

Previous Max T. Rogers
Distinguished Lecturers

1949	M. A. Lauffer	1982	R. A. Marcus*
1950	Milton Burton	1983	Berni J. Alder
1951	Melvin S. Newman	1984	K. Neil Bartlett
1952	Harvey Diehl	1985	Jean-Marie Lehn*
1953	Melvin Calvin*	1986	J. Calvin Giddings
1954	Richard Dodson	1987	Harry B. Gray
1955	Leon Marion	1988	Thomas C. Bruice
1956	Joseph J. Katz	1989	Richard N. Zare
1957	I. M. Klotz	1990	Ahmed H. Zewail*
1958	John D. Roberts	1991	John A. Pople*
1959	Henry Eyring	1992	Gerhard L. Closs
1960	Herbert A. Laitinen	1993	John Bercaw
1961	George Watt	1994	Jerrold Meinwald
1962	Derek H. R. Barton*	1995	Martin Karplus
1963	Peter J. W. Debye*	1996	Paul C. Lauterbur*
1964	Charles Tanford	1997	Graham R. Fleming
1965	E. J. Corey*	1998	Alexander Pines
1966	Manfred Eigen*	1999	Dudley R. Herschbach*
1967	Ronald S. Nyholm	2000	Keith U. Ingold
1968	Herbert C. Brown*	2001	Peter B. Moore
1969	Harden M. McConnell	2002	Michael J. Sailor
1970	F. Albert Cotton	2003	Robert Tycko
1971	Carl Djerassi	2004	John C. Polanyi*
1972	Linus Pauling*	2005	A. Paul Alivisatos
1973	Paul D. Bartlett	2006	R. Graham Cooks
1974	Gerhard Herzberg*	2007	Sir John Meurig Thomas
1975	William N. Lipscomb*	2008	Donald G. Truhlar
1976	Leslie E. Orgel	2009	Chad A. Mirkin
1977	Roald Hoffmann*	2010	Ann E. McDermott
1978	William P. Jencks	2011	Nathan S. Lewis
1979	Ilya Prigogine*	2012	Raymond C. Stevens
1980	Ronald Breslow	2013	Louis E. Brus
1981	Henry Taube*		

* Nobel Laureates

The Max T. Rogers
Lectureship Series in Chemistry
Michigan State University

The Michigan State University Department of Chemistry has helped sponsor an annual lecture series that brings world-renowned scientists to the campus each year. The lecture series was co-sponsored by the Renaud Foundation for 39 years, and hence, traditionally became known as the Renaud Lecture Series. Although the philanthropic trust of the Renaud Foundation was liquidated, the Chemistry Department has continued this prestigious series of lectures.

An anonymous donor has helped spark widespread support for the Lecture Series in the name of Max T. Rogers. Dr. Rogers, a physical chemist who served as Professor of Chemistry at Michigan State University for over 40 years, was a special member of the Department of Chemistry and the University. His outstanding contributions in the area of magnetic resonance spectroscopy, and his enlightened view of science, added prestige and distinction to the Department of Chemistry and the University community. It is a privilege for the MSU Department of Chemistry to continue the lecture series in the name of Professor Max T. Rogers.

MAX T. ROGERS
DISTINGUISHED LECTURESHIP*Presents*Professor
Thomas E. MalloukEvan Pugh Professor
Associate Director, MRSEC
Director, Center for Solar Nanomaterials
Pennsylvania State University4:10 pm
Thurs., Oct. 30, 20144:10 pm
Fri., Oct. 31, 2014

Lecture Topics

“Powering Nano Robots: Autonomous Movement on Small Length Scales”

Thursday, Oct. 30, 2014

4:10 pm, Room 138

Chemistry Building – MSU

“Light Harvesting and Water Splitting in Dye- Sensitized Solar Cells”

Friday, Oct. 31, 2014

4:10 pm, Room 136

Chemistry Building – MSU



Thomas Mallouk, Evan Pugh Professor of Chemistry, Physics, and Biochemistry and Molecular Biology at Penn State University, is one of the pioneers in research on the self-assembly of inorganic molecules. He is a solid-state chemist who is highly regarded for his research in applying inorganic materials to a broad range of problems in chemistry. He and his students showed in 1988 that inorganic crystal lattices can be grown one layer at a time on surfaces by wet chemical techniques. Since then, his lab has used this approach to make surface structures for artificial photosynthesis, chemical sensing, and the separation of left-handed and right-handed forms of the same molecule, which is a critical step in many applications. Currently, his group is developing new materials to address problems in photochemical energy conversion, energy storage, nanoscale electronics, catalysis, environmental remediation, and powered movement on the nanometer length scale.

His work has been recognized with an Exxon/American Chemical Society Solid-State Chemistry Award in 1986, a Presidential Young Investigator Award in 1987, an Alfred P. Sloan Foundation Fellowship in 1988, a Dreyfus Teacher-Scholar Award in 1989, and an Alpha Chi Sigma Outstanding Professor Award in 2003. He was elected a Fellow of the American Association for the Advancement of Science (AAAS), the world's largest general scientific society, in 2006, and is currently chair-elect of the Section on Chemistry of AAAS. He also received a Penn State Priestley Undergraduate Teaching Award in 2006, followed by the Penn State Schreyer Honors College Teaching Award in 2007. Mallouk

won the American Chemical Society National Award in the Chemistry of Materials in 2008 and was elected a Fellow of the American Academy of Arts and Sciences in 2009. He was named an Evan Pugh professor at Penn State in 2010. In August 2013 he was selected as Fellow of the American Chemical Society.

Mallouk is the author or co-author of over 350 research publications and has edited four books on solid-state synthesis, interfacial chemistry, and chemical sensors. He has been associate editor of the *Journal of the American Chemical Society* since 1996, and has served on editorial boards for the *Journal of Solid State Chemistry*, *Advanced Functional Materials*, *Chemistry and Materials*, the *Canadian Journal of Chemistry*, the *Accounts of Chemical Research*, and *Nano Letters*. Mallouk was the director of the Center for Nanoscale Science, a Materials Research Science and Engineering Center supported by the National Science Foundation, from 2005-2010, and he currently is the associate director of the Center. He also has been director of the Center for Solar Nanomaterials at Penn State since 2010.

Mallouk holds a number of patents for innovations that resulted from his research. He has been Chief Scientist for NuVant Systems Inc., an electrochemical technology company, since 2000. Together with then-graduate student Cary Supalo, Mallouk headed the Independent Laboratory Access for the Blind (ILAB) project at Penn State from 2004-2010, developing laboratory techniques and technology for students who are blind or have low vision. Their work resulted in the establishment of Independence Science, LLC, a company that provides materials, resources, and advice to students and helps institutions meet the compliance goals of the Americans with Disabilities Act.

Mallouk earned a bachelor's degree in chemistry at Brown University in 1977 and a doctoral degree in chemistry at the University of California at Berkeley in 1983. He was a member of the Department of Chemistry and Biochemistry at the University of Texas at Austin as assistant professor from 1985 to 1989, associate professor from 1989 to 1991, and professor from 1991 to 1993. He joined the faculty at Penn State in 1993, and in 1998 he was named the DuPont Professor of Materials Chemistry. He also was named a professor of Physics in 2005, and a professor of Biochemistry and Molecular Biology in 2012.