

**The 1st International
Global COE Symposium
on
Bio-Environmental
Chemistry
(GCOEBEC-1)**



Dates: January 27 (Sun) – 29 (Tue), 2008

Venue: Hotel Hankyu EXPO Park

1-5 Senri-Banpaku-Koen, Suita, Osaka, Japan

Sponsor: Osaka University Global COE Program

“Global Education and Research Center for

Bio-Environmental Chemistry”

Support: The Chemical Society of Japan, Kinki Branch

The Society of Polymer Science, Japan, Kansai Branch

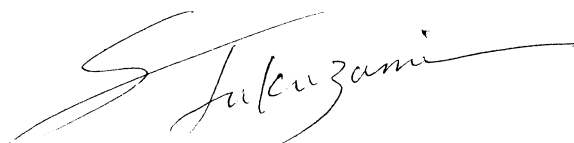
The Society of Chemical Engineers, Japan, Kansai Branch

The Japan Society for Analytical Chemistry, Kinki Branch

◆ WELCOME ADDRESS

The Organizing Committee cordially invites you to participate in the symposium. You will gain information regarding the most recent developments in Bio-Environmental chemistry and related chemistry in this symposium. With your participation, we will have an opportunity to create personal friendship and exchange scientific ideas among chemists, young researchers and students from all over the world.

We look forward to seeing you at Osaka in January, 2008.

A handwritten signature in black ink, reading 'Shunichi Fukuzumi'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Prof. Shunichi FUKUZUMI
Osaka University
Chairman
Organizing Committee
GCOEBEC 1

◆ BACKGROUND

The Global COE Program of the Chemistry group at Osaka University (Graduate School of Engineering, Graduate School of Science, and Graduate School of Engineering Science) has worked to realize a sustainable society in which both mankind and nature can co-exist and to lead toward a solution to environmental problems. We believe in a need to blaze a new path of sustainability for the future of Japan, which has scarce natural resources. The next step is to further develop previous work and to aim for an actual realization of the fundamental solving of global environment and energy resource problems. Obviously a solution to all global environment and energy resource problems is not easy to achieve. This is an issue which we need to address as a long-term national strategy. Therefore we are aiming at organizing the various research results to date for the future generations to lead Japan. Based on this standpoint, this Global COE Program's goal is to generate the innovative advanced science and technology in order to fundamentally solve the problem of energy resource which is the high-priority issue of Japan with scarce natural resources. And the other goal is to form international centers of excellence for education and research for top-level studies in environmental science, which emphasizes relationship among nature and life from a global point of view.

◆ PURPOSE

The purpose of this symposium is to cooperate intensively and to create "Bio-Environmental Chemistry," which eventually will lead to a sustainable society in which both mankind and nature can co-exist. In this 1st GCOE Symposium, in an international environment off-campus, we hope to place particular emphasis on encouragement of students and promotion of their global thinking.

◆ SCOPE

We are going to establish a new integrated framework of not only pure and applied chemistry but also biotechnology focusing on **energy conversion, environmentally benign synthesis, molecular information and dynamics, chemical biology and**

biotechnology. We plan to achieve significant progress in these vital areas for sustainability by cooperating in these areas and by integrating the underpinning science. We feel strongly that the education and research activities of young scientists from all over the world are particularly important to achieve our long-term objectives in the “Save the Earth” project.

