

Robert H. Swendsen

Education

Yale University, B.S. - Physics (1964)

University of Pennsylvania, Ph.D. - Physics (1971)

Professional Experience

Postdoctoral Fellow, University of Cologne, Germany (7/71-12/73)

Institute für Festkörperforschung, Kernforschungsanlage Jülich, Germany (1/74-9/76)

Physics Department, Brookhaven National Lab (10/76-10/79)

IBM Research Laboratory Zurich, Switzerland (11/79-4/84)

Adjunct Professor, The Center for Simulational Physics, University of Georgia (1982–present)

Professor of Physics, Carnegie-Mellon University (5/84-present)

Associate Dean for Faculty and Graduate Affairs, Mellon College of Science, Carnegie-Mellon University, (1/93-6/94)

Head, Department of Physics, Carnegie-Mellon University (6/94-11/99)

Visiting Adjunct Professor of Computational and Systems Biology, School of Medicine, Department of Computational and Systems Biology, University of Pittsburgh (10/2012–7/2015)

Affiliations

Fellow, American Physical Society (1984)

Fellow, American Association for the Advancement of Science (1994)

Member, Society for Industrial and Applied Mathematics

Member, American Association of Physics Teachers

Professional Activities

Member, Condensed Matter Theory Panel for the Division of Materials, Sciences, Dept. of Energy. Report on “Future Trends in Condensed Matter Theory and the Role and Support of Computation.” (September 1981)

Co-organizer: Les Houches Winter Workshop on “Two-dimensional Problems in Condensed Matter Physics.” (February 1983)

Organizer: IBM Europe Institute on “Numerical Simulation in Physical Research.” (July 1983)

Co-organizer: Seventh Gwatt Workshop on “Surfaces and Interfaces.” (October 1983)

Member: Organizational Committee for the 31st Annual Conference on Magnetism and Magnetic Materials (1986)

Member: Joint Peer Review Board for the Pittsburgh and Illinois Supercomputer Centers. (1986-90)

Organizer: Physics Computing '93, Albuquerque, NM, May 31 – June 4, 1993

Chair: Division of Computational Physics of the American Physical Society (1993)

Member: Blue Ribbon Panel to review the Accelerated Strategic Computing Initiative (ASCI) for the DoE, December 1998 - February 1999

Member of the Advisory Board, The RealityGrid, Great Britain (2001-2005)

Awards

1982: IBM Outstanding Achievement Award for “Applications of the Monte Carlo Renormalization Group Method”

1991: Forefronts of Large-Scale Computational Problems Award for “Molecular Dynamics Studies of DNA Structure” with Shankar Kumar, John M. Rosenberg, and Peter A. Kollman

2014: Aneesur Rahman Prize for Computational Physics from the American Physical Society

2014: Julius Ashkin Teaching Award in the Mellon College of Science at Carnegie Mellon University