

## Previous Nelson J. Leonard Lecturers

1986-1987	James P. Coleman	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 J. Ernst	Eidgenossische 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 Services
1996-1997	John D. Roberts	California Institute of Technology
	Sidney M. Hecht	University of Virginia
	Peter G. Schultz	University of California, Berkeley
	Albert Eschenmoser	Eidgenossische 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. Smmith 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
2014-2015	Steven Chu	Stanford University
2017-2018	Thomas Carell	Ludwig-Maximilians Universität
	Marvin H. Caruthers	University of Colorado
	Thomas Cech	Univeristy of Colorado
	Peter Dervan	California Institute of Technology
	Phillip A. Sharp	Massachusetts Institute of Technology



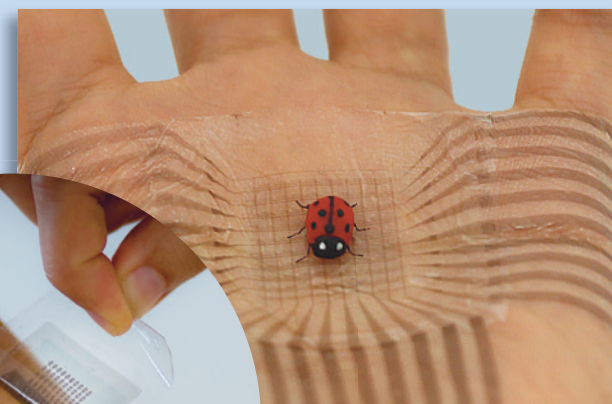
## Nelson J. Leonard Distinguished 2019 LECTURER



## Zhenan Bao

Stanford University

*K.K. Lee Professor and Department Chair  
Department of Chemical Engineering*



**November 1, 2019**

*Skin Inspired Electronics Applications  
in Robotics and Medical Devices*

5:00 p.m.

Ballroom - Alice Campbell Alumni Center

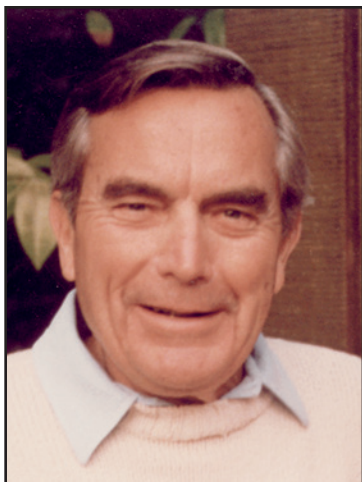
*Reception immediately following lecture*

## 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.

## Zhenan Bao

Zhenan Bao is a K.K. Lee Professor and Department Chair of Chemical Engineering, and by courtesy, a Professor of Chemistry and a Professor of Material Science and Engineering at Stanford University. Prior to joining Stanford in 2004, she was a Distinguished Member of Technical Staff in Bell Labs, Lucent Technologies from 1995-2004. She received her Ph.D. in Chemistry from the University of Chicago in 1995. She has over 450 refereed publications and over 60 US patents. She pioneered a number of design concepts for organic electronic materials and her work has enabled flexible electronic circuits and displays. Recently, she has developed skin-inspired organic electronic materials which resulted in unprecedented performance or functions in medical devices, energy storage, and environmental applications.



Bao is a member of the National Academy of Engineering and the National Academy of Inventors.

Bao was included in *Nature's Ten for 2015* as one of the ten most influential researchers that year, as a "Master of Materials" for her work on artificial electronic skin. In 2017 she received the ACS Award on Applied Polymer Science and L'Oréal-UNESCO For Women in Science Award in the Physical Sciences.

Bao is a co-founder and member of the Board of Directors for C3 Nano and PyrAmes, both silicon-valley venture funded start-ups.



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