



2014-2015 POCC Lecture Series

May 21, 2015, 8:00 PM

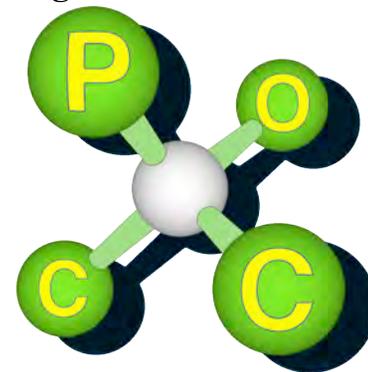
≈ **POCC Industrial Award** ≈

Dr. Thomas M. Stevenson
DuPont Crop Protection

Strategies and Tactics for the Discovery of New Biologically Active Substances: Lessons from 30 Years in Research

Carolyn Hoff Lynch Lecture Hall
Chemistry Building, University of Pennsylvania

The Philadelphia
Organic Chemist's Club



POCClub.org

To join us for dinner before the lecture please contact POCC's assistant secretary Simon Golec (simong1326@gmail.com) at least one week ahead of time.

Thomas M. Stevenson was born on February 4, 1957 in Murphysboro, Illinois. He was educated in the public school systems in Muncie, Indiana and Granite City, Illinois. Stevenson graduated magna cum laude with a B.S. in chemistry from Saint Louis University in 1979 where he carried out undergraduate research on the Heck Reaction with Harold A. Dieck funded by a Monsanto Summer Fellowship. He received a Ph.D. in organic chemistry from the University of Illinois in 1983, under the supervision of Nelson J. Leonard. After postdoctoral research at the University of Geneva in Switzerland from 1983 to 1985 with Wolfgang Oppolzer, Stevenson joined DuPont Crop Protection as a research chemist, rising in ranks to his current position as senior research fellow.

As an undergraduate he won the Merck Index Award as outstanding senior chemistry major at St. Louis University. During his doctoral studies he held a University of Illinois Graduate Fellowship. A member of the ACS, Stevenson was honored with the DuPont 2010 Pedersen Medal. He has also received the DuPont Bolton-Carothers Innovative Science Award (also in 2014), the DuPont Sustainable Growth Excellence Award, and the R&D 100 Award, all in 2008 as well as the ACS Award for Team Innovation and the IPO Inventor of the Year in 2010. In 2013 he was a member of the DuPont team which received the Heroes of Chemistry award from the ACS. The DuPont Crop Protection Scientific Leadership Award which he received in 1994 allowed him to spend a 6 month sabbatical in the labs of Paul Knochel at Phillips-Universität Marburg in Germany during 1996.

Stevenson holds 57 issued United States Patents. He also has given well over 100 presentations at scientific meetings and universities as well as been an author on 30 papers. He also has been active in the ACS and IUPAC as a symposium and topic organizer for both the Organic and AGRO divisions.

Abstract: Starting with a known biologically active material is often the most productive way to discover novel biologically active compounds. In my presentation, I will elaborate a variety of widely applicable strategies to enable the discovery of new molecules. Tactics such as pharmacophore inversion, cyclic imine-cyclic amide bioisosterism, amide inversion and amide transposition offer a way to introduce new synthetic disconnections and targets into known areas of chemistry.