

The Twenty Third Annual

**DOW/KARABATSOS  
DISTINGUISHED  
LECTURESHIP  
IN THE  
CHEMICAL SCIENCES**

Presents

**Professor  
Robert H. Grubbs**

**Victor and Elizabeth Atkins  
Professor of Chemistry  
Division of Chemistry and  
Chemical Engineering  
California Institute of Technology**

Sponsored by:

**Dow Chemical Company**

**Monday and Tuesday  
October 27–29, 2003**

Department of Chemistry  
Michigan State University

**Previous  
Dow/Karabatsos  
Lecturers**

- 1981 George A. Olah\*
- 1982 Gabor A. Somorjai
- 1983 Allen J. Bard
- 1984 John H. Sinfelt
- 1985 Robert G. Bergman
- 1986 Paul von R. Schleyer
- 1987 Robert H. Grubbs
- 1988 F. Albert Cotton
- 1989 Julius Rebek
- 1990 Tobin J. Marks
- 1991 Nicholas J. Turro
- 1992 Marye Anne Fox
- 1993 Richard H. Holm
- 1994 John I. Brauman
- 1995 Josef Michl
- 1996 JoAnne Stubbe
- 1997 Dale L. Boger
- 1998 Fred W. McLafferty
- 1999 Daniel G. Nocera
- 2000 K. C. Nicolaou
- 2001 Richard R. Schrock
- 2002 Jean M.J. Fréchet

*\*Nobel Prize Winner*

The Dow/Karabatsos Lecture Series in chemistry has enriched the experience of workers in the chemical sciences at MSU for over two decades. As is evident from the list of distinguished speakers, this lectureship has provided opportunities for students and faculty to interact with outstanding researchers from all areas of chemistry. We are grateful to Dow for their ongoing support that permits us to continue this tradition of extending invitations to outstanding scholars and teachers such as Professor Robert H. Grubbs. The Department has started an endowment for this lecture series in honor of Professor Gerasimos J. Karabatsos.

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U N I V E R S I T Y

*MSU is an Affirmative Action-  
Equal Opportunity Institution*

## Lecture Topics

**Monday Oct. 27, 2003**

*“Design and Synthesis of Catalysts for Olefin Metathesis”*

4:30 p.m., Room 138  
Chemistry Building – MSU

**Tuesday Oct. 28, 2003**

*“Applications of Olefin Metathesis in the Synthesis of Large and Small Molecules”*

4:00 p.m., Room 138  
Chemistry Building – MSU



Born February 27, 1942, near Possum Trot, Kentucky. B.S., Chemistry, University of Florida, Gainesville, Florida, 1963; M.S., M. Battiste, 1965. Ph.D., R. Breslow, Chemistry, Columbia University, New York, New York, 1968. NIH Post-doctoral Fellow, J. P. Collman, Chemistry, Stanford University, 1968-69.

Dr. Robert H. Grubbs is the Victor and Elizabeth Atkins Professor of Chemistry at the California Institute of Technology, Pasadena, California, USA, where he has been a faculty member since 1978. Before moving to Caltech, he was at Michigan State University from 1969 to 1978 achieving the rank of Associate Professor. The research group of Grubbs is involved in the design, synthesis, and mechanistic studies of complexes that catalyze basic organic transformations. The major focus of the group over the past few years has been on the olefin metathesis reaction. To

optimize the utility of this reaction, new catalysts have been developed that are extremely tolerant of organic functional groups. Due to their high-activity, functional group tolerance, and ease of use, these ruthenium based catalysts have found wide applications in organic and polymer synthesis. He has 60+ patents and 400+ publications.

Professor Grubbs' awards have included Alfred P. Sloan Fellow (1974-76), Camille and Henry Dreyfus Teacher-Scholar Award (1975-78), Alexander von Humboldt Fellowship (1975), ACS National Award in Organometallic Chemistry (1988), the Arthur C. Cope Scholar Award (1990), the ACS Award in Polymer Chemistry (1995), the Nagoya Medal of Organic Chemistry (1997), the Fluka Reagent of the Year (1998), the Mack Memorial Award (1999), the Benjamin Franklin Medal in Chemistry (2000), the ACS Herman F. Mark Polymer Chemistry Award (2000), the ACS Herbert C. Brown Award for Creative Research in Synthetic Methods (2001), the ACS Arthur C. Cope Award (2002), the ACS Award for Creative Research in Homogeneous or Heterogeneous Catalysis (2003), The Richard C. Tolman Medal (Southern California Section ACS - 2003), and the ACS Tetrahedron Prize for Creativity in Organic Chemistry (2003). He was elected to the National Academy of Sciences in 1989, and a Fellow of the American Academy of Arts and Sciences in 1994.