

FOR IMMEDIATE RELEASE: DATE

For additional information, please contact:
Aileen McElroy, mcelroy@siam.org 215.382.9800 x383
Society for Industrial and Applied Mathematics
3600 University City Science Center
Philadelphia, PA 19104-2688 USA
www.siam.org

Dr. Jerrold E. Marsden Selected Speaker for The John von Neumann Lecture at SIAM Annual Meeting in New Orleans

Jerrold E. Marsden was selected as this year's John von Neumann lecturer at the Society for Industrial and Applied Mathematics (SIAM) Annual Meeting in New Orleans, July 11–15, 2005. This prize, established in 1959, is in the form of an honorarium for an invited lecture. The lecture includes a survey and evaluation of a significant and useful contribution to mathematics and its applications. It may be awarded to a mathematician or a scientist in another field, but, in either case, the recipient should be one who has made distinguished contributions to pure and/or applied mathematics.

Caltech Professor Jerrold Marsden was chosen lecturer in recognition of his fundamental contributions to geometric mechanics based on symmetry. He has applied these ideas broadly to the fields of fluid mechanics, elasticity, and control theory. He has also clearly exposed these ideas through seminal research publications and text books. He is also noted for his extensive training and mentoring of scientific researchers. Professor Marsden's lecture was titled "Geometric and Computational Dynamics."

Dr. Marsden received his BSc from University of Toronto and his PhD from Princeton, both in Applied Mathematics. He taught at the University of California, Berkeley from 1968 through 1995 in the Departments of Mathematics and Electrical Engineering and Computer Science. He then moved to California Institute of Technology as Professor of Control and Dynamical Systems. Since 2003, he has been Carl F. Braun Professor of Engineering and Control and Dynamical Systems at Caltech. Dr. Marsden has done extensive research in the area of geometric mechanics, with applications to rigid body systems, fluid mechanics, elasticity theory, plasma physics, as well as to general field theory. He is one of the original founders in the early 1970s of

(MORE)

reduction theory for mechanical systems with symmetry.

Dr. Marsden received the 1990 AMS-SIAM Norbert Wiener Prize. He has received the Research Award for Natural Sciences of the Alexander von Humboldt Foundation and the Max Planck Research Award for Mathematics and Computer Science. His interests continue in mechanics and dynamical systems, systems with symmetry, control of mechanical systems, classical field theory including fluids and elasticity, computational mechanics, variational integrators and discrete mechanics. His continuing work involves the application of control theory and dynamical systems to space missions.

The Society for Industrial and Applied Mathematics (SIAM) was founded in 1952 to support and encourage the important industrial role that applied mathematics and computational science play in advancing science and technology. Along with publishing top-rated journals, books, and a monthly periodical, *SIAM News*, SIAM holds about 12 conferences per year. There are also currently 37 SIAM Student Chapters and 15 SIAM Activity Groups.

SIAM's 2005 Annual Meeting themes included Control, Biological Modeling, Dynamics of Interfaces, Finance, Large-Scale Simulation, and Linear Algebra.

For complete details, go to <http://www.siam.org/meetings/an05/index.htm>.

###