

OMCOS 7

Kobe
1993

OMCOS 7, Kobe, September 19-23, 1993

International Union of Pure and Applied Chemistry

Kinki Chemical Society of Japan
Chemical Society of Japan
Society of Synthetic Organic Chemistry, Japan
Pharmaceutical Society of Japan
Society of Polymer Science, Japan
Catalysis Society of Japan
Agricultural Chemical Society of Japan

International Scientific Committee:

H. Alper (Canada);
I. P. Beletskaya (Russia);
P. Caubère (France);
M. L. H. Green (UK);
L. S. Hegedus (USA);
R. W. Hoffmann (Germany);
B. H. Lipshutz (USA);
S.-I. Murahashi (Japan);
H. Nozaki (Japan);
A. Ricci (Italy);
D. Seebach (Switzerland);
H. Yamamoto (Japan)

National Organizing Committee:

Chairman: S.-I. Murahashi
Honorary Chairman: H. Nozaki
Advisory Board: N. Hagihara; T. Mukaiyama; Z. Yoshida

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K. Morita
Members: M. Hidai; M. Ishikawa; Y. Ito*;
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R. Noyori*;
H. Ogoshi; Y. Ohshiro; T. Onoda; H. Sakurai; H. Seki; Y. Shibahara;
N. Sonoda; K. Sonogashira; A. Suzuki;
S. Torii; J. Tsuji; K. Utimoto*;
A. Yamamoto; H. Yamamoto*;
K. Yamamoto*

Program Committee

Ad hoc Committee:

K. Fuji; Y. Fujiwara; T. Hayashi; T. Hiyama;
T. Hosokawa; A. Hosomi; K. Itoh;
N. Kambe; T. Katsuki; H. Kurosawa;
T. Mitsudo; S. Miyano; M. Mori; T. Nakai;
K. Oshima; J. Otera; F. Sato; S. Takahashi;
H. Takaya; K. Tamao; M. Tanaka; K. Tani;
K. Tatsumi; M. Uemura; S. Uemura;
Y. Wakatsuki; T. Yamamoto; Y. Yamamoto

Symposium Registration:

The symposium registration numbers were 1015, final number of participants was 985, and the number of accompanying persons was 32. The participants came from 27 countries. The registration fee for active partici-

pants was ¥ 40,000, for the young scientists ¥15,000, and for the accompanying persons ¥10,000. Travel Trust Program of International Science Foundation (ISF) supported 9 chemists from foreign countries.

Scientific Session:

The scientific session includes 7 plenary lectures (45 min. + 5 min. discussion), 15 invited lectures (25 min. + 5 min. discussion), and 45 short lectures (12 min. + 2 min. discussion). The symposium was held at the main hall in one session except for the afternoon session on 20th (Monday), where parallel two sessions of short lectures were organized. The main hall was always full of participants; therefore, a 200 inch video monitor was settled in another room during 22nd-23rd.

Poster Session:

310 posters were presented. All posters were allowed to expose from 20th to 23rd, and two poster sections were organized on 22nd afternoon (15:50-17:20) and 23rd afternoon (13:35-15:00). The following four poster presentations received the poster award: D. S. Matteson (Washington State University); R. van Benthem (University of Amsterdam); K. Kondo (University of Tokyo); H. Henniges (Geroge-August Universität Göttingen).

Opening Ceremony:

The Opening Ceremony opened at 9:00AM

on 20th at the Main Hall of Kobe International Conference Center. S.-I. Murahashi (Chairman of the Organizing Committee, Osaka University) gave the opening address. T. Tachi (President of Kinki Chemical Society, Kenegafuchi Chemical Co.), K. Morita (Chairman of Finance Committee, Takeda Pharmaceutical Co.), and I. P. Beletskaya (President of the Division of Organic Chemistry, IUPAC, Moscow State University) gave their addresses.

Social Program:

Welcome Get-together was held on Sunday evening at the conference site (free), Reception was held on 20th evening at Hotel Gauffles Ritz (free), and Banquet was held on 22nd evening at Portopia Hotel. A. Yamamoto (Waseda University) gave an impressive dinner talk.

The organizing committee arranged two excursions. One was visit to Himeji Castle (the national treasure), and the other was visit to Sake Brewery and Kobe Harbor. The organizing committee also arranged the family programs; the lecture of Japanese flower arrangement and tea ceremony (the traditional Japanese villa), Kobe half day tour, and Kyoto full day tour.

