

CURRICULUM VITAE

Amos B. Smith, III – Department of Chemistry, Monell Chemical Senses Center, and Laboratory for Research on the Structure of Matter, University of Pennsylvania Philadelphia, PA 19104-6323

Education

- 1962-1966 B.S.-M.S. combined degree, Bucknell University. Advisor: Professor Harold W. Heine.
- 1966-1967 First Year - Medical School, The University of Pennsylvania.
- 1967-1972 Ph.D. - The Rockefeller University. Advisor: Professor William C. Agosta.

Academic Appointments

- 1972-1973 Research Associate, The Rockefeller University with Professor William C. Agosta.
- 1973-1978 Assistant Professor of Chemistry and Assistant Member, Department of Chemistry and the Monell Chemical Senses Center, University of Pennsylvania.
- 1978-1981 Associate Professor of Chemistry and Associate Member, Department of Chemistry and the Monell Chemical Senses Center, University of Pennsylvania.
- 1981-present Professor of Chemistry and Member, Department of Chemistry and the Monell Chemical Senses Center, University of Pennsylvania.
- 1980 (Spring) Visiting Associate Professor, Department of Chemistry, Columbia University.
- 1982 (Fall) Visiting Professor of Chemistry, Department of Organic and Theoretical Chemistry, Cambridge University.
- 1988-1996 Chairman, Department of Chemistry, University of Pennsylvania.
- 1990-present Rhodes-Thompson Professor of Chemistry, Department of Chemistry, University of Pennsylvania.
- 1990-present Visiting Director, Kitasato Institute, Tokyo, Japan.
- 1999-present Founding Editor-in-Chief, *ACS Organic Letters*
- 2000 (Spring) Visiting Professor, Department of Chemistry, University of Auckland, New Zealand
- 2005-2009 Associate Director, Penn Center for Molecular Discovery, University of Pennsylvania
- 2009 DSc (*honoris causa*), Queens University, Belfast, Northern Ireland
- 2012 Honorary Professor, Jiangsu Normal University, Xuzhou, China

Honors and Awards

- 1978-1983 Camille and Henry Dreyfus Teacher-Scholar Award
- 1978 Master of Arts (hon), University of Pennsylvania
- 1980-1985 NIH Career Development Award (National Cancer Institute)
- 1985-1986 Fellow, The John Simon Guggenheim Foundation
- 1986-1987 Fellow, Japan Society for the Promotion of Science
- 1986 Philadelphia Section Award of the American Chemical Society
- 1990 Philadelphia Organic Chemists Club Award
- 1990 Kitasato Institute Microbial Chemistry Medal

1991 Arthur C. Cope Scholar Award
 1991 Honor Scroll Award - American Institute of Chemists
 1992 Alexander von Humboldt Research Award for Senior U.S. Scientists
 1993 ACS Ernest Guenther Award in the Chemistry of Natural Products
 1993 Alumni Award for Outstanding Professional Achievement - Bucknell University
 1997 University of Oregon Creativity Award
 1997 ACS Award for Creative Work in Synthetic Organic Chemistry
 1999 Honorary Membership - Pharmaceutical Society of Japan
 2001 Honorary Member - Kitasato Institute, Tokyo, Japan
 2002 Fellow, American Association for the Advancement of Science
 2002 Centenary Medal and Lectureship, Royal Society of Chemistry, London, UK
 2003 Yamada-Koga Prize, The Japan Research Foundation for Optically Active Compounds,
 Tokyo, Japan
 2004 First Provost's Award for Distinguished Teaching and Mentoring Ph.D. Students,
 University of Pennsylvania
 2004 Order of the Rising Sun, Gold Rays with Neck Ribbon, from the Government of Japan,
 Tokyo, Japan
 2006 Fellow, American Academy of Arts and Sciences
 2007- Member, ESPCI International Scientific Council, Paris, France
 2008 Simonsen Medal, Royal Society of Chemistry, United Kingdom
 2009 Inaugural Fellow, American Chemical Society
 2011 Wilsmore Professorship, Melbourne University, Melbourne, Australia
 2014 Paul Gassman Award, Organic Division, American Chemical Society
 2014 William H. Nichols Medal, New York Section of the American Chemical Society
 2015 Allan R. Day Award, Philadelphia Organic Chemists' Club
 2015 Philadelphia Drug Discovery Institute Award, Doylestown, PA
 2015 Perkin Prize for Organic Chemistry, Royal Society of Chemistry, UK
 2016 Honorary Issue: The Journal of Antibiotics

