

---

# Mathematics People

## McCallum and Ono Named Distinguished Teaching Scholars

WILLIAM MCCALLUM of the University of Arizona and KEN ONO of the University of Wisconsin are among seven recipients of the Director's Award for Distinguished Teaching Scholars given by the National Science Foundation (NSF).

McCallum's work is in number theory and arithmetic algebraic geometry. According to the prize citation, he has been "a leader in the calculus reform movement that has transformed calculus teaching across the country" and helped to found the Arizona Winter School on Arithmetic Algebraic Geometry. The prize citation for Ono states that his work has resulted in many new results in modular forms and elliptic curves.

The Distinguished Teaching Scholars awards are given to scientists and engineers who are outstanding educators and mentors as well as researchers. The award carries a prize of about US\$300,000 over four years.

—From an NSF announcement

## PECASE Awards Announced

Fifty-eight young researchers were chosen to receive the 2004 Presidential Early Career Awards for Scientists and Engineers (PECASE). This award is the highest honor bestowed by the U.S. government on outstanding young scientists, mathematicians, and engineers who are in the early stages of establishing their independent research careers.

FRANK L. H. BROWN of the University of California, Santa Barbara, was selected for his work in developing new computational algorithms to investigate cellular phenomena.

The recipients were selected from nominations made by eight participating federal agencies. Each awardee receives a five-year grant ranging from US\$400,000 to nearly US\$1 million to further his or her research and educational efforts.

—From an NSF announcement

## Stuart and Dafermos Win Adams Prize

DAVID STUART and MICHAEL DAFERMOS of the University of Cambridge have been awarded the joint Adams Prize for 2005 by the University of Cambridge. The selected topic for the prize was differential equations.

The Adams Prize is awarded each year by the Faculty of Mathematics and St. John's College of the University of Cambridge to a young researcher based in the United Kingdom who is doing first-class international research in the mathematical sciences. The prize is named after the mathematician John Couch Adams and was endowed by members of St. John's College. It is currently worth £\$15,000 (approximately US\$26,000), of which one-third is awarded to the prizewinner on announcement of the prize; one-third is provided to the prizewinner's institution (for research expenses of the prizewinner); and one-third is awarded to the prizewinner on acceptance for publication in an internationally recognized journal of a substantial (normally at least twenty-five printed pages) original survey article of which the prizewinner is an author.

—From a University of Cambridge announcement

## LMS Prizes Awarded

The London Mathematical Society (LMS) has awarded a number of prizes for 2005.

SIR MICHAEL BERRY of the University of Bristol was awarded the Pólya Prize in recognition of his fundamental contributions in many areas of mathematics and mathematical physics, including optics, wave theory, quantum chaos, quantum mechanics and the Berry phase, asymptotics, and the distribution of the zeros of the Riemann zeta function.

KEITH MOFFATT of the University of Cambridge was awarded the Senior Whitehead Prize for his contributions to applied mathematics, particularly in the field of theoretical fluid mechanics, as well as for his substantial influence on and service to the mathematics community of the United Kingdom.

IAIN GORDON of Glasgow University was awarded the Berwick Prize for a paper titled "Baby Verma modules for rational Cherednik algebras", which was published in the *Bulletin of the London Mathematical Society*. The paper is a powerful contribution to the theory of symplectic reflection algebras, made by adapting techniques fundamental to the representation theory of Lie algebras in positive characteristic.

Four Whitehead Prizes were awarded. BEN GREEN of the University of Bristol was honored for breakthrough results in combinatorics and combinatorial number theory. BERND KIRCHHEIM of the University of Oxford was chosen for his fundamental work in several areas of real analysis. NEIL STRICKLAND of the University of Sheffield was selected for his contributions to algebraic topology. PETER TOPPING of the University of Warwick was honored for his work on non-linear partial differential equations in geometric analysis.

—From an LMS announcement

## Royal Society of Canada Elections

Two mathematical scientists have been elected fellows of the Royal Society of Canada for 2005. They are DAVID M. R. JACKSON of the University of Waterloo and the late ALBERTO O. MENDELZON of the University of Toronto.

—From a Royal Society of Canada announcement

## AMERICAN MATHEMATICAL SOCIETY

### New Titles from Hindustan Book Agency

The AMS is distributing these new monographs published by Hindustan Book Agency (New Delhi).



#### An Expedition to Geometry

S. Kumaresan, *University of Mumbai, India*, and G. Santhanam, *Indian Institute of Technology, Kanpur, India*

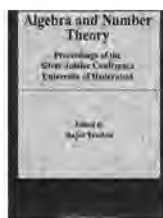
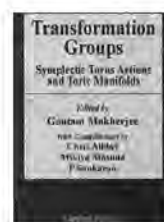
Hindustan Book Agency\*; 2005; 242 pages; Hardcover; ISBN 81-85931-50-X; List US\$38; All AMS members US\$30; Order code HIN/21

#### Transformation Groups

Symplectic Torus Actions and Toric Manifolds

Goutam Mukherjee, *Indian Statistical Institute, Calcutta, India*

Hindustan Book Agency\*; 2005; 140 pages; Hardcover; ISBN 81-85931-54-2; List US\$40; All AMS members US\$32; Order code HIN/22



#### Algebra and Number Theory

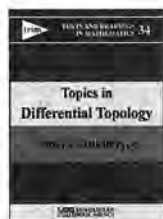
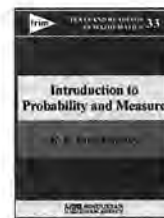
Rajat Tandon, *University of Hyderabad, India*, Editor

Hindustan Book Agency\*; 2005; 414 pages; Hardcover; ISBN 81-85931-57-7; List US\$66; All AMS members US\$53; Order code HIN/23

#### Introduction to Probability and Measure

K. R. Parthasarathy, *Indian Statistical Institute, New Delhi, India*

Hindustan Book Agency\*; 2005; 354 pages; Softcover; ISBN 81-85931-55-0; List US\$36; All AMS members US\$29; Order code HIN/24



#### Topics of Differential Topology

Amiya Mukherjee, *Indian Statistical Institute, Calcutta, India*

Hindustan Book Agency\*; 2005; 454 pages; Hardcover; ISBN 81-85931-56-9; List US\$48; All AMS members US\$38; Order code HIN/25

\*A publication of Hindustan Book Agency. Distributed on an exclusive basis by the AMS in North America. Online bookstore rights worldwide.



For more information and other publications of interest, visit the AMS Bookstore.

[www.ams.org/bookstore](http://www.ams.org/bookstore)