



Hiroshima International Conference on Peace and Sustainability 2022

March 1-4, 2022
Hiroshima, Japan



Hiroshima International Conference on Peace and Sustainability 2022

CONFERENCE PARTNERS

Advanced Consortium on
Cooperation, Conflict, and Complexity
EARTH INSTITUTE | COLUMBIA UNIVERSITY



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& Peace**



**Earth
System
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HOPE
Hiroshima Organization
for Global Peace



**Hiroshima
Prefecture**



ELSEVIER

Welcome



Shinji Kaneko

Conference Chair
NERPS Director, Professor, Graduate School of
Humanities and Social Sciences, and
Executive Vice President (Global Initiatives),
Hiroshima University

Welcome to the Hiroshima International Conference on Peace and Sustainability 2022. This inaugural NERPS conference brings together researchers and practitioners from various disciplines and sectors who are advancing our understanding of the important relationship between peace and sustainability. The issues we all face right now are becoming more challenging and complex, especially in the context of conflicts, ecological threats, and the COVID-19 pandemic. This conference serves as a platform for transdisciplinary dialogue toward addressing these challenges in the context of unprecedented global transformations.

We planned this conference in March last year with optimism that the COVID-19 pandemic would allow us to confer in person, but the recent surge in Omicron variant left us dealing with travel restrictions once again. Thank you for your patience as we manage the uncertainties involved in organizing an international conference in these challenging times. I trust that the hybrid format that our organizing team has prepared for all sessions will enable us to exchange ideas and foster meaningful collaboration.

Thank you for your participation, and I warmly welcome you to Hiroshima University.

Welcome



Mitsuo Ochi
President
Hiroshima University

Hiroshima University is a research university that advocates the five principles of its Guiding Principles: “The Pursuit of Peace,” “The Creation of New Forms of Knowledge,” “The Nurturing of Well-Rounded Human Beings,” “Collaboration with the Local, Regional, and International Community” and “Continuous Self-Development.” In 2017, we formulated the long-term vision “SPLENDOR PLAN 2017” and embodied the five Guiding Principles that had been the pillars of our action plan toward establishing “Science for Sustainable Development.” They are in line with the principles of the Sustainable Development Goals (SDGs) adopted by the United Nations General Assembly in 2015, and our academic community at Hiroshima University is determined to contribute to the peacefulness of society and sustainability of our planet.

Based on this determination, we established the Network for Education and Research on Peace and Sustainability (NERPS) as a one-stop office for university-wide SDGs-related activities in 2018, which was the first year of SDGs implementation. NERPS plays a vital role in research promotion based on the transdisciplinary study of “Peace and Sustainability” through the collaboration of various actors from different sectors.

With this background, this first Hiroshima International Conference on Peace and Sustainability is a crucial milestone as an opportunity for Hiroshima University to connect with students, researchers, public officials, businesses, and many others around the world on peace and sustainability. I am confident that this conference will be a success thanks to your efforts and support. I am sincerely grateful to all of you for your participation and cooperation.

Keynote

Jeffrey Sachs

University Professor and
Director of the Center for Sustainable
Development at Columbia University



Jeffrey D. Sachs is a University Professor and Director of the Center for Sustainable Development at Columbia University, where he directed the Earth Institute from 2002 until 2016. He is also President of the UN Sustainable Development Solutions Network and a commissioner of the UN Broadband Commission for Development. He has been advisor to three United Nations Secretaries-General, and currently serves as an SDG Advocate under Secretary General António Guterres. He spent over twenty years as a professor at Harvard University, where he received his B.A., M.A., and Ph.D. degrees. He has authored numerous bestseller books. His most recent book is *The Ages of Globalization: Geography, Technology, and Institutions* (2020). Sachs was twice named as one of Time magazine's 100 most influential world leaders and was ranked by The Economist among the top three most influential living economists.

Conference Committee

CHAIR

Shinji Kaneko

NERPS Director, Professor, Graduate School of Humanities and Social Sciences, and Executive Vice President (Global Initiatives), Hiroshima University

CO-CHAIR

Ayyoob Sharifi

Associate Professor, NERPS & Graduate School of Humanities and Social Sciences, Hiroshima University

CO-CHAIR

Dahlia Simangan

Associate Professor, NERPS & Graduate School of Humanities and Social Sciences, Hiroshima University

Scientific Committee

Akira Hibiki

Professor and Head of Policy Design Lab, Graduate School of Economics and Management, Tohoku University

Fumiko Kasuga

Future Earth, Global Hub Director, Japan: Executive Team

Vally Koubi

Professor and Senior Scientist at the Swiss Federal Institute of Technology Zurich (ETH)

Paul Shrivastava

Chief Sustainability Officer, Penn State University, United States

Hassan Virji

Emeritus Executive Director, START International

Organizing Committee

Akira Hibiki

Professor, Graduate School of Economics and Management, and Head of Policy Design Lab., Tohoku University

Shunsuke Managi

Distinguished Professor of Technology and Policy and the Director of the Urban Institute, Kyushu University

Joshua Fisher

Director of Advanced Consortium on Cooperation, Conflict, and Complexity (AC4), The Earth Institute, Columbia University, and Specially Appointed Professor, NERPS, Hiroshima University

Cullen Hendrix

Professor, Josef Korbel School of International Studies, University of Denver, and Specially Appointed Professor, NERPS, Hiroshima University

Ali Cheshmehzangi

Head of Department of Architecture and Built Environment (ABE), Professor of Architecture and Urban Design, University of Nottingham Ningbo China (UNNC), and Specially Appointed Professor, NERPS, Hiroshima University

Florian Krampe

Director and Senior Researcher, Climate Change and Risk Programme, Stockholm International Peace Research Institute, and Specially Appointed Professor, NERPS, Hiroshima University

About the Conference

Since the late 1980s, and in order to regulate the increasingly detrimental impacts of humans on the environment, transition towards sustainability has been high on the agenda of researchers and policy makers alike. Meanwhile, peace considerations have expanded in recent decades to include the varied types and sources of conflict, from inter-state to intra-state conflicts due to various social, political, economic, and environmental factors.

