



2008-2009 POCC Lecture Series

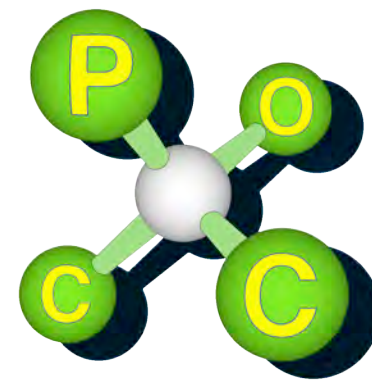
December 4, 2008, 8:00 PM

Prof. Peter Wipf
University of Pittsburgh

"Recent Progress in Indole Synthesis"

Carolyn Hoff Lynch Lecture Hall
Chemistry Building, University of Pennsylvania

The
Philadelphia Organic
Chemists' Club



POCClub.org

Prof. Peter Wipf attended the Univ. of Zürich where he obtained his Dipl. Chem. in 1984 and his Ph. D. with Heinz Heimgartner in 1987. After a two year post-doctoral appointment at the University of Virginia with Robert Ireland, he began his independent academic career at the University of Pittsburgh in 1990 and quickly rose to the rank of full professor by 1997. In 2004 he was named the University Professor of Chemistry. His research activities span the fields of chemistry and biochemistry with contributions to natural products total synthesis, heterocyclic, organometallic and combinatorial chemistry. He is currently the Director of the Combinatorial Chemistry Center and the Center for Chemical Methodologies and Library Development which are involved in many collaborative projects in Chemical Biology. Most recently, he founded the Chemistry Cores of the Pittsburgh Molecular Libraries Screening Center and the Center for Medical Countermeasures Against Radiation. His scientific contributions have been recognized by an Arthur C. Cope Scholar Award in 1998 and election as a Fellow of both the American Association for the Advancement of Science (2002) and the Royal Society of Chemistry (2004).

Abstract: The continued development of new methodology for the construction of indoles, indolines and related heterocycles such as azaindoles is well justified by the tremendous therapeutic potential associated with these heterocyclic building blocks. Natural products containing the 3,3-disubstituted indoline motif include the clinically used antitumor agent vinblastine and the novel marine metabolite diazonamide A. This seminar will present our recent work toward the synthesis of indoles and partially saturated derivatives as well as applications in natural product total synthesis.