Editorial Boards

1982-1986 *Journal of Organic Chemistry*
 1987-2006 *Organic Reactions*
 1988-1993 *Journal of the American Chemical Society*
 1990-1998 *Organic Syntheses*
 1992-1997 International Advisory Board - *Journal of the Chemical Society, Perkin Transactions I*
 1993-1998 *Fullerene Science and Technology*
 1994- *Journal of Organic Chemistry*
 1995- Member, Board of Directors, Organic Reactions, Inc.
 1995-1998 *Synlett*
 1996 Guest Editor, *Tetrahedron Symposia in Print* on Fullerene Chemistry
 1997-2001 Regional Editor - *Fullerene Science and Technology*
 1997-2002 *Tetrahedron Publications - Board of Consulting Editors*
 1999- *Journal of Antibiotics*
 2000- *Chemical & Pharmaceutical Bulletin*
 2002 Member, Board of Directors, Organic Syntheses, Inc.
 2002-2005 *Accounts of Chemical Research*
 2002- Member, Board of Directors, Organic Syntheses, Inc.
 2012-2018 Member, Governing Board for Publishing, American Chemical Society

Plenary Lectureships

1975 Frontiers in the Chemical Senses, National ACS Meeting, Philadelphia, PA
 1975 Gordon Research Conference on Olefaction and Taste, New Hampton, NH
 1978 Gordon Research Conference on Organic Reactions and Process, New Hampton, NH

1979 6th International Symposium on Synthesis in Organic Chemistry, Cambridge, England
1983 National Organic Symposium, Bozeman, MT
1986 Distinguished Lecturer; Zeneca Excellence in Chemistry Symposium
1986 Arthur D. Little Lectureship, Northeastern University, Boston, MA
1988 National Medicinal Chemistry Symposium, Minneapolis, MN
1988 16th IUPAC Symposium on the Chemistry of Natural Products, Kyoto, Japan
1988 Merck-Frosst Lectureship, Ottawa, Ontario, Canada
1988 H. Martin Friedman Lectureship - Rutgers University, Piscataway, NJ
1988 Société Française de Chimie Lectureship - Paris, France
1989 Biannual Carl S. Marvel Symposium, Tucson, AZ
1989 Lectureship at the French Speaking Universities of Switzerland
1991 Trost "25 Year" Symposium, Stanford University, Stanford, CA
1991 Twentieth Scottish Regional Meeting (Royal Society of Chemistry), Edinburgh, Scotland
1991 Southwest Regional Meeting (Royal Society of Chemistry), Cardiff, Wales
1992 Ninth International Society of Chemical Ecology Meeting, Kyoto, Japan
1992 Guenther Award Symposium, National ACS Meeting, San Francisco, CA
1992 Congress of the French Chemical Society, Ecole Polytechnique, Palaiseau, France
1992 Ischia Advanced School of Organic Chemistry, Ischia, Italy
1992 Summer College, Society of Synthetic Organic Chemistry, Nagoya, Japan
1992 Symposium on Chemistry and Biology, Nagoya, Japan
1992 Phillips Lectureship - Haverford College, Haverford, PA
1993 Merck Frosst Lectureship - Université de Sherbrooke, Sherbrooke, Québec, Canada
1993 Castle Lectureship - University of South Florida, Tampa, FL
1993 U.S.-Japan Seminar: Physics and Chemistry of C₆₀ and Related Compounds
1993 Co-Chairman, Max Tishler Memorial Symposium, Kitasato Institute, Tokyo, Japan
1993 Pfizer Lectureship, University of California, Berkeley, Berkeley, CA
1993 Bryn Mawr Symposium to Celebrate New Facilities for Research & Teaching, Bryn Mawr, PA
1994 4th French-American Chemical Society, New Orleans, LA
1994 Gordon Research Conference on the Chemistry and Biology of Peptides, Ventura, CA
1994 Herbert C. Brown Lectureship, Purdue University, Lafayette, IN
1994 Life Science Symposium, Rutgers, The State University, Newark, NJ
1994 Belgian Organic Synthesis Symposium, Namur, Belgium
1995 1st Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, CO
1995 CU-Hauser Symposium in Natural Products: Chemistry and Biology, Boulder, CO
1995 Gordon Research Conference on Heterocyclic Compounds, New Hampton, NH
1995 Glaxo-UNC Conference on the Frontiers of Chemistry and Medicine, Chapel Hill, NC
1995 78th Canadian Society of Chemistry, Symposium on Peptidomimetics, Guelph, Ontario, Canada
1995 14th International Symposium on Synthesis in Organic Chemistry, Cambridge, England
1995 National Organic Symposium, Williamsburg, VA
1996 Research Scholars Lectureship, Drew University, Madison, NJ
1996 Gordon Research Conference on Natural Products, New England College, Henniker, NH
1996 Fullerenes '96, Keble College, Oxford, England
1996 Philip Eaton Symposium, University of Chicago, Chicago, IL
1996 UC Davis Graduate Student Lectureship, UC Davis, Davis, CA
1996 DuPont-Merck Research Facility Dedication Symposium, Wilmington, DE
1996 Royal Society of Chemistry, Fall Carbohydrate Symposium, London, UK
1997 Royal Society of Chemistry, Lakeland Heterocyclic Symposium, Grasmere, UK
1997 32nd EUCHEM Stereochemistry Conference at Bürgenstock, Switzerland
1997 4th Cost Workshop on Molecular Recognition, Dublin, Ireland