Academic and policy circles widely recognize sustainability and peace as intrinsically interrelated. The concepts of sustainability and peace are multi-dimensional and constantly evolving, and the pathways of their relationship are complex and dynamic. Some studies have highlighted the myriad factors and mechanisms that influence this relationship, particularly that of between climate and conflict. They shed light on the mediating role of political institutions, economic conditions, and social practices, especially in understanding the implications of climate for security. However, there is still a need to better understand the pathways where sustainability and peace interact considering the different factors and contexts that are constantly shaping and reshaping the conditions for sustainable and peaceful societies.

The Hiroshima International Conference on Peace and Sustainability 2022 is a platform for transdisciplinary research and policy conversations on the peace-sustainability nexus. The overall goal of this conference is to facilitate inter- and transdisciplinary dialogue and collaboration between various stakeholders working on issues related to peace, sustainability, or their nexus. Through facilitating interaction between stakeholders that focus on peace and/or sustainability, it is hoped that the conference will foster further research and practice on the peace-sustainability nexus. Students, researchers, and practitioners are invited from different disciplines and sectors to present their research and initiatives and explore new partnerships and collaborations.

About NERPS



The Network for Education and Research on Peace and Sustainability (NERPS) is an international network of educators, researchers, and practitioners collaborating towards the advancement of peaceful and sustainable societies amidst global challenges. It engages with a wide range of stakeholders to identify research priorities and emerging issues related to peace and sustainability and implement innovative interdisciplinary and transdisciplinary education and research projects. Based at Hiroshima University's Higashi-Hiroshima campus, NERPS also contributes to the promotion of Sustainable Development Goals (SDGs) and serves as a resource hub for SDG-related activities of Hiroshima University.



Your Trip to Hiroshima

Hiroshima Prefecture

Hiroshima Prefecture is located in the southwestern part of Japan. It boasts expansive views of the Seto Inland Sea to the south and the rolling Chugoku mountains to the north, and is blessed with rich and varied nature, four distinct seasons, a long history and traditional culture. There are also many scenic spots, including two World Cultural Heritage Sites – the Hiroshima Peace Memorial (Atomic Bomb Dome) and Itsukushima Shinto Shrine.

Itsukushima Shrine is one of the most significant shrines in Japan and the only shrine in the world built on top of the water. The view of Itsukushima Shrine

has long been considered one of the three finest views in Japan.

The Atomic Bomb Dome is the most symbolic building in Hiroshima City, standing only meters away from the hypocenter of the atomic bomb blast. It has become a beacon for the world's prayers for peace and an end to nuclear weapons.

Please visit the [Hiroshima Prefecture's official travel site](#) to discover the latest information on World Heritage Sites, attractions, hotels, events, tours, dining and things to do in Hiroshima.

Higashi-Hiroshima City

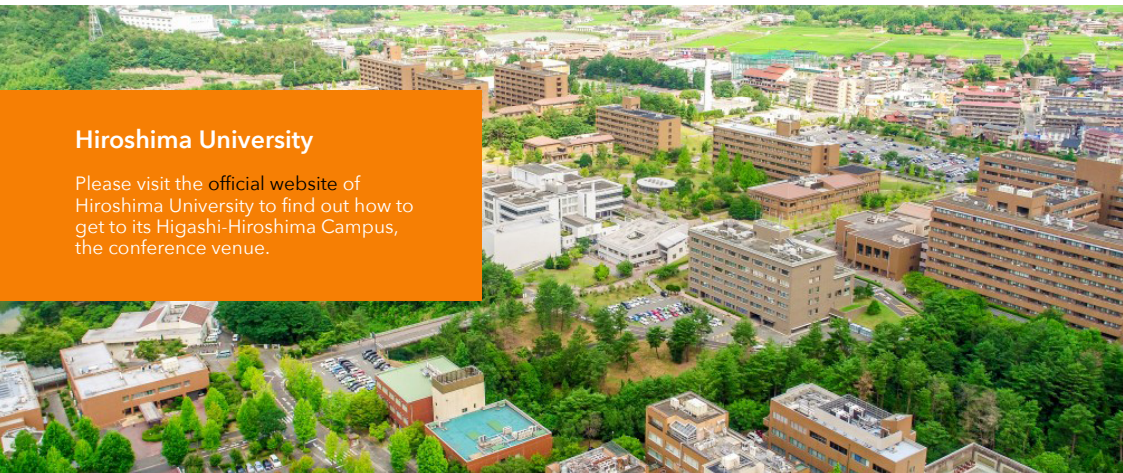
Saijo in Higashi-Hiroshima stands shoulder to shoulder with the famous sake brewing regions – Nada district in Kobe and Fushimi area in Kyoto. In the vicinity of Saijo Railroad Station, seven traditional Japanese sake breweries are in operation. Walking around the old sake district and visiting the breweries make for an enjoyable time out. You can enjoy the beautiful townscape brought about by the contrast between the towering red-brick chimneys and the white-plaster walls. Some breweries offer tastings of sake and sake brewing water and sell sake.



Please take a look at [Higashi-Hiroshima City sightseeing guide](#), which may give you useful tips on how to make the most of your stay in Higashi-Hiroshima City.

Hiroshima University

Please visit the [official website of Hiroshima University](#) to find out how to get to its Higashi-Hiroshima Campus, the conference venue.



Getting to the Conference Venue

From Hiroshima Airport: Go to Bus Stop 4 and take the bus to Shiraichi Station. From Shiraichi Station, take the train going to Saijo Station. Exit at the South Gate, Take the stairs to the right, toward the bus stops. Go to Bus Stop 3 and get off at Daigaku Kaikan Mae Bus Stop. Follow the map below to the conference venue.

From Saijo Station. Exit at the South Gate, take the stairs to the right, toward the bus stops. Go to Bus Stop 3 and get off at Daigaku Kaikan Mae Bus Stop. Follow the map below to the conference venue.

From Higashihiroshima Shinkansen Station. Buses going straight to Hiroshima University are limited. Take the taxi instead and inform the driver to bring you to the Daigaku Kaikan Mae Bus Stop. Follow the map below to the conference venue.

<https://tgo.hiroshima-u.ac.jp/accessmap/>



Program Overview

All sessions are hybrid except for the online symposium and awarding on March 4, Friday.

