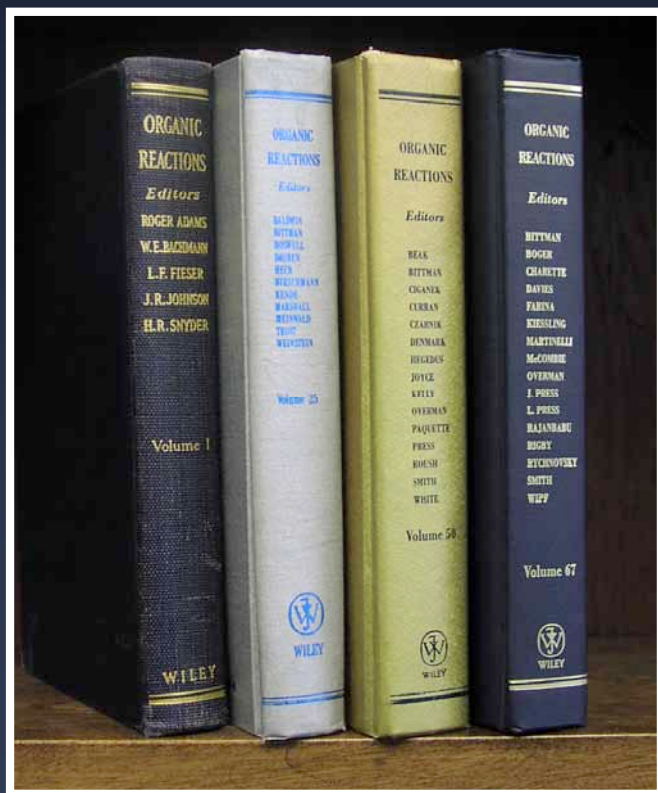
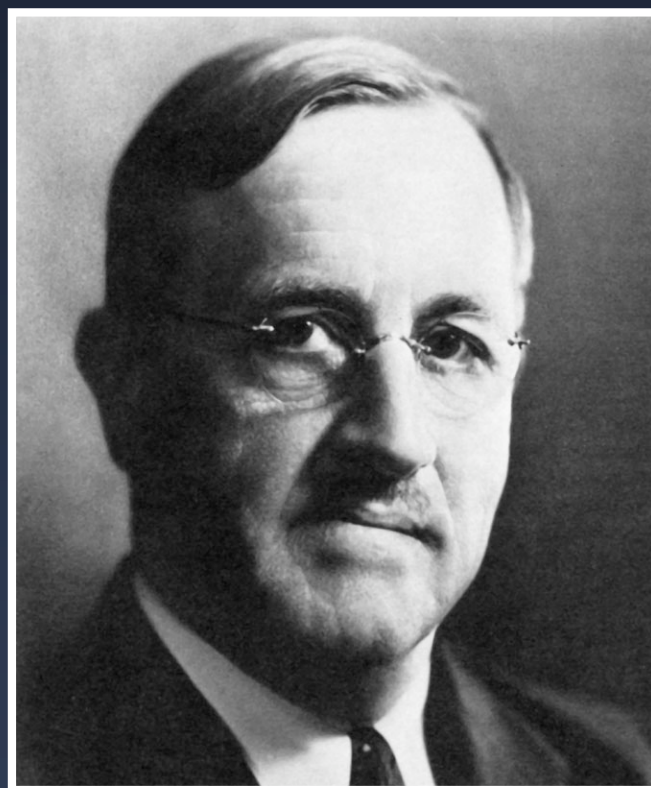


