

# THE INTERNATIONAL SYMPOSIUM ON SCIENCE & TECHNOLOGY AT KANSAI UNIVERSITY

Hiroshi TAMURA\*

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## Abstract

On July 30 and August 1, 2007, the International Symposium on Science & Technology at Kansai University 2007 was held at Kansai University Centenary Memorial Hall. It focused on collaboration with ASEAN Countries in Environment and Life Science. This Symposium was organized by the Graduate School of Engineering and three Faculties for Science & Technology (Faculty of Engineering Science, Faculty of Environmental & Urban Engineering, Faculty of Chemistry, Materials & Bioengineering). About 400 participants attended including about 40 foreigners from ASEAN countries. My report on the Symposium, as made Chairman of the Local Committee, follow.

## Collaboration between ASEAN Countries in Environment and Life Science

Date: July 31 - August 1, 2007      Venue: Kansai University Centenary Memorial Hall

SCHEDULE	<p><b>July 31, 2007</b></p> <p>9:00-10:00 <b>Registration</b></p> <p>10:00-10:45 <b>Opening Ceremony</b></p> <p>10:45-11:45 <b>Plenary Lecture</b></p> <p>11:45-13:00 <b>Lunch (with Poster Session)</b></p> <p>13:00-17:00 <b>1<sup>st</sup> to 4<sup>th</sup> Sessions</b></p> <p>17:30-19:30 <b>Banquet</b></p>	<p><b>August 1, 2007</b></p> <p>9:00-11:00 <b>Short Speech by Poster Speakers</b></p> <p>11:00-12:00 <b>Summary and Student Seminar</b></p> <p>12:00-12:10 <b>Closing Ceremony</b></p>
SESSIONS	<p><b>1<sup>st</sup> SESSION [Session for Biodegradable Polysaccharides]</b> (Prof. Hiroshi Tamura)</p> <ul style="list-style-type: none"> <li>• Chulalongkorn University</li> <li>• King Mongkut's University of Technology Thonburi</li> <li>• National Center for Genetic Engineering and Biotechnology</li> <li>• Kansai University</li> </ul> <p><b>2<sup>nd</sup> SESSION [Session for Metal Injection Moldings (MIM)]</b> (Prof. Takashi Sugimoto)</p> <ul style="list-style-type: none"> <li>• Chulalongkorn University</li> <li>• National Metal and Materials Technology Center (MTEC)</li> <li>• AMREC, SIRIM Berhad (Malaysia)</li> <li>• Kansai University</li> <li>• MIM-Related Companies</li> </ul> <p><b>3<sup>rd</sup> SESSION [Session for Biotechnologies]</b> (Prof. Shin-ichi Ueshima)</p> <ul style="list-style-type: none"> <li>• Universiti Sains Malaysia</li> <li>• Kansai University</li> </ul> <p><b>4<sup>th</sup> SESSION [Session for Intelligent Computer Technologies]</b> (Prof. Yutaka Maeda)</p> <ul style="list-style-type: none"> <li>• Thammasat University</li> <li>• Kansai University</li> </ul> <p><b>POSTER SESSION</b> by Graduate Students</p>	

**ORGANIZING COMMITTEE**

**Chairman:**

**Tetsuaki Tsuchido** *Chairperson of the Graduate School of Engineering, Dean of Faculty of Chemistry, Materials and Bioengineering, Kansai University*

**Mamoru Ozawa** *Dean of Faculty of Engineering Science, Kansai University*

**Harushige Kusumi** *Dean of Faculty of Environmental and Urban Engineering, Kansai University*

**Mitsukazu Ochi** *Director of Headquarters of Public Collaboration, Kansai University*

**Hironobu Uchiyama** *Director of Organization for Research and Development of Innovative Science and Technology (ORDIST), Kansai University*

**Takashi Sugimoto** *Director of Liaison and Intellectual Property Center, Kansai University*

**Shin-ichi Ueshima** *Director of Community-University Partnership Center*

**Nantaya Yanumet** *Director of Petroleum and Petrochemical College, Chulalongkorn University*

**Chan Lai Keng** *School of Biological Sciences, Universiti Sains Malaysia*

**Anchalee Manonukul** *National Metal and Materials Technology Center (MTEC)*

**Thanaruk Theeramunkong** *Head of the School of Information and Computer Technology, Srinidhorn International Institute of Technology, Thammasat University*

