

## ORGANIC REACTIONS INC.

Organic Reactions was conceptualized at the 1939 National Organic Symposium as the brainchild of Roger Adams and some of the Organic Syntheses editorial board members. Organic Reactions was conceived as a collection of articles about specific reactions with which the authors had firsthand experience. The unique features of Organic Reactions distinguishing it from other review vehicles include exhaustive literature surveys, complete compilation of extant examples and representative, detailed experimental procedures. Adams served as president and editor in chief from 1942 until 1960 when Volume 10 was published. A. C. Cope succeeded Adams until his death in 1966, when W. G. Dauben assumed that position followed by A. S. Kende, L. A. Paquette, L. E. Overman, S. E. Denmark, and currently P. Andrew Evans. In defining the goals and mission of Organic Reactions, Adams wrote: "In the course of nearly every program of research in organic chemistry the investigator finds it necessary to use several of the better-known synthetic reactions." To discover the optimum conditions for the application of even the most familiar one to a compound not previously subjected to the reaction often requires an extensive search of the literature; even then a series of experiments may be necessary.

## ORGANIC REACTIONS INC. CONTINUED

The volumes of Organic Reactions are collections of chapters each devoted to a single reaction, or a definite phase of a reaction, of wide applicability. The subjects are presented from the preparative viewpoint, and particular attention is given to limitations, interfering influences, effects of structure, and the selection of experimental techniques. The authors of articles in Organic Reactions receive no royalties, and the editors do their work as a public service. The success of this enterprise involves the dedicated efforts of many prominent chemists who devote their efforts to the time-consuming job of editing of chapters and producing volumes. It is remarkable that Adams' legacy of interest in organic chemistry, in organic chemists, and in students still motivates those who carry this important resource forward. Scott E. Denmark, University of Illinois Editor-in-Chief, 2008-2018

## PREVIOUS ORGANIC REACTIONS INC. LECTURES

2018 • M. J. Krische



Department of Chemistry  
Queen's University

is honoured to host the  
2021 Organic Reactions  
Inc. Lecturer:

Dr. Paul Knochel  
University Munich



"Functionalization of *N*-  
Heterocycles using Li, Mg  
and Zn Organometallics"

Friday, September 3, 2021  
11:30 AM  
Virtual via Zoom

## PROF. PAUL KNOCHEL



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**Paul Knochel** was born in Strasbourg. He studied chemistry at the IUT (Institut Universitaire de Technologie) in Strasbourg, then at the ENSCS (École Nationale Supérieure de Chimie de Strasbourg). From 1979 to 1982, he completed his thesis on nitroallylation reagents at the ETH in Zurich (Switzerland) in Prof. Dieter Seebach's group. He then spent 4 years at the CNRS at the Pierre et Marie Curie University in Paris in the group of Prof. Jean-François Normant. During this period, he studied carbozincation reactions using allylic reagents and prepared bimetallic compounds bearing two different metals (Lithium, Magnesium or Zinc) on the same carbon atom. He then joined Prof. Martin F. Semmelhack's laboratory for a post-doctoral fellowship during which he worked on the use of indole-chromium complexes. In 1987, he accepted a position as Assistant Professor in the Department of Chemistry at the University of Michigan at Ann Arbor (USA) where he developed the first methods for the preparation of polyfunctional organometallic zinc species. In 1991, he was promoted to Professor at the same University before moving to Marburg (Germany) in 1992, where he was offered a position as Professor of Organic Chemistry in the Department of Chemistry at the Philips-Universität University. He continued his work on the chemistry of polyfunctional organozincs and their use in asymmetric synthesis. In 1999, he accepted a position as Professor of Organic Chemistry at the University of Munich (Ludwig-Maximilians-Universität - LMU). He has developed new methods for the preparation of polyfunctional organometallic species as well as numerous synthetic methods using organometallic reagents or catalysts.

## SELECTED HONORS & AWARDS

- 1992 Berthelot Medal of the Académie des Sciences (Paris)
- 1994 IUPAC Thieme Prize
- 1995 European Chemical Society-Chiroscience Award for Creative Chemistry
- 1995 Otto-Bayer-Prize
- 1996 Leibniz-Prize
- 2004 Dr. Paul Janssen Prize for Creativity on Organic Synthesis
- 2005 Arthur C. Cope Scholar Award
- 2007 Lilly European Distinguished Lectureship Award
- 2009 Karl-Ziegler-Prize
- 2012 Nagoya Gold Medal
- 2014 ACS H.C. Brown Award for creative research in synthetic methods
- 2015 Paul Karrer Gold Medal for his work in organic chemistry
- 2018 Hispano-Alemán Elhuyar-Goldschmidt
- 2018 Prix franco-allemand Georg Wittig - Victor Grignard