Organic Reactions - An Enduring Classic



The Series
66 Years; 71 Volumes



Roger Adams
Editor-in-Chief 1942-1960

Organic Reactions - The Concept

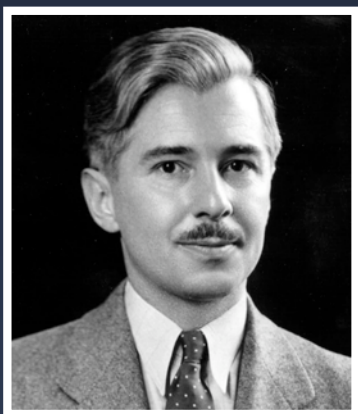
“In the course of nearly every program of research in organic chemistry the investigator finds it necessary to use several of the better-known synthetic reactions. To discover the optimum conditions for the application of even the most familiar one to a compound not previously subjected to the reaction often requires an extensive search of the literature; even then a series of experiments may be necessary.....The background of knowledge and experience gained in the literature search and experimentation is thus lost to those who subsequently have occasion to apply the general method. The student of preparative organic chemistry faces similar difficulties.”

“.....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 authors have had experience with the processes surveyed. 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. Each chapter includes several detailed procedures illustrating the significant modifications of the method.....”

“.....Each chapter contains tables that include all the examples of the reaction under consideration that the author has been able to find....”

Organic Reactions - The Beginning

- **Conceptualization:** December 1939 at the National Organic Symposium in St. Louis
- **Organizational Structure:**
 - **Editor-in-Chief:** Roger Adams
 - **Editorial Board:**



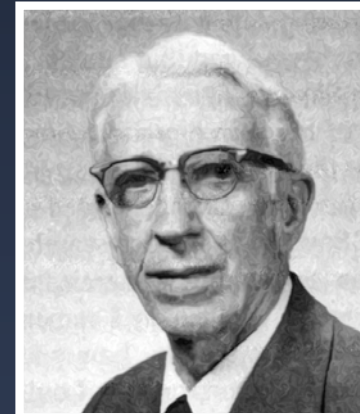
Werner E. Bachman



Louis Fieser



John R. Johnson



Harold R. Snyder

- **Business Model:** Incorporated as a “Not-for-Profit” entity in the State of Illinois, August 1942, for educational and research purposes. Directors were Adams and the Editorial Board. Later a separate Board of Directors was established.
- **Publisher:** John Wiley and Sons

Organic Reactions - The People

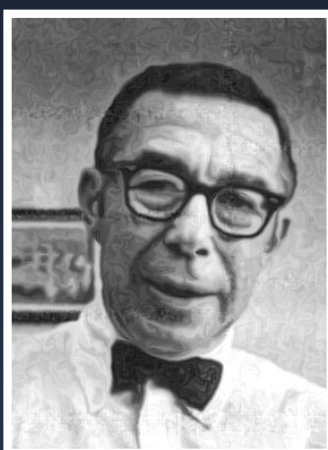
•Editors-In-Chief:



Roger Adams
1942-1960



Arthur C. Cope
1960-1966



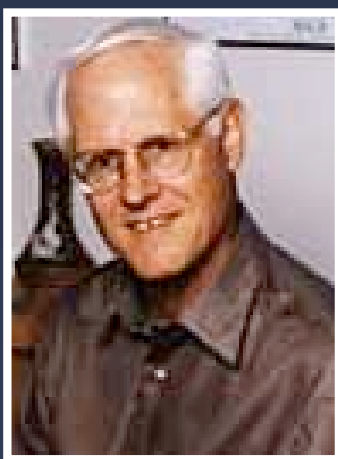
Bill Dauben
1966-1984



Andy Kende
1984-1988



Leo Paquette
1988-2000



Larry Overman
2000-2007



Scott Denmark
2008-?

Organic Reactions - The People

•Board of Editors:

Roger Adams
Homer Adkins
Werner Bachmann
John Baldwin
Peter Beak
Bob Bittman
Harold Blatt
Virgil Boekelheide
Dale Boger
George Boswell
Ted Cairns
André Charette
Bert Ciganek
Art Cope
Don Cram
Dennis Curran
Dave Curtin
Tony Czarnik
Sam Danishefsky
Bill Dauben
Huw Davies
Scott Denmark