1997 Inaugural Allelix Biopharmaceutical Distinguished Lectureship, University of Toronto, Canada

1997 Astra Research Center-Montreal Facility Dedication Symposium, Montreal, Quebec

1997 Carl Johnson Symposium, Wayne State University, Detroit, MI

1997 Frontiers in Chemical Research Lectureship, Texas A&M University, College Station, Texas

1997 Max Tishler Memorial Lectureship, Kitasato Institute, Tokyo, Japan

1997 1997 Korea Lectureship in Organic Chemistry, Seoul, Korea

1998 Society of Chemical Industry; Fine Chemicals Group Symposium, London, England

1998 Merck Lectureship, Cambridge University, Cambridge, UK

1998 Stereochemical Gordon Conference, Salve Regina University, Newport, RI

1998 Organic Reactions and Processes, Gordon Conference, New England College, NH

1998 Warner Lambert–Park Davis Lectureship, Michigan State University, East Lansing, MI

1998 Musselman Lectureship, Gettysburg College, PA

1998 Procter & Gamble Pharmaceuticals Colloquium on Organic Chemistry, Cincinnati, OH

1998 IUPAC Conference on Organic Synthesis (ICOS-12), Venice, Italy

1998 1st Intl. Conf. on Chemistry of Antibiotics (ICCA), Bologne, Italy

1998 Society of Chemical Industry Symposium on National Product Synthesis, London, UK

1998 Reilly Lectureship, University of Notre Dame, Notre Dame, IN

1998 Sydney Archer Lectureship, Rensselaer Polytechnic Institute, Troy, NY

1999 Inaugural Novartis Lecturer, University of Texas at Austin, Austin, TX

1999 Roche Distinguished Lecturer, Colorado State University, Fort Collins, CO

1999 Pharmaceutical Society of Japan (Induction Lecture), Tokushima, Japan

1999 Nouveaux Développements en Synthèse Organique, University of Montréal, Canada

1999 Peter A. Leermakers Symposium, Wesleyan University, Middletown, CT

1999 Gordon Research Conference on Heterocyclic Compounds, Newport, RI

1999 10th European Carbohydrate Symposium, University College, Galway, Ireland

1999 Peter Garratt Retirement Symposium, University College, London, England

1999 Gordon Research Conference on Natural Products, Henniker, NH

2000 Haynes-Morris Lectureship, University of Tennessee, Knoxville, TN

2000 University of Auckland Foundation Visitor

2000 XVIII Reunión Bienal de Química Orgánica, A Coruña, Spain

2000 Park-Davis Distinguished Lectureship, Indiana University, Bloomington, IN

2000 Murtishaw Lectureship in Organic Chemistry, University of South Carolina, Columbia, SC

2000 Schering-Plough Lectureship, State University of New York, Stony Brook, NY

2000 Research Frontier in Chemistry, Iowa State University, Iowa City, IA

2000 UCSD/DuPont Pharmaceutical Co. Symposium on Organic Chemistry, UCSD, San Diego, CA

2001 Michael P. Cava Symposium, University of Alabama, Tuscaloosa, AL

2001 Organic Chemistry Day, University of Missouri-Columbia, Columbia, MO

2001 Bristol-Myers Squibb Lectureship - Harvard University, Cambridge, MA

2001 9th Brazilian Meeting on Organic Synthesis, Curitiba, PR, Brazil

2001 Alan Johnson Memorial Lecture, University of Sussex, Brighton, England

2001 Gilbert Stork Lectureship, Columbia University, New York, NY

2002 Société Française de Chimie Lectureship, Paris, France

2002 Eli Lilly Lectureship, University of Minnesota, Minneapolis, MN

2002 Wayeningen Symposium, Royal Netherlands Chemical Society, Wayenmyer, Netherlands

2002 French American Chemical Society (FACS IX), Paris, France

2002 Merck Lectureship, Cambridge University, Cambridge, UK

2002 Andrew Kende 70th Birthday Symposium, Rochester University, Rochester, NY

