



The 11th Kobe University Brussels European Centre Symposium
*Green Horizons, Sustainable Futures:
EU and Japan Research for Climate-Prepared, Resilient Societies*

Organised jointly with Vrije Universiteit Brussel
with the support of the University of Kent
20 October 2021

VENUE Vrije Universiteit Brussel Conference Centre, U-Residence, Bld Général Jacques 271, 1050 Brussels

8:15-9:00 REGISTRATION AND WELCOME COFFEE

9:15-10:00 OPENING ADDRESSES **ROOM FUJI**

Moderator Introduction by the Moderator, **Ken-ichi Yoshida**, Kobe University

Speakers **Prof. Masato Fujisawa**, President, Kobe University ([by video link](#))
Prof. Caroline Pauwels, Rector, Vrije Universiteit Brussel
H.E. Yasushi Masaki, Ambassador of Japan to the European Union
Ms. Signe Ratso, Deputy Director-General, DG Research and Innovation, European Commission

10:00-10:30 KEYNOTE SPEECH **ROOM FUJI**

Introduction **Tamotsu Nakamura**, Executive Vice-President, Kobe University

Keynote [**Understanding the Metabolism of the Economies – Towards a Green Economy**](#)
Prof. Paulo Ferrão, Centre for Innovation, Technology and Policy Research, Instituto Superior Técnico, Lisbon University, President of the COST Association. Member of the Horizon Europe Mission Board *Climate-Neutral and Smart Cities*. Author of *Sustainable Urban Metabolism* (MIT Press, 2013) and *Urban Metabolism of Six Asian Cities* (Asian Development Bank, 2014)

Response **Romain Meeusen**, Vice-Rector, Vrije Universiteit Brussel

10:30-13:30 MORNING PARALLEL SESSIONS

10:30-13:30 PARALLEL SESSION 1: 'TOWARDS A GLOBAL GREEN ECONOMY' **ROOM NIKKO**

Joint Producers **Kenji Takeuchi**, Kobe University
Bernard Siman, O.B.E., VUB and Egmont Institute

10:30-11:50 Theme 1: *The Climate Conundrum: WTO Rules or UN Climate Commitments?*

Moderator **Kenji Takeuchi**, Kobe University
Speakers **Bernard Siman, O.B.E.**, Vrije Universiteit Brussel and Egmont Institute
Conflict between World Trade and Climate Commitments: Top Policy Priority
[Kenji Takeuchi, Kobe University](#)
[Resilience of the World Trade to Climate Disasters](#)
[Kevin Verbelen, AGORIA and Brussels Diplomatic Academy](#)
[Carbon Border Adjustment Measure: a Business Perspective](#)

11:50-12:10 Coffee and networking break

12:10-13:30 Theme 2: *The Perfect Storm: Building Economic Resilience in Overlapping Crises*

Moderator **Bernard Siman, O.B.E.**, Vrije Universiteit Brussel
Speakers [Johan Eyckmans, KU Leuven](#)
[Distributional Effects of Different Climate Change Damage Channels and Mitigation Policies](#)
[Sebastian Oberthür, Vrije Universiteit Brussel](#)
[The Covid-19 Crisis: A Critical Juncture for EU Climate Policy Development?](#)
[Hiroaki Sakamoto, Kobe University](#)
[Pricing the Unpriced: An Interdisciplinary Effort to Make the Market Work for Climate](#)

10:30-13:30 PARALLEL SESSION 2: 'BREAKTHROUGH TECHNOLOGIES FOR CLIMATE SOLUTIONS' ROOM FUJI

Joint Producers **Minoru Mizuhata**, Kobe University
Yoshiyuki Kajikawa, Kobe University and RIKEN
Maitane Berecibar VUB

10:30-11:25 Theme 1: *Advances in Climate Science*

Moderator **Minoru Mizuhata**, Kobe University

Speakers **Yoshiyuki Kajikawa**, Kobe University and RIKEN
Challenge to the New Generation Computational Climate Science Research
Giridharan Renganathan, University of Kent
Urban Climate – Field Experiment and Modelling Studies on Urban Heat Island to Urban Albedo
Miriam Pfeiffer, Kiel University
Climate Past and Present: Corals as Monitors of Past and Current Tropical Climate Variability

11:25-11:45 Coffee and networking break

11:45 -13:30 Theme 2: *Key Technologies for a Carbon-neutral Environment*

Moderator **Yoshiyuki Kajikawa**, Kobe University and RIKEN

Speakers **Takashi Kita**, Kobe University
Industry-Government-Academia Collaborations for SDGs
Michel Cassir, ParisTech, PSL-Research University
CO₂ Capture and Valorisation in Molten Carbonate-based Electrolytes
Minoru Mizuhata, Kobe University
CO₂ Separation and Absorption: Research Breakthroughs
Noriko Shisa, Director, Technology Research Planning, Toyota Motors Europe
Sustainable Mobility - Towards Carbon Neutrality
Maitane Berecibar, VUB
The Batteries of the Future

10:30-13:30 PARALLEL SESSION 3: 'ENABLING RESILIENT, CLIMATE-PREPARED SOCIETIES' ROOM KOYA

Joint Producers **Masayuki Sato**, Kobe University
Leo Van Audenhove, VUB

10:30-11:50 Theme 1: *Social Impact of Climate Change*

Moderator **Masayuki Sato**, Kobe University

Speakers **Karel Deneckere**
[*Nuclear Power's Trembling Foundations: A Case Study of the Belgian Public Debate in the Aftermath of the Fukushima Nuclear Accident*](#)
Kazuhiro Ota, Kobe University
[*Climate Change's Impact on Poverty and Migration*](#)
Ginga Tamura, NHK-Television, Japan
[*Informing Public, Mobilizing Public Opinion: The Role of Mass-Media*](#)
Michel Claessens, Université Libre de Bruxelles
[*How Should Scientists Tackle Global Crises: The Climate Test-Case*](#)