**Shuntaro Terauchi** *Head of Associative Society for the Collaboration between Industries and Kansai University*

**LOCAL COMMITTEE**

**Chairman:**

Prof. <b>Hiroshi Tamura</b>	Prof. <b>Hiromitsu Kozuka</b>
Prof. <b>Masahiko Ikeda</b>	Associate Prof. <b>Yasuo Nagaoka</b>
Prof. <b>Masashi Ishikawa</b>	Associate Prof. <b>Tetsuya Furuike</b>
Prof. <b>Shin-ichi Uesato</b>	Prof. <b>Yutaka Maeda</b>
Associate Prof. <b>Taduo Oikawa</b>	Associate Prof. <b>Takashi Miyata</b>
Associate Prof. <b>Yuichi Ohya</b>	Prof. <b>Noriaki Muranaka</b>

Fig. 1-1 Leaflet of the Symposium.

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**ASEAN Countries  
Environment and Life Science**


Kansai University Centenary Memorial Hall

**Purpose of the Symposium**

Kansai University has intended to stimulate the research and educational activities not only at graduate course but also at undergraduate course through the collaborations between Universities and Industries of various countries based on the agreements for exchange program. On 2006 and 2007, Graduate School of Engineering of Kansai University has been agreed to sign the exchange program between Chulalongkorn University, Thailand and Universiti Sains Malaysia following the sign for the agreement with Thammasat University, Thailand.

Kansai University has also been collaborated with several Universities and Industries of ASEAN countries in the fields of Biodegradable Polysaccharides, Biotechnology and Metal Injected Molding (MIM) for more than five years. We are now sincerely thinking of Pattern Recognition as a new target to investigate.

Now, Kansai University, therefore, would like to organize the Memorial Symposium to promote those activities in the field of Environment and Life Science and ask to build up new collaboration system under the themes of "Biodegradable Polysaccharides", "Biotechnologies", "Metal Injection Moldings" and "Intelligent Computer Technologies". Kansai University is also expecting to find moderate type of collaboration between individual organizations through the Symposium which would greatly promote the Scientific activities of Kansai University not only on the research but also on the educational level. Kansai University is also expecting to form triangle collaboration system between Universities, Institutes and Industries in ASEAN countries, because Kansai University has several years collaboration history between Japanese Industries in Thailand and Malaysia.

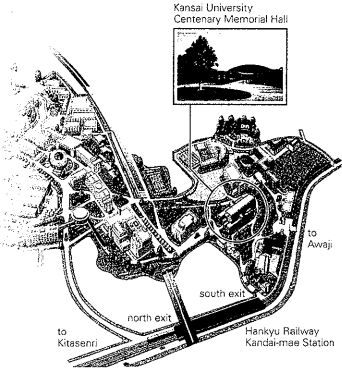


**Correspondence**

For more information and for those who are interested in participate the Symposium, please contact:

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The Secretariat of  
International Symposium in Science and Technology at  
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**Registration: FREE**



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from Osaka (Umeda, or Tenjinbashi-ji-roku-chome, popularly shortened to Tenriku) to Kansai-mae on the Hanjyu Railways Senri Line, about 25 minutes, then about 5 minutes' walk.

International Symposium in Science and Technology at Kansai University 2007

Collaboration between ASEAN Countries  
in Environment and Life Science

Date:  
**July 31 - August 1, 2007**

Venue:  
**Kansai University  
Centenary Memorial Hall**

 KANSAI UNIVERSITY

**Organized by**

- Graduate School of Engineering, Kansai University
- Three Faculties for Science and Technology (Faculty of Engineering Science, Faculty of Environmental and Urban Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai University)

**CO-ORGANIZERS**

- Organization for Research and Development of Innovative Science and Technology (ORDIST), Kansai University
- Headquarters of Public Collaboration, Kansai University

**COSPONSOR**

- The Kansai Bureau of Economy, Trade and Industry
- Associative Society for the Collaboration between Industries and Kansai University


  
**KANSAI UNIVERSITY**

Fig. 1-2 Leaflet of the Symposium.