March 1, Tuesday

11:00–12:00 Registration (IDEC 1F)

12:00–13:00 Lunch (IDEC 1F)

13:00–13:30 Opening Session (IDEC Large Conference Room)

13:30–15:00 Parallel Sessions

TU1 **ORGANIZED PANEL** Climate Change and Adaptation:
Approaches of S-18 Project in Japan

TU2 Urban Planning

15:30–17:00 Parallel Sessions

TU3 Climate, Peace, and Security

TU4 **ORGANIZED PANEL** Local Peacebuilding or Indigenous Peacemaking

17:30–19:00 Parallel Sessions

TU5 Resource Management

TU6 Urban Management

TU7 **WORKSHOP** Sustainable Peace and Peaceful Sustainability in Conflict-Affected Societies

March 2, Wednesday

08:30–10:00 Parallel Sessions

WE1 Environmental Considerations in Conflict Transformations

WE2 **ROUNDTABLE** Educating to Address Global and Local Dilemmas: Creating Innovative Models to Educate the Next Generation of Peace & Sustainability Professionals

WE3 Socio-Economic Sustainability

10:30–12:00 Parallel Sessions

WE4 Conflict Resolution and Peace Processes

WE5 Education and Empowerment

WE6 **ORGANIZED PANEL** Hiroshima +75: Building Peace in Japan and Beyond

12:00–13:30 LUNCHBREAK

13:30–15:00 Parallel Sessions

WE7 Society and Culture

WE8 **WORKSHOP** ICT and Smart-Resilient Cities and Sustainable Transitions

15:30–17:00 Parallel Sessions

WE9 The Politics of Peace and Sustainability

WE10 The Impact of COVID-19 on Peace and Sustainability

WE11 Climate-Resilient Agriculture

CONT'D March 2, Wednesday

17:30–19:00 Parallel Sessions

- WE12** **ORGANIZED PANEL** Norms and Practices in Business and Peace: Private Sector Engagement in the Discourse of Peace and Peacebuilding
- WE13** **ORGANIZED PANEL** Assessing Vitality, Vulnerability and Versatility of Rural Towns: Methodological Overview and Practical Challenges

March 3, Thursday

08:30–10:00 Parallel Sessions

- TH1** Youth Engagement and Gender Equality
- TH2** **ORGANIZED PANEL** Protected Area Management & Natural Resource Governance: Exploring Pathways for Environmental Sustainability & Peacebuilding
- TH3** **ORGANIZED PANEL** Promoting Peace through Shared Governance of the Seas

10:30–12:00 Parallel Sessions

- TH4** **ORGANIZED PANEL** Climate Change, Natural Disaster, and Impact on the Society
- TH5** **ROUNDTABLE** Nuclear Disarmament and Our Sustainable Future

12:00–13:30 LUNCHEBREAK

13:30–15:00 Parallel Sessions

- TH6** **ROUNDTABLE** Towards a Resilient and Sustainable Future with Positive Peace, Collaborations and Partnerships
- TH7** Well-being and Crisis Management

15:30–17:00 Parallel Sessions

- TH8** Environmental Law and Policies
- TH9** **ROUNDTABLE** SDGs Partnerships, Capital Flow, and Livelihood Impacts

17:30–19:00 Parallel Sessions

- TH10** Policies for Sustainable Development
- TH11** Sustainable Peace and Education
- TH12** **ROUNDTABLE** A Relational Explanation of Environmental Peacebuilding

March 4, Friday

09:00–10:30 Online Symposium and Awarding

KEYNOTE SPEAKER Jeffrey D. Sachs *Columbia University, USA*

Guidelines for Chairs and Presenters

A. CHAIR RESPONSIBILITIES

The chair has the following responsibilities in ensuring the flow of the panel.

1. Please arrive at the onsite venue or log in to the Zoom meeting of the session 5-10 minutes before the session officially starts (see C. for Zoom guidelines). Zoom links and room assignments can be accessed by logging in through your Award's MyPage: <https://hicps.award-con.com/LOGIN.php>
2. Briefly introduce yourself, the session, and each of the presenters (their names, institutional affiliations, and titles of presentations). You may introduce the presenters at the beginning of the session or before each presentation.
3. Provide respectful and constructive feedback to each presentation, either after each presentation or at the end of all presentations.
4. Facilitate the Q&A after the final presentation.
5. Serve as a timekeeper and ensure that all presenters are given a reasonably equal amount of presentation time (see D. for suggested time allocation). The chair has the discretion to allocate sufficient time for the Q&A.
6. Complete the scoresheet for the presentations fairly and strictly. These scores will be the basis for awarding the best presentations. Chairs who are also presenters in the same session do not have to score their own presentations.
7. Submit a 200-word synthesis of the session to nerps@hiroshima-u.ac.jp no later than March 11, 2022.

B. PRESENTATION GUIDELINES

Online and onsite presenters are expected to keep in mind the following guidelines to ensure an uninterrupted flow of the panel.

1. Please arrive at the onsite venue or log in to the Zoom meeting of the session 5-10 minutes before the session officially starts (see C. for Zoom guidelines). Zoom links and room assignments can be accessed by logging in through your Award's MyPage: <https://hicps.award-con.com/LOGIN.php>
2. If you will be using PowerPoint slides, please upload them through the following link by February 28, 2022, Monday at 11:00 am JST as a backup copy in case of internet interruptions: <https://forms.gle/myr4jYRhJRNavUaH9>. Presenters are expected to share their slides at the time of their presentations. Online participants are encouraged to familiarize themselves with screen or slide sharing in Zoom to maximize the allotted time for their presentations. A laptop and projector will be available for onsite participants.
3. Best presenters based on scientific and presentation qualities will be awarded during the Symposium on March 4, 2022, Friday from 9:00-10:30 am JST.

C. ZOOM GUIDELINES

1. Zoom links can be accessed through your Award's MyPage: <https://hicps.award-con.com/LOGIN.php>
2. All panelists are encouraged to keep their cameras on, if possible, throughout the session or at least when speaking. It is recommended that your face is well lit, and your camera positioning is on a landscape frame, center frame, and eye-level.
3. Ensure you are in a quiet location with minimal interruptions, if possible. Familiarize yourself with the mute function in Zoom, and mute yourself when you are not talking to ensure audio clarity. Only if available, kindly use an external microphone (e.g., a regular headset with a microphone).