2002 8th International Conference on the Chemistry of Antibiotics, Tokyo, Japan

2002 Herbert E. Brown 90th Birthday Symposium, 224th ACS National Meeting, Boston, MA
2002 Nelson J. Leonard Lectures, University of Illinois, Urbana-Champaign, IL
2003 Connecticut Organic Chemistry Symposium, New Haven, CT
2003 Roche Colorado Distinguished Lectureship, University of Colorado, Boulder, CO
2003 Bristol-Myers Squibb Symposium on Organic Synthesis, University of Illinois, Chicago, IL
2003 North Jersey ACS Organic Chemistry Symposium, Morristown, NJ
2003 9th Annual Contemporary Organic Chemistry Symposium, University of Michigan, Ann Arbor, MI
2003 Inspire Pharmaceutical Lectureship, University of North Carolina, Chapel Hill, NC
2003 George Lesher Lectureship in Bioorganic and Medicinal Chemistry, Rensselaer Polytechnic Institute, Troy, NY
2003 Frontiers in Science Lectureship, Saint Joseph's University, Philadelphia, PA
2003 2nd Symposium on PharmaScience, Takeda Science Foundation, Kyoto, Japan
2003 Yamada Prize Lectureship, Tokyo, Japan
2004 ACS National Meeting Guenther Award Symposium, Anaheim, California
2004 Student's Choice Speaker, University of Utah, Salt Lake City
2004 Joseph F. Bunnett Lectureship, University of California, Santa Cruz
2004 15th Pfizer Summer Chemistry Symposium, Sandwich, Kent, UK
2004 Natural Products Gordon Research Conference, Tilton School, NH
2004 GlaxoSmithKline Philadelphia Chemistry Day, Philadelphia, PA
2004 Ralph Raphael Memorial Lectureship, Glasgow University, Scotland
2004 Henry J. Shine Lectureship, Texas Tech University, Lubbock, TX
2004 Samuel M. McElvain Lectureship, University of Wisconsin, Madison, WI
2005 National Organic Symposium, University of Utah, Salt Lake City, UT
2005 Julius Stieglitz Lecture, University of Chicago, Chicago, IL
2005 21st Conference on Isoprenoids, Bianlowieza, Poland
2006 Gordon Research Conference, Marine Natural Products, Ventura, CA
2006 Gordon Research Conference on Heterocycles, Newport, RI
2006 American Society of Pharmacology Symposium, Washington, DC
2006 Sheffield Stereochemistry Conference, Sheffield, UK
2006 George H. Büchi Lectureship, Oregon State University, Corvallis, OR
2006 H. C. Brown Legacy Symposium, National ACS Meeting, San Francisco, CA
2006 Vision in Chemistry, Sanofi-Aventis, Bridgewater, NJ
2006 Tokushima Pre-Symposium, New Aspects of Natural Products Chemistry, Tokushima, Japan
2006 IUPAC International Conference on Diversity and Natural Products, Kyoto, Japan
2006 Robert E. Ireland Lectureship, University of Virginia, Charlottesville, VA
2007 12th International Symposium on Marine Natural Products, Queenstown, NZ
2007 20th American Peptide Symposium, Montreal, Canada
2007 20th International Symposium, Synthesis in Organic Chemistry, Cambridge, England
2007 10th International Conference on the Chemistry of Antibiotics, Vanderbilt University, Nashville, TN
2007 National ACS Meeting Symposium in Honor of Professor Madeleine Joullié, Boston, MA
2008 Burroughs Wellcome Distinguished Lectureship, East Carolina University, Greenville, NC
2008 Natural Products Symposium, Athens Greece
2008 C.L. Stevens 85th Birthday Symposium, Wayne State University, Detroit, MI
2009 Gordon Conference on Combinatorial Chemistry, Sawyer College, NH
2009 Natural Products Gordon Conference, Tilton, New Hampshire
2009 Roseman Graduate Student-Hosted Seminar, Johns Hopkins University
2009 Brown-Negishi Lectureship, Purdue University, West Lafayette, IN