### Purpose of the Symposium

Kansai University intends to stimulate research and educational activities, not only at graduate but also at the undergraduate course level through collaborations with universities and industries in various countries with which it has exchange program agreements. In 2006 and 2007, the Graduate School of Engineering at Kansai University established exchange programs with Thammasat University and Chulalongkorn University in Thailand and with Universiti Sains Malaysia.

Kansai University has, for more than five years also been collaborating with several other universities and industries in ASEAN countries in the fields of Biodegradable Polysaccharides, Biotechnology and Metal Injected Molding (MIM). We are now considering possible collaboration in the field of Pattern Recognition, too.

Kansai University, therefore, wanted to organize the Memorial Symposium to promote such activities in the field of Environment & Life Science and to build up a new collaboration system in the categories of "Biodegradable Polysaccharides", "Bio-Technologies", "Metal Injection Moldings" and "Intelligent Computer Technologies". Kansai University is also hoping to establish a moderate level of collaboration with individual organizations through the Symposium. This would be a great contribution to the scientific activities of Kansai University, not only with regard to research, but also at the educational level. Kansai University is also hoping to form a triangular collaboration system between universities, institutes and industries in ASEAN countries, for the University has already participated for several years in collaborations with Japanese industrial concerns in Thailand and Malaysia.

**Program :**

**July 30, 2007**

- 7:15 Arrival from Malaysia (MH 52)
- 7:30 Arrival from Thailand (TG 672)
- 9:00- Osaka City tour by bus: Lunch
- ca. 14:00 Arrival at Hotel
- 17:00-19:00 Welcome Reception

**July 31, 2007**

- 9:00-10:00 Registration
- 10:00-10:45 Opening Ceremony
- 10:45-11:45 Plenary Lecture
- 11:30-13:00 Lunch (with Poster Session)
- 13:00-17:00 1st to 4th Sessions
- 17:30-19:30 Banquet

**August 1, 2007**

- 9:00-11:00 Short Speeches by Poster Speakers
- 11:00-12:00 Summary and Student Seminar
- 12:00-12:10 Closing Ceremony
- 12:10- Lunch: Free time
- 19:00-20:30 Boat Cruise with Dinner

**August 2, 2007**

- 7:00 Depart Hotel
- 11:45 Departure for Thailand (TG 623)
- 12:00 Departure for Malaysia (MH 53)

Most of the participants from Malaysia and Thailand arrived at Osaka Kansai Airport in the early morning of July 30. They took a short city tour and checked into their hotel. Dr. Nantaya Yanumet, Director of the Petroleum & Petrochemical College, Chulalongkorn University, met the President of Kansai University to sign an exchange program between the two universities. This is the first case of Kansai University agreeing an exchange program at the Faculty level.

A Welcome Reception was held from 5pm at Shikon Restaurant. Mr. Seiichiro Morimoto, Chairman of the Board of Trustees of Kansai University, gave a welcome speech to the visiting professors from ASEAN countries with simultaneous translation by Professor Emeritus Seiichi Tokura, special advisor of Headquarters of Public Collaboration, Kansai University.

**July 31, 2007**

The 1<sup>st</sup> day of the Conference saw an opening ceremony, a plenary lecture and then four different sessions in the afternoon. At the opening ceremony, Professor Teiichi Kawata, President of Kansai University, gave a welcome address. Next, Chairperson of the Graduate

School of Engineering, Kansai University, Prof. Tetsuaki Tsuchido gave an address as Chairman of the Symposium. Finally, on behalf of the guests from ASEAN countries, Associate Professor Nantaya Yanumet, Director of the Petroleum & Petrochemical College, Chulalongkorn University, also gave a speech referring to the significance of this Symposium.



Fig. 2 Opening Ceremony. Prof. Kawata gives the welcome address.

In the plenary lecture, the collaboration between Japan and ASEAN Asian countries was outlined in detail by Prof. Hiroshi Tamura. Biodegradable polymer chitin research in Japan and other Asian countries was reported and the basic chemistry of chitin and chitosan were explained. After this plenary lecture, oral presentations were given on the following four topic.