Vittorio Farina
Louis Fieser
John Fried
Jacquelyn Gervay-Hague
Heinz Gschwend
Steve Hanessian
Richard Heck
Lou Hegedus
Ralph Hirschmann
Herb House
John R. Johnson
Bob Joyce
Bob Kelly
Andy Kende
Laura Kiessling
Willy Leimgruber
Steve Ley
Jim Marshall
Mike Martinelli
Stu McCombie
Frank McGrew
Blaine McKusick

Jerry Meinwald
Scott Miller
John Montgomery
Carl Niemann
Larry Overman
Leo Paquette
Gary Posner
Jeff Press
Linda Press
T. V. Rajanbabu
Hans Reich
Jim Rigby
Bill Roush
Scott Rychnovsky
Charlie Sih
Amos Smith
Harold Snyder
Barry Trost
Milan Uskokovic
Boris Weinstein
Steve Weinreb
Jim White
Peter Wipf

Organic Reactions - The People

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Homer Adkins

John Fried

Peter Beak
Bob Bittman
Harold Blatt
Virgil Boekelheide

Carl Niemann
Larry Overman
Leo Paquette

Jeff Press

Ted Cairns

Ralph Hirschmann
Herb House

Art Cope
Don Cram

Bob Joyce

Bill Roush

Dave Curtin

Willy Leimgruber

Amos Smith

Bill Dauben

Boris Weinstein

Scott Denmark

Frank McGrew
Blaine McKusick

Peter Wipf

Organic Reactions - The People

•Authors:

Volumes	Chapters	Authors	USA	Foreign	Academic	Industrial	Other
1-25	135	203	181	22	136	60	7
26-50	59	109	70	39	90	19	0
51-71	45	98	48	50	78	20	0

Country	Volumes 1-25	Volumes 26-50	Volumes 51-71
Argentina			3
Australia	3		
Austria			2
Canada	5	1	2
England	3	3	6
France		6	6
Germany	1	2	11
India	2		
Israel	3		
Italy		3	2
Japan	2	10	8
Netherlands	1	2	2
New Zealand			2
Switzerland		7	5
Other	2	5	1
Totals	22	39	50

Organic Reactions - The Process

- **Invitation of Chapters:** The Editor-in-Chief extends invitations to prospective authors and topics for the chapters.
- **Tracking and Editing:**
 - **Responsible Editor:** A member of the editorial board is assigned to shepherd the chapter from outline to drafts, submission, editorial changes and proofs. The editor is usually expert in the particular subject.
 - **Editing:** The style of *Organic Reactions* chapters is characterized by “tight” editing to minimize laborious discussions of history, mechanism, exceptions and personal preferences. The objective is a factual concentrated, distillation that has a strong preparative component.
 - **Editorial Coordinator:** The compilation of Tables is the most daunting and time consuming and for most authors. This is also the most important component of the *Organic Reactions* chapter. The preparation, and quality control has been greatly aided by an Editorial Coordinator, originally, Robert M. Joyce and now Linda S. Press and Danielle Soenen
- **Production:** Page proofs are generated by John Wiley and Sons, who also publish the printed volumes of *Organic Reactions*.

Organic Reactions - The Product

- **Volume 1 (1942):** Twelve Chapters

- *The Reformatsky Reaction (Ralph L. Shriner)*
- *The Arndt-Eistert Synthesis (W. E. Bachman and W. S. Struve)*
- *Chloromethylation of Aromatic Compounds (R. C. Fuson and C. H. McKeever)*
- *The Amination of Heterocyclic Bases by Alkali Amides (Marlin T. Leffler)*
- *The Bucherer Reaction (Nathan L. Drake)*
- *The Elbs Reaction (Louis F. Fieser)*
- *The Clemmensen Reduction (Elmore L. Martin)*
- *The Perkin Reaction and Related Reactions (John R. Johnson)*
- *The Acetoacetic Ester Condensation and Certain Related Reactions (Charles R. Hauser and Boyd. E. Hudson, Jr.)*
- *The Mannich Reaction (F. F. Blicke)*
- *The Fries Reaction (A. H. Blatt)*
- *The Jacobsen Reaction (Lee Irvin Smith)*

- **Average number of pages per chapter: 32**
- **Average number of Table pages per chapter: 11**

Organic Reactions - The Product

- **Volume 71 (2008):** One Chapter!

