



6th GPSS-GLI Symposium

FRAMING TO ACTION

Bringing sustainability thinking into practice

2-3 March 2018

Venue: The University of Tokyo Kashiwa Campus Station Satellite (Future Center)

Organized by:

Graduate Program in Sustainability Science-Global Leadership Initiative (GPSS-GLI)

Program Outline

Keynote lecture

- **Keynote lecture 1: *Our Common Future after Paris Agreement***

Dr. Nobuo Mimura, President, Ibaraki University

- **Keynote lecture 2: *TBA***

Dr. Daniel Lang, Professor for transdisciplinary Sustainability Research, Leuphana University Lüneburg

Topics of Scheduled Sessions

- **Session 1: *Translating Climate Change Knowledge into Programs and Policies***

Coordinators: Associate Prof. Motoharu Onuki & Proj. Associate Prof. Miguel Esteban

Description: The 5th Assessment Report of the Intergovernmental Panel on Climate Change projects that by the year 2100, global mean sea-level will have risen by as much as between 0.28m to 0.98m. This session will discuss how low-lying island communities can adapt, and explore how scientific knowledge can be implemented by local governments. Current widespread views that are expressed in academic literature will be challenged, in the face of real evidence of how small islands in the Philippines are adapting to land subsidence, which can be used as a proxy to study the long-term effects of sea level rise and how communities will adapt. The session will thus expand on the knowledge of how climate change knowledge can be translated into real programs and policies that can ensure the long-term sustainable developments of small islands throughout the planet.

Venue: Rm 108

Timetable: March 2nd

14:15 - 16:15

- **Session 2: Joint activities with MIT and Industry: Framing Path to Solution**

Coordinators: Associate Prof. Kazuo Hiekata & Proj. Associate Prof. Bryan Moser

Description: The present society is facing with critical complex problems. The problems are difficult to be handled. The systems approach, which has been the principal topic of a collaboration scheme among UTokyo, MIT and Industry, will facilitate the framing process of these problems. The session shows how the UTokyo-MIT-Industry joint activities have been organized and how the future of collaboration between sustainability and systems research are visualized.

Venue: Rm 205

Timetable: March 2nd

14:15 - 14:40 Joint Activities with MIT and Industry, Kazuo Hiekata

14:40 - 15:10 System Design and Management, Bryan Moser

15:10 - 15:30 Feedback from Industry, TBD

15:30 - 16:15 Panel Discussion

- **Session 3: Framing Kashiwa-no-ha Smart City**

Coordinators: Prof. Takashi Mino, Associate Prof. Motoharu Onuki & Proj. Researcher Sioen Giles

Description: Kashiwa-no-ha is a “smart city” developed by public, private, and academic stakeholders over the past twenty years. The smart city is on the frontier of urban development and was the ideal testing ground for a new transdisciplinary educational scheme in the sustainability science program GPSS-GLI. The scheme, under the “Global Field Exercise (GFE)”, tasked students to work on diverse complex issues with different frames to develop innovative solutions for today and tomorrow. This session aims to discuss the educational component of the exercise as well as the outcomes from the students, and tries to identify core components of the framing issues at the crossing points of sustainability and urban development.

Venue: Rm 108

Timetable: March 3rd

10:30-10:40 Introduction to Framing Kashiwa-no-ha Smart City (Prof. Takashi Mino)

10:40-10:50 Details of Kashiwa-no-ha smart city and how to frame issues (Dr. Motoharu Onuki)

10:50-11:25 Students’ Presentation on Results of GFE Kashiwa-no-ha

11:25-11:45 Invited Lecture (Ms. Nadine Waheed, Programme Management Officer-Human Settlements, Regional Office for Asia & the Pacific, UN-Habitat)

11:45-11:55 Input from Alumni (Dr. Joanne Khew, Mr. Shunsuke Kishi)

11:55-12:25 Q&A, Discussion

12:25-12:30 Conclusion

- **Session 4: Transformation and Reconstruction of Agri-Cultural Diversity in Southeast Asia**

Coordinators: Proj. Associate Prof. Hiroataka Matsuda & Proj. Associate Prof Makiko Sekiyama