2009 George Büchi Visiting Lectureship in Organic Synthesis, Massachusetts Institute of Technology, Cambridge, MA

2009 Lilly Symposium, Department of Chemistry & Chemical Biology, Harvard University, Cambridge, MA

2010 11th Annual Heterocyclic and Synthetic Conference, University of Florida, Gainesville, FL

2010 Tom Hoyer 60th Birthday Symposium, University of Minnesota, Minneapolis, MN

2010 Journal of Organic Chemistry 75th Anniversary Symposium, ACS National Meeting, Boston, MA

2010 Organic Reactions and Processes Gordon Conference, Bryant University, Smithfield, RI

2010 International Chemical Congress of the Pacific Basin Societies: Symposium on Novel Synthetic Methodology and its Application to Natural Product Synthesis.

2011 Opening Symposium for Biomedical Chemistry Institute, New York University, NY, NY

2011 Ritchie Lectureship, University of Sydney, Australia

2011 ICIQ Summer School Lectureship, Tarragona, Spain

2011 Ernest and Bingham J. Humphrey Memorial Symposium, University of Vermont, Burlington, VT

2011 Keynote Lecture, 7th Chinese Chemical Society, National Organic Chemistry Conference, Nanjing University, China

2011 French Chemical Society, Organic Chemistry Division, Paris, France

2012 3rd International Symposium on Organic Synthesis and Drug Design, Changzhou, China

2012 19th International Conference on Organic Synthesis (ICOS19), Melbourne, Australia

2012 2nd Al Meyers Symposium, Colorado State University, Fort Collins, CO

2012 Millersville University, Millersville, PA

2013 Sir Derek Barton Lecture, Imperial College, London

2013 Gordon Conference on Heterocycles, New Hampshire

2013 Lambert Lecture, Boston University, Boston, MA

2013 14th Tetrahedron Symposium—Europe Edition, Vienna, Austria

2013 The Ernest E. Campaign Symposium on Heterocyclic Chemistry, Indiana University, Bloomington, IN

2013 13th International Conference of the Chemistry of Antibiotic and Other Natural Products, Kawasuchi-Lake, Japan

2013 10th International Symposium on Carbanion Chemistry (ISCC-10), Kyoto, Japan

2013 International Symposium for the 70th Anniversary of the Tokohu Branch of the Chemical Society of Japan, Sendai, Japan

