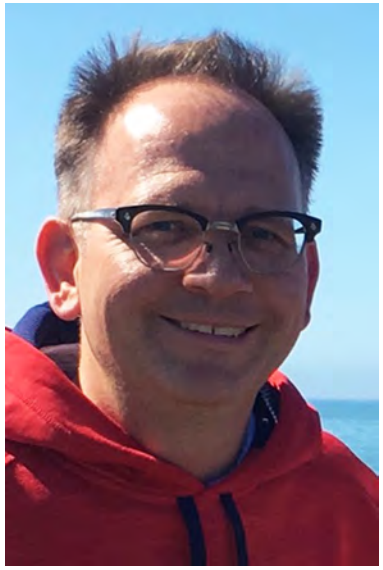

2018-2019 POCC Lecture Series

September 27, 2018, 7:30 PM

6:30 reception in the Nobel Hall

Prof. Brian M. Stoltz

California Institute of Technology

Complex Natural Products as a Driving Force for Discovery in Organic Chemistry

Carolyn Hoff Lynch Lecture Hall

Chemistry Building, University of Pennsylvania

The Philadelphia Organic Chemist's Club

POCClub.org

Brian M. Stoltz was born in Philadelphia, PA, USA in 1970 and obtained a BS degree in Chemistry and and a BA degree in German from the Indiana University of Pennsylvania in Indiana, PA. After graduate work at Yale University in the laboratories of John L. Wood and an NIH postdoctoral fellowship at Harvard in the Corey laboratories, he took a position at the California Institute of Technology. A member of the Caltech faculty since 2000, he currently is a Professor of Chemistry. His research interests lie in the development of new methodology for general applications in synthetic chemistry.

Abstract: Our laboratory is deeply interested in the discovery and development of new reaction methodology en route to the chemical synthesis of complex bioactive molecules. Over the course of the past eighteen years, research in our group at the California Institute of Technology has centered on broad areas of synthetic chemistry, with a focus on the development of new strategies for the preparation of complex molecules, including natural products that possess interesting structural, biological, and physical properties. Concurrent to this program of target driven synthesis is a strong effort directed toward the development of new techniques and reaction methods, which will be useful for a range of applications. Typically, the complex target structure is used as an inspiration for the discovery of new reactions and technologies that may eventually be regarded as general synthetic methodology. Consequently, this approach provides access to a) novel, medicinally relevant structures, b) a general method for their synthesis, and c) new synthetic methods that will be beneficial for a host of applications.