- *Ionic and Organometallic-Catalyzed Organosilane Reductions (G. L. Larson and James L. Fry)*

- *737 pages including 585 Table pages*

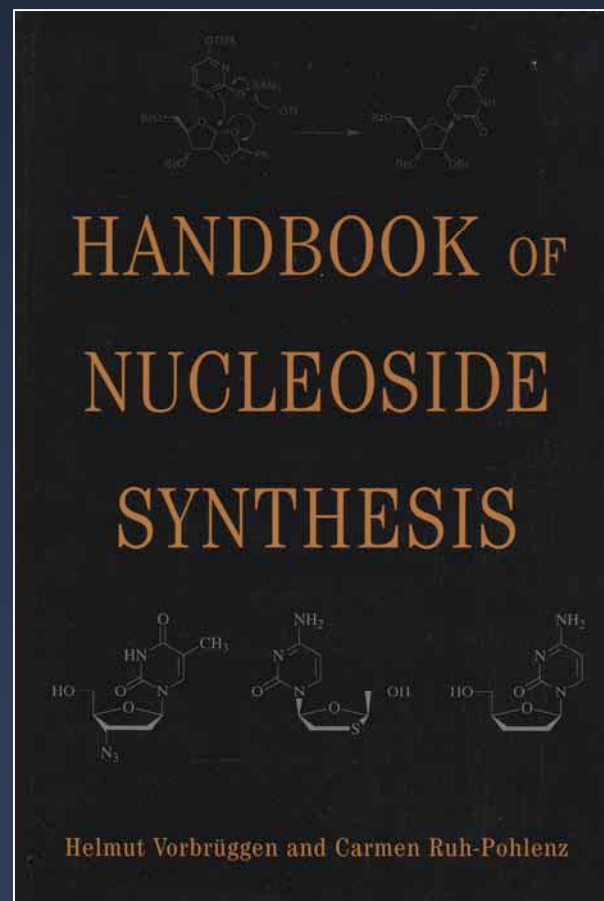
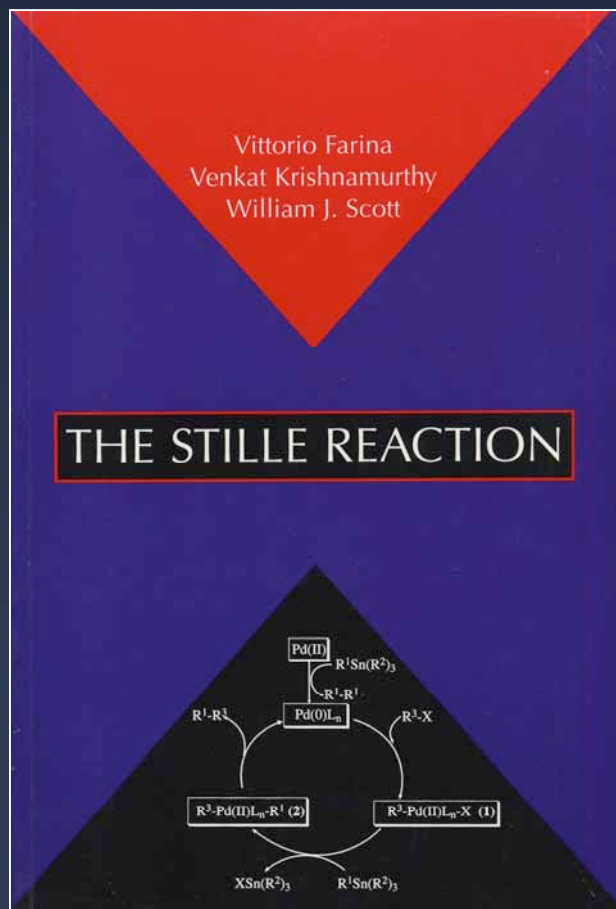
- **Vital Statistics**

Volumes	Chapters	Average No. Chapters/Volume	Shortest (Pages)	Longest (Pages)	Average No. Pages/Chapter	Average No. Table Pages/Chapter
1-25	135	5.4	14	438	85	41
26-50	59	2.4	36	652	246	169
51-71	45	2.1	89	714	272	195

Since 1942, over 351,000 volumes have been sold!

