

Symposium in Honor of

Professor Amos B. Smith, III

Recipient of the 2015 Allan R. Day Award

“Recent Advances in Organic and Medicinal Chemistry”



Saturday, October 17, 2015

Symposium begins at 8:30am

University of Pennsylvania
Department of Chemistry
231 S. 34th Street
Philadelphia, PA 19104-6323

Symposium Chair

Prof. John L. Wood, *Baylor University*

Moderator

Professor Jeffrey D. Winkler, *University of Pennsylvania*

Speakers

Dr. James Empfield
*Most Recent, V.P., Drug Discovery and
Chemistry, Vertex Pharmaceuticals*

Prof. Thomas R. Hoye
University of Minnesota

Dr. John A. McCauley
*Director, Medicinal Chemistry, Merck
Research Laboratories*

Prof. Gary A. Sulikowski
Vanderbilt University

Prof. Carol M. Taylor
Louisiana State University

Dr. Wenqing Yao
*Executive V.P., Discovery Medicinal
and Process Chemistry, Incyte, Inc.*

Prof. Karl J. Hale
Queen's University Belfast

Prof. Marisa C. Kozlowski
University of Pennsylvania

Prof. Jon D. Rainier
University of Utah

Prof. Toshiaki Sunazuka
Kitasato University, Tokyo

Prof. John L. Wood
Baylor University

Prof. Ming Xian
Washington State University

With participation of Professors:

Gary A. Molander, *University of Pennsylvania*, Madeleine M. Joullié, *University of Pennsylvania*,
Franklin A. Davis, *Temple University*, and Carl R. Johnson, *Wayne State University*

To register for the symposium, please send an email to pocclub.account@gmail.com



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Organized by: The Department of Chemistry, University of Pennsylvania, and the Philadelphia Organic Chemists' Club

Symposium Schedule

- 8:30-8:40 a.m. Arrival (light refreshments and coffee)
- 8:40-8:50 a.m. **Professor and Department Chair Gary A. Molander:**
Welcome Message from the Department of Chemistry at Penn
- 8:50-9:00 a.m. **Symposium Chair: Prof. John L. Wood** Baylor University
Opening Remarks
- 9:00-9:30 a.m. Prof. Marisa C. Kozlowski University of Pennsylvania
Fragment Coupling by Oxidative Activation of C-H, N-H, and O-H Bonds
- 9:30-10:00 a.m. Dr. Wenqing Yao Incyte
Discovery of Capmatinib: a Highly Potent and Selective c-MET Inhibitor
- 10:00-10:30 a.m. Prof. Jon D. Rainier University of Utah
Phosphonate Analogs of Glutamate as Platforms for Synthesis and Delivery
- 10:30-11:00 a.m. Coffee Break**
- 11:00-11:30 a.m. Prof. Gary A. Sulikowski Vanderbilt University
Synthesis of Natural Products of Possible Relevance to Human Health
- 11:30-12:00 p.m. Prof. Toshiaki Sunazuka Kitasato University, Tokyo
Total Synthesis of Unique Polycyclic Bioactive Natural Products - Failure Leads to Success
- 12:00-12:30 p.m. Prof. Carol M. Taylor Louisiana State University
Glycosides of Hydroxyproline: in Sickness and in Health
- 12:30-1:50 p.m. Lunch Break**
- 1:50-2:00 p.m. **Moderator: Prof. Jeffrey D. Winkler** University of Pennsylvania
- 2:00-2:30 p.m. Dr. John A. McCauley Merck Research Laboratories
Invention of Hepatitis C Virus NS3/4a Protease Inhibitors: Vaniprevir and Grazoprevir
- 2:30-3:00 p.m. Dr. James Empfield Most Recent, V.P., Drug Discovery and Chemistry, Vertex Pharmaceuticals
Improving the Quality of Drug Candidates
- 3:00-3:30 p.m. Prof. Ming Xian Washington State University
New Chemistry and Chemical Tools for Understanding Reactive Sulfur Species
- 3:30-4:00 p.m. Coffee Break**
- 4:00-4:30 p.m. Prof. Thomas R. Hoye University of Minnesota
The Hexadehydro-Diels-Alder (HDDA) Reaction: A Platform for Discovery
- 4:30-5:00 p.m. Prof. Karl J. Hale Queen's University Belfast
The O-Directed Free Radical Hydrostannation of Disubstituted Alkylacetylenes with $Ph_3SnH/cat. Et_3B$. A Powerful New Method for Trisubstituted Olefin Construction
- 5:00-5:30 p.m. Prof. John L. Wood Baylor University
Recent Efforts in the Synthesis of Complex Natural Products
- 5:30-5:40 p.m. Prof. Madeleine M. Joullié University of Pennsylvania
Allan R. Day Award Presentation to Prof. Amos B. Smith, III
- 5:40-7:00 p.m. Reception - Department of Chemistry, Nobel Hall of Fame**
- 7:30 p.m. Dinner
Prof. Franklin A. Davis Temple University
Prof. Carl R. Johnson Wayne State University