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PROFESSIONAL EXPERIENCE:

Massachusetts Institute of Technology

John D. MacArthur Professor of Chemistry: July 1, 2005 - present
Head of The Department of Chemistry: July 1, 2005 - June 30, 2010
Associate Director Institute for Soldier Nanotechnologies: June 1, 2002 - June 30, 2005
Professor of Chemistry: August 1, 1996 - July 1, 2005

University of Pennsylvania

Professor of Chemistry: July 1, 1996 - July 31, 1996
Assistant Professor of Chemistry: July 1, 1990 - June 30, 1996

Massachusetts Institute of Technology

Postdoctoral Fellow, Advisor: Professor Mark S. Wrighton: August 1988 - July 1990

EDUCATION:

Ph.D., Chemistry, *California Institute of Technology*: May 1988
Research Advisor: Professor Robert H. Grubbs
B.S., Chemistry, With Highest Honors, *Montana State University*: June 1983

PRINCIPAL RESEARCH INTERESTS:

Electronic Materials, Chemical Sensors, Supramolecular Science, Polymer Science, Liquid Crystals, Synthetic Conductors, Molecular Recognition, Molecular Electronics, Photonics

AWARDS AND FELLOWSHIPS:

Elected to the National Academy of Sciences 2008, Elected to the American Academy of Arts and Sciences 2006, Honorary Doctorate Degree Montana State University 2008, Lemelson-MIT Award for Invention and Innovation 2007, Christopher Columbus Foundation Homeland Security Award 2005, Fellow of the Division of Polymer Chemistry (ACS), John Scott Award 2008, The Carl S. Marvel Creative Polymer Chemistry Award (ACS-Polymer Div) 2005, Clare Hall Visiting Fellow (U. Cambridge, England) 2005, Visiting Professor (Université Bordeaux) 2003, Vladimir Karapetoff Award (MIT) 2000, Cope Scholar Award (ACS) 2000, Union Carbide Innovation Recognition Award 1997-8, Philadelphia Section Award (ACS) 1996, Camille Dreyfus Teacher-Scholar 1995-1997, Alfred P. Sloan Research Fellow 1994-1996, DuPont Young Faculty Award 1993-1996, NSF-Young Investigator 1992-1997, Office of Naval Research Young Investigator 1992-1995, Lawton Chiles Postdoctoral Fellowship in Biotechnology (NIH) 1989, Herbert Newby McCoy Award For Outstanding Graduate Research (California Institute of Technology) 1988, Advanced Technologies Graduate Fellow (Aerojet General, General Motors, TRW) 1988, IBM Graduate Fellow 1984-1987, Most Outstanding Senior Chemistry Major (American Institute of Chemists) 1983, Merck Index Undergraduate Chemistry Award 1983

OTHER PROFESSIONAL ACTIVITIES:

Service to the Federal Government: TSA Blue Ribbon Panel, Project Newton 2009-, Naval Studies Board 2009-2011, National Research Council (-Science & Technology for Countering Terrorism 2002, Member of JIEDDO Standing Committee 2006-2007), Defense Science Board Task Force on Chemical Warfare Defense 2001-2002, National Science Foundation (Organizer Materials Chemistry Workshop 1996, Review of Materials Chemistry 1997, US-UK Bilateral Workshops). Service on Numerous Other Panels for NIH, NSF, DoD, US Senate Commerce Committee

Scientific Advisory Boards: E-ink, Cambridge MA, 1999-2002; Polaroid Corp., Cambridge MA, 1999-2002; Nomadics Inc., Stillwater OK and Cambridge MA, 2000-2005; ICx Technologies Science & Technology Council, Washington DC 2006-; Coatue Corp., Cambridge MA, 2001-2003; Mitsubishi Chemical Company, Tokyo 2002, Collegium Pharmaceutical Inc., Hingham, MA, 2001-, Plextronics Inc. Pittsburgh PA, 2006-, Nano-C Inc. Westwood, MA 2006-

Scientific Founder: Iptyx Corp. (2003-2009), Cambridge MA (High Performance Polymers); Dynupol Inc., (2009-) Newton MA (Agents for Dynamic Nuclear Polarization Enhancement)

Editorial Advisory Boards: Chemistry of Materials 1997-2002; Accounts of Chemical Research 1998-2000, 2002-present; J. of Polymer Science 1999-present; J. Am. Chem. Soc. 2000-2002; Supramolecular Chemistry 2001-2006; Advanced Synthesis & Catalysis 2001-2010; J. Supramolecular Chemistry 2001-2006; J. Materials Chemistry

2001-present; Associate Editor of Synfacts, 2005-present, Chemistry Letters
2010-present, Associate Editor of Macromolecules 2010-present.

PUBLICATIONS:

See [publication page: http://swagergroup.mit.edu/view/biblio/year](http://swagergroup.mit.edu/view/biblio/year)

PROCEEDINGS

>70 additional manuscripts have been published in proceedings volumes.