

UNIVERSITÄT ZU KÖLN  
Institut für Organische Chemie  
PROF. DR. A. BERKESSEL  
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Professor Sason Shaik  
Department of Organic Chemistry  
The Hebrew University  
Givat Ram Campus  
Jerusalem 91904  
Israel

March 15, 2004

### **Kurt-Alder-Lectureship 2004**

Dear Professor Shaik:

The Institute of Organic Chemistry of Cologne University maintains two lecture series in honour of Kurt Alder and of Otto Bayer, both of whom are closely related to this department. This year's lecture will be in the honour of Kurt Alder, former head of the department and Nobel laureate of 1950. The invitation to give this lecture is an award to outstanding scientists in the field of organic chemistry and related disciplines. The attached list of former Kurt-Alder- and Otto-Bayer-lecturers comprises 17 world-leading scientists, including three Nobel laureates.

As the current chairman of the Kurt-Alder-Foundation, it is my pleasure to ask you to accept the invitation to be the Kurt-Alder-Lecturer 2004. This award is offered to you based on your ground-breaking work in theoretical and computational chemistry, aiming at the understanding of chemical and biochemical reactivity, in particular with respect to the revolutionary concept of multistate reactivity in organometallic chemistry and catalysis. The Kurt-Alder-Lecture 2004 is scheduled for Monday, June 28, 2004. My colleagues and I would greatly appreciate if you could come to Cologne for a couple of days, so that there will be sufficient time for scientific discussion with both our faculty and students.

Dear Professor Shaik, my colleagues and I would be very honoured if you could accept this award and be the Kurt-Alder-Lecturer 2004. Please let us know about your decision at your earliest convenience.

With kind regards

A handwritten signature in black ink, appearing to read 'A. Berkessel', written in a cursive style.

Prof. Dr. Albrecht Berkessel

**List of former Kurt Alder- and Otto Bayer- Lecturers:**

2003 Hisashi Yamamoto, University of Chicago and Nagoya University

2002 Kyriakos C. Nicolaou, Scripps Research Institute, La Jolla

2002 Helmut Schwarz, Technische Universitaet Berlin

2001 Albert Eschenmoser, ETH Zuerich and Scripps Research Institute, La Jolla

2000 Ryoji Noyori, Nagoya University (Nobel Laureate 2002)

1999 Dieter Seebach, ETH Zuerich

1998 Ronald Breslow, Columbia University, New York

1997 Manfred Reetz, Max-Planck-Institut, Muelheim

1996 Francois Diederich, ETH Zuerich

1995 Richard Smalley, Rice University, Houston (Nobel Laureate 1996)

1994 Guenther Wilke, Max-Planck-Institut, Muelheim

1993 Heinz A. Staab, Max-Planck-Institut, Heidelberg

1992 E. J. Corey, Harvard, Cambridge MA (Nobel Laureate 1990)

1992 Satoru Masamune, MIT, Cambridge MA

1991 Alan Battersby, Cambridge UK

1991 Teruaki Mukaiyama, Science University, Tokio

1990 W. von E. Doering, Harvard, Cambridge MA

# Kurt-Alder- Vorlesung

**Prof. Sason Shaik**  
Hebrew University, Jerusalem

**One Reagent, Many Pathways:  
Two State and Multi-State Reactivity Patterns**  
- Bond Activation Reactions by Metal-Oxo Reagents -



**Montag, 28. Juni 2004**  
**17 Uhr c.t.**



**Kurt-Alder-Hörsaal**  
**Chemische Institute**  
**der Universität zu Köln**

Greinstr. 4-6, 50939 Köln



Universität zu Köln  
Institut für Organische Chemie

# CERTIFICATE

This is to certify that

**Professor Sason Shaik**

has given the **Kurt-Alder-Lecture 2004**

*One Reagent, Many Pathways:  
Two State and Multi-State Reactivity Patterns  
- Bond Activation Reactions by Metal-Oxo Reagents -*

Cologne, June 28<sup>th</sup> 2004



Prof. Albrecht Berkessel  
President of the Kurt-Alder Foundation

Former Kurt-Alder lecturers:

1990 Prof. William von Eggers Doering  
1991 Prof. Alan R. Battersby  
1992 Prof. Elias J. Corey  
1994 Prof. Günther Wilke  
1995 Prof. Richard E. Smalley  
1996 Prof. François Diederich  
1998 Prof. Ronald Breslow  
2000 Prof. Ryoji Noyori  
2001 Prof. Albert Eschenmoser  
2002 Prof. K.C. Nicolaou  
2004 Prof. Sason Shaik