Organic Reactions - The Product

- *Special Single Chapter Volumes Have Been Issued as Books*
 - *Volume 50 - The Stille Reaction (Farina, Krishnamurthy, Scott)*
 - *Volume 57 - Synthesis of Nucleosides (Vorbrüggen, Ruh-Polenz)*
 - *Volume 71 - Ionic and Organometallic-Catalyzed Organosilane Reductions*
 - *Volume 61 and Volume 69 (two chapters by W. Adam et al.)*



Roger Adams Award in Organic Chemistry

- **Purpose:** To recognize and encourage outstanding contributions to research in organic chemistry defined in its broadest sense.
- **Nature:** The award consists of a medallion and a replica, a certificate, and \$25,000. The recipient will deliver a lecture at the Biennial National Organic Chemistry Symposium.
- **Establishment and Support:** The award was established in 1959 by *Organic Syntheses, Inc. and Organic Reactions, Inc.*, and is sponsored by those organizations and the ACS Division of Organic Chemistry.

1959 Sir Derek H. R. Barton	1975 Rolf Huisgen	1991 Gilbert J. Stork
1961 Robert B. Woodward	1977 William S. Johnson	1993 Elias J. Corey
1963 Paul D. Bartlett	1979 Melvin S. Newman	1995 Barry M. Trost
1965 Arthur C. Cope	1981 Nelson J. Leonard	1997 K. Barry Sharpless
1967 John D. Roberts	1983 A. R. Battersby	1999 Dieter Seebach
1969 Vladimir Prelog	1985 Donald J. Cram	2001 Ryoji Noyori
1971 Herbert C. Brown	1987 Jerome A. Berson	2003 Albert Eschenmoser
1973 Georg Wittig	1989 George A. Olah	2005 Jerrold Meinwald
	2007 Samuel J. Danishefsky	

ACS Division of Organic Chemistry Graduate Fellowship

- **Purpose:** The Division of Organic Chemistry annually awards fellowships to outstanding third and fourth year graduate students in organic chemistry. The program has awarded over 300 fellowships since 1981
- **Nature:** The fellowship stipend is \$24,000, and the Fellows travel to the National Organic Symposium to present a poster on their work. Awardees are selected on the basis of research accomplishments. The applicants submit a short original essay as part of the competition.
- **Establishment and Support:** *Organic Reactions, Inc.* and John Wiley have sponsored a Graduate Fellowship since 1994.

1994-5 Alexandra Gould (MIT)
1995-6 Marcey L. Waters (U-Chicago)
1996-7 Bryan King (UNC-Chapel Hill)
1997-8 Christopher Cox (Johns Hopkins)
1998-9 Christopher J. Kuehl (U-Utah)
1999-2000 Joseph M. Ready (Harvard)
2000-1 Gretchen Schroeder (Stanford)

2001-2 Andrew E. Taggi (Johns Hopkins)
2002-2 Stefan Debbert (Cornell)
2003-4 Kacey A. Claborn (U-Washington)
2004-5 Peter D. Jarowski (UCLA)
2005-6 Thomas Snyder (Harvard)
2006-7 Matthew Myers (Columbia)
2007-8 Nicole S. White (UC-Irvine)

Organic Reactions Lectureship Series

- **Purpose:** Since 1988 *Organic Reactions, Inc.* has sponsored a biennial lecture series that brings an outstanding young scientist from overseas to visit the United States for 3-4 weeks.
- **Nature:** The Lectureship carries a stipend to cover their expenses and honorarium and they are invited to visit as many of the Board of Editors institutions as possible.

