

Call for Papers



ISCRE 20

20th International Symposium on
Chemical Reaction Engineering

Green Chemical Reaction Engineering
for a Sustainable Future

Beyond the Kyoto Protocol

Sun 7—Wed 10 September 2008
Kyoto International Conference Center
Kyoto, JAPAN

ISCRE 20 is hosted by

SCEJ

the Society of Chemical Engineers, Japan

operated by

the SCEJ Divisions of
Chemical Reaction Engineering,
Energy Engineering, and
Environmental Engineering

and

the Asia-Pacific Chemical Reaction Engineering
(APCRE) Working Party.

Invitation to ISCRE 20

We are honored to host the 20th International Symposium on Chemical Reaction Engineering to be held in Kyoto, Japan. The ISCRE 20 meeting theme is “Green Chemical Reaction Engineering for a Sustainable Future”. The theme was chosen to be inclusive of a broad range of both modern and traditional chemical reaction engineering topics — from engineering science fundamentals to emerging industrial scale engineering challenges. Communication of recent research and industry issues across these fields will contribute to the progressive development of processes and products that are environmentally more benign beyond the Kyoto Protocol. Papers in the areas concerning frontiers of chemical reaction engineering and environmental and energy reaction engineering are particularly encouraged, but papers from other reaction engineering disciplines are also welcome. The topics are identified below, but the detailed technical program will be finally determined on the basis of the accepted papers.

Topics

A. ENERGY AND ENVIRONMENT

- A1. Reaction Engineering for Energy and Environment
- A2. Reaction Engineering for Sustainable Development
- A3. Reaction Engineering in Resource Conversion

B. REACTION ENGINEERING FUNDAMENTALS

- B1. Molecular Dynamics and Molecular Engineering
- B2. Modeling and Simulation of Reacting Systems
- B3. Microreactors and Microstructured Systems
- B4. Novel Reactors and Process Developments
- B5. Fluidized Bed and Multiphase Reactors

C. NANOTECHNOLOGY AND NEW TECHNOLOGIES

- C1. Catalysts and Catalytic Reaction Engineering
- C2. Biochemical Reaction Engineering
- C3. Reaction Engineering in Materials Processing
- C4. Fuel Cells and Electrochemical Reaction Engineering

D. OTHERS

Abstract preparation and submission

A two-page abstract including figures and tables should be typed single-spaced (12 pt Times Font or equivalent, 2.5 cm margins, page size A4) and should include the title, authors, affiliations, and addresses. Detailed guidelines including an abstract template can be downloaded from the ISCRE 20 website. The abstracts should explicitly identify the objectives, new results, conclusions, and significance of the work.

Electronic abstract files in PDF format should be submitted by file upload at the website:

<http://www2.scej.org/iscre20/>

Anybody can appear as a speaker of only one paper. Although a research group can submit more than one abstract, different speakers should be specified.

The selection of presentations (orals and posters) will be based on the review of abstracts by the Scientific Committee.

Manuscript submission

The format of manuscripts and the submission procedure will be specified later. Accepted manuscripts will be published in special issues of a peer reviewed journal or journals. At least SCEJ can publish a special issue on ISCRE 20 in Journal of Chemical Engineering of Japan.

Dates to note

First announcement	September 2006
Opening of the website	September 2006
Call for papers	October 2007
Abstract submission deadline	Sat 15 December 2007
Notification of acceptance	Mon 31 March 2008
Submission of manuscripts	Tue 1 July 2008
Early registration deadline	Tue 1 July 2008
Conference	Sun 7–Wed 10 September 2008
Revised manuscript submission	Wed 15 October 2008
Publication of the special issue	Spring 2009

Symposium Secretariat

ISCRE 20 Secretariat
Department of Chemical Engineering
Kyoto University
Katsura, Nishikyo-ku, Kyoto 615-8510 JAPAN
Fax: +81-75-383-2653
E-mail: iscre20@www2.scej.org
Web: <http://www2.scej.org/iscre20/>

Venue

Kyoto, the cultural heart of Japan, is one of Japan's leading large cities, founded upon the *Heian* Capital, which was Japan's former capital built in 794 AD. Its population of 1.47 million citizens lives in harmony with a natural and cultural environment which has developed over time immemorial. Kyoto City is a place where you can truly savor first-hand a rich depth of culture and art steeped in tradition, and set against the changing backdrop of the four seasons, with each one possessing its own charm.

Kyoto has inherited a superb history of tradition and culture established over countless generations. It is also constantly creating new forms of culture and industry with its progressive and revolutionary spirit.



Kyoto International Conference Center (ICC Kyoto; <http://www.kich.or.jp/>) is located at the foot of the northern mountains of Kyoto Basin. ICC Kyoto is connected to the subway station (K01) *Kokusaikaikan* which can be accessed in 20 minutes from Kyoto Station (K11). ICC Kyoto (formerly KICH) was the first national conference facility in Japan, when it opened in 1966. More than 16,000 conferences and events have been held at ICC Kyoto, the No.1 conference center in Japan, including the famous COP 3 meeting at which the Kyoto Protocol was agreed in 1997.

