



**Mitsui Chemicals**

<http://www.mitsui-chem.co.jp/e/>

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December 22, 2008

Mitsui Chemicals, Inc.

## **Mitsui Chemicals to Host “The Fourth Mitsui Chemicals International Symposium on Catalysis Science (MICS2009)”**

Mitsui Chemicals, Inc. (“MCI”) hereby announces it will host “The Fourth Mitsui Chemicals International Symposium on Catalysis Science (MICS2009)” as follows.

### Details

- 1. Theme :** Catalysis Science and Its Contribution to Future Human Development
- 2. Date :** March, 11-12, 2009
- 3. Venue :** Kazusa Akademia Hall (Kisarazu, Chiba Prefecture, Japan)
- 4. Lectures :** Please see Appendix for detailed schedule.

### **Plenary Lectures**

**Prof. Roald Hoffmann** (Cornell University, U.S.A.)

The 1981 Nobel Prize Laureate in Chemistry

“Chemistry’s Essential Tensions : Different Ways of Looking at a Science”

**Emeritus Prof. Henri B. Kagan** (Université Paris-Sud, France)

The 2001 Wolf Prize Laureate in Chemistry

“Asymmetric Catalysis, a Promising Route to Biologically Active Compounds  
or Their Synthetic Intermediates”

### **Invited Lectures**

**Emeritus Prof. Bernard Witholt** (Swiss Federal Institute of Technology Zurich)

“Industrial Chemistry with Whole Cell Biocatalysts”

**Dr. Robert J. Farrauto** (BASF Catalysts LLC, U.S.A.)

“Automotive Emission Control : Past, Present and Future”

**Prof. Kyriacos C. Nicolaou** (The Scripps Research Institute  
and the University of California, San Diego, U.S.A.)

“Catalysis in Total Synthesis”

**Prof. Barry M. Trost** (Stanford University, U.S.A.)

“On Inventing Reactions for Atom Economy”

**Prof. Ei-ichi Negishi** (Purdue University, U.S.A.)

“Transition Metal-Catalyzed Organometallic Reactions  
That Have Revolutionized Organic Synthesis”

**Prof. Yasuhiro Iwasawa** (The University of Tokyo, Japan)

“Chemical Design and Dynamic Structures on Catalyst Surfaces  
for Innovative Processes”

**Prof. Masakatsu Shibasaki** (The University of Tokyo, Japan)

“Recent Progress in Asymmetric Two-Center Catalysis”

**Dr. Shin-ichiro Tawaki** (Mitsui Chemicals, Inc., Japan)

“Development of Novel Biocatalysts for the Production  
of Useful Chemicals from Biomass”

## **5. The Award Ceremony of the “2009 Mitsui Chemicals Catalysis Science Award” and Commemorative Lectures :**

The award ceremony will be held for the winners of the award, and commemorative lectures by the winners will be presented.

### **Commemorative Lectures**

1) The Winners of the “2009 Mitsui Chemicals Catalysis Science Award”

**Prof. John F. Hartwig** (University of Illinois, U.S.A.)

**Prof. Kyoko Nozaki** (The University of Tokyo, Japan)

2) The Winners of the “2009 Mitsui Chemicals Catalysis Science Award  
of Encouragement”

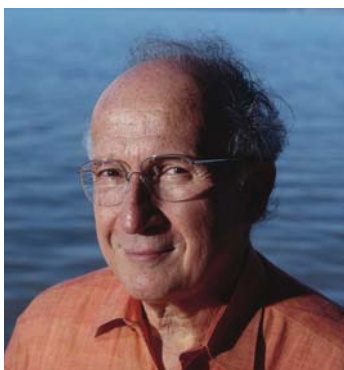
**Dr. Shigeki Matsunaga** (The University of Tokyo, Japan)

**Assistant Prof. Yoshiaki Nakao** (Kyoto University, Japan)

MCI plays a leading role in the field of catalysis science. MCI continuously works on leading-edge catalyst development by utilizing its long-standing scientific network in catalysis science contributing to advancements in affluent society through the creation of high-performance materials and substances.

