

## Previous Nelson J. Leonard Lecturers

1986-1987	James P. Collman	Stanford University
1987-1988	Sir Derek H. R. Barton	Texas A&M University
1988-1989	Christopher T. Walsh	Harvard Medical School
1989-1990	Donald J. Cram	University of California, Los Angeles
1990-1991	Richard R. Ernst	Eidgenössische Technische Hochschule, Zürich
1991-1992	Thomas A. Steitz	Yale University
1992-1993	K. Barry Sharpless	Scripps Research Institute
1993-1994	Rudolph A. Marcus	California Institute of Technology
1994-1995	Phillip A. Sharp	Massachusetts Institute of Technology
1995-1996	Martin Rodbell	National Institute for Environmental Health Sciences
1996-1997	John D. Roberts	California Institute of Technology
	Sidney M. Hecht	University of Virginia
	Peter G. Schultz	University of California, Berkeley
	Albert Eschenmoser	Eidgenössische Technische Hochschule, Zürich
1997-1998	F. Sherwood Rowland	University of California, Irvine
1998-1999	Jean-Michel Savéant	Centre National de la Recherche Scientifique
1999-2000	David A. Tirrell	California Institute of Technology
2000-2001	Alastair Ian Scott	Texas A&M University
2001-2002	Amos B. Smith III	University of Pennsylvania
2002-2003	Lawrence J. Marnett	Vanderbilt University
2003-2004	Robert S. Langer	Massachusetts Institute of Technology
2004-2005	Thomas R. Cech	Howard Hughes Medical Institute University of Colorado at Boulder
2005-2006	Joseph M. DeSimone	University of North Carolina-Chapel Hill
2006-2007	Rolf Thauer	Max Planck Institute for Terrestrial Microbiology
2008-2009	Roger Y. Tsien	University of California, San Diego
2011-2012	Ada E. Yonath	Weizmann Institute of Science
2012-2013	Stephen J. Benkovic	The Pennsylvania State University
2013-2014	Jeffrey Alan Hubbell	Ecole Polytechnique Fédérale de Lausanne (EPFL) ETH Zürich



*Nelson J. Leonard Distinguished*

**2014 LECTURER**

**Steven Chu**

Stanford University

*William R. Kenan Professor of Physics and Molecular & Cellular Physiology*



**The Energy and  
Climate Challenge:**

**WE NEED  
A FEW GREAT  
CHEMISTS!**

**September 10, 2014**

4:00 p.m.

Ballroom, Alice Campbell Alumni Center  
601 S. Lincoln Avenue, Urbana, IL

*Reception immediately following lecture in the Atrium*

SCHOOL OF CHEMICAL SCIENCES

**ILLINOIS**  
UNIVERSITY OF URBANA-CHAMPAIGN

## Nelson J. Leonard

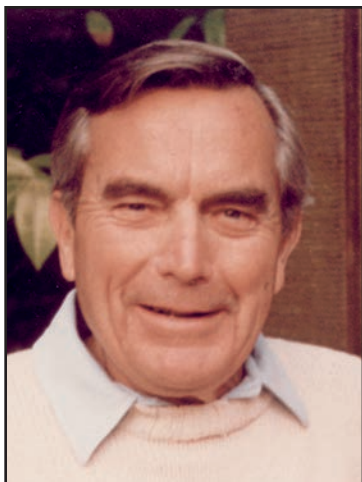
This lecture series is made possible by the Nelson J. Leonard Distinguished Lecturer Fund, established in 1986 by the late Mrs. Louise Leonard, Eli Lilly and Company, the Monsanto Company, Organic Syntheses, Inc., and Professor Leonard's colleagues and students. At the time of his retirement in 1986, Professor Leonard had been at the University of Illinois for 44 years, directed 120 graduate students, and published over 400 papers.

Professor Leonard received his B.S. from Lehigh in 1937, a B.Sc. from Oxford in 1940, a Ph.D. from Columbia in 1942, and a D.Sc. from the University of Oxford in 1983. He also received three honorary doctoral degrees.

Internationally acclaimed for his skill in organic synthesis, his work answered questions of fundamental importance to biochemistry and life processes. He invented fluorescent probes and dimensional probes of enzyme-coenzyme binding sites and DNA double-helical cross sections.

He received many honors including the ACS award for Creative Work in Synthetic Organic Chemistry (1963), the Medal for Creative Research in Synthetic Organic Chemistry of the Chemical Manufacturers Association (1970), the Roger Adams Award in Organic Chemistry (1981), the first Creativity Award, University of Oregon (1994), and the first Paul G. Gassman Distinguished Service Award, Division of Organic Chemistry, American Chemical Society (1994). He was a member of the National Academy of Sciences, a foreign member of the Polish Academy of Sciences, a fellow and past vice-president of the American Academy of Arts and Sciences, a member of the American Philosophical Society, and an honorary member of the Pharmaceutical Society of Japan.

At the time of his passing in the fall of 2006, Professor Leonard was a Faculty Associate in Chemistry at the California Institute of Technology.



## Steven Chu

Steven Chu is the William R. Kenan, Jr., Professor of Physics and Molecular & Cellular Physiology at Stanford University. His research spans atomic and polymer physics, biophysics, biology, biomedicine and batteries. He shared the 1997 Nobel Prize in Physics for the laser cooling and trapping of atoms.

From January 2009 until April 2013, Dr. Chu was the 12th U.S. Secretary of Energy and the first scientist to hold a cabinet position since Ben Franklin. During his tenure, he began ARPA-E, the Energy Innovation Hubs, the Clean Energy Ministerial meetings, and was tasked by President Obama to assist BP in stopping the Deepwater Horizon oil leak. Prior to his cabinet post, he was director of the Lawrence Berkeley National Laboratory, Professor of Physics and Molecular and Cell Biology at UC Berkeley, the Theodore and Francis Geballe Professor of Physics and Applied Physics at Stanford University, and head of the Quantum Electronics Research Department at AT&T Bell Laboratories.



Dr. Chu is a member of the National Academy of Sciences, the American Philosophical Society, the American Academy of Arts and Sciences, the Academia Sinica, and is a foreign member of the Royal Society, the Royal Academy of Engineering, the Chinese Academy of Sciences, and the Korean Academy of Sciences and Technology. He has been awarded 24 honorary degrees, published more than 250 scientific papers, and holds 10 patents.

Gifts in support of the lecture fund may be directed to: University of Illinois Foundation, Attn: Nelson J. Leonard Distinguished Lectures Fund - 1305 W. Green St., Urbana, IL 61801, or find the Giving Contacts at [www.chemistry.illinois.edu/giving/contacts.html](http://www.chemistry.illinois.edu/giving/contacts.html)