



*The Department of Chemistry at the University of Cincinnati and the Cincinnati Section of the American Chemical Society presents:*

**RALPH & HELEN**

# O E S P E R



**BANQUET  
POSTER SESSION  
& SYMPOSIUM**

*Honoring*

**DAVE  
THIRUMALAI**

*University of Texas at Austin*

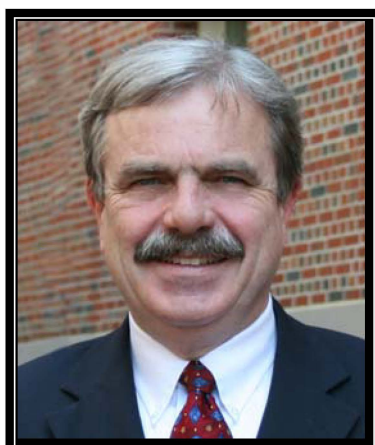
*Friday, November 9, 2018*

**McMicken**  
College of Arts & Sciences

## The Ralph and Helen Oesper Award

**Dave Thirumalai, Collie-Welch Regents Professor in Chemistry at the University of Texas at Austin and the Chair of the Department** is the recipient of the **2018 Oesper Award**, the 38<sup>th</sup> in the series. Looking back over those 37 years, it is safe to say that this Award has endured and continues to gain recognition as a unique format for honoring our most outstanding chemists. The symposium associated with each award is composed of participants selected from former students, collaborators, and colleagues of the awardees, and are selected in close consultation with the recipient. The result of this process frequently is an extraordinary event in which one not only has an opportunity to hear presentations on the frontier of science, but also to learn about the professional and personal interactions that have brought us to that frontier. In any given year, the Oesper Symposium ranks with the most stimulating sessions to be found in chemistry.

**The 2019 Oesper Award will honor Professor Emeritus Mark Wightman, University of North Carolina at Chapel Hill**



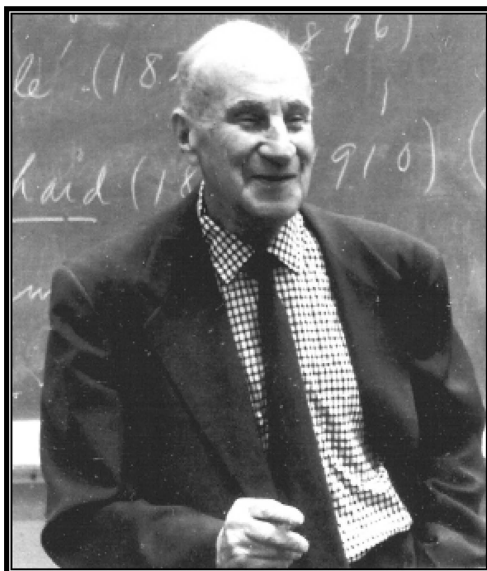
### RESEARCH

Chemical communication between neurons  
Voltammetric sensors

## Previous Honorees

1981	Melvin Calvin (Nobel, 1961)
1982	John C. Sheehan
1983	Fred Basolo
1984	John A. Pople (Nobel, 1998)
1985	Fred McLafferty
1986	Henry Taube (Nobel, 1983)
1987	George C. Pimentel
1988	Konrad E. Bloch (Nobel, 1964; Medicine)
1989	Allen J. Bard
1990	Herbert C. Brown (Nobel, 1979)
1991	Derek H. R. Barton (Nobel, 1969)
1992	Walter H. Stockmayer
1993	James D. Winefordner
1994	Klaus Biemann
1995	Gregory Choppin
1996	Ralph N. Adams
1997	Rudolph A. Marcus (Nobel, 1992)
1998	Jerome A. Berson
1999	George S. Hammond
2000	Mildred Cohn
2001	Harry B. Gray
2002	Royce W. Murray
2003	Alan G. MacDiarmid (Nobel, 2000)
2004	George M. Whitesides
2005	V. Adrian Parsegian
2006	Richard N. Zare
2007	James P. Collman
2008	Alan G. Marshall
2009	Susan Lindquist
2010	Kurt Wüthrich (Nobel, 2002)
2011	Charles P. Casey
2012	Gary Hieftje
2013	Richard Eisenberg
2014	Isiah Warner
2015	Karen Wooley
2016	Maurice Brookhart
2017	Matthew Platz

## Dr. Ralph E. Oesper

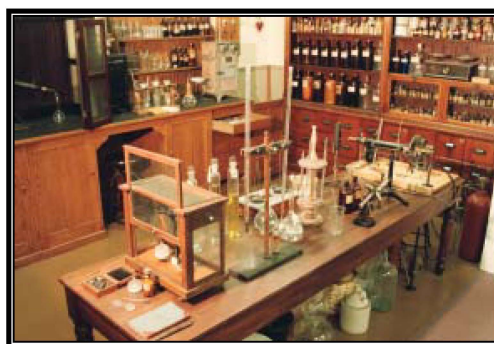


*The late Ralph E. Oesper  
(courtesy of the Oesper Collections,  
University of Cincinnati)*

Ralph Edward Oesper was born on June 14, 1886, in Cincinnati, Ohio. Entering the University of Cincinnati in 1904, he took his B.A. (1908), his M.A. (1909) and his Ph.D. (1914) degrees from the Chemistry Department under Lauder William Jones. After brief periods at New York University and Smith College, Oesper returned to the University of Cincinnati as a member of the chemistry faculty in 1918, where he remained until his retirement in 1951. However, this did not end his service to the University, as he continued to remain active as Professor Emeritus almost to the day of his death, 26 years later, at the age of 91.