D. TIME ALLOCATION

1. Each session is allocated 1 hour and 30 minutes for all presentations, feedback, and Q&A.
2. Each presentation will have about 15 minutes for each presentation, and the remaining time will be for the Q&A. Chairs have the discretion to allocate sufficient time for the discussion.
3. Chairs of organized panels, roundtables, and workshops will decide on the timing of speakers/ presentations and Q&A.

13:30-15:00 · MARCH 1 (TUESDAY) · IDEC LARGE CONFERENCE ROOM

TU1 Climate Change and Adaptation: Approaches of S-18 Project in Japan
ORGANIZED PANEL

CO-CHAIRS Kohei Imamura and Sayaka Yoshikawa *Ibaraki University, Japan*

- > **Enhancing National and Local Adaptation Strategies in Japan through the S-18 Project**
Yoshifumi Masago *National Institute for Environmental Studies, Japan*
 - > **Setting common socio-economic scenarios for S-18 Project Research**
Sayaka Yoshikawa and Nobuo Mimura *Ibaraki University, Japan*
 - > **Proposal for a Cost Framework for Residential Relocation to Adapt to Sea Level Rise**
Kohei Imamura *Ibaraki University, Japan*
Makoto Tamura *Ibaraki University, Japan & VNU Vietnam Japan University, Vietnam*
Hiromune Yokoki *Ibaraki University, Japan*
 - > **Natural Disasters and Firm Selection: Heterogeneous Effects of Flooding Events on Manufacturing Sectors in Japan**
Jun Yoshida *Kyushu University, Japan*
Shinsuke Uchida *Nagoya City University, Japan*
Katsuhito Nohara *Hokusei Gakuen University, Japan*
Akira Hibiki *Tohoku University, Japan*
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13:30-15:00 · MARCH 1 (TUESDAY) · IDEC 204

TU2 Urban Planning

CHAIR Ayyoob Sharifi *Hiroshima University, Japan*

- > **A Critical Analysis of Existing Urban Climate Action Plans Towards Developing City-Specific Urban Climate Solutions**
Prince Dacosta Aboagye and Ayyoob Sharifi *Hiroshima University, Japan*
 - > **Sustainable Development of Urban Underground Space: A Comparative Analysis of Existing Literature and Cases**
Hengcai Chen and Ali Cheshmehzangi *University of Nottingham Ningbo China, China*
 - > **Paradigm Shift in Sustainable Urban Planning for Thailand's Provincial Cities from the Perspective of Urban Development Stages during the 2010s**
Settawut Bamrunghul and Takahiro Tanaka *Hiroshima University, Japan*
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15:30-17:00 · MARCH 1 (TUESDAY) · IDEC LARGE CONFERENCE ROOM

TU3 Climate, Peace, and Security

CHAIR Valley Koubi *ETH Zurich, Switzerland*

- > **Climate Change as a Risk to International Peace and Security and Human Security: Perceptions among UN Climate Conference Participants**
Björn-Ola Linnér and Maria Jernnäs *Linköping University, Sweden*
- > **Non-Adherence to Principles of International Law: The Bane of Environmental Insecurity**
Kwadwo Tuffuor *University of Cape Coast, Ghana*
- > **Co-benefits and synergies between food security and eight positive peace pillars**
Tong Zou, Ali Cheshmehzangi, Ayotunde Dawodu, and Eugenio Mangi
University of Nottingham Ningbo China, China

> **Biodiversity Conservation and Peacebuilding: The case of Peasants Reservoir Zone Río Pato Balsillas in Colombia**

Hector Morales Muñoz *University of Berlin, Germany*

Julia Gorricho *South America WWF, Germany*

Carlos Ariel García *Caguán Expeditions, Colombia*

Michelle Bonatti *Centre for Agricultural Landscape Research, Germany*

Stefan Siebert *University of Berlin, Germany*

15:30-17:00 · MARCH 1 (TUESDAY) · IDEC 204

TU4 Local Peacebuilding or Indigenous Peacemaking

ORGANIZED PANEL

CHAIR Md. Rizwanul Islam *North South University, Bangladesh*

> **The Humane yet Ambivalent Attitude Towards Refugees: A Potential Threat to Peace**

Md. Rizwanul Islam *North South University, Bangladesh*

> **Peace through Community building efforts of the Rohingya in Bangladesh**

Ishrat Zakia Sultana *North South University, Bangladesh*

> **The Role of Media and Social Cohesion between Host and the Rohingyas in Cox's Bazar**

Harisur Rahman and Bulbul Siddiqi *North South University, Bangladesh*

17:30-19:00 · MARCH 1 (TUESDAY) · IDEC LARGE CONFERENCE ROOM

TU5 Resource Management

CHAIR Masaaki Fuse *Hiroshima University, Japan*

> **Review of the Challenges and Barriers to the Implementation of Smart Grid Technology**

Lubna Nazir and Ayyoob Sharifi *Hiroshima University, Japan*

> **A Study on Zoning Methodology for Formulation of Woody Biomass Energy Utilization Plan in Non-timber Production Area**

Kazuki Hirano and Takahiro Tanaka *Hiroshima University, Japan*

> **The impact of Load shedding on the business performance of Medium-scale electricity users in the Eastern region of Ghana**

Winfred Ayertey and Ayyoob Sharifi *Hiroshima University, Japan*

> **E-Waste Management in India vis-à-vis Switzerland & Japan A Comparison of Legal Regime**

Dolly Singh *Banaras Hindu University, India*

17:30-19:00 · MARCH 1 (TUESDAY) · IDEC 204

TU6 Urban Management

CHAIR Takahiro Tanaka *Hiroshima University, Japan*

> **Radiography of resilience to socio-natural disasters. A bibliometric review of Spain, Latin America and the Caribbean (2000-2021)**

Camilo Caro *The Pontifical Catholic University of Chile, Chile*

> **Relationship between Spatial Air Temperature Distribution and the Physical Environmental Factors in Bangkok Metropolitan Region**

Tarnraewee Ngamsiriudom and Takahiro Tanaka *Hiroshima University, Japan*

> **An Analysis of Patterns of Public Engagement in China's Community Renewal Projects: Case Studies in Guangzhou**

Weixuan Chen *University of Nottingham Ningbo China, China*

Ali Cheshmehzangi *University of Nottingham Ningbo China, China*

Eugenio Mangi *University of Nottingham Ningbo China, China*
Tim Heath *University of Nottingham, UK*
Qianxi Zhang *Ningbo Tech University, China*