2013 8th National Organic Chemistry Conference, Chinese Chemical Society, Chongqing, China

2013 14th Tetrahedron Symposium—Asia Edition, Seoul, Korea, Republic of Korea

2014 Philadelphia Organic Chemists Club

2014 ACS Awards Symposium Honoring Harold B. Dellinger

2014 Nichols Awardee Address, NYC Section of ACS

2014 ICIQ's 10th Anniversary Scientific Symposium, Tarragona, Spain

2014 17th International Symposium on Silicon Chemistry, Berlin, Germany

2014 Institute of Organic and Bioorganic Chemistry, Prague, Czech Republic

2014 Laboratory of Organic Chemistry, ETH, Zurich, Switzerland

2015 Guenther Award Symposium (Thomas A. Hoyer), National ACS Meeting, Denver, CO

2015 Princeton ACS Section Lecture, Princeton, NJ

2015 IUPAC-World Chemistry Congress, Busan, Korea

2015 Pacificchem Symposium on Natural Product-Based Discovery, Honolulu, HI

2016 Ralph Hirschmann Lectureship, Oberlin, OH

2016 RSC Perkin Prize Lectureship (Cambridge, Loughborough, Manchester Metropolitan

	and Queen's University), UK
2016	Sierra Nevada Distinguished Lecture, University of Nevada, Reno, NV
2016	15 th Belgian Organic Synthesis Symposium (BOSS), Antwerp, Belgium
2016	6 th Pharmaron Symposium, Beijing, China
2016	11 th National Symposium on Natural Organic Chemistry, Shanghai, China
2016	M.P. Cava Lectureship, Department of Chemistry, University of Alabama, Tuscaloosa, Al

Study Section Memberships

1980-1983	NIH Medicinal Chemistry A and Bioorganic and Natural Products Chemistry Review Panels - (Ad hoc)
1983-1987	NIH Medicinal Chemistry Study Section
1986	NIH Study Section Workshop on Medicinal Chemistry - Chairman
1989-1992	American Cancer Society - Advisory Committee on Personnel for Research
1989	NIH Study Section for AIDS and Related Research
1991	NIH Workshop on Large-Scale Production of Natural Products
1992	Ad hoc NIH Bioorganic and Natural Products Chemistry Study Section - Chairman
1995-1999	NIH Medicinal Chemistry Study Section
1997-1999	Chair, NIH Medicinal Chemistry Study Section
2001	NIH SSS-B/Special Review Group
2002	Chair, NIH SSS-B/Special Review Group
2003	Chair, NIH SSS-B/Special Review Group
2004	Chair, NIH SSS-B/Special Review Group
2008	NIH SSS-Biological Chemistry and Macromolecular Biophysics Review Group
2010	NIH-SBC-A Study Section (Ad hoc Member)
2011	NIH-BCMB-B Study Section

Professional Activities

1977	Chairman Elect - Philadelphia Organic Chemists' Club
1978	Chairman - Philadelphia Organic Chemists' Club
1979	Vice Chairman - Gordon Research Conference - Organic Reactions and Processes
1980	Chairman - Gordon Research Conference - Organic Reactions and Processes
1980-1983	Member, Canvassing Committee - ACS Ernest Guenther Award in the Chemistry of Essential Oils and Related Products
1984	Member, Nominating Committee - ACS Organic Division
1985	Chairman, Nominating Committee - ACS Division of Organic Chemistry
1985-	Member, Committee on the Sciences and Arts, Franklin Institute
1987-1990	Member, Executive Committee, Organic Division, American Chemical Society
1988-1989	Chairman and Member, Fellowship Committee - ACS Division of Organic Chemistry
1989-1992	Member, Canvassing Committee - ACS Award for Creative Work in Synthetic Chemistry Sponsored by Aldrich Chemical Company, Inc.
1990-1994	Counselor, International Society of Chemical Ecology
1991-1993	National Organic Symposium Executive Officer, ACS Division of Organic Chemistry
1992	ACS Task Force to Monitor <i>Journal of Organic Chemistry</i> - Chairman
1993	Member, Ad Hoc Review Committee, Division of Physical Sciences, University of Chicago
1995-1997	Chair Elect, Chair, and Past Chair, Division of Organic Chemistry, American Chemical Society
1997-2007	Member, Advisory Board, Department of Chemistry, Worcester Polytechnic Institute
1997	Member, Ad Hoc Review Committee, Chemistry Department, University of Minnesota
1998-2000	Member, NRC Committee on Design, Construction, and Renovation of Laboratory

