



Core Research Cluster for Disaster Science - Designated National University-  
(Session 1 & 2)

Date: 11:00 – 14:10 Friday, March 10, 2023

Venue: Main Hall (Conference Bldg. 1F), Sendai International Center

Organizer: Core Research Cluster for Disaster Science, IRIDeS, Tohoku University

Session 1: Core Research Cluster for Disaster Science Part I (11:00 – 12:30)

Towards International and Multidisciplinary Collaboration for a Resilient Society

Chair: Assoc. Prof. Liz Maly, IRIDeS, Tohoku University

- 11:00 – 11:05 Welcome address I  
Hideo Ohno, President, Tohoku University
- 11:05 – 11:10 Welcome address II  
Motoko Kotani, Executive Vice President for Research, Tohoku University
- 11:10 – 11:20 Opening remarks  
Prof. Fumihiko Imamura, Director of IRIDeS, Tohoku University
- 11:20 – 11:30 *Collaboration with APRU and Tohoku University*  
Prof. Thomas Schneider, Chief Executive, APRU
- 11:30 – 11:45 *Real-time Disaster Science for National Resilience*  
Prof. Shunichi Koshimura, IRIDeS, Tohoku University  
(Disaster Risk Reduction Research Group)
- 11:45 – 12:00 *Towards the Unified Risk Evaluation for Various Natural Disasters*  
Prof. Motoyuki Kido, IRIDeS, Tohoku University  
(Disaster Science Research Group)
- 12:00 – 12:15 *Role of Humanities and Social Sciences for Community Resilience*  
Prof. Toshiaki Kimura, Faculty of Arts and Letters, Tohoku University  
(Disaster Humanities Research Group)
- 12:15 – 12:30 *Health Protection and Recovery with Well-being from Disaster*  
Prof. Shinichi Egawa, IRIDeS, Tohoku University  
(Disaster Medical Science Research Group)
- 12:30 – 12:40 Break

Session 2: Core Research Cluster for Disaster Science Part II (12:40 – 14:10)  
World-Class Disaster Science Research for Disaster Reduction

Chair: Prof. Kenjiro Terada, IRIDeS, Tohoku University

12:40 – 13:00 *Neurocognitive Demands for Foreign Language Communication during Disasters*

Prof. Andrea Révész, University College London  
(Cross-Appointment)

13:00 – 13:20 *Learning from a Disaster Digital Archive: User experience with the Japan Disasters Archive*

Prof. Andrew D. Gordon, Harvard University  
(Cross-Appointment)

13:20 – 13:40 *Machine Learning for Tsunami Forecasting Directly from GNSS Observations*

Prof. Emeritus Randall J LeVeque, University of Washington  
(Cross-Appointment)

13:40 – 13:50 *Ten years of the APRU Multi-Hazards program*

Prof. John Rundle, UC Davis, APRU

13:50 – 14:00 *Recommendations on the futures of disaster science 1*

Prof. Rajib Shaw, Keio University

14:00 – 14:10 *Recommendations on the futures of disaster science 2*

Prof. Emeritus Fumio Ohuchi, University of Washington/Specially-Appointed Prof., Tohoku University

Core Research Cluster for Disaster Science &  
Inter-University Exchange Project (IUEP) (Session 3)

Date: 09:40 – 11:10, Saturday, March 11, 2023

Organizer: Core Research Cluster for Disaster Science

Venue: Tachibana Conference Hall (conference Bldg. 2F), Sendai International Center

Session 3: Core Research Cluster for Disaster Science Part III (09:40 – 11:10)

Inter-University Exchange Project (IUEP): An international educational partnership  
between Japanese, British, and American universities to create resilient societies

Implementation of D.E.I: Towards Resilient Societies<sup>1</sup>

Chair: Dr. Punam Yadav, Co-director of Centre for Gender and Disaster, UCL IRDR<sup>2</sup>

Dr. Kitamura Miwako, Researcher, IRIDeS, Tohoku University

09:40 – 09:45 Opening remarks

Toshiya Ueki, Executive Vice President for General Affairs, Financial  
Affairs and International Relations, Tohoku University

09:45 – 09:55 Introduction

09:55 – 10:05 *Crossing Disciplinary Boundaries – The Role of GRRIPP*

Ambassador for Gender and Intersectionality  
Prof. Peter Sammonds, UCL IRDR

10:05 – 10:15 *Future Research Agenda for Gender and Disaster*

Prof. Maureen Fordham, Director of the Centre for Gender and Disaster, UCL  
IRDR

10:15 – 10:25 *LGBTQ+ issues During Disaster: Definition of Inclusion*

Dr. Punam Yadav, Co-director of Centre for Gender and Disaster, UCL IRDR  
and Dr. Ana Matsukawa, Researcher, NIED

10:25 – 10:45 *Field Survey Report on Disaster Resilience and the Great East Japan  
Earthquake*

Graduate students at UCL, SOAS<sup>3</sup>, University of Cambridge and University  
of Washington

10:45 – 11:05 *Implementation of Disaster Resilience and D.E.I: Inclusive Disaster  
Prevention (Discussion)*

All speakers

11:05 – 11:10 Closing remarks

Masahiro Yamaguchi, Vice President for Education Reform and Global  
Engagement, Tohoku University

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<sup>1</sup> D.E.I: Diversity Equality Inclusion

<sup>2</sup> UCL IRDR: University College London, Institute for Risk and Disaster Reduction

<sup>3</sup> SOAS: School of Oriental and African Studies (University College London)