- > **A Review: The Never-Ending Water Supply Scenario in Kelantan**
Amirul Syahidah Asmadi, Intan Sazrina Saimy, Nor Ashikin Mohamed Yusof, Shadiya Ba Outayan, and Siti Hasliah Salleh *Universiti Teknologi Malaysia, Malaysia*

17:30-19:00 · MARCH 1 (TUESDAY) · IDEC 203

TU7 Sustainable Peace and Peaceful Sustainability in Conflict-Affected Societies
WORKSHOP

PARTICIPANTS

- > Dahlia Simangan *Hiroshima University, Japan*
- > Ayyoob Sharifi *Hiroshima University, Japan*
- > Chui Ying-Lee *Eikei University, Japan*
- > Riyaz Karki *Peace Perspectives, Nepal*
- > Srinjoy Bose *University of New South Wales Sydney, Australia*
- > Francisco Magno De La Salle *University Manila, Philippines*
- > Florian Krampe *Stockholm International Peace Research Institute (SIPRI), Sweden*
- > Takanori Hayashida *International Development Center of Japan, Japan*
- > Richard Friend *University of York, UK*
- > Clive Lipchin *Arava Institute for Environmental Studies, Israel*
- > Jo Rose *University of York, UK*

08:30-10:00 · MARCH 2 (WEDNESDAY) · IDEC LARGE CONFERENCE ROOM

WE1 Environmental Considerations in Conflict Transformations

CHAIR Cullen Hendrix *University of Denver, USA*

- > **Disasters as a Driver of Conflict De-Escalation**
Tobias Ide Murdoch *University Perth, Australia*
- > **The importance of regional food security in achieving supply chain resilience: A case study**
Tong Zou, Ali Cheshmehzangi, Ayotunde Dawodu, and Eugenio Mangi
University of Nottingham Ningbo China, China
- > **Boko Haram Insurgency on North-Eastern Nigeria: How has this influenced food insecurity in the Region?**
Nnaemeka Phil Eke-okocha and Chikadibia Glory Eze
Earth Charter International San Jose, Costa Rica
- > **Understanding Climate Change and Agricultural Mediation in the USDA Mediation Program**
Courtney Chicvak *Columbia University, USA*
- > **Does hostility affect public support for the provision of global public goods among competing neighboring countries? A survey experiment in Northeast Asia**
Tomomi Yamane and Shinji Kaneko *Hiroshima University, Japan*

08:30-10:00 · MARCH 2 (WEDNESDAY) · IDEC 204

WE2 Educating to Address Global and Local Dilemmas: Creating Innovative Models to Educate the Next Generation of Peace & Sustainability Professionals
ROUNDTABLE

PARTICIPANTS

- > Joshua Fisher *Columbia University, USA*

- > Hakim Williams *Gettysburg College, USA*
- > Gorka Espiau Agirre *Lehendakaria Center, Spain*
- > Poonam Arora *Manhattan College, USA*
- > Beth Fisher Yoshida *Columbia University, USA*
- > Cassie Xu *Columbia University, USA*

08:30-10:00 · MARCH 2 (WEDNESDAY) · IDEC 203

WE3 Socio-Economic Sustainability

CHAIR Chuan Liao *World Development, Elsevier*

- > **Ecological Resource Economics**
Kimberly Burnett and James Roumasset *University of Hawai'i, USA*
- > **Technological Changes in Developed Developing Economies and its Ecological Consequences**
Faig Aghabalayev *University of Sichuan, China*
Wang SiMing *University of Nanjing Agriculture, China*
- > **Impact of Climate Change on Minorities and Farmer's Consumption: Evidence from Panama**
Ambar L. Chavez Espinosa and Akira Hibiki *Tohoku University, Japan*
- > **The Impact of Refugees on Economic Growth in Malaysia: Evidence from ARDL Approach**
Oumaima Tounchibine, Nor Razinah Binti Mohd. Zain, Engku Rabiah Adawiah Engku Ali, and Syed Marwan Mujahid Syed Azman *International Islamic University of Malaysia, Malaysia*
- > **Impact of Remittances on Households Consumption Patterns: Evidence from Afghanistan**
Naija Adina, Ghulam Dastgir Khan, MD. Abdul Bari, and Yuichiro Yoshida
Hiroshima University, Japan

10:30-12:00 · MARCH 2 (WEDNESDAY) · IDEC 204

WE4 Conflict Resolution and Peace Processes

CHAIR Srinjoy Bose *University of New South Wales Sydney, Australia*

- > **Exploring the need for an Integrated Conflict Sensitivity Framework in development assistance that contributes to peaceful and sustainable post-conflict societies**
Prakash Paudel *University of Technology Sydney, Australia*
- > **The Components of Peace Agreements and FDI Inflows in Post-Civil War Economies: A cross-country analysis over the period 1990 to 2019**
Alonna Williams *IE School of Global and Public Affairs, Spain*
- > **Resurrection of Peace in Afghanistan: Regional and Global Issues**
Gurwinder Singh *Banaras Hindu University, India*
- > **Dealing with Weapons and Weapon Bearers: A Closer Look at the Comprehensive Agreement on the Bangsamoro (CAB) by the Government of the Philippines (GPH) and the Moro Islamic Liberation Front (MILF)**
Mario Aguja *Mindanao State University-General Santos, Philippines*
- > **Ingroup Conflict, Autonomy and Organised Distrust in Cherán, Mexico: Lessons for Peacebuilding**
Erick Cosme Gomez *Hiroshima Jogakuin University, Japan*

10:30-12:00 · MARCH 2 (WEDNESDAY) · IDEC 203

WE5 Education and Empowerment

CHAIR Mohammad Ashaq Malik *Gov. Post Graduate College Rajouri, India*

- > **Integral Peace Leadership: Lessons from the Peace Practice Alliance**
Whitney McIntyre Miller *Chapman University, USA*
 - > **Exploring pandemics' career trajectories and job security under digitalization and the COVID-19 crisis in Indonesia**
Rahmatika Dewi *Hiroshima University, Japan*
 - > **Mainstreaming indigenous knowledge in formal learning: the Philippines' 2019 higher education policy change**
Giselle Mirole *Waseda University, Japan*
-

