOBU SASAKI of Chiba University for his study of inverse scattering for nonlinear dispersive equations with Yukawa type interaction, KOUICHI YASUI of Kyoto University for his research on handle decompositions of four-manifolds, NOBU KISHIMOTO of Kyoto University for his research on unique solvability of nonlinear dispersive equations and function spaces, HIDEYUKI MIURA of Osaka University for his work on mathematical analysis of nonlinear partial differential equations in fluid mechanics, and KOKORO TANAKA of Tokyo Gakugei University for his studies of surface knots and surface braids.

—From a Mathematical Society of Japan announcement

CMS Prizes Awarded

The Canadian Mathematical Society (CMS) has announced the awarding of several major prizes.

KAI BEHREND of the University of British Columbia has been named the recipient of the 2011 Jeffery-Williams Prize, which recognizes mathematicians who have made outstanding contributions to mathematical research. The award recognizes Behrend's contributions to the theory of algebraic stacks and the geometry of moduli spaces of stable maps, as well as his work on Gromov-Witten theory, Donaldson-Thomas theory, and the virtual fundamental class.

RACHEL KUSKE of the University of British Columbia has been awarded the 2011 Krieger-Nelson Prize, which recognizes outstanding research by a woman mathematician. According to the prize citation, she is "one of Canada's leading applied mathematicians and has also become an acknowledged expert and innovator in the field of mathematics education." The award recognizes her contributions to the study of ordinary, stochastic, and partial differential equation models for a wide range of applications, including neuroscience, mathematical biology, buckling under compression, mathematical finance, and hydraulic-fracture mechanics, as well as her work in the mathematics community as founder and co-chair of the mentor network of the Association for Women in

Mathematics and as a member of the editorial boards of several mathematical journals.

—From a CMS announcement

Hertz Foundation Fellowships Awarded

The Fannie and John Hertz Foundation has awarded Hertz Fellowships to fifteen students in the applied sciences and engineering for support of up to five years of graduate studies. The fellows were selected from a pool of nearly six hundred applicants. Four students in the mathematical sciences were chosen as fellows. They are DAVID LECOANET, University of Wisconsin, Madison; MARIA MONKS, Massachusetts Institute of Technology; JUSTIN SOLOMON, Stanford University; and JEFF WEBER, Willamette University. The fellowships provide up to US\$36,000 per year for graduate studies with no strings attached, allowing exceptional applied scientists and engineers the freedom to innovate.

—From a Hertz Foundation announcement

Prizes of the CRM

The Centre de Recherches Mathématiques (CRM) in Montreal, Canada, has awarded several prizes for 2010.

The 2009–2010 André Aisenstadt Prize has been awarded to OMER ANGEL of the University of British Columbia. The prize, consisting of C\$3,000 (approximately US\$3,000) and a medal, recognizes achievements in research by young Canadian mathematicians. According to the prize citation, “Angel, with Schramm, put the local study of random triangulations on firm ground by proving the existence of a limit object. Subsequently he showed how to sample such a uniform random triangulation, a tool which allowed him to determine the critical percolation probability and establish the widely held belief (among physicists) that a random metric on a manifold has Hausdorff dimension 4.” More recently, he, along with Holroyd, Romik, and Virag, “gave a very precise description of some of the statistics of a random sorting network, allowing them to make the remarkable conjecture that a typical short (random) path between objects on a lattice stays close to a geodesic (under the standard embedding).”

The CRM and the Statistical Society of Canada (SSC) have awarded the 2010 CRM-SSC Prize in Statistics to GRACE Y. YI of the University of Waterloo. According to the prize citation, “she has contributed in a significant way to the development of statistical methods for longitudinal studies and for the analysis of time-to-event data, especially for the treatment of missing observations and measurement errors. Her work on the asymptotic behavior of parametric and semiparametric inference techniques has also been influential in statistics and biostatistics.” The prize, which includes a cash award of C\$3,000 (approximately US\$3,000), is given to a Canadian citizen or a

permanent resident of Canada whose research was carried out primarily in Canada.