Program of “The Fourth Mitsui Chemicals International Symposium  
on Catalysis Science (MICS2009)”

March 11 (Wed.) 2009		March 12 (Thur.) 2009	
10:00 ~ 10:10	Opening Ceremony	10:00 ~ 10:50	<Plenary Lecture> <b>Emeritus Prof. Henri B. Kagan</b> (Université Paris-Sud, France) The 2001 Wolf Prize Laureate “Asymmetric Catalysis, a Promising Route to Biologically Active Compounds or Their Synthetic Intermediates”
10:10 ~ 11:00	<Plenary Lecture> <b>Prof. Roald Hoffmann</b> (Cornell University, U.S.A.) The 1981 Nobel Prize Laureate “Chemistry’s Essential Tensions : Different Ways of Looking at a Science”	10:50 ~ 11:40	<b>Prof. Masakatsu Shibasaki</b> (The University of Tokyo, Japan) “Recent Progress in Asymmetric Two-Center Catalysis”
11:00 ~ 11:50	<b>Prof. Yasuhiro Iwasawa</b> (The University of Tokyo, Japan) “Chemical Design and Dynamic Structures on Catalyst Surfaces for Innovative Processes”	13:10 ~ 14:00	<b>Dr. Robert J. Farrauto</b> (BASF Catalysts LLC, U.S.A.) “Automotive Emission Control : Past, Present and Future”
13:50 ~ 14:40	<b>Emeritus Prof. Bernard Witholt</b> (Swiss Federal Institute of Technology Zurich, Switzerland) “Industrial Chemistry with Whole Cell Biocatalysts”	14:00 ~ 14:50	<b>Prof. Kyriacos C. Nicolaou</b> (The Scripps Research Institute and the University of California, San Diego, U.S.A.) “Catalysis in Total Synthesis”
14:40 ~ 15:30	<b>Dr. Shin-ichiro Tawaki</b> (Mitsui Chemicals, Inc., Japan) “Development of Novel Biocatalysts for the Production of Useful Chemicals from Biomass”	15:10 ~ 16:00	<b>Prof. Barry M. Trost</b> (Stanford University, U.S.A.) “On Inventing Reactions for Atom Economy”
15:50 ~ 17:20	The Award Ceremony & Commemorative Lectures	16:00 ~ 16:50	<b>Prof. Ei-ichi Negishi</b> (Purdue University, U.S.A.) “Transition Metal-Catalyzed Organometallic Reactions That Have Revolutionized Organic Synthesis”
	<u>The Winners of the “2009 Mitsui Chemicals Catalysis Science Award”</u> <b>Prof. John F. Hartwig</b> (University of Illinois, U.S.A.) <b>Prof. Kyoko Nozaki</b> (The University of Tokyo, Japan)	16:50 ~ 16:55	Closing Ceremony
	<u>The Winners of the “2009 Mitsui Chemicals Catalysis Science Award of Encouragement”</u> <b>Dr. Shigeki Matsunaga</b> (The University of Tokyo, Japan) <b>Assistant Prof. Yoshiaki Nakao</b> (Kyoto University, Japan)		



**Prof. Roald Hoffmann**



**Em. Prof. Henri B. Kagan**



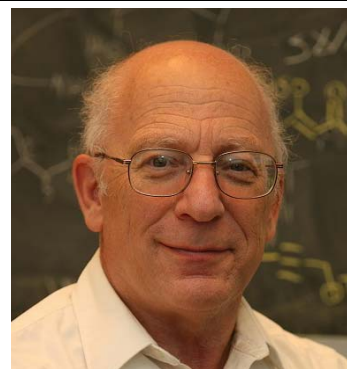
**Em. Prof. Bernard Witholt**



**Dr. Robert J. Farrauto**



**Prof. Kyriacos C. Nicolaou**



**Prof. Barry M. Trost**



**Prof. Ei-ichi Negishi**



**Prof. Yasuhiro Iwasawa**



**Prof. Masakatsu Shibasaki**



**Dr. Shin-ichiro Tawaki**