10:30-12:00 · MARCH 2 (WEDNESDAY) · IDEC LARGE CONFERENCE ROOM

WE6 Hiroshima +75: Building Peace in Japan and Beyond

ORGANIZED PANEL

CHAIR Dahlia Simangan *Hiroshima University, Japan*

- > **Reconstructing Hiroshima as a Peace Memorial City: Local Agency and Identity-Making in Peacebuilding**
Mari Katayanagi and Noriyuki Kawano *Hiroshima University, Japan*
 - > **Hiroshima's Ongoing Peacebuilding and Beyond: How Does This Local Initiative Seek to Extend to World Peace?**
Tatsuo Yamane *Hiroshima University, Japan*
 - > **The Bishop's "Fine Tact": The Ambiguity, Ambivalence, and Relationality of Catholic Peacebuilding from Nagasaki to Flores, Indonesia during the Asia-Pacific War**
Hirokazu Miyazaki *Northwestern University, USA*
 - > **Turning a Disaster to Regenerative Strength: Hiroshima's Strategy for Societal Peace in the Anthropocene**
Luli van der Does *Hiroshima University, Japan*
-

13:30-15:00 · MARCH 2 (WEDNESDAY) · IDEC LARGE CONFERENCE ROOM

WE7 Society and Culture

CHAIR Keshav Lall Maharjan *Hiroshima University, Japan*

- > **Building walls and healing hearts: Memorializing the COVID-19 pandemic**
John Lee Candelaria *Hiroshima University, Japan*
 - > **The politics of fiction and its significance as a medium to advance dialogue and advocacy around the human condition in politically challenging times**
Samantha Layton Matthews *University of Johannesburg, South Africa*
 - > **Does Knowing a Composer's Sex Influence Listener Preferences for Classical Music? A Randomized experiment**
Aino Nakasugi and Daisaku Goto *Hiroshima University, Japan*
-

13:30-15:00 · MARCH 2 (WEDNESDAY) · IDEC 204

WE8 ICT and Smart-Resilient Cities and Sustainable Transitions

WORKSHOP

PARTICIPANTS

- > Ali Cheshmehzangi *University of Nottingham Ningbo China, China*

- > Ayyoob Sharifi *Hiroshima University, Japan*
- > Leila Irajifar *RMIT University, Australia*
- > Baojie He *Chongqing University, China*

15:30-17:00 · MARCH 2 (WEDNESDAY) · IDEC LARGE CONFERENCE ROOM

WE9 The Politics of Peace and Sustainability

CHAIR Björn-Ola Linnér *Linköping University, Sweden*

- > **The Nexus between Peace and Sustainability for Regional Development of Africa: An Analytical Study of African Union**
Moosa Lakhani *University of Milan, Italy*
Shafique Qurban *University of Sialkot, Pakistan*
- > **Analysing ASEAN Centrality as Tool for Regional Peacebuilding in East Asia**
Aaron Denison Deivasagayam *Hiroshima University, Japan*
- > **Self-reinforcing feedback loops in the indicated climatically triggered civil conflicts**
Avit Bhowmik *Karlstad University, Sweden*
- > **How politics is changing with the help of technology and social media in South Asia**
Shaikh Shahrukh Farhan *North South University, Bangladesh*
- > **Less Voting Cost, More Turnout of Students: Evidence from the National Election in Japan**
Kenta Katayama and Daisaku Goto *Hiroshima University, Japan*

15:30-17:00 · MARCH 2 (WEDNESDAY) · IDEC 204

WE10 The Impact of COVID-19 on Peace and Sustainability

CHAIR Abby E. Hilson *World Development Sustainability, Elsevier*

- > **Human rights, social security and Ghana's response to the COVID-19 pandemic**
Kwadwo Tuffuor, Joyce DeGraft, and Prince Amfo *University of Cape Coast, Ghana*
- > **Interrogating international peace and security in West Africa in the midst of the COVID-19 pandemic**
Kwadwo Tuffuor and Patrick Osei-Kufuor *University of Cape Coast, Ghana*
- > **The impact of COVID-19 on Daytime Staying Population and Pedestrian Volume in the Street**
Shota Tamura, Taku Goto, Jempei Nishimura, Takahiro Tanaka, and Makoto Tsukai
Hiroshima University, Japan
- > **Spatio-temporal analysis of COVID-19 incidence and associated built environment factors in Tokyo**
Mehdi Alidad *Hiroshima University, Japan*
Ayyoob Sharifi *Hiroshima University, Japan*
Daisuke Murakami *Institute of Statistical Mathematics, Japan*

15:30-17:00 · MARCH 2 (WEDNESDAY) · IDEC 203

WE11 Climate-Resilient Agriculture

CHAIR Niraj Prakash Joshi *Hiroshima University, Japan*

- > **Crop diversification as a means to reduce external inputs, but improving crop yield and weed control**
Raj Chongtham *Swedish University of Agricultural Sciences, Sweden*
- > **Vitamin B2 as a stress reliever in rice seedlings under salinity stress**
Kamonthip Jiadkong *Hiroshima University, Japan*

- > **Differences in high Na tolerant mechanisms of rice under high saline and saline-alkaline stresses**
Mami Nampei, Karnonthip Jiadkong, Sumana Chuamnakhong, Hirofumi Saneoka, and Akihiro Ueda *Hiroshima University, Japan*
 - > **Screening of salinity tolerant Japonica rice varieties**
Anisa Nazera Fauzia, Mami Nampei, Shinta, and Akihiro Ueda *Hiroshima University, Japan*
-

17:30-19:00 · MARCH 2 (WEDNESDAY) · IDEC 204

WE12 Norms and Practices in Business and Peace: Private Sector Engagement in the Discourse of Peace and Peacebuilding

ORGANIZED PANEL

CHAIR Mari Katayanagi *Hiroshima University, Japan*

- > **Examining Business for Sustaining Peace in Africa through the Partnership of the UN Global Compact**
Tatsuo Yamane *Hiroshima University, Japan*
 - > **Local Business Contribution to Peace in a Divided Political Context: The Case of Bosnia and Herzegovina**
Mari Katayanagi *Hiroshima University, Japan*
 - > **Business Peacebuilding Potential: Responsible Supply Chain Management of Conflict Minerals from the Democratic Republic of Congo**
Miho Taka *Coventry University, UK*
 - > **Role of Social Enterprises in the Peacebuilding Agenda in Bangsamoro, the Philippines**
Harmond Marte *Hiroshima University, Japan*
 - > **Optimising peace? New Perspective on Business for Peace in the Sustaining Peace Agenda**
DB Subedi *University of New England, Australia*
-

