

CURRICULUM VITAE - SAMUEL KRIMM

PERSONAL

Born: October 19, 1925, Morristown, New Jersey
United States Navy: Aviation Electronics Technicians Mate 1944-46
Married: Marilyn Marcy Neveloff, June 26, 1949
Children: David Robert, October 12, 1953; Daniel Joseph, July 17, 1955

EDUCATION

B.S. Chemistry, summa cum laude, Polytechnic Institute of Brooklyn 1947
M.S. Physical Chemistry, Princeton University 1949
Ph.D. Physical Chemistry, Princeton University 1950

PROFESSIONAL EXPERIENCE: UNIVERSITY OF MICHIGAN

College of Literature, Science, and the Arts: Department of Physics

Postdoctoral Fellow 1950-52
Instructor 1952-54
Assistant Professor 1954-58
Associate Professor 1958-63
Professor 1963-01
Professor Emeritus 2001-

College of Literature, Science, and the Arts: Administration

Associate Dean for Research and Facilities 1972-75

College of Engineering

Professor of Macromolecular Science and Engineering 1992-01

Horace H. Rackham School of Graduate Studies

Director, Biophysics Research Center 1958-62
Chairman, Graduate Program in Biophysics 1976-86

Institute of Science and Technology

Research Scientist, Biophysics Research Division 1963-01
Chairman, Biophysics Research Division 1976-86

Member, Macromolecular (Research)(Science & Engineering) Center 1968-01

Office of the Vice-President for Research

Director, Program in Protein Structure and Design 1985-94

PROFESSIONAL EXPERIENCE: OTHER

Postdoctoral Fellow, Laboratory of Molecular Biology, Cambridge, England 1962-63
 Visiting Scientist, Weizmann Institute, Israel 1970
 Visiting Scientist, University of Mainz, West Germany 1983
 Visiting Professor, University of Paris, France 1991

HONORS

Phi Lambda Upsilon 1944
 Sigma Xi 1944
 Textile Research Institute Fellowship, Princeton 1947-50
 NSF Senior Postdoctoral Fellow 1962-63
 Senior Fellow, University of Michigan Society of Fellows 1971-76
 American Physical Society High Polymer Physics Prize 1977
 Who's Who in America 1978
 Humboldt Prize 1983
 IBM Almaden Research Center Lecturer in Polymer Science 1986
 Distinguished Faculty Achievement Award, University of Michigan 1986
 Fraser Price Memorial Lecturer 1988
 French Government Invited Professorship, University of Paris 1991
 Institute of Materials Science, Univ. of Conn., Distinguished Lecturer 1995
 Honorary Member, Coblenz Society 1996
 Who's Who in the World 2006
 Annual Samuel Krimm Lecture in Biophysics, University of Michigan 2009
 Polytechnic Institute Distinguished Alumnus Award 2011

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science (Fellow, 1984)
 American Chemical Society
 American Crystallographic Association
 American Physical Society (Fellow, 1959)
 Biophysical Society

POSITIONS IN PROFESSIONAL ORGANIZATIONS

American Physical Society

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| Executive Committee | 1983 |
| Council | 1981-84 |
| Nominations Committee | 1981-83 |
| Task Force on APS Prizes, Chairman | 1984 |
| Planning Committee | 1992-96 |
| Division of High Polymer Physics | |
| Executive Committee | 1961-64 |
| Publications Committee | 1965-68 |
| APS High Polymer Physics Prize Committee | 1961-64 1975, 1977 1978, 1980, 1983, 1991, 1992 |
| Division of Biological Physics | |
| Vice-Chairman | 1978 |
| Chairman | 1979 |
| Divisional Councilor | 1981-85 |
| Biological Physics Prize Committee | 1993 |

Biophysical Society

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| Biopolymer Subgroup | |
| Executive Committee | 1973-77 |
| Chairman | 1974-75 |

Coblentz Society

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| Coblentz Prize Committee | 1965 |
| Board of Managers | 1967-70 |

Gordon Research Conference, Infrared Spectroscopy

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| Conference Committee | 1964-68 |
| Conference Chairman | 1968 |

Xth International Conference on Raman Spectroscopy

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| Program Advisory Committee | 1984-86 |
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XIIth International Conference on Raman Spectroscopy

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| National Organizing Committee | 1988-90 |
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XVth International Conference on Raman Spectroscopy

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| Scientific Advisory Committee | 1994-96 |
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NATIONAL COMMITTEES

National Academy of Sciences/National Research Council

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| National Bureau of Standards Polymers Division Evaluation Panel | |
| Member | 1973-76 |
| Chairman | 1975-76 |

National Academy of Sciences/Institute of Medicine

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| Committee on Promoting Research Collaboration | |
| Member | 1987-89 |

National Science Foundation

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| Materials Research Advisory Committee | |
| Member | 1981-86 |
| Chairman | 1984-85 |

Department of Energy

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| Council on Materials Sciences - Member | 1986-89 |
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EDITORIAL ADVISORY BOARDS

| | |
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| Journal of Polymer Science, Polymer Physics Edition | 1967-99 |
| Macromolecules | 1968-71 |
| Biopolymers | 1973-06 |
| Journal of Macromolecular Science - Reviews in Macromolecular Chemistry | 1983-92 |

INDUSTRIAL CONSULTING

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|---------------------------|---------|
| Allied-Signal Corporation | 1963-93 |
| The B.F. Goodrich Company | 1956-86 |
| Monsanto Company | 1987-92 |

RESEARCH

Over 300 papers on: infrared and Raman spectroscopy of synthetic and natural polymers; x-ray and neutron diffraction studies of fibrous protein and membrane structure; circular dichroism studies of polypeptides and proteins; *ab initio* calculations of structure and spectra; development of potential energy functions for macromolecular structure and dynamics.

MAJOR UNIVERSITY COMMITTEES

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| Concentration Advisor in Biophysics (Physics Department) | 1957-79 |
| Graduate Committee on Biophysics | 1957-76 |
| Committee on Cellular Biology (Chairman 1961-62) | 1957-62 |
| LSA Curriculum Committee (Chairman 1959-60) | 1958-60 |
| Biophysics Research Division Director Search Committee | 1960-61 |
| Radiation Biology Committee | 1960-62 |
| LSA Executive Committee | 1964-67 |
| Sigma Xi Council | 1966-68 |
| Senate Research Policies Committee | 1966-69 |
| Biophysics Research Division Advisory Committee | 1966-76 |
| Institute of Science and Technology Executive Committee | 1967-70 |
| Macromolecular Research Center Executive Committee | 1968-93 |
| LSA Deanship Search Committee | 1970-71 |
| Faculty Reform Coalition (Co-Chairman 1971-72) | 1970-72 |
| President's Committee to Study the Office of the Vice-President for Research | 1971-72 |
| State Relations Advisory Committee | 1976-78 |
| LSA Senior Distinguished Lectureship Committee (Chairman 1979-80) | 1977-80 |
| LSA Development Steering Committee | 1977-82 |
| Rackham Graduate School Executive Board | 1978-81 |
| Budget Priorities Committee | 1980-83 |
| Rackham Deanship Search Committee (Chairman) | 1984-85 |
| Program in Protein Structure and Design Interim Steering Committee (Chairman) | 1984-85 |
| Physics Department Chairman Search Committee | 1985-87 |
| Office of the Vice-President for Research, Associate and Assistant Vice-President Screening Committee | 1986 |
| Physics Department Target-of-Opportunity Committee (Chairman) | 1989-90 |
| | 1991-95 |
| Provost and OVPR Ad Hoc Advisory Committee – Biophysics Research Division | 2005 |