—From a CRM announcement

Leitgeb Awarded Humboldt Professorship

HANNES LEITGEB of the University of Bristol, United Kingdom, has been awarded an Alexander von Humboldt Professorship for 2010 by the Alexander von Humboldt Foundation. According to the prize citation, Leitgeb is “one of the world’s leading academics working at the interface of logic, mathematics, and cognitive science. His numerous innovative achievements include his work on artificial neural networks. This is where Leitgeb closes the interdisciplinary gap between research into artificial intelligence and brain research. In Munich Leitgeb will build up a new center of mathematical philosophy, which will cooperate closely with neurophilosophy and neuroscience.”

The Alexander von Humboldt Professorship honors researchers from outside of Germany who are internationally recognized leaders in their fields and allows them to spend five years conducting research at German universities. The award is valued at up to five million euros (approximately US\$6.7 million) and is endowed by the Federal Ministry of Education and Research.

—From a Humboldt Foundation announcement

Tygart Receives NAS Award

MARK TYGERT of the Courant Institute of Mathematical Sciences, New York University, has received the 2010 NAS Award for Initiatives in Research of the National Academy of Sciences (NAS). He was honored for his “development of fast algorithms in mathematical physics, operator compression, and linear algebra, using deep, innovative ideas based on randomization and harmonic analysis.” The award, which carries a cash prize of US\$15,000, recognizes innovative young scientists and encourages research likely to lead toward new capabilities for human benefit.

—From an NAS announcement

Nesterov and Ye Awarded John von Neumann Theory Prize

The 2009 John von Neumann Theory Prize, the highest prize given in the field of operations research and management science, has been awarded to YURI NESTEROV of the Center for Operations Research and Econometrics, Université Catholique de Louvain, and YINYU YE of Stanford University. According to the prize citation, Nesterov

“is the world’s leading authority on the efficiency of algorithms for continuous optimization.” Ye “has been at the forefront of research on interior-point methods and applications of conic optimization for over twenty years.” The award, which is presented by the Institute for Operations Research and the Management Sciences (INFORMS), carries a cash prize of US\$5,000.

—From an INFORMS announcement

Rollo Davidson Prizes Awarded

The Rollo Davidson Trust has awarded the 2010 Rollo Davidson Prizes to GADY KOZMA of the Weizmann Institute for his work in probability and Fourier analysis and to SOURAV CHATTERJEE of the Courant Institute of Mathematical Sciences, New York University, for his work on Stein’s method, spin glasses, and concentration of measure.

The Rollo Davidson Trust was founded in 1975 and awards an annual prize to young mathematicians working in the field of probability.

—Elaine Kehoe

Putnam Prizes Awarded

The winners of the seventieth William Lowell Putnam Mathematical Competition have been announced. The Putnam Competition is administered by the Mathematical Association of America (MAA) 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: WILLIAM A. JOHNSON, University of Washington, Seattle; XIAOSHENG MU, Yale University; QINGCHUN REN, Massachusetts Institute of Technology; ARNAV TRIPATHY, Harvard University; and YUFEI ZHAO, Massachusetts Institute of Technology. Each received a cash award of US\$2,500.

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: Massachusetts Institute of Technology (Qingchun Ren, Bohua Zhan, Yufei Zhao); Harvard University (Iurie Boreico, Arnav Tripathy, Alex Zhai); California Institute of Technology (Jason C. Bland, Sam Elder, Gjergji Zaimi); Stanford University (Young Hun Jung, Seok Hyeong Lee, Jeffrey Wang); and Princeton University (Peter Z. Diao, Adam C. Hesterberg, John V. Pardon).

The first-place team receives an award of US\$25,000, and each member of the team receives US\$1,000. The awards for second place are US\$20,000 and US\$800; for third place, US\$15,000 and US\$600; for fourth place,

US\$10,000 and US\$400; and for fifth place, US\$5,000 and US\$200.

