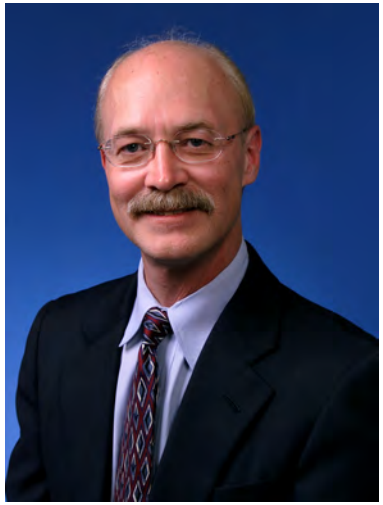

2009-2010 POCC Lecture Series

October 22, 2009, 8:00 PM

≈ Allan R. Day Awardee ≈

Prof. Dale Boger

The Scripps Research Institute

" Vinblastine: Synthetic and Mechanistic Studies"

Carolyn Hoff Lynch Lecture Hall
Chemistry Building, University of Pennsylvania

The Philadelphia Organic Chemist's Club

POCClub.org

Dale Boger received his B.Sc. in chemistry from the University of Kansas, Lawrence, Kansas (1975) and Ph.D. in chemistry from Harvard University (1980). He returned to the University of Kansas as a member of the faculty in the Department of Medicinal Chemistry (1979–1985), moved to the Department of Chemistry at Purdue University (1985–1991), and joined the faculty in the Department of Chemistry at The Scripps Research Institute (1991–present) as the Richard and Alice Cramer Professor of Chemistry. Professor Boger is internationally recognized for his work in organic synthesis, natural products total synthesis and biological evaluation, synthetic methodology development and has made seminal contributions to the understanding of DNA-drug interactions, small molecule stabilization or disruption of protein–protein interactions involved in signal transduction, and to the discovery and validation of new biological targets. He has been the recipient of numerous awards for his work including an inaugural year Searle Scholar Award (1981), the inaugural year ISHC Katritzky Award in Heterocyclic Chemistry (1997), an ACS A. C. Cope Scholar Award (1988), the ACS Award for Creativity in Organic Synthesis (1999), the Paul Janssen Prize for Creativity in Organic Synthesis (2002), the ACS Ernest Geunther Award in Natural Products (2007), and was elected to the American Academy of Arts and Sciences in 2006.

Abstract: The development of a powerful [4+2]/[3+2] cycloaddition cascade of 1,3,4-oxadiazoles, its utilization in first and second generation total syntheses of vindoline and related analogues, and their incorporation into the total synthesis of vinblastine and related analogues will be presented.