CURRICULUM VITAE

STEPHEN GAROFF

Business Address

Department of Physics Carnegie Mellon University Pittsburgh, PA, 15213

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Professional Experience

2021-present

Professor Emeritus

Department of Physics, Carnegie Mellon University, Pittsburgh, PA (Courtesy Professor of Chemical Engineering and

1988-2021

Professor

Department of Physics, Carnegie Mellon University, Pittsburgh, PA

(Courtesy Professor of Chemical Engineering and

Courtesy Professor of Material Science and Engineering)

Primary areas of research:

- -wetting and spreading of fluids on simple and heterogeneous surfaces
- -interfacial structure of simple and complex fluids
- -electrophoresis of complex particles
- -microscopic origins of friction
- -pulmonary aerosol drug delivery

2013-2017

Head, Department of Physics, Carnegie Mellon University 1994-1999, 2007- 2012

Associate Head, Department of Physics, Carnegie Mellon University 1986-1988

Research Scientist

Schlumberger-Doll Research, Ridgefield, CT

Primary areas of research:

- -wetting and spreading of fluids on simple and heterogeneous surfaces
- -interfacial structure of simple and complex fluids

1977-1986

Research Scientist

Exxon Research and Engineering Company, Annandale, NJ

Primary areas of research:

- -optical probes of finely dispersed materials, thin films, carbonaceous materials, and interfacial regions
- -electrodynamics of rough metal surfaces
- -fluorescent solar collectors
- -molecular structure of organic monolayers
- -microscopic origins of wetting, and friction at organic surfaces

1973-1977

Research Assistant

Harvard University, Cambridge, MA

Areas of research:

-structure, optical properties, and phase transitions of liquid crystals

1974-1975

Teaching Assistant

Harvard University

Education

Ph.D. Applied Physics, 1977

Harvard University, Cambridge, MA

Thesis Title: Ferroelectric Liquid Crystals

Advisor: Robert B. Meyer

S.M. Applied Physics, 1974

Harvard University

B.S. Physics, 1972

Yale University, New Haven, CT

Awards

Mellon College of Science Richard Moore Teaching Award, 2018

Carnegie Mellon University Academic Advising Award, 2002

Elected Fellow, American Physical Society, 1998

Harvard University:

Xerox Corporation Fellowship, 1975-1976

Yale University:

Phi Beta Kappa

Graduated magna cum laude with honors in Physics

<u>Memberships</u>

American Physical Society

American Chemical Society

Selected Conference Organizing and Professional Activities

Program Committee--American Chemical Society Symposium on Photoprocesses at Solid Surfaces, March, 1983

Organizing Committee--International Symposium on Complex and Supermolecular Fluids, June, 1985

Panel Member--Department of Energy Materials Science Panel on Organic Thin Films, September, 1986

Chairman--Gordon Conference on Organic Thin Films, February, 1988

Panel Member--Department of Energy Materials Science Panel on The Liquid-Solid Interface and Its Role in Ceramic Processing, September, 1988

Program Committee--47th Annual Pittsburgh Diffraction Conference, November, 1989 Organizing Committee--Pennsylvania Summer Surface Science Workshop, August, 1989 and August 1991

- Panel Member--Workshop on Interfacial Phenomena and Rheology of Fluid Dispersions sponsored by NSF and U.S. Bureau of Engraving and Printing, January 1991
- Panel Member -- NSF/SBIR Proposal Review, 1992, 1993
- Organizer -- Future Scientists Day at March Meeting of the American Physical Society, March 1994.
- Co-Founder -- Pittsburgh Public School/Carnegie Mellon Outreach Program for Mentoring in Science
- Panel Member -- NSF Young Investigator Proposal Review, 2000
- Co-Chair -- 2001 American Chemical Society Colloid and Surface Science Symposium
- Member -- Microgravity Science and Applications Council, Universities Space Research Association, 2002-2005
- Member Symposium Committee, Colloid and Surface Science Division, American Chemical Society, 2008-2010.
- Participant NSF workshop on the Science and Technology of Dispersants Relevant to Deep Sea Floor Oil Releases, 2010.
- Organizer, Symposium on Wetting, American Chemical Society, Colloid and Surface Science Symposium, Johns Hopkins, June 2013
- Co-Chair -- 2015 American Chemical Society Colloid and Surface Science Symposium Member – Scientific Advisory Board for the Max Planck Institute for Polymer Research (2017-present)
- Co-Organizer and Co-Chair Workshop: Physics to Pharma: using surfactant driven flows to improve inhaled therapies a translational workshop 2019
- Member DFG Panel on Dynamic wetting of flexible, adaptive and switchable surfaces 2019
- Organizer Session at American Chemical Society National Meeting, spring 2024