Description: In recent years, food security has been garnering attention due to climate change, rapid population growth concentrating in developing nations, sharp increases in food prices, etc. Past discussions related to food security, emphasized sufficiency of intake or calories. More recently, the Double Burden of Malnutrition, in which a combination of undernutrition and overnutrition exists in the same nation, region, or household, and the Triple Burden of Malnutrition, in which malnutrition, lack of micronutrients, and obesity similarly coexist, have been recognized. The solutions for these issues have become the center of international agriculture and food policy. Additionally, attention has been focused on influences on anthropogenic ecosystems. As stated in discussions of the Planetary Boundary, agricultural production-related genetic resources, nitrogen, phosphorus, etc., are already in the critical region. Furthermore, the necessity of research on the influence of agricultural production or nutrition on the diversity of species is also beginning to be recognized. We discussed the concept, potential research methods and measures of social implementation in the session, “Establishing linkage between Agriculture, Nutrition and Health for Sustainable Society,” in the 5th GPSS-GLI international symposium, last year. Based on that, this session discusses factors for those problems indicated above and ways of co-creation with related stakeholders for solving them.

Venue: Rm 205

Timetable: March 3rd

10:30 - 10:40: Session outline

10:40 - 11:10 Presentation Part 1: Identifying Problems

10:40 - 10:55: Environment, Agriculture, Nutrition Intake and Health 1

10:55 - 11:10: Environment, Agriculture, Nutrition Intake and Health 2

11:10 - 11:40: Presentation Part 2: Case: Research and Social Implementation

11:10 - 11:25: Case of Indonesia

11:25 - 11:40: Case of Vietnam

11:40 - 12:30: General Discussion

- **Session 5: Alumni session - Sustainability Scientists in Action**

Coordinators: Assistant Prof. Shogo Kudo & Proj. Researcher Allasiw Doreen

Description: A decade has passed since the establishment of the Master’s and Doctoral degree program in Sustainability Science. Aren’t you curious to know how the graduates of GPSS-GLI are contributing to the society? This session hopes to serve as venue to gain a better understanding of the performance of GPSS-GLI alumni members, especially in non-academic fields. It also aims to identify common patterns on how our alumni implemented the knowledge and skills they have acquired from GPSS-GLI program, from sustainability framing to concrete actions in the real world.

Venue: Rm 108

Timetable: March 3rd

14:45 - 16:45

- ***Special Session (UNESCO Expert Meeting): Standard Framework for Biosphere Reserve management informed by Sustainability Science***

Coordinator: Proj. Assistant Prof. Toshinori Tanaka

Description: The main objective of this meeting is to formulate a “Standard Framework for Biosphere Reserve (BR) management informed by Sustainability Science” in order to improve BR management through the application of Sustainability Science concepts and approaches, and also to encourage the establishment of new BRs in Asia and Pacific region. To achieve this objective, we invite 10 experts from 7 countries for having their presentations and intensive roundtable discussions.

Venue: Rm 701

Timetable: March 2nd: 13:00 - 17:15; March 3rd: 09:30 - 16:30 (max 10 observers)

Timetable (tentative as of Feb 20th, 2018)

Friday, 2 March	Activity	Venue
09:30	Hall Open	
10:00-11:45	Opening Plenary <ul style="list-style-type: none"> ➤ Welcome and Opening addresses ➤ History and Achievement of GPSS-GLI ➤ Keynote Lecture 1 	Rm 108
11:45-13:00	Lunch break	
13:00-14:00	Plenary 2 <ul style="list-style-type: none"> ➤ Presentation from GPSS-GLI 	Rm 108
14:15-16:15	Parallel Sessions <ul style="list-style-type: none"> ➤ Session 1 & Session 2 ➤ Special Session 	Rm 108/ Rm205 Rm 701
16:15-17:15	Poster Session – core time	FC-2F Lounge
17:30-	Symposium Reception	FC-2F Lounge
Saturday, 3 March		
09:00	Hall Open	
9:30-10:15	Plenary 3 <ul style="list-style-type: none"> ➤ Keynote Lecture 2 	Rm 108
10:30-12:30	Parallel Sessions <ul style="list-style-type: none"> ➤ Session 3 & Session 4 ➤ Special Session (continued) 	Rm 108 / Rm205 Rm 701
12:30-13:30	Lunch break	
13:30-15:30	Alumni Session	Rm 108
15:45-17:00	Closing plenary	Rm 108



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