◆ ORGANIZING COMMITTEE

Graduate School of Engineering

Leader

Fukuzumi, Shunichi *Professor, Department of Material and Life Science*

Chatani, Naoto *Professor, Department of Applied Chemistry*

Fukui, Kiichi *Professor, Department of Material and Life Science*

Hirao, Toshikazu *Professor, Department of Applied Chemistry*

Harashima, Satoshi *Professor, Department of Material and Life Science*

Hayashi, Takashi *Professor, Department of Applied Chemistry*

Imanaka, Nobuhito *Professor, Department of Applied Chemistry*

Inoue, Yoshihisa* *Professor, Department of Applied Chemistry*

Kambe, Nobuaki *Professor, Department of Applied Chemistry*

Kanaya, Shigenori *Professor, Department of Material and Life Science*

Kuwabata, Susumu *Professor, Department of Applied Chemistry*

Kikuchi, Kazuya *Professor, Department of Material and Life Science*

Uyama, Hiroshi *Professor, Department of Applied Chemistry*

Graduate School of Science

Aoshima, Sadahito *Professor, Department of Macromolecular Science*

Fukase, Koichi *Professor, Department of Chemistry*

Harada, Akira* *Professor, Department of Macromolecular Science*

Inaba, Akira *Professor, Research Center for Molecular Thermodynamics*

Kasai, Toshio *Professor, Department of Chemistry*

Konno, Takumi *Professor, Department of Chemistry*

Murata, Michio *Professor, Department of Chemistry*

Sato, Takahiro *Professor, Department of Macromolecular Science*

Watarai, Hitoshi *Professor, Department of Chemistry*

Graduate School of Engineering Science

Iwai, Shigenori *Professor, Division of Chemistry*

Kuboi, Ryoichi *Professor, Division of Chemical Engineering*

Mashima, Kazushi *Professor, Division of Chemistry*
Matsumura, Michio *Professor, Research Center for Solar Energy Chemistry*
Nakano, Masayoshi *Professor, Division of Chemical Engineering*
Naota, Takeshi *Professor, Division of Chemistry*
Tobe, Yoshito * *Professor, Division of Frontier Materials Science*
* Co-chairman

◆ EXECUTIVE COMMITTEE

Graduate School of Engineering

- Fukumoto, Yoshiya** *Associate Professor, Department of Applied Chemistry*
Matsunaga, Sachihiko *Associate Professor, Department of Material and Life Science*
Suenobu, Tomoyoshi *Assistant Professor, Department of Material and Life Science*
Tsurugi, Hayato *Assistant Professor, Department of Applied Chemistry*

Graduate School of Science

- Igashira, Asako** *Assistant Professor, Department of Chemistry*
Ohishi, Toru *Associate Professor, Department of Chemistry*
Okamura, Taka-aki *Associate Professor, Department of Macromolecular Science*

Graduate School of Engineering Science

- Komiya, Naruyoshi** *Assistant Professor, Division of Chemistry*
Shiraishi, Yasuhiro *Associate Professor, Research Center for Solar Energy Chemistry*

◆ ASSISTANT EXECUTIVE COMMITTEE (Students)

Graduate School of Engineering

Arimoto, Satoshi

Goto, Hiroomi

Hayashihara, Kayoko

Naito, Kazuya

Osakada, Yasuko

Tsuda, Susumu

Fujii, Yuuki

Hamada, Takahiro

Kurihara, Daisuke

Ohtani, Masataka

Tamura, Haruka

Graduate School of Science

Egami, Shigeki

Hira, Daisuke

Miyawaki, Atsuhisa

Suga, Michihiro

Higashiura, Akifumi

Matsushita, Naohiro

Osaki, Motofumi

Umegawa, Yuichi

Graduate School of Engineering Science

Iwasaki, Takanori

Morishita, Masatsugu

Shima, Asuka

Takahashi, Eiji

Maruo, Takanori

Nakaike, Yumi

Tadaoka, Hiroshi

◆ SECRETARY

Ueda, Tomoko

Tokuyama, Yoko

Mekata, Naoko

◆ SCIENTIFIC PROGRAM

The scientific program will include, invited lectures, students' session, and contributed papers in poster presentation. The symposium is designed to stimulate and encourage young researchers and students who will carry science and engineering of "**Bio-Environmental Chemistry**" forward in the 21st century.

◆ INVITED SPEAKERS

Donald Hilvert	<i>Professor, ETH, Zürich, Switzerland</i>
William D. Jones	<i>Professor, University of Rochester, New York, United States</i>
Karl M. Kadish	<i>Professor, University of Houston, Texas, United States</i>
Byung-Gee Kim	<i>Professor, Seoul National University, Seoul, Korea</i>
Helge Lemmetyinen	<i>Professor, Tampere University of Technology</i>
Tianquan Tim Lian	<i>Professor, Emory University, Georgia, United States</i>
Danilo Porro	<i>Professor, University of Milano, Bicocca, Italy</i>
Robert K. Thomas	<i>Professor, FRS, University of Oxford, Oxford, England</i>

◆ STUDENTS' SESSION

ON BIO-ENVIRONMENTAL CHEMISTRY

All the doctor course students whose activities are financially supported by our Global COE Program will present their accomplishment in short oral presentation (5 min plus 2 min for discussion and 1 min in rotation) and poster presentation. The Presentation Award will be given to the brilliant speakers.