Scientific Committee

Adesoji Adesina	<i>University of New South Wales</i>
Alexis T. Bell	<i>University of California, Berkeley</i>
Kurt Vanden Bussche	<i>UOP</i>
Jean-Claude Charpentier	<i>ENSIC CNRS Nancy France</i>
Jiri Drahos	<i>Inst. Chem. Process Fundam. Academy of Sciences CR</i>
Milorad P. Dudukovic	<i>Washington University</i>
Koichi Fujie	<i>Toyohashi University of Technology</i>
Asterios Gavriilidis	<i>University College London</i>
Akira Igarashi	<i>Kogakuin University</i>
Sibudjing Kawi	<i>National University of Singapore</i>
Toshinori Kojima	<i>Seikei University</i>
Hiroshi Komiyama	<i>University of Tokyo</i>
Bhaskar D. Kulkarni	<i>National Chemical Laboratory, Pune</i>
Jan Lerou	<i>Velocys, Inc.</i>
Janez Levec	<i>University of Ljubljana</i>
Jinghai Li	<i>Chinese Academy of Sciences</i>
Dan Luss	<i>University of Houston</i>
Guy Marin	<i>Ghent University</i>
Takao Masuda	<i>Hokkaido University</i>
Ian S. Metcalfe	<i>University of Newcastle upon Tyne</i>
Kouichi Miura	<i>Kyoto University</i>
In-Sik Nam	<i>Pohang University of Science and Technology</i>
Ryszard Pohorecki	<i>Warsaw University of Technology</i>
Piyasan Praserttham	<i>Chulalongkorn University</i>
Abdul Rahman Mohamed	<i>Universiti Sains Malaysia</i>
Albert Renken	<i>Ecole Polytechnique Federale de Lausanne</i>
Hyun-Ku Rhee	<i>Seoul National University</i>
Jesus Santamaria	<i>University of Zaragoza</i>
Jaap C. Schouten	<i>Eindhoven University of Technology</i>
A. Seidel-Morgenstern	<i>Max-Planck Inst. & Otto von Guericke Univ.</i>
Moshe Sheintuch	<i>Technion-Israel Institute of Technology</i>
Andrzej Stankiewicz	<i>DSM Research</i>
Hugh Stitt	<i>Johnson Matthey Catalysts</i>
Bala Subramaniam	<i>University of Kansas</i>
Sankaran Sudaresan	<i>Princeton University</i>
Kai Sundmacher	<i>Max-Planck Inst.</i>
Theodore T. Tsotsis	<i>University of Southern California</i>
Arvind Varma	<i>University of Notre Dame</i>
John Villadsen	<i>Technical University of Denmark</i>
Hung-Shan Weng	<i>National Cheng Kung University</i>
Gabriel Wild	<i>ENSIC CNRS Nancy France</i>
Koichi Yamada	<i>Seikei University</i>
Wei-Kang Yuan	<i>East China University of Science and Technology</i>
Po Lock Yue	<i>Hong Kong University of Science and Technology</i>

Organizing Committee

Advisory Board

Tadatoshi Chiba	<i>Hokkaido University</i>
Koichi Fujie	<i>Toyohashi University of Technology</i>
Shigeo Goto	<i>Nagoya University</i>
Seiichiro Koda	<i>Sophia University</i>
Kenji Hashimoto	<i>Fukui University of Technology</i>
Tadashi Hattori	<i>Nagoya University</i>
Masayuki Horio	<i>Tokyo University of Agriculture and Technology</i>
Kenji Ikari	<i>Mitsubishi Chemical Corp.</i>
Yoshitaka Izumi	<i>Sumitomo Chemical Co., Ltd.</i>
Masayuki Kamimoto	<i>National Institute of Advanced Industrial Science and Technology</i>
Toshio Mizukami	<i>National Institute of Advanced Industrial Science and Technology</i>
Shigekatsu Mori	<i>Nagoya University</i>
Tsuneo Moriya	<i>Sumitomo Bakelite Co., Ltd.</i>
Osamu Nagano	<i>Asahikasei Chemicals Corp.</i>
Takehige Takahashi	<i>Kagoshima University</i>
Koji Ukegawa	<i>National Institute of Advanced Industrial Science and Technology</i>
Koichi Yamada	<i>Seikei University</i>

Steering Committee

Chair	Hiroshi Komiyama	<i>University of Tokyo</i>
Vice-chair	Kouichi Miura	<i>Kyoto University</i>
Co-chair	Akira Igarashi	<i>Kogakuin University</i>
Co-chair	Toshinori Kojima	<i>Seikei University</i>
	Takashi Aida	<i>Tokyo Institute of Technology</i>
	Yuichi Fujioka	<i>RITE</i>
	Jun-ichiro Hayashi	<i>Hokkaido University</i>
	Manabu Ihara	<i>Tokyo Institute of Technology</i>
	Naotsugu Itoh	<i>Utsunomiya University</i>
	Toshihiko Iwasaki	<i>JFE R&D Corp.</i>
	Hiroyuki Kakiuchi	<i>Mitsubishi Chemical Corp.</i>
	Hideo Kameyama	<i>Tokyo University of Agriculture and Technology</i>
	Yukitaka Kato	<i>Tokyo Institute of Technology</i>
	Motoaki Kawase	<i>Kyoto University</i>
	Masahiro Kishida	<i>Kyushu University</i>
	Kazuhiro Mae	<i>Kyoto University</i>
	Takao Masuda	<i>Hokkaido University</i>
	Masahiko Matsukata	<i>Waseda University</i>
	Hiroyuki Nakagawa	<i>Kyoto University</i>
	Nobuyoshi Nakagawa	<i>Gunma University</i>
	Yuji Sakai	<i>Kogakuin University</i>
	Yasushi Sekine	<i>Waseda University</i>
	Tadaaki Shimizu	<i>Niigata University</i>
	Tomohiko Tagawa	<i>Nagoya University</i>
	Satoshi Tsuneda	<i>Waseda University</i>
	Atsushi Tsutsumi	<i>University of Tokyo</i>