11:50-12:10 Coffee and networking break

12:10-13:30 Theme 2: *Local Adaptation to Global Warming*

Moderator **Leo Van Audenhove**, VUB

Speakers **Koen Borghys**, VUB
Monitoring Sustainable Development Goals: The Role of the Local Level in Brussels
Carina Veeckman, VUB
[*Citizen Science for Environmental Monitoring and Policy: Best Practices*](#)
Mieko Kiyono, Kobe University
[*Adaptation to Climate Change: Community Resilience to Natural Disasters in Rural Area, JAPAN*](#)
Marialena Nikolopoulou, University of Kent
[*Outdoor Comfort as a Commodity; What does Thermal Resilience Mean under Climate Change?*](#)

13:30-14:30 JAPANESE NETWORKING LUNCH FOYER

Video presentations by Toyota Motors Europe, Kobe University, VUB, Euraxess, University of Kent

14:30-14:45 POLICY KEYNOTE ROOM FUJIIntroduction **Ken-ichi Yoshida**, Kobe UniversitySpeaker **Ms. Elina Bardram, Director ff, Directorate General for Climate Action, European Commission**
*The EU-Japan Green Alliance: Joining Forces to Deliver COP 26 Goals***14:45-16:15 AFTERNOON - OPEN INTERACTIVE WORKSHOPS AND BROKERAGE EVENTS**

Objective The objective of these workshops and brokerage meeting, involving morning session speakers and young scientists is to share mutual research interests, and to discuss funding possibilities for EU-Japan collaborative projects, in the perspective of forthcoming Horizon Europe Calls focused on Japan.

14:45-16:15 INTERACTIVE WORKSHOP/BROKERAGE EVENT A (ECONOMICS) ROOM NIKKO
*'VALUING CLIMATE CHANGE AND SUSTAINABILITY'*Joint Producers **Kenji Takeuchi**, Kobe University and **Bernard Siman, O.B.E.**, VUBModerator **Kenji Takeuchi**, Kobe UniversityContributors **Adelina Gschwandtner**, [University of Kent](#)[Estimation of a Hedonic Price Equation for Chicken Meat in the UK: Does the Organic Attribute Matter?](#)**Gunnar Gutsche**, [University of Kassel](#)[Are Preferences for Sustainable Investments Universal? A Large Scale Experiment in Five European Countries](#)**Kayo Murakami**, [Kobe University](#)[What Determines the Values of Environmental Benefits? Evidence from a Worldwide Survey](#)**Miwa Nakai**, [Fukui Prefectural University](#)[The Effect of Environmental Information on Preferences for Dynamic Electricity Tariffs: A case of Germany-Japan Comparison](#)**14:45-16:15 INTERACTIVE WORKSHOP/BROKERAGE EVENT B (NATURAL SCIENCES & TECHNOLOGY) ROOM FUJI**Joint Producers **Minoru Mizuhata**, Kobe University and **Maitane Bercibar**, VUBSession leader **Minoru Mizuhata**, Kobe UniversityContributors **Hiroshi Suzuki**, Kobe University[Silica Hard-Shell Microcapsules Containing Phase Change Materials](#)**Kentaro Kuratani**, National Institute of Advanced Industrial Science and Technology (AIST) and Kobe U.[Breakthrough Research in Material Technologies for Batteries](#)**Marco Liserre**, Kiel University[New Technologies and Materials as Driver of Tomorrow's Power Electronics](#)**14:45-16:15 INTERACTIVE WORKSHOP/BROKERAGE EVENT C (SOCIAL SCIENCES AND HUMANITIES) ROOM KOYA**Joint Producers **Masayuki Sato**, Kobe University, and **Leo Van Audenhove**, VUBSession leaders **Leo Van Audenhove**, VUB, and **Patrick Vittet-Philippe**, Kobe University Brussels European Centre

Contributors Morning session speakers, Ph.D students, science communication experts, civil society representatives.

16:15-16:25 EURAXESS JAPAN PRESENTATION ROOM FUJI*Euraxess Japan and Kobe University: A Key Collaboration for EU-Japan Researcher's Mobility***Judit Erika Magyar**, Country Representative, EURAXESS Japan**16:25-16:40 CLOSING REMARKS ROOM FUJI****Tamotsu Nakamura**, Executive Vice-President, Kobe University**Jeremy Carrette**, Dean for Europe, University of Kent (by video)**Hugo Thienpont**, Vice-Rector for Innovation and Industry Relations, Vrije Universiteit Brussel**16:40-17:45 NETWORKING RECEPTION AND DRINKS (+ SAKE TASTING) FOYER**In the presence of **H.E. Hiroaki Fujiwara**, Deputy Head of Mission, Mission of Japan to the EU**OCTOBER 21ST 8:45-13:00****FOLLOW UP WORKSHOP/BROKERAGE EVENT: 'NEW OPPORTUNITIES FOR EU-JAPAN R&I COOPERATION'**

This Symposium will be followed by an online workshop and brokerage event the next day (21 October 2021) on

'New Opportunities for EU-Japan Research and Innovation Cooperation'.

Jointly organised by Kobe University and the VUB, and supported by Waseda & Kansai Universities and the UniLiON Network of University Offices in Brussels, this interactive virtual event will focus on new funding opportunities for R&I cooperation in Europe and Japan. It will include presentations of ongoing & future projects, and testimonials from EU and Japanese partners.