—From a Putnam announcement

Guggenheim Fellowships Awarded

The John Simon Guggenheim Memorial Foundation has announced the names of 180 artists, scholars, and scientists from the United States, Canada, and the United Kingdom who were selected as Guggenheim Fellows for 2010. Guggenheim Fellows are appointed on the basis of distinguished achievement in the past and exceptional promise for future accomplishment. The mathematicians selected to receive the 2010 fellowships are INGRID DAUBECHIES, Princeton University; TOMASZ MROWKA, Massachusetts Institute of Technology; and JOHN WETTLAUER, Yale University.

—From a Guggenheim Foundation news release

Intel Science Talent Search Winners Announced

Three students whose work involves the mathematical sciences have received scholarship awards in the 2010 Intel Science Talent Search. AKHIL MATHEW, an eighteen-year-old student from Madison, New Jersey, was awarded third place and a US\$50,000 scholarship for his project on Deligne categories, a setting for studying a wide range of algebraic structures with ties to theoretical physics. KATHERINE RUDOLPH, an eighteen-year-old student from Naperville, Illinois, won the eighth-place award and a US\$20,000 scholarship for her project that investigated dense packing of identical spheres, the results of which can be used in fields from chemistry to cryptology. YALE FAN, an eighteen-year-old student from Beaverton, Oregon, was awarded ninth place and a US\$20,000 scholarship for his research that demonstrated the advantages of quantum computing in performing difficult computations.

—From an Intel Corporation announcement

NSF Graduate Research Fellowships Announced

The National Science Foundation (NSF) has awarded a number of Graduate Research Fellowships for fiscal year 2010. Further awards may be announced later in the year. This program supports students pursuing doctoral study in all areas of science and engineering and provides a stipend of US\$30,000 per year for a maximum of three years of full-time graduate study. Following are the names of the awardees in the mathematical sciences selected so

far in 2010, followed by their undergraduate institutions (in parentheses) and the institutions at which they plan to pursue graduate work.

ZACHARY ABEL (Harvard University), Massachusetts Institute of Technology; WILLIAM C. ABRAM (University of Chicago), University of Michigan, Ann Arbor; TIMOTHY M. ADAMO (University of Oxford), University of Oxford; NIKHYL B. ARAGAM (University of California Los Angeles), University of California Los Angeles; REBECCA BELLOVIN (Stanford University), Stanford University; NATE BOTTMAN (University of Washington), Harvard University; GEORGE A. BOXER (Princeton University), Harvard University; NICHOLAS D. BRUBAKER (University of Delaware), University of Delaware; ALHAJI CHERIF (Cornell University), Arizona State University; SARAH CONSTANTIN (Princeton University), Yale University; IAIN J. CRUICKSHANK (United States Military Academy), University of Chicago; DAMEK S. DAVIS (University of California Irvine), University of California San Diego; KEVIN A. DEL BENE (Rensselaer Polytechnic Institute), Rensselaer Polytechnic Institute; PETER Z. DIAO (Princeton University), Stanford University; ALEXANDER P. ELLIS (Columbia University), Columbia University; MAX ENGELSTEIN (Yale University), Stanford University; CLAUDIA FALCON (University of North Carolina, Chapel Hill), University of North Carolina, Chapel Hill; IORDAN V. GANEV (Miami University), University of Chicago; EVAN S. GAWLIK (California Institute of Technology), Princeton University; JESSE T. GENESON (Harvard University), University of California Berkeley; SEAN P. HOWE (University of Arizona), Massachusetts Institute of Technology; NATHAN KALLUS (University of California Berkeley), Massachusetts Institute of Technology; ADAM D. KAPELNER (University of Pennsylvania), University of Pennsylvania; RACHEL KARPMAN (Scripps College), University of Michigan, Ann Arbor; ERIN M. KILEY (Worcester Polytechnic Institute), Worcester Polytechnic Institute; JEFFREY KUAN (California Institute of Technology), Princeton University; JACLYN A. LANG (University of Cambridge, Churchill College), University of California Los Angeles; JASON D. LEE (Duke University), Stanford University; JOHN D. LESIEUTRE (Massachusetts Institute of Technology), Massachusetts Institute of Technology; YINGKUN LI (University of California Los Angeles), University of California Los Angeles; TOVA LINDBERG (Bethany Lutheran College), Washington University; DANIEL A. LITT (Harvard University), Princeton University; MILES E. LOPES (University of California Berkeley), University of California Berkeley; ZACHARY A. MADDOCK (Columbia University), Columbia University; SUSAN C. MASSEY (University of Washington), University of Washington; TALEA L. MAYO (University of Texas, Austin), University of Texas, Austin; SHIRA A. MITCHELL (Harvard University), Harvard University; MARIA MONKS (Massachusetts Institute of Technology), University of California Berkeley; RALPH E. MORRISON (Williams College), University of Wisconsin, Madison; SAMUEL R. NOLEN (Vanderbilt University), Cornell University; MATTHEW PAFF (Cornell University), Stanford University; HEATHER S. PALMERI (Rensselaer Polytechnic Institute), Rensselaer Polytechnic Institute; GINA-MARIA POMANN (North Carolina State University), North Carolina State University; AARON H. POTECHIN (Cambridge