1. Biodegradable Polysaccharides (BP)
2. Metal Injection Moldings (MIM)
3. Biotechnologies (BT)
4. Intelligent Computer Technologies (ICT)

Professors from Kansai, Chulalongkorn, Thammasat, Universiti Sains Malaysia University, and also postdoctoral researchers presented their research at the Symposium. Fruitful discussions ensued about biodegradable polymers, tissue engineering, chemistry, nanoparticles, environmental chemistry, metallurgical engineering, cell culture, microbiology and natural resources. Students also attended the above presentations. I hope that these discussions will stimulate more research activities at Kansai University.

#### August 1, 2007

On the second day of the conference, 25 students from Kansai, Chulalongkorn, Thammasat and Sains Malaysia Universities presented poster speeches of 5 minutes. They presented the papers on biopolymers, electrochemistry, microbiology, metallurgical engineering and environmental research. The students from all the universities presented their work very nicely. After their poster speeches, the students were engaged in discussion by two Post-doctoral Fellows. Every student was able to further explain their work. All the university



Fig. 3 Individual session for Biotechnologies.

students took part in these discussions. These discussions were a vehicle for the beginning of a relationship between the Japanese students and those from the other universities. I hope this conference will hope to move Kansai University's research on to a more international footing, and will bring us more collaboration with the partner universities.



Fig. 4 25 students from Kansai, Chulalongkorn, Thammasat University and Sains Malaysia universities awaiting poster speech presentations.



Fig. 5 Individual poster discussion navigated by two Post-doctoral Fellows.

In the main hall, the four professors who preside over the afternoon sessions concluded. Three sessions Biodegradable Polysaccharides, Metal Injection Moldings and Biotechnologies were already built on a basis of collaborative research, so that this Symposium was a good opportunity to discuss and suggest guidelines for the future. For the Intelligent Computer Technologies Session, however, this was the very first meeting for protagonists. At least they were able to establish a new collaborative research topic.

#### 12:00-12:10 Closing Ceremony

Professor Tetsuaki Tsuchido, Chairperson of the Graduate School of Engineering, gave a closing address as Chairman of the Organizing Committee. He thanked all participants for their contributions to the success of the Symposium. He also pointed out that students had

had a good opportunity to communicate with each other.

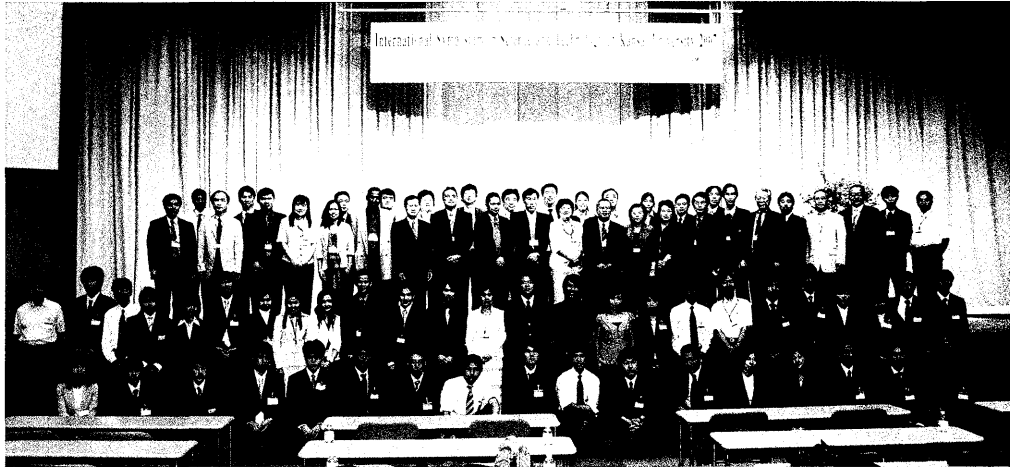


Fig. 6 Commemorative group photo.

#### Post Symposium - Cruise at Ohkawa -

The Associative Society for Collaboration between Industries and Kansai University invited all the participants from the ASEAN countries and the Symposium affiliates to take a Boat Cruise at Ohkawa. About sixty people enjoyed a night cruise through Osaka. Mr. Azman, head of the Osaka branch of the Malaysia Industrial Development Agency, also attended and gave us a stimulating talk about how to keep in touch with each other and further relation.



Fig. 7 On the cruise boat. PhD students from Chulalongkorn University.

#### Acknowledgement

Organizing Committee would like to thank both Kansai University and the Associative Society for Collaboration between Industries and Kansai University for their support of this Symposium.