Facilities

- 2001 *Journal of Organic Chemistry* Editor Selection Committee
2001 & 2011 Member Bower Pre-Selection Committee, Franklin Institute, Philadelphia, PA
2001- John Scott Award Advisory Committee, Board of Directors of City Trusts, Philadelphia, PA
2003 Conference Chair, Editor-in-Chief's Conference, ACS Editors, La Jolla, CA
2003-2008 Advisory Board, Department of Biochemistry-PPG, Southwestern Medical Center, Dallas TX

Scientific Advisory Board

- 1993-2009 Pharmacoepia, Inc., Princeton, NJ
1999- Provid Pharmaceuticals, Inc., Founding Member and Co-Chair SAB.
2000-2002 Neokima, Fleurmont (Quebec), Canada
2000-2006 ArgiNOx, Inc., Milwaukee, WI
2001-2005 Dihedron, Inc., San Diego, CA (BOD and SAB)
2001- 2004 Center for Chemical Synthesis—Chemical Biology, University College Dublin, Dublin, Ireland
2002-2006 Kosan Biosciences, Inc., Hayward, CA
2004-2010 Red Abbey Venture Partners, Lutherville, MD
2004-2006 Acidophil, LLC, San Diego, CA
2005-2006 Cephalon, Inc., West Chester, PA
2007- Member, ESPCI International Scientific Council, Paris, France
2011-2012 Adesis, Inc., New Castle, DE
2012-2013 Goodwin Procter, LLP

Consulting Agreements

- 1982-1994 Merck & Co., Inc., Rahway, N.J.
1983-1999 Astra-Arcus USA (formally Fisons Pharmaceutical Co., Rochester, N.Y.)
1994-1995 Genentech, Inc., California.
1994-1995 Court Expert for Judge Edmund V. Ludwig, S.J. (United States District Court- Eastern District of Pennsylvania)
2002- Incyte Genomics, Inc. Wilmington, De
2005-2011 Cephalon, Inc., West Chester, PA
2011-2012 Warner Chilcott (Ireland) Ltd.

Honorary Societies

- Phi Beta Kappa
Sigma Xi
Phi Eta Sigma
Pi Mu
Phi Lambda Upsilon

Professional Societies

- American Chemical Society
The Royal Society of Chemistry
American Association for the Advancement of Science
American Association for Cancer Research
American Society for Photobiology
The Swiss Chemical Society
Japanese Chemical Society
Pharmaceutical Society of Japan

Research Areas of Interest:

Organic Chemistry - Total Synthesis of Architecturally Novel Natural and Unnatural Products, Synthetic Methodology and Reaction Mechanisms. **Bioorganic Chemistry** - Design and Synthesis of Non-peptide Peptidomimetics of Somatostatin, Substance P, Fibrinogen, Renin and HIV Protease Inhibitors. **Organic Photochemistry** - Development of New Reactions and the Study of Their Mechanism. **Materials Science** - Synthesis and Structural Analysis of Novel Discotic Liquid Crystals and New Fullerene Derivatives (i.e., C₆₀O, C₆₁H₂, etc.). **Primate Chemical Communication** - Isolation, Synthesis, and Behavioral Analysis.

Community Service

1994- Committee Member, Boy Scout Troop 176, Narberth, PA
1994-2001 Committee Chairman, Boy Scout Troop 176, Narberth, PA

Personal

Born: August 26, 1944, Lewisburg, Pennsylvania
Married: Janet L. Duyckinck, Ph.D.
 Full Professor of Anatomy
 Medical College of Pennsylvania
Children: Kathryn Schuyler and Amos Matthew MacMillan

April 8, 2016