



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
Bashir Bernard Siman, VUB and Chatham House London

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

Moderator **Kenji Takeuchi**, Kobe University
Speakers **Bashir Bernard Siman**, Vrije Universiteit Brussel and Chatham House London
Conflict between World Trade and Climate Commitments
Kenji Takeuchi, Kobe University
Resilience of the World Trade to Climate Disasters
Kevin Verbelen, AGORIA and Brussels Diplomatic Academy
The Carbon Border Adjustment Measure (CBAM): 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 **Bashir Bernard Siman**, 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
Challenges 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
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
The Role of Mass Media to Tackle Climate Change: A Comparison between EU and Japan Approaches
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
Thermal 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 SPEECH ROOM FUJI

Introduction: **Ken-ichi Yoshida**, Kobe University

Speaker **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 **Bashir Bernard Siman**, VUB

Moderator **Kenji Takeuchi**, Kobe University

Contributors **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
Individual Preferences for Sustainable Investments: A Framed Field Experiment
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**, VUB

Session leader **Minoru Mizuhata**, Kobe University

Contributors **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: Batteries, Fuel Cells, Solar Cells
Marco Liserre, Kiel University
New Technologies and Materials as Drivers 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**, VUB

Session 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 Carette, 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.