University), Massachusetts Institute of Technology; ERIC RIEDL (University of Notre Dame), Harvard University; DOUGLAS P. RIZZOLO (University of California Berkeley), University of California Berkeley; STEPHANIE SAPP (University of California Berkeley), University of California Berkeley; BRANDON M. SEWARD (University of Michigan), University of Michigan, Ann Arbor; DANIEL SHAPERO (McGill University), New York University; JOHN M. SILBERHOLZ (University of Maryland), Massachusetts Institute of Technology; LAURA P. STARKSTON (Harvard University), Columbia University; NIKE SUN (Cambridge University), Stanford University; YI SUN (Harvard University), Massachusetts Institute of Technology; HIROAKI TANAKA (Northwestern University), Northwestern University; ELIZABETH K. TULEY (University of Maryland), Princeton University; MADELEINE R. UDELL (Stanford University), Stanford University; ANIL B. VENKATESH (Duke University), Duke University; ROBIN S. WALTERS (Harvard University), University of Chicago; JOHN S. WILMES (Reed College), University of Chicago; JED C. YANG (University of California Los Angeles), University of California Los Angeles; MELISSA L. YEUNG (University of Chicago), Columbia University; and JOSHUA N. ZAHL (University of California Los Angeles), University of California Los Angeles.

—From an NSF announcement

American Academy Elections

Fifteen mathematical scientists have been elected to membership in the American Academy of Arts and Sciences. They are: ANDREA L. BERTOZZI, University of California Los Angeles; PETER CONSTANTIN, University of Chicago; MARK L. GREEN, University of California Los Angeles; JOSEPH B. KADANE, Carnegie Mellon University; ROBERT KOTTWITZ, University of Chicago; ANDREW J. MAJDA, Courant Institute of Mathematical Sciences, New York University; GRIGORI MINTS, Stanford University; FREYDOON SHAHIDI, Purdue University; JALAL SHATAH, Courant Institute of Mathematical Sciences, New York University; MADHU SUDAN, Massachusetts Institute of Technology and Microsoft Research New England; MOSHE Y. VARDI, Rice University; MARY F. WHEELER, University of Texas, Austin; and MACIEJ R. ZWORSKI, University of California Berkeley. Elected as foreign honorary members were DAVID SCHMEIDLER, Tel Aviv University, and ERNEST B. VINBERG, Moscow State University.

The American Academy of Arts and Sciences was founded in 1780 to foster the development of knowledge as a means of promoting the public interest and social progress. The membership of the academy is elected and represents distinction and achievement in a range of intellectual disciplines—mathematical and physical sciences, biological sciences, social arts and sciences, and humanities and fine arts.

—From an AAAS announcement