



The 5th Kobe University Brussels European Centre Symposium  
**Innovation, Environment, and Globalisation**  
- Latest EU-Japan Research Collaboration -

Date	: Tuesday 14 October 2014	
Time	: 9:30 - 18:00	*Registration to start at 9:00
Venue	: Thon Hotel Bristol Stephanie	
	Avenue Louise 91-93 Louizalaan, Bruxelles 1050 Brussel, Belgium	

Opening 9:30-10:00 [Embassy&Consulate]

MC: Prof. Hiroshi Takeda, Executive Vice President for Research, Kobe University

Opening address: Prof. Hideki Fukuda, President of Kobe University

Speech: HE. Mr. Keiichi Katakami, Ambassador of Japan to the European Union

Speech: Dr. Wolfgang Burtscher, Deputy Director-General, DG Research & Innovation, European Commission

Presentation: Dr. Toshiyasu Ichioka, Project Manager, EU-Japan Centre for Industrial Cooperation

Session 1, 10:00-13:30 [Diplomat]

**Current Status of Bio-based Chemical Production Technology in Japan and Europe**

Chair: Prof. Kenichi Yoshida, Kobe University, Japan

- speakers
- Prof. Akihiko Kondo, Kobe University, Japan
  - Prof. Michihiko Ike, Osaka University, Japan  
"Enhanced Production of Duckweed Biomass using a Novel Plant Growth-Promoting Bacterium, *Shinorhizobium* sp. SP4"
  - Prof. Colin Webb, University of Manchester, UK  
"Bio-based Industrial Chemicals from Biorefinery Wastes"
  - Prof. Em. Pierre Monsan, Director Cell Ex TWB, France  
"Toulouse White Biotechnology": a public/private consortium
  - Prof. Roel Bovenberg, DSM/Groningen University, the Netherlands  
"Industry vision and Biobased Economy"

Session 2, 14:30-18:00 [Diplomat]

**Towards Further Development of Innovative Membrane Technology**

Membrane technology has been growing and applied to various fields such as water treatment, gas environmental protection and so on.

We established Center for Membrane and Film Technology (CMFT) in Kobe University in 2007. In this

symposium, we will discuss about the further development of innovative membrane technology.

- speakers
- Prof. Hideto Matsuyama , Kobe University, Japan  
“Cutting Edge of Center for Membrane and Film Technology in Kobe University”
  - Prof. Koji Kuraoka, Kobe University, Japan  
“Preparation and properties of organic-inorganic hybrid gas barrier films”
  - Prof. Toshinori Tsuru, Hirishima University, Japan  
“Silica-based robust membranes for expanding liquid-phase separation”
  - Prof. Bart Van der Bruggen, KU Leuven, Belgium  
“Beyond desalination: advanced applications of electrodialysis”
  - Prof. Ivo Vankelecom, KU Leuven, Belgium
  - Prof. Nieck Benes, University of Twente, the Netherlands  
“A new generation of robust hyper-cross-linked hybrid membranes”

Session 3, 10:00-13:30 [Explore]

### **Climate Change and Water Resources Management**

Water is an essential element for life as described on the protocol of the 3rd World Water Forum in Kyoto. However, we have a lot of news showing flood disaster, water scarcity and water related disease. Unfortunately, many facts show that Climate Change condition enforce severe agony on many of us. Therefore, we have to establish more sophisticated management of water. The session of "Climate Change and Water Resources Management" consists of nine presentations from experts of water related Engineering and science who come from Europe, North and South America and Asia. They show their latest results and proposals for better water resources management under Climate Change.

- speakers
- Dr. Pradeep Mujumdar, Indian Institute of Science, Bangalore, India  
“Hydrologic Impacts of Climate Change: Quantification of Uncertainties”
  - Dr. Carlos de Oliveira Galvao, Federal University of Campina Grande, Brazil  
“EU-Brazil CloudConnect Project: water resources under climate and land-use changes”
  - Dr. Roberto Ranzi, University of Brescia, Italy  
“Impact of Climatic and Anthropogenic Changes on Riverflows”
  - Dr. Ramesh Teegavarapu, Florida Atlantic University, USA  
“Hydrologic Design under Changing Regional Precipitation Extremes and Characteristics: Influences of Climate Variability and Change”
  - Dr. Philippe Gourbesville, University of Nice Sophia Antipolis, France  
“Flood protection and resilience strategies by using integrated hydrological model under Climate Change in Vietnam”
  - Dr. Young-Oh Kim, Seoul National University, Korea

“Testing Applicability of Real Options for a Flood Mitigation Planning Under Climate Change”

- Dr. Elpida Kolokytha, Aristotle University of Thessaloniki, Greece  
“Integrated water resources management under climate change in Greek islands. Policy issues to achieve water conservation”
- Dr. Daisuke Nohara, Kyoto University, Japan  
“Integrated reservoir operation for adaptive water resources management” considering global and local hydro-meteorological information
- Dr. Satoru Oishi, Kobe University, Japan  
“Optimization of the Integrated Operation of Dams Using Ensemble Prediction”

Session 4, 14:30-18:00 [Explore]

### **Aquaphotomics, “Understanding Water in Biological World”**

Recently, in various fields of contemporary science (especially in biology, biochemistry, biotechnology, nanotechnology, environmental science etc.) scientists have started to pay attention to the great importance of water as molecular system and a matrix.