Closing Ceremony:

On 23rd, the closing ceremony was held. After the speech of the chairman S.-I. Murahashi, B. Lipshutz gave welcome address

as a chairman of the next OMCOS-8, which was held in Santa Barbara, California. The members of the Ad hoc Committee who actually ran this symposium were introduced. The main conference hall was still full of the participants.

Proceeding:

Plenary and invited lectures were published in the IUPAC Journal, Pure and Applied Chemistry, Vol. 66, No 7, July, 1994, Blackwell Scientific Publication (Oxford).

Symposium Schedule:

20th September (Monday)

9:00–9:30 Opening Ceremony

Chairperson: Ryoji Noyori

9:30 P-1 Steven V. Ley (University of Cambridge, U.K.)
Tricarbonyliron Lactone Complexes in Synthesis

Chairperson: Keith Smith

10:20 I-1 Ichiro Shinkai (Merck Research Laboratories, U.S.A.)
Design and Development of Practical Asymmetric Syntheses

Chairperson: Alois Fürstner

11:20 I-2 Bruce H. Lipshutz, R. Keil, M. Wood
(University of California, Santa Barbara, U.S.A.)
New Synthetic Methodology Based on Organocopper Chemistry

Chairperson: Ei-ichi Negishi

11:50 I-3 Keisuke Suzuki (Keio University, Japan)
Novel Lewis Acid Catalysis in Organic Synthesis

13:20–15:05 Short Lectures (S-1–26, Parallel Session)

Chairperson: Eun Lee

17:20 I-4 Claude Mercier, P. Chabardes (Rhône-Poulenc Recherches, France)
Organometallic Chemistry in Industrial Vitamine A and Vitamine E Synthesis

Chairperson: Isao Kuwajima

17:50 P-2 Larry E. Overman (University of California, Irvine, U.S.A.)
New Organometallic Strategies for Preparing Polycyclic Ring Systems

19:00— Reception

21st September (Tuesday)

Chairperson: Kiitiro Utimoto

9:00 P-3 Manfred Schlosser, G. Katsoulos, H. Geneste (Université de Lausanne, Switzerland)
Site Selective Hydrogen/Metal Exchange: Competition and Cooperation between Superbases and Neighboring Groups

Chairperson: Donald S. Matteson

9:50 I-5 Kenji Koga (University of Tokyo, Japan)
Asymmetric Synthesis Mediated by Chiral Ligands

10:50–11:20 Short Lecture (S-27–28)

Chairperson: Sigeru Torii

11:20 I-6 Dieter Hoppe (University of Münster, Germany)
Enantioselective Synthesis via Sparteine-Induced Asymmetric Deprotonation

Chairperson: Armin de Meijere

11:50 I-7 Jack W. Faller, M. R. Mazzieri, J. T. Nguyen, J. Parr (Yale University, U.S.A.)
Controlling Stereochemistry in C–C and C–H Bond Formation with Electronically Asymmetric Organometallics and Chiral Poisons

Chairperson: Akira Nakamura

12:20 I-8 S. L. Griffiths, C. F. Marcos, S. Perrio, Susan E. Thomas, A. T. Wierchleyski (Imperial College of Science, Technology and Medicine, U.K.)
Sulfoxides and Stereochemical Control in Organometallic Chemistry

12:50— Excursion

22nd September (Wednesday)

Chairperson: Jean Normant

9:00 P-4 Gerard van Koten (Utrecht University, The Netherlands)
Novel Group Transfer Reactions of Organozinc Compounds. Mechanistic Aspects and Application in Selective Synthesis

Chairperson: Yoshihiko Moro-oka

9:50 I-9 Fernando Montanari (University of Milano, Italy)
Biomimetic Oxygenations Catalysed by Metallo-Porphyrins and Metallo-Porphinoids Bearing Co-catalytic Functions

Chairperson: Irina P. Beletskaya

10:50 I-10 Tamejiro Hiyama, Y. Hatanaka (Tokyo Institute of Technology, Japan)
Palladium-Catalyzed Cross-Coupling Reaction of Organometallics through Activation with Fluoride Ion

Chairperson: Jan-E. Bäckvall

11:20 I-11 Xiyan Lu, S. Ma, J. Ji, G. Zhu (Shanghai Institute of Organic Chemistry, P.R.C.)