## Co-creation Center for Disaster Resilience (Session 4)

Date: 11:20 – 12:50, Saturday, March 11, 2023

Co-organizer: Co-creation Center for Disaster Resilience, IRIDeS, Tohoku University,  
National Research Institute for Earth Science and Disaster Resilience (NIED)

Venue: Main Hall (Conference Bldg. 1F), Sendai International Center

### Convergence of Knowledge in Disaster Science

#### Outline

In April 2022, the Japanese government emphasized in its science and technology development policy to promote the fusion of knowledge in the humanities, social, and natural sciences. This contributes to improving a comprehensive understanding and problem-solving of humans and society by applying “convergence of knowledge” that integrates all “knowledge” including humanity, social, and natural sciences, and indicates the necessity and the future direction of the “convergence of knowledge.” The main theme of this session is “What is the convergence of knowledge?” and “How could we enhance disaster resilience through the convergence of knowledge?”. Therefore, this session with keynotes and reports on collaborative research with National Research Institute for Earth Science and Disaster Resilience (NIED) provides an opportunity to explore and apply the “convergence of knowledge in disaster science.”

Chair: Assoc. Prof. Natsuko Chubachi, IRIDeS, Tohoku University

- 11:20 – 11:25 Opening remarks  
Prof. Shinichi Egawa, IRIDeS, Tohoku University
- 11:25 – 11:45 Keynote 1: *Convergence of Knowledge in Disaster Science: A Personal View*  
Prof. David Alexander, University College London
- 11:45 – 12:05 Keynote 2: *Consilience of Knowledge and Practice for Resilience and Sustainability*  
Dr. Haruo Hayashi, President of NIED
- 12:05 – 12:15 Activity Report 1: *On the Convergence of Knowledge to Enhance the National Resilience*  
Team of Convergence of Knowledge, Cabinet Office of Japan
- 12:15 – 12:30 Activity Report 2: *Shared Information System for Disaster Management (SIP4D) and Dynamic Data Synthesis Beyond the Information Sharing*  
Dr. Yuichiro Usuda, Senior Researcher, NIED
- 12:30 – 12:45 Activity Report 3: *Disaster Digital Twin for National Resilience*  
Prof. Shunichi Koshimura, IRIDeS, Tohoku University
- 12:45 – 12:50 Closing remarks  
Prof. Makoto Okumura, IRIDeS, Tohoku University



# World BOSAI Forum

IDRC 2023 in SENDAI



指定国立大  
災害科学 世界トップレベル研究拠点

## Towards International and Multidisciplinary Collaboration for a Resilient Society

Date: 11:00 – 14:10 Friday, March 10, 2023

Venue: Main Hall (Conference Bldg. 1F), Sendai International Center

### Part I 11 : 00 – 12 : 30

#### **Welcome address**

Hideo Ohno, President, Tohoku University

Motoko Kotani, Executive Vice President for Research, Tohoku University

#### **Opening remarks**

Prof. Fumihiko Imamura, Director of IRIDeS, Tohoku University

#### **Collaboration with APRU and Tohoku University**

Prof. Thomas Schneider, Chief Executive, APRU

### Part II 12 : 40 – 14 : 10

Prof. Andrea Révész, University College London

Prof. Andrew D. Gordon, Harvard University

Prof. Emeritus Randall J LeVeque, University of Washington

Prof. John Rundle, UC Davis, APRU

Prof. Rajib Shaw, Keio University

Prof. Emeritus Fumio Ohuchi, University of Washington/Specially-Appointed

Prof., Tohoku University

### **Contact**

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TOHOKU  
UNIVERSITY



# World BOSAI Forum

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Core Research Cluster for Disaster Science  
Inter-University Exchange Project (IUEP)

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# Implementation of D.E.I: Towards (Diversity, Equality, Inclusion) Resilient Societies

An international educational partnership  
between Japanese, British, and American  
universities to create resilient societies

- Toshiya Ueki (Tohoku University)  
Executive Vice President for General Affairs, Financial Affairs and  
International Relations,
  - Masahiro Yamaguchi (Tohoku University)  
Vice President for Education Reform and Global Engagement
  - Prof. Peter Sammonds, UCL IRDR
  - Prof. Maureen Fordham, Director of the Centre for Gender and Disaster,  
UCL IRDR
  - Dr. Punam Yadav, Co-director of Centre for Gender and Disaster, UCL IRDR
  - Dr. Ana Matsukawa, Researcher, NIED
  - Graduate students at UCL, SOAS, University of Cambridge and University of  
Washington
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09:40–11:10, March 11, 2023  
Tachibana Conference Hall (conference Bldg. 2F), Sendai International Center

#### Contact

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## Co-Creation Center for Disaster Resilience

### Convergence of Knowledge in Disaster Science

11:20~12:50, March 11, 2023  
Main Hall (Conference Bldg. 1F),  
Sendai International Center

#### Keynotes

Prof. David Alexander (UCL)  
Dr. Haruo Hayashi (Presidents, NIED)

#### Activity Reports

Team of Convergence of Knowledge  
: Cabinet Office of Japan

Dr. Yuichiro Usuda  
: Senior Researcher, NIED

Prof. Shunichi Koshimura  
: IRIDeS, Tohoku University

#### Contact

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#### Organizer

International Research Institute of Disaster  
Science (IRIDeS), Tohoku University

#### Co-Organizer

National Research Institute for Earth Science  
and Disaster Resilience (NIED)