◆ CONTRIBUTED PAPERS

Student and young scientist attendees are encouraged to contribute a poster presentation. Participants who wish to present a paper should register on the web: <http://www.gcoebec-osaka-u.jp/jpn/events/index.php> filling out the registration form and uploading the abstract for your presentation. The abstract should be made following the Abstract Instructions on the web.

The deadline for submission is **December 14, 2007**.

The oral presentation should be performed using a LCD projector. The detailed procedure for the presentation will be provided individually after acceptance of registration for the presentation. For the poster presentations, the poster boards of 90 (w) x 180 (h) cm will be available.

◆ TENTATIVE SCHEDULE

The symposium will start at 14:30 with an opening remark on January 27. The registration is planned about 90 minutes prior to starting the symposium. Several invited lectures are scheduled throughout the three days of the symposium. The short oral sessions of students are arranged in Jan. 28, and the poster sessions are arranged in Jan. 29. The poster presentations and short oral presentations will be rated by the committee, and the Poster Award will be presented just before the closing remark. The symposium will close around 5 pm. of January 29.

◆ REGISTRATION

Those who wish to participate in the symposium are kindly requested to register in advance at the web site (at the beginning of December). The deadline for registration is **January 10, 2008**. The Global COE fellow students must also register together with the submission of the abstract for your presentation by **December 14, 2007**.

Registration Fee

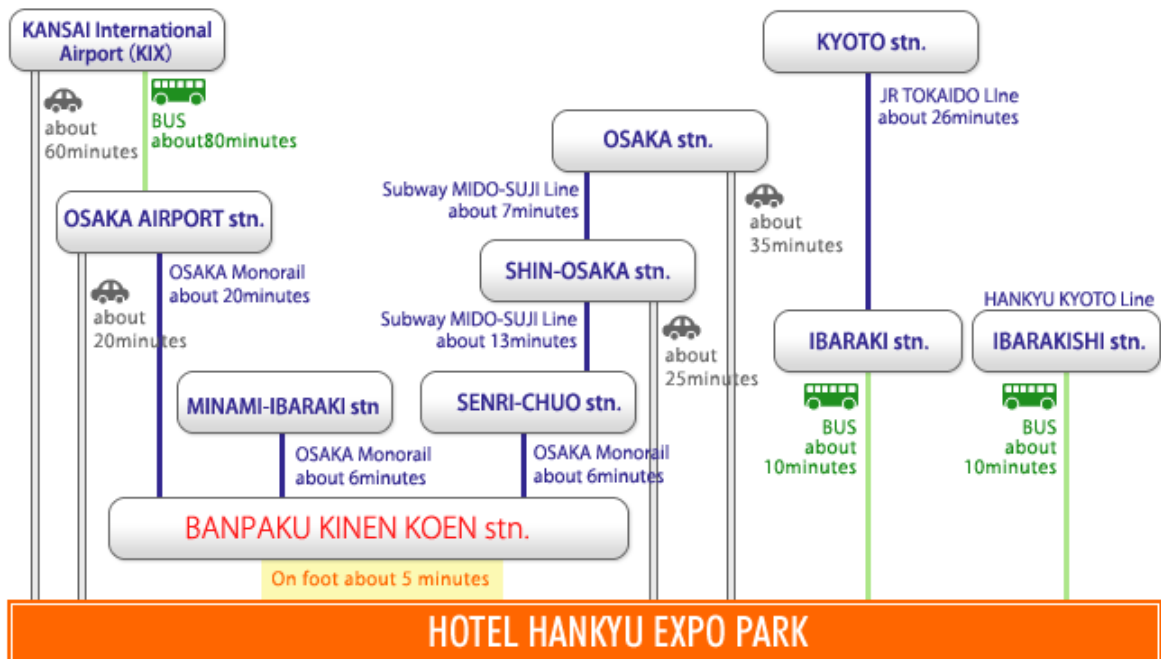
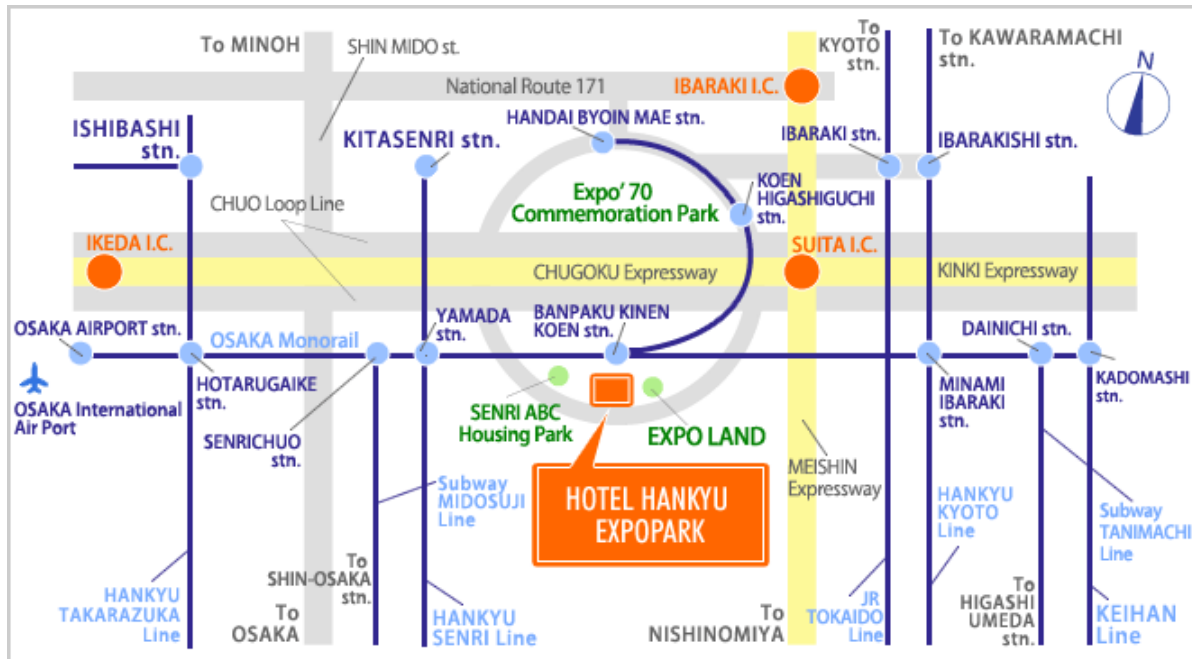
Regular participant (Dr. and all staff of University)	JPY	3,000
Student participant (include GCOE fellow)	JPY	1,000

