
Mathematics People

Third World Academy of Sciences Prizes Awarded

The 2003 Third World Academy of Sciences (TWAS) awards have been presented to WELLINGTON CELSO DE MELO of the Instituto de Matemática Pura e Aplicada (IMPA), Brazil, who received the mathematics prize for outstanding contributions to the description of the topological structure of one-dimensional dynamics; and to RODOLFO GAMBINI of the Instituto de Física, Uruguay, who received the physics prize for contributions to the nonperturbative quantization of gauge theories and canonical quantum gravity.

The TWAS annually awards five prizes of \$10,000 each to scientists from developing countries who have made outstanding contributions to the advancement of basic sciences: biology, chemistry, mathematics, physics, and basic medical sciences.

—TWAS announcement

Ambrosio Wins Fermat Prize

The 2003 Fermat Prize for Mathematics Research has been awarded to LUIGI AMBROSIO of Scuola Normale Superiore for his contributions to the calculus of variations and geometric measure theory and their relations with partial differential equations.

The Fermat Prize is presented every two years and carries a monetary award of 15,000 euros (approximately US\$12,700). The prize rewards the research work of one or more mathematicians in fields where the contributions of Pierre de Fermat have been decisive: statements of variational principles, foundations of probability and analytical geometry, and number theory. The award is administered by the Université Paul Sabatier and sponsored by Astrium Sas.

Previous recipients of the Fermat Prize are: Abbas Bahri and Kenneth A. Ribet (1989), Jean-Louis Colliot-Thélène

(1991), Jean-Michel Coron (1993), Andrew J. Wiles (1995), Michel Talagrand (1997), F. Bethuel and F. Hélein (1999), and Richard Taylor and Wendelin Werner (2001).

—Elaine Kehoe

Hamilton and Tao Receive Clay Awards

The Clay Mathematics Institute (CMI) has presented its Clay Research Awards for 2003 to RICHARD HAMILTON, Columbia University, and TERENCE TAO, University of California, Los Angeles. According to the prize citations, Hamilton was recognized “for his introduction of the Ricci flow equation and his development of it into one of the most powerful tools in geometry and topology.” Tao was honored “for his groundbreaking work in analysis,” including optimal restriction theorems in Fourier analysis, work on the wave map equation, and global existence theorems for KdV-type equations. The awards were presented on November 14, 2003, in Cambridge, Massachusetts.

—From a CMI announcement

AAAS Fellows Elected

Five mathematicians have been elected as Fellows of the Mathematics Section of the American Association for the Advancement of Science. The new fellows are DONALD LUDWIG, University of British Columbia; DAVID W. McLAUGHLIN, New York University; MAXINE L. ROCKOFF, New York Academy of Medicine; ANNIE SELDEN, New Mexico State University, Las Cruces; and VICTOR L. SHAPIRO, University of California, Riverside.

—From an AAAS announcement