

# GARY A. MOLANDER

University of Pennsylvania, Department of Chemistry  
Philadelphia, PA



**Title of Lecture:** "Single Electron Processes to Enable Cross-Couplings"

**Phone:** 215-573-8604

**Email:** gmolandr@sas.upenn.edu

**Education:**

1975-1979 Ph. D., Purdue University (Advisor H. C. Brown)

1971-1975 B. S. with Distinction, Iowa State University

**Research and Professional Experience**

1979-1980 Postdoctoral Research Associate with Professor Herbert C. Brown, Purdue University  
1980-1981 Postdoctoral Research Associate with Professor Barry M. Trost, University of Wisconsin, Madison  
1981-1988 Assistant Professor of Chemistry, University of Colorado, Boulder  
1988-1990 Associate Professor of Chemistry, University of Colorado, Boulder  
1990-1999 Professor of Chemistry, University of Colorado, Boulder  
1999-present Professor of Chemistry, University of Pennsylvania  
2001-2006 Allan Day Term Professor of Chemistry, University of Pennsylvania  
2007-present Hirschmann-Makineni Professor of Chemistry, University of Pennsylvania

**Awards**

Sigma Xi, Phi Beta Kappa, Phi Kappa Phi, Phi Lambda Upsilon, Phi Eta Sigma Honorary Societies.  
Purdue University Fellow, 1975-1977.  
Eastman Kodak Fellow, 1978-1979.  
National Institutes of Health Postdoctoral Research Fellow, 1980-1981.  
University of Colorado Summer Research Initiation Faculty Fellowship, 1982.  
Alfred P. Sloan Foundation Research Fellow, 1987-1991.  
University of Colorado Faculty Fellowship, 1988-1989.  
American Cyanamid Academic Award, 1989.  
Arthur C. Cope Scholar Award of the American Chemical Society, 1998.  
Honorary Master of Arts Degree, University of Pennsylvania, 1999.  
Japanese Society for the Promotion of Science Fellowship, 2002-3.  
Philadelphia Section Award of the American Chemical Society, 2003.  
Christian R. and Mary F. Lindback Award for Distinguished Teaching, University of Pennsylvania, 2006.  
Purdue University Department of Chemistry Outstanding Alumni Award, 2009.  
Elected Fellow of the American Chemical Society, 2010.  
Novartis Lecturer, 2012-2013.  
Council for Chemical Research, Research Collaboration Award, 2013.  
Boron in the Americas Frontier Award, 2014.  
2015 American Publishers PROSE Award for a Multivolume Reference/Science publication as Editors in Chief of *Comprehensive Organic Synthesis*.  
American Chemical Society Herbert C. Brown Award for Creative Research in Synthetic Methods, 2015.

**Research Interests**

The central theme of the Molander group's research is the development of new synthetic methods and their application to the synthesis of organic molecules. His group's focus centers on catalysis, specifically using robust, air- and water-stable potassium organotrifluoroborates (R-BF<sub>3</sub>K) as partners in cross-coupling.