Oesper was a prolific writer, publishing more than 300 papers in the fields of analytical, organic, and colloid chemistry, and especially

in the history of chemistry. He also used his mastery of the German language to translate nearly two dozen books in these fields, as well as countless articles. He served on the editorial boards of the *Journal of Chemical Education*, *Chymia*, *Mikrochemie*, and *Mikrochimica Acta*. In recognition of his activities, he received the Eminent Chemist Award of the Cincinnati Section of the ACS, the Dexter Award in the History of Chemistry, The Cincinnati Chemist of the Year Award, and an honorary doctorate from the University of Cincinnati.



*The 19th Century laboratory  
reconstruction in the Oesper Apparatus*



*The Oesper Collection of Rare Books  
and Portraits in the History of Chemistry*

Oesper's many interests and activities, as well as his dedication to the University of Cincinnati, are reflected in his bequest to the Department of Chemistry, which was made in both his name and that of his wife, Helen Wilson Oesper. The bequest has been used not only to establish the annual Oesper Symposium, but to establish a faculty position in Chemical Education and the History of Chemistry, to establish a scholarship for outstanding high school chemistry students, and to purchase new additions to the Oesper Collection of Rare Books and Portraits in the History of Chemistry, which consists of over 15,000 books and journals and nearly 2,000 photographs and prints relating to the history of chemistry. The department is also home to the Oesper Apparatus Museum, which houses over 6,000 artifacts.

# Ralph & Helen Oesper Symposium

Friday, November 9, 2018  
400 B-C TUC

9:00-9:10	<b>Thomas L Beck</b> , Head, Dept. of Chemistry Welcome and Introductory Remarks
<i>Session Chair: Tom Beck</i>	
9:15-9:45	<b>Ruxandra Dima</b> , University of Cincinnati "Multi-scale Modeling of the Nanomechanics of Microtubule Filaments"
9:50-10:20	<b>Carlos Camacho</b> , University of Pittsburgh <i>"Kinetics and Thermodynamics Ideas of Protein Folding? Still in the Running?"</i>
10:25-10:55	<b>Riina Tehver</b> , Denison University <i>"Investigating Myosin VI Stepping Mechanism"</i>
<b>Break(11:00-11:15 a.m)</b>	
<i>Session Chair: Ryan White</i>	
11 :20-11:50	<b>Changbong Hyeon</b> , Korea Institute for Advanced Study <i>"Energetic Costs, Precision, and Transport Efficiency of Molecular Motors"</i>
11 :55-12:25	<b>Ed O'Brien</b> , Pennsylvania State University <i>"Non-equilibrium Coupling of Protein Structure and Function to Translation-elongation Kinetics"</i>
<b>Break for lunch(12:30 - 2:00 p.m.)</b>	
<i>Session Chair: George Stan</i>	
2:15-2:45	<b>Greg Morrison</b> , University of Houston <i>"The Impact of Spatial Constraints on Biomolecular Systems"</i>
2:50-3:20	<b>Margaret Cheung-Wyker</b> , University of Houston <i>"Molecular Underpinnings of Postsynaptic Calcium dependent Calcium Signaling"</i>
3:25-3:55	<b>Mike Hinczewski</b> , Case Western Reserve University <i>"Steering Evolution: what can pulling proteins teach us about population genetics"</i>

<b>Break (4:00–4:20 p.m)</b>	
4:25	<b>Introduction of Oesper Awardee:</b> Ruxandra Dima
4:30- 5:20	<b>Dave Thirumalai</b> , University of Texas at Austin <i>“Roles of Theory and Computations in Biophysics”</i>
5:30- 7:00	Poster Session & Reception (see <b>Call for Submissions:</b> <a href="https://www.artsci.uc.edu/departments/chemistry/alumni-and-community/the-oesper-award-program-and-symposium.html">https://www.artsci.uc.edu/departments/chemistry/alumni-and-community/the-oesper-award-program-and-symposium.html</a> ) TUC Great Hall
7:00- 8:00	ACS Banquet ( <b>Reservations</b> are required: <a href="http://www.acscincinnati.org/oesper">www.acscincinnati.org/oesper</a> ) TUC Great Hall
8:00	Award Presentation, Announcements & After-dinner Speaker <b>George Lorimer</b> , University of Maryland, Dept. of Chemistry & Biochemistry Distinguished University Professor Emeritus <i>TBA</i>

Visit the Oesper website for more information:

<http://www.artsci.uc.edu/departments/chemistry/alumni-and-community/the-oesper-award-program-and-symposium.html>