

2005 SIAM Prizes

AWM-SIAM Sonia Kovalevsky Lecture

Ingrid Daubechies, Princeton University

I.E. Block Community Lecture

Christopher R. Johnson, University of Utah

Ralph E. Kleinman Prize

Stanley J. Osher, University of California, Los Angeles

SIAM Award in the Mathematical Contest in Modeling

The Continuous Problem, "Flood Planning":

Clay Hambrick, *Katrina Lewis*, and *Lorraine Thomas*, Harvey Mudd College

The Discrete Problem, "Toll Booths":

John A. Evans and *Meral L. Reyhan*, Rensselaer Polytechnic University

W.T. and Idalia Reid Prize

Christopher I. Byrnes, Washington University in St. Louis

SIAM Activity Group on Control and Systems Theory Prize

Pablo A. Parrilo, Massachusetts Institute of Technology

SIAM Outstanding Paper Prizes

Adrian Lewis, Cornell University

Karen Braman, South Dakota School of Mines and Technology; *Ralph Byers*, University of Kansas; *Roy Mathias*, College of William & Mary

Uriel Feige, Weizmann Institute of Science; *Robert Krauthgamer*, IBM Almaden Research Center

SIAM Prize for Distinguished Service to the Profession

Cleve Moler, The MathWorks, Inc.

Student Paper Prizes

Boyce E. Griffith, Courant Institute of Mathematical Sciences, New York University

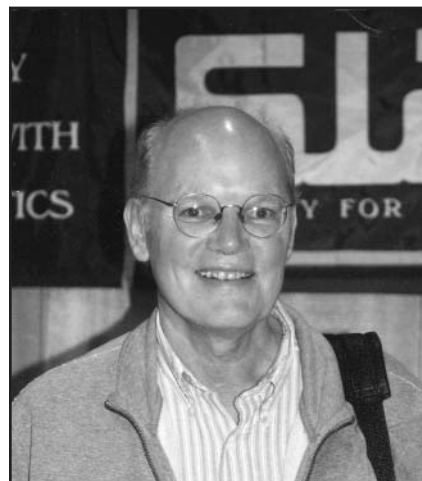
Rachel Levy, North Carolina State University
Carolina Cardoso Manica, University of Pittsburgh

The John von Neumann Lecture

Jerrold E. Marsden, California Institute of Technology

James H. Wilkinson Prize in Numerical Analysis and Scientific Computing

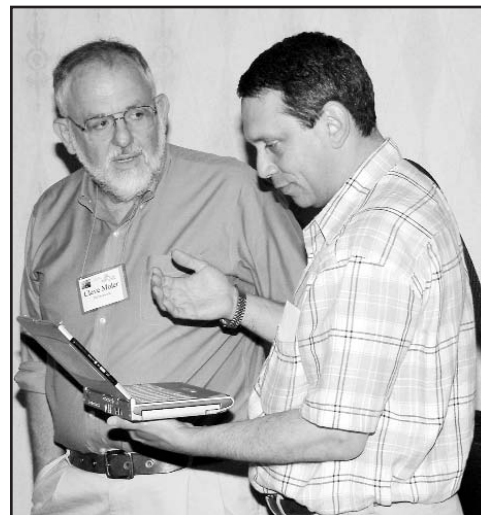
Emmanuel Candès, California Institute of Technology



John von Neumann lecturer Jerrold Marsden of Caltech gave his talk, "Geometric and Computational Dynamics" before an appreciative audience drawn from both the SIAM Annual Meeting and the accompanying Sixth SIAM Conference on Control and its Applications. The committee for the prize (which takes the form of an honorarium for the lecture), recognized Marsden for "his fundamental contributions to geometric mechanics based on symmetry; the broad application of these ideas to fluid mechanics, elasticity, and control theory; the clear exposition of these ideas through seminal research publications and text books; and for his training and mentoring of scientific researchers."



Tim Kelley of North Carolina State University and Lisa Fauci of Tulane University, co-chairs of the organizing committee for the 2005 SIAM Annual Meeting, catch up at the Community Reception following Chris Johnson's lecture. Other members of the organizing committee were Marco Avellaneda, Courant Institute of Mathematical Sciences, New York University; Ilse Ipsen, North Carolina State University; Randall LeVeque, University of Washington; Ekkehard Sachs, Universität Trier, Germany; Jeffrey Saltzman, Merck & Co., Inc.; Arthur Sherman, NIDDK, National Institutes of Health; and Carol Woodward, Lawrence Livermore National Laboratory.



Cleve Moler (left), shown here in New Orleans with IMA director Doug Arnold, is the seventh recipient of the SIAM Prize for Distinguished Service to the Profession. The prize committee selected Moler "in recognition of his lifelong support of computational and applied mathematics through his development of high-quality mathematical algorithms and software (LINPACK, EISPACK, and MATLAB) and its distribution into mainstream use in education and numerous science and engineering areas; through his 18 years of community service with NA Digest; and through his extensive service on national committees and to SIAM."