Construction of α -Methylene- γ -butyrolactones from Acyclic Ester Precursors

11:50-15:20 Short Lecture (S-29-38)

15:50-17:20 Poster Session (Session A) [Rooms 501-505]

Chairperson: Hisanobu Ogoshi

17:20 I-12 **Jean-Pierre Sauvage** (Université Louis Pasteur, France)
Transition Metals as Assembling and Templating Species: From Catenanes and Knots to Multi-Porphyrin Clusters and Rotaxanes

Chairperson: Reinhard W. Hoffmann

17:50 P-5 **Hideki Sakurai** (Tohoku University, Japan)
An Approach to Stable Organic Molecules of the Triplet State via Organo silicon Route

19:00- Banquet

23rd September (Thursday)

Chairperson: Keiji Yamamoto

9:00 P-6 **Richard R. Schrock** (Massachusetts Institute of Technology, U.S.A.)
Recent Advances in the Chemistry and Applications of High Oxidation State Alkylidene Complexes

Chairperson: Pierre Henri Dixneuf

9:50 I-13 **Shinji Murai** (Osaka University, Japan)
Close to a Dream — Catalytic Addition of Arenes to Alkenes

10:50-12:35 Short Lecture (S-39-45)

13:35-15:00 Poster Session (Session B) [Rooms 501-505]

Chairperson: Yoshihiko Ito

15:00 I-14 **Andreas Hafner, R. O. Duthaler** (Ciba-Geigy AG, Switzerland)
Ti-Carbohydrate Complexes: A New Tool in Asymmetric Synthesis

Chairperson: Jean-Pierre Genet

15:30 I-15 **T. V. RajanBabu, A. L. Casalnuovo**
(DuPont Central Research and Development, U.S.A.)
Asymmetric Carbon-Carbon Bond Forming Processes via Organometallic Reagents

Chairperson: Hitosi Nozaki

16:00 P-7 **K. Barry Sharpless** (The Scripps Research Institute, U.S.A.)
Recent Advances in Asymmetric Catalysis

16:50- Closing Remarks

Registration and Welcome Get-Together



Opening Ceremony



Shun-ichi Murahashi



Tadasu Tachi



Irina P. Beletskaya

Plenary Lecturers



Steven V. Ley



Hideski Sakurai



Larry E. Overman



Manfred Schlosser



Gerard van Koten



Richard R. Schrock



K. Barry Sharpless



Invited Lecturers



Ichiro Shinkai



Bruce H. Lipshutz



Claude Mercier



Andreas Halner



Kenji Koga



Fernando
Montanari



Susan E. Thomas



Keisuke Suzuki



Shinji Murai



Dieter Hoppe



T. V. Rajanbabu



Tamejiro Hiyama



Jack W. Faller



Lu Xiyan



Jean-Pierre Sauvage

Lecturers



Armin de Meijere



Alois Fürstner



Pierre Henri Dixneuf



Ei-ichi Negishi



Jean Pierre Genet



Tien-Yau Luh



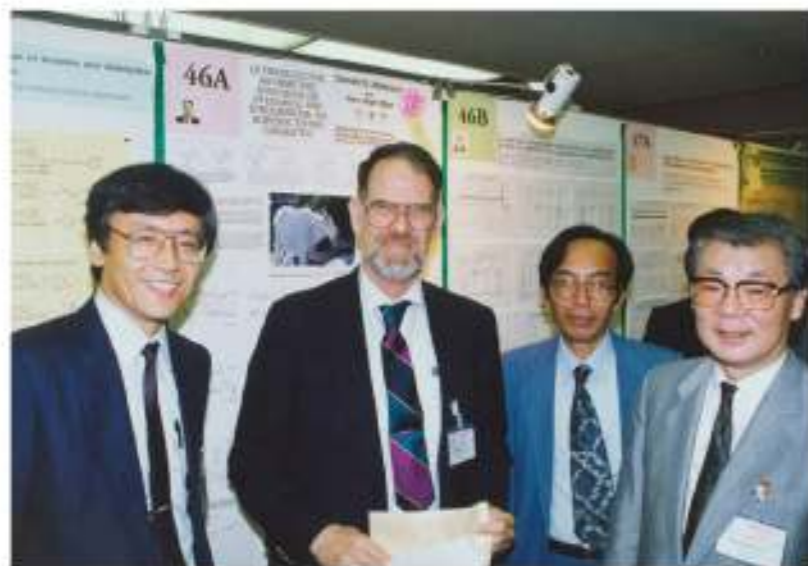
Jan-E. Backvall



Irina P. Beletskaya



Poster Session



Reception



Banquete



Family Program



Excursion



Himeji Castle



Sake Brewery

Closing Remarks