17:30-19:00 · MARCH 2 (WEDNESDAY) · IDEC LARGE CONFERENCE ROOM

WE13 Assessing vitality, vulnerability and versatility of rural towns: Methodological overview and practical challenges

ORGANIZED PANEL

CHAIR Walter T. de Vries *Technical University of Munich, Germany*

OPENING REMARKS Akira Mukaida *Remote Sensing Technology Center of Japan (RESTEC), Japan*

KEYNOTE SPEAKER Kaname Ikeda *President, Remote Sensing Technology Center of Japan (RESTEC), Japan*

- > **Socio-economic changes and trends in Tsukuba City: A geo-spatial analysis on the resilience of the city**
Remi Chandran *RESTEC, Japan*
 - > **Investigating 20-years of Land-use and Landcover dynamic in rural and urban structure in Japan**
Pegah Hashemvand *RESTEC, Japan*
 - > **Exploring the research gap of studying Vitality, Vulnerability and Versatility of Rural Towns from a socio-economic versus a remote sensing perspective**
Vineet Chaturvedi *Technical University of Munich, Germany*
 - > **Resilient tools for rural resilience assessment: Mapping the challenges of small communities searching for the "good" assessment tool**
Luc Ampleman *Jagiellonian University, Poland*
 - > **An exploration of visual tools for communicating Resilience Assessment results to the community**
Melisa Pesoa *Polytechnic University of Catalonia, Spain*
-

08:30-10:00 · MARCH 3 (THURSDAY) · IDEC 203

TH1 Youth Engagement and Gender Equality

CHAIR Maria Tanyag *Australian National University, Australia*

- > **#EndSARS Protest: Role of Social Media in Youths led Peacebuilding**
Nnaemeka Ekeokocha and Chikadibia Eze *Earth Charter International San Jose, Costa Rica*
 - > **Gender and Cross-Cultural Movement towards the Establishment of Peace: The Case of Peace Agenda of Women (PAOW) in the Deep South of Thailand**
Anna Christi Suwardi *Mae Fah Luang University, Thailand*
 - > **Raising the Minimum Legal Age to Curb Child Marriage: The Role of Women Ulama Congress in Indonesia**
Hilda Kemala *Waseda University, Japan*
 - > **Post Migration Refugee Adaptivity: Afghan Women Refugees as Agents of Change**
Kim Nguyen *City University of New York, USA*
-

08:30-10:00 · MARCH 3 (THURSDAY) · IDEC 204

TH2 Protected Area Management & Natural Resource Governance: Exploring Pathways for Environmental Sustainability & Peacebuilding

ORGANIZED PANEL

PARTICIPANTS

- > Joshua Fisher *Columbia University, USA*
 - > Alec Crawford *International Institute for Sustainable Development, Canada*
 - > Anne Hammill *International Institute for Sustainable Development, Canada*
 - > Greg Yetman *Columbia University, USA*
 - > Amanda Woomer *Habitat for Humanity International, USA*
-

08:30-10:00 · MARCH 3 (THURSDAY) · IDEC LARGE CONFERENCE ROOM

TH3 Promoting Peace through Shared Governance of the Seas

ORGANIZED PANEL

CHAIR Cullen Hendrix *University of Denver, USA*

DISCUSSANT Atsushi Sunami *President, The Sasakawa Peace Foundation, Japan*

- > **Sources of Climate Resilience in Fisheries Governance and Prospects for Peace**
Cullen Hendrix *University of Denver, USA*
 - > **Regional Management, National Policy: How States Negotiate and Implement International Fisheries Regulation**
Elizabeth DeSombre *Wellesley College, USA*
 - > **Fish Crimes in the Global Oceans**
Philippe LeBillon *University of British Columbia, Canada*
-

10:30-12:00 · MARCH 3 (THURSDAY) · IDEC 204

TH4 Climate Change, Natural Disaster, and Impact on the Society

ORGANIZED PANEL

CHAIR Akira Hibiki *Tohoku University, Japan*

- > **Long-term Health Effects of Natural Disasters**
Hidehito Otake *Georgia State University, USA*
Shinsuke Uchida *Nagoya City University, Japan*

- > **How much do households value the avoidance of prolonged outages due to natural disasters?**
Katsuhito Nohara *Hokusei Gakuen University, Japan*
Akira Hibiki *Tohoku University, Japan*
- > **Capacity to Adapt to Temperature Effects on Crop Yields: Evidence from Rice Production in Japan**
Yi-chun Ko *Tohoku University, Japan*
Akira Hibiki *Tohoku University, Japan*
Shinsuke Uchida *Nagoya City University, Japan*

10:30-12:00 · MARCH 3 (THURSDAY) · IDEC LARGE CONFERENCE ROOM

TH5 Nuclear Disarmament and Our Sustainable Future

ROUNDTABLE

Hiroshima Prefectural Government and Hiroshima Organization for Global Peace (HOPe)

PARTICIPANTS

- > Toshiya Hoshino *Osaka University, Japan*
- > Alyn Ware *Parliamentarians for Nuclear Non-Proliferation and Disarmament, New Zealand*
- > Kennette Benedict *Bulletin of the Atomic Scientists, USA*
- > Masaki Inaba *Global Health Program, Africa Japan Forum, Japan*
- > Kunihiro Shimada *Hiroshima Organization for Global Peace (HOPe), Japan*

13:30-15:00 · MARCH 3 (THURSDAY) · IDEC 204

TH6 Towards a Resilient and Sustainable Future with Positive Peace, Collaborations and Partnerships

ROUNDTABLE

PARTICIPANTS

- > Steve Killelea *Institute for Economics & Peace, Australia*
- > Charles Allen *Institute for Economics & Peace, Australia*
- > Dahlia Simangan *Hiroshima University, Japan*