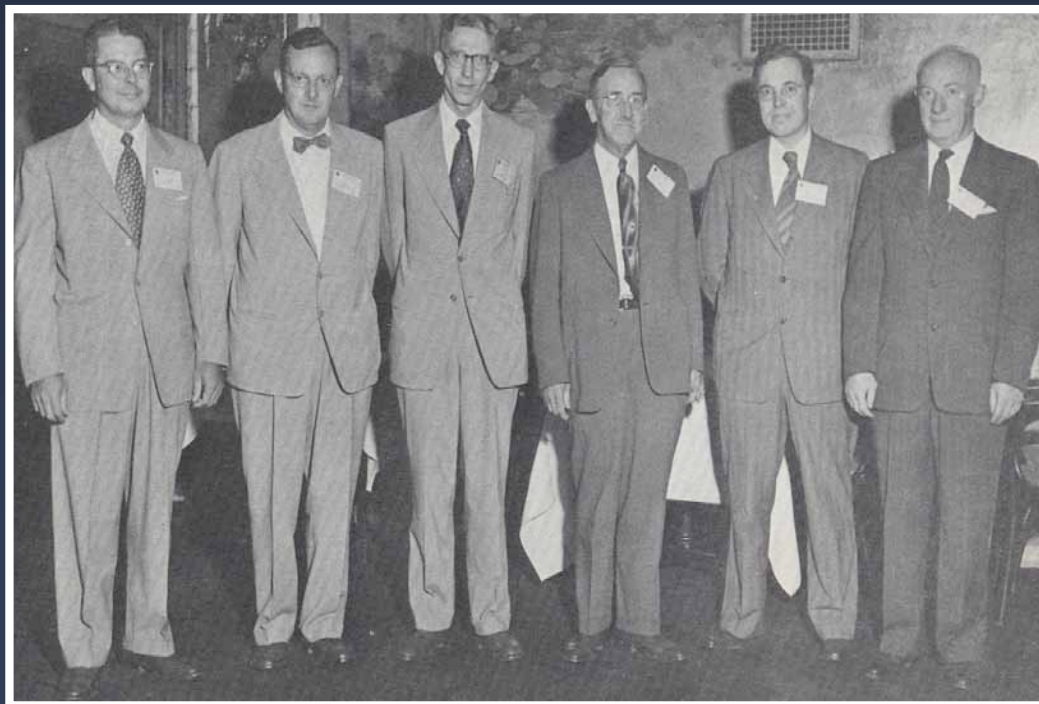
1988-89	Prof. Hisashi Yamamoto	Nagoya University
1990-91	Prof. Manfred Reetz	Universität Marburg
1992-93	Prof. Ian Paterson	Cambridge University
1994-95	Prof. Philip Kocienski	U Southampton
1996-97	Prof. Paul Knochel	Universität Marburg
1999-2000	Prof. Alois Fürstner	Max Planck Institut
2001-2002	Prof. Shu Kobayashi	University of Tokyo
2003-2004	Prof. Mark Rizzacassa	University of Melbourne

Organic Reactions - The Lighter Side

• *Annual Organic Reactions Dinners*

Originally, these were working dinners, held annually at the fall National ACS Meeting and all of the past authors were invited as a token of thanks for their considerable efforts.

As the number of authors grew, these dinners were limited to the Board of Editors, the Board of Directors (and guests) and authors of the most recently completed volumes. These are always well-attended, gala events at outstanding restaurants (courtesy of resident gourmands Drs. Kende and Press).