- speakers
- Prof. Roumiana Tsenkova, Kobe University, Japan  
“Aquaphotomics: past, present and future”
  - Prof. Masato Yasui, Keio University, Japan  
“Water biology: roles of aquaporin (AQP)”
  - Dr. Aoife Gowen, University College Dublin, Ireland  
“Aquaphotomics and hyperspectral imaging as tools for understanding the role of water in foods
  - Dr. Tiziana M. P. Cattaneo, Agricultural Research Council (CRA), Italy  
“Aquaphotomics in food science and agriculture”
  - Prof. Albert Krastanov, University of Food Technologies, Bulgaria  
“Aquaphotomics in biotechnology - new tools and opportunities”
  - Prof. Christian Huck, University of Innsbruck, Austria  
“Aquaphotomics in natural product analysis”
  - Prof. Luc Montagnier, Nobel Laureate, World Foundation for AIDS Research and Prevention  
“Photonic transduction of DNA information in living cells”
  - Prof. Harald Martens, Norwegian University of Science and Technology, Norway  
“Multivariate data-modelling to separate light scattering from light absorbance: The Optimized Extended Multiplicative Signal Correction OEMSC”
  - Dr. Bernhard Pollner, Kobe University, Japan  
“Demonstrations of new tools for spectral data analysis”

## Forefront Studies on Japanese Culture and Society

Targeting on contemporary phenomena of “presence” of Japanese culture in the world, the session will demonstrate multidisciplinary approaches towards forefront studies on the phenomena. From Europe, USA and Japan, eminent scholars on the subject will come together to deliver their most recent observations.

Moderator: Prof. Kiyomitsu Yui, Executive Director, Centre for EU Studies, Kobe University

- speakers
- Mr. Yoichiro Yamada, Minister, Embassy of Japan in Belgium  
“Cultural Relationships between Japan, Belgium and Europe”
  - Mr. Brian Toll, Policy Officer, Directorate - General for Education and Culture, European Commission  
“International Cooperation in Higher Education in relation to European and Japanese Studies”
  - Prof. Bjarke Frellesvig, Chair of the Faculty Board of Oriental Studies, University of Oxford, UK  
“Japanese Linguistics and Europe”
  - Dr. Sebastien Lechevalier, President, France-Japan Foundation, École des hautes études en sciences sociales, France  
“Japanese Studies and Economics”
  - Prof. Dimitri Vanoverbeke, KU Leuven, Belgium  
Prof. Theodore Bestor, Director of the Reischauer Institute of Japanese Studies, Harvard University, USA  
“An overview of Japanese Studies in the United States”
  - Prof. Andreas Thele, University of Liege, Belgium  
“Aspects of Japanese Studies in Belgium”
  - Prof. Ian Neary, Nissan Institute, University of Oxford, UK  
“The study of Japanese politics”
  - Prof. Marta Kudelska, Director, Centre for Comparative Studies of Civilizations, Jagiellonian University, Poland  
“Project of Comparative Studies – Past and Perspectives”
  - Prof. Joerg B. QUENZER, Director, Asia-Africa- Institute, University of Hamburg, Germany
  - Prof. Bonaventura RUPERTI, Ca' Foscari University of Venice, Italy  
“Arts and Japanese Studies”
  - Dr. Linda FLORES, Oxford University, UK  
“The Trauma of Displacement: War Brides in Mori Reiko's 'The Town of the Mockingbird' ”

- Prof. Mitsuko OKAMOTO, Director, Graduate School of Film and New Media, Tokyo University of the Arts, Japan  
"Animation and Japanese Studies"
- Prof. Pascal Lefèvre, Leuven University, Belgium  
"Why international comparative perspectives are needed in the study of 'national' cultures? The case of manga."
- Mr. Francesco Fiore, General Manager, Hello Kitty Live, Director, Axze Ltd, (London), UK  
"Entertainment industry, *cultural / creation Industry in the Global Market*"

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organiser : Kobe University  
co-organiser : JEUISTE

**For Registration and Inquiry**

Kobe University Centre for EU Studies

[http://www.office.kobe-u.ac.jp/ipiep/ceus/index\\_en.html](http://www.office.kobe-u.ac.jp/ipiep/ceus/index_en.html)

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