We appreciate if you will pay by cash at the cash desk in venue on January 27.

All invited guests are free of charge.

◆ LOCATION

The symposium will be held at the Hotel Hankyu Expo Park which is about 10 min drive from Suita campus of Osaka University. A five-minute walk from the nearest station, Osaka Monorail “Banpaku-kinen koen” station.



◆ ACCOMMODATION AND TRANSPORTATION

Accommodation for all of the invited speakers and guests from overseas will be reserved at Hotel Hankyu Expo Park (<http://www.hankyu-hotel.com/en/index.html>).
If other general participants need accommodation, please contact the following agent staff.

“Kinki Nippon Tourist Co., Ltd., International Travel, Osaka Branch”

(Mr. Yuji MOTOKI: moteki894556@mb.knt.co.jp)

(Ms. Yasuyo OZAWA: ozawa832368@mb.knt.co.jp)

TEL: 81-6-4397-8760, FAX: 81-6-4397-8767,

The conference shuttle bus transportation will be available from both campuses of Osaka University to the conference venue on January 27. The return bus will be available in the evening of January 27, 28 and 29. At an early date, the detail information of ‘arrive and depart’ by the shuttle bus will be informed to you.

For campus map of Osaka University and access by public transportation from Kansai area, please consult below website.

>>Toyonaka campus Map<<

(<http://www.sci.osaka-u.ac.jp/location/building.html>)

>>Suita campus Map<<

(http://www.eng.osaka-u.ac.jp/en/access_map.html)

>>General Access Map<<

(<http://www.htl-expopark.jp/en/cs/access.html>).

◆ CONFERENCE LANGUAGE

The official language of the symposium will be English.

◆ CONFERENCE BANQUET

The Banquet will be held at 17:00 in January 28. All participants are strongly encouraged to join. Advanced registration should be made on the web. The banquet is free of charge.

◆ DRESS CODE

Business attire (suit) is requested for the conference sessions and the banquet.