Organic Reactions - The Lighter Side

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Organic Reactions - The Future

- **Volumes 72-75:** Ten Chapters in preparation
- **Organic Reactions Website**

The screenshot shows the Organic Reactions website interface. At the top, there is a navigation bar with 'HOME', 'ABOUT US', 'CONTACT US', and 'HELP'. Below this is a search bar with options for 'All Content' and 'Publication Titles'. The main content area is titled 'Organic Reactions' and includes a 'Reference Work Home' section with links for 'Editors & Contributors', 'For Authors', 'How to Order', 'Getting Started', and 'Demo'. There is also a 'BROWSE ARTICLES BY' section with links for 'Contents' and 'Reaction Type'. A 'Request a free trial or quotation:' section provides contact information for Americas, Europe/ME/Africa, and Asia/Pacific. The main text describes the database as a comprehensive resource of important synthetic reactions, with over 75,000 reactions and growing. It mentions that the database is fully searchable by structure, substructure, reaction, CAS registry number, chemical name, full text, etc. The chemistry is presented from a preparative point of view, and particular attention is given to reaction limitations, interfering influences, effects of chemical structures, and the selection of experimental conditions. Detailed procedures illustrating the significant modifications of the chemical reaction are also included, as well as tables of all the pertinent examples of the reaction. Each reaction is presented with information about the reaction conditions, yield, products, and is fully referenced with links via ChemPort and CrossRef to the primary literature. The database is updated a minimum of two times per year in order to ensure that you have the most up-to-date information available. A 'HISTORY OF THE SERIES' section states that the aim of Organic Reactions since its initial publication in 1942 has been to assist organic chemists in the design of new experiments by providing 'critical discussions of the more important (synthetic) reactions'. Organic Reactions is unique in providing an authoritative discussion of the topic reaction accompanied by tables that organize all published examples of the reaction being reviewed. This combination of critical discussion and thorough coverage is responsible for the leading position this series occupies for scientists interested in the reactions of organic chemistry. An additional distinctive feature of this series is that it is assembled almost entirely through voluntary dedicated efforts of its authors, editors and editorial assistants.

WILEY
InterScience

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• Europe/ME/Africa: gaibson@wiley.co.uk
• Asia/Pacific: gscheep@johnwiley.com.au

Organic Reactions - reactions that matter

Organic Reactions is a comprehensive database of important synthetic reactions, together with a critical discussion of the reaction and tables that organize all published examples of the topic reactions. Chapters that focus on reactions of current interest are solicited by the board of editors from leading chemists worldwide. The publication process entails a comprehensive peer-review process, ensuring the high quality and attention to detail for which this series is noted. The database currently consists of over 75,000 reactions, and will grow to over 135,000 reactions within the next two years.

Organic Reactions is fully searchable by structure, substructure, reaction, CAS registry number, chemical name, full text, etc. With one-click, you can limit and sort your hitset of results by factors such as publication year, reaction yield, reaction temperature, etc. Organic Reactions development was guided by chemists to meet your needs as a user. This database works with PC's or Macintosh computers, as well as with the user's preferred chemical drawing package (ISIS Draw or ChemDraw).

The chemistry in Organic Reactions is presented from a preparative point of view, and particular attention is given to reaction limitations, interfering influences, effects of chemical structures, and the selection of experimental conditions. Detailed procedures illustrating the significant modifications of the chemical reaction are also included, as well as tables of all the pertinent examples of the reaction. Each reaction is presented with information about the reaction conditions, yield, products, and is fully referenced with links via ChemPort and CrossRef to the primary literature. Organic Reactions is updated a minimum of two times per year in order to ensure that you have the most up-to-date information available.

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Organic Reactions - Adams' Legacy

Organic Reactions and Organic Syntheses are the brainchildren of a great chemist and great teacher - Roger Adams. Both series have continued to thrive since their inceptions in 1921 and 1942, resp.

These publications are unique in that they are published by nonprofit corporations operated entirely by organic chemists to disseminate “how to” information to the world-wide organic chemical community. Both publications depend for their contents on voluntary, uncompensated inputs of organic chemists who spend untold hours searching the literature and writing – simply as a contribution to their profession. The editorial needs of both organizations are also performed by uncompensated volunteers.

“Every time I examine a fresh manuscript, I ask myself ‘Would Roger approve of this one?’.”

(Bob Joyce)

It is a fitting tribute to this giant of 20th century organic chemistry that – even today – chemists in academics and industry from all across the chemical landscape are willing to make their voluntary contributions to his legacies.