13:30-15:00 · MARCH 3 (THURSDAY) · IDEC LARGE CONFERENCE ROOM

TH7 Well-being and Crisis Management

CHAIR Fumiko Kasuga *Future Earth, Japan*

- > **A Policy Implementation on Permanent Housing Projects in Disaster-affected Areas in Central Sulawesi, Indonesia**
Bimo S. Wibowo *Mae Fah Luang University, Thailand*
- > **Pakistan's Reaction against major floods of its history (1970-2010): A Case Study of July-August 2010 flood**
Syed Ijaz Ahmad Bukhari *Kinnaird College for Women, Pakistan*
- > **Forest Cover and Childhood Infections: Analysis of Geospatial and Health Surveys Data from Nepal**
Binaya Chalise *Hiroshima University, Japan*
Shinji Kaneko *Hiroshima University, Japan*
Subash Thapa *University of Southern Denmark, Denmark*
Meghnath Dhimal *Nepal Health Research Council, Nepal*
- > **Determinants of household decisions on insecticide-treated bed nets in Vietnam**
Chinh Mai and Akira Hibiki *Tohoku University, Japan*

15:30-17:00 · MARCH 3 (THURSDAY) · IDEC 204

TH8 Environmental Law and Policies

CHAIR Yahua Wang *World Development Sustainability, Elsevier*

- > **The Application of International Environmental Law as a Tool to Sustainably Remediate Chemical Weapons on the Ocean Floor**
Grant Dawson *University of Groningen, Netherlands*
 - > **The status and distribution of alien plant species in Miyajima Island based on database information before and after the inclusion in UNESCO's World Heritage List in 1996**
Quynh Chi Phan *Hiroshima University, Japan*
Yukari Kamimoto *Hiroshima University, Japan*
Shinji Uchida *Hiroshima University, Japan*
Miho Nakahara-Tsubota *Natural History Museum and Institute, Japan*
Hiromi Tsubota *Hiroshima University, Japan*
 - > **Attesting Interlinkages between Income Inequality and the Covariates by Variable Selection for Sustainable Regional Development: A Case Study of Palm Oil Industry in Sumatra Island, Indonesia**
Gigih Fitrianto *Gadjah Mada University, Indonesia*
Ryuei Nishii *Nagasaki University, Japan*
Shojiro Tanaka *Hiroshima University of Economics, Japan*
-

15:30-17:00 · MARCH 3 (THURSDAY) · IDEC LARGE CONFERENCE ROOM

TH9 SDGs Partnerships, Capital Flow, and Livelihood Impacts

ROUNDTABLE

CHAIR Alexander Ryota Keeley *Kyushu University, Japan*

CO-CHAIR Shunsuke Managi *Kyushu University, Japan*

- > **SDG partnerships may perpetuate the global North-South divide**
Malgorzata Blicharska *Uppsala University, Sweden*
Claudia Teutschbein *Uppsala University, Sweden*
Richard J. Smithers *Ricardo Energy & Environment Consultancy, UK*
 - > **Impact of Renewable Energy Off-Grid Projects on the Livelihood in Indonesia**
Akinori Kitsuki *Kyushu University, Japan*
Yulia Indrawati Sari *AKATIGA and Prahyangan University, Indonesia*
Fadhli Ilhami *AKATIGA, Indonesia*
Alexander Ryota Keeley *Kyushu University, Japan*
Shunsuke Managi *Kyushu University, Japan*
 - > **Inclusive Wealth Footprint for Cities: Regional clusters for Sustainable Development**
Shuning Chen *Kyushu University, Japan*
-

17:30-19:00 · MARCH 3 (THURSDAY) · IDEC 204

TH10 Policies for Sustainable Development

CHAIR Hein Mallee *Research Institute for Humanity and Nature, Kyoto, Japan*

- > **The Voluntary National Reviews and National Development Plans as policy tools for global goal-setting**
Tarek Katramiz *Keio University, Japan*
Mahesti Okitasari *United Nations University, Japan*
- > **Overhyped or overlooked? How military's publications and NDCs frame climate security regarding agency, certainty, temporality, and its origins**
Anselm Vogler *Institute for Peace Research and Security Policy Hamburg, Germany*

> **Determinants of Top Income Shares in Developing Countries**

Niklas Uliczka *Tohoku University, Japan*

Sebastian Kripfganz *University of Exeter, UK*

> **Exploring the Relationship Between Free Media Sentiment and Financial Market Performance**

Peter Baur *University of Johannesburg, South Africa*

17:30-19:00 · MARCH 3 (THURSDAY) · IDEC LARGE CONFERENCE ROOM

TH11 Sustainable Peace and Education

CHAIR Kazuhiro Yoshida *Hiroshima University, Japan*

> **Mindfulness-based Nonviolence and Engaged Buddhism:**

Thich Nhat Hanh's Contributions to Sustainable Peace

Saori Fukuoka *Hiroshima University, Japan*

> **Buddhism and liberal peace: Post-liberal hybrid holistic peace thesis**

Juichiro Tanabe *Kumamoto University, Japan*

> **Indian National Education Policy (NEP-2020) and Peace Education:**

Addressing Sustainable Development Goals through integrated peacebuilding approaches

Mohammad Ashaq Malik *Gov. Post Graduate College Rajouri, India*

Ravinder Kumar *Cluster University of Jammu, India*

> **Peace, Justice and Security in Ghana: the Need for Peace Education**

Kwadwo Tuffuor *University of Cape Coast, Ghana*

> **Shouldering the Change Together: Lessons for Indian Youth from the Survivors of Hiroshima**

Riya Kartha *Soka University, Japan*

17:30-19:00 · MARCH 3 (THURSDAY) · IDEC 203

TH12 A Relational Explanation of Environmental Peacebuilding

ROUNDTABLE

PARTICIPANTS

> Florian Krampe *Stockholm International Peace Research Institute, Sweden*

> McKenzie Frances Johnson *University of Illinois Urbana-Champaign, USA*

> Cedric de Coning *Norwegian Institute of International Affairs, Norway*

> Dahlia Simangan *Hiroshima University, Japan*

> Dylan O'Driscoll *Stockholm International Peace Research Institute, Sweden*

> Farah Hegazi *Stockholm International Peace Research Institute, Sweden*

> Kyungmee Kim *Stockholm International Peace Research Institute, Sweden*

> Stacy VanDeveer *University of Massachusetts Boston, USA*

09:00-10:30 · MARCH 4 (FRIDAY)

Online Symposium and Awarding

KEYNOTE SPEAKER

> Jeffrey D. Sachs *Columbia University, USA*



Network for
Education and
Research on
Peace and
Sustainability

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