Organic Reactions - An Enduring Classic

Acknowledgments

Jeffery B. Press

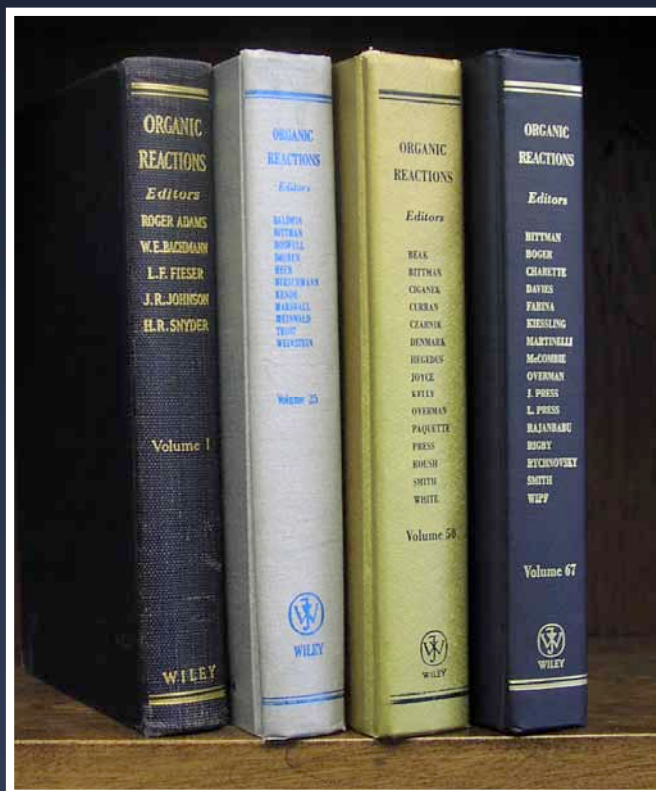
Tyler Brezlin

A. Harold Blatt (1903-1986)

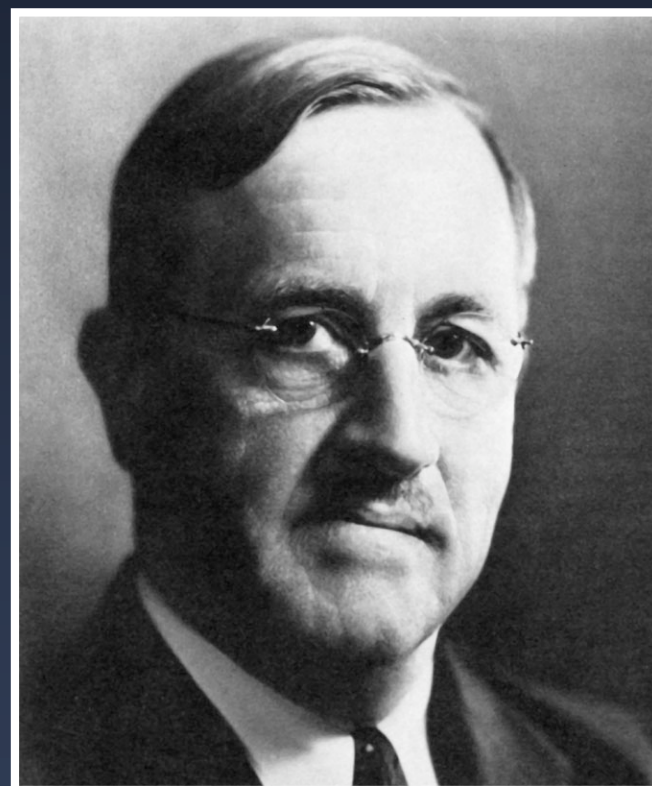
Robert M. Joyce (1915-2002)

Organic Reactions - An Enduring Classic

"If (we) have seen further than others, it is by standing upon the shoulders of giants...." Isaac Newton



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Editor-in-Chief 1942-1960