



JSPS-NRCT Seminar at Research Expo 2016

The Mission of Education and Research for Sustainable Society



Date: **Friday, August 19, 2016**

Time: **13:30-16:30**

Venue: **Bangkok Convention Centre, Central World, Bangkok**

Purpose

The UN Social Development Summit held in New York, USA in September 2015 adopted its final document called as "Transforming our world: the 2030 Agenda for Sustainable Development". The proposed agenda contains 17 goals with 169 targets covering a broad range of sustainable development issues; ending poverty and hunger, improving health and education, making cities more sustainable, combating climate change, and protecting oceans and forest. 3 Japanese speakers in different academic background and expertise discuss what academia should do to this challenge.

Opening Ceremony

13:30-13:35 Secretary-General, NRCT
13:35-13:40 Photo Session

Research Session

Moderator: **Assoc. Prof. Dr. Prompilai BUASUWAN,**
Associate Professor, Faculty of Education, Kasetsart University

13:40-13:45 Introduction by the Moderator

13:45-14:35 Keynote Lecture

"Mission of Education and Research for Sustainable Society"

Prof. Dr. Reiko KURODA, Professor, Research Institute for
Science & Technology, Tokyo University of Science
(Professor Emeritus, The University of Tokyo,
Scientific Advisory Board Member of the UN Secretary General)



14:35-15:25

"Experiential Learning and Japanese Higher Education: Nurturing Reflectivity, Nurturing Global Citizens"

Assoc. Prof. Momo WAGURI, Associate Professor,
International College of Arts and Sciences, Fukuoka Women's University

15:25-16:15

"Sustainable Management of Natural Resource Use: The Coexistence of Conservation, Economic Activity and Regionality"

Assist. Prof. Dr. Yukari FUCHIGAMI, Assistant Professor,
Cross-Boundary Innovation Program, Osaka University

16:15-16:25

Summary and Conclusion by the Moderator

16:25-16:30

Closing Remark

Prof. Kuniaki YAMASHITA, Director, JSPS Bangkok Office

Brief Introduction of Speakers and Moderator

Speaker: Prof. Dr. Reiko KURODA

Professor, Research Institute for Science & Technology, Tokyo University of Science

Prof. Reiko KURODA is one of the scientists representing Japan, and at the same time one of the most distinguished female scientists in the world.

Her research fields are mainly Chemistry and Biology, especially focusing on "Chirality" which means left-right asymmetry. Its phenomenon appears at from micro- to macro-levels in both living and non-living things.

Prof. KURODA has been carrying out research on "Chiomorphology", which she named with a combination of "Chiral" and "Morphology", from the biological and molecular viewpoints.

Prof. KURODA and her research team directly manipulated a certain snail's embryos at the third cleavage (from the four- to the eight-cell stage) so as to intentionally change its original direction of the spiral into the opposite direction and cultivated them to clarify the mechanism determining its dextral (right-handed) or sinistral (left-handed) patterning. As a result, Prof. KURODA demonstrated that the physical embryo manipulation—that is, without gene manipulation— affects the gene expression. This was made public in *Nature* in 2009 and had a great impact throughout the world.

Her achievements including above breakthrough finding have greatly contributed to scientific development, which is highly regarded not only in Japan but also in the world. Consequently, Prof. KURODA has received many honored prizes, including L'Oréal-UNESCO Awards for Women in Science in 2013 that annually honors 5 top-world-class female scientists for their scientific achievements and is internationally one of the most authoritative prizes in the scientific field.

In addition, Prof. KURODA is energetically trying to participate in activities to link "Science" and "Society". Therefore, Prof. KURODA serves as member of important academic committees and is playing an important role such as The Scientific Advisory Board of the United Nations Secretary-General.



Speaker: Assoc. Prof. Momo WAGURI

Associate Professor, International College of Arts and Sciences, Fukuoka Women's University

Before her career in university teaching, Momo WAGURI worked for a community development organization in Sri Lanka called "Sarvodaya Shramadana Movement". Sarvodaya's development philosophy, as evident in its name—"awakening of all (Sarvodaya) through sharing of time, labor and energy (Shramadana)"—is about how one becomes engaged in her own life and the world around her.

Ms. WAGURI has interpreted and applied the Sarvodaya philosophy in the field of students' undergraduate learning experiences, for students to become active agents in their own learning endeavor and beyond, spearheading efforts to expand good practices in experiential learning (service-learning, community-based learning, etc.) in the Japanese higher education arena for the past 14 years.

Having worked for Chuo University, Waseda University, and Osaka University, Ms. WAGURI has been involved with a small, public women's university's reform in Fukuoka, Fukuoka Women's University, since 2009. In her talk, Ms. WAGURI will brief on the trends in Japanese higher education reform and the expected role of experiential learning, and deliberate on how nurturing students' "Reflectivity" through experiential learning could be a key to realizing a sustainable society.

Ms. WAGURI is 1/8 Ainu (Japanese indigenous people), a graduate of Stanford University School of Education, and a passionate triathlete, with a love for birds and spicy foods.



Speaker: Assist. Prof. Dr. Yukari FUCHIGAMI

Assistant Professor, Cross-Boundary Innovation Program, Osaka University

Yukari FUCHIGAMI's academic background is in forestry and area studies. Ms. FUCHIGAMI acquired her Ph.D. in Area Studies at Kyoto University in 2013. "Area Studies", one of the new academic disciplines, analyzes a certain region from a comprehensive point of view.

Ms. FUCHIGAMI has been working since 2013 at Osaka University, an institution that has conducted key research on "Sustainability." Her main research has been on sustainability assessment of the use of natural resources. Her current research focuses on: sustainability assessment of forest management by the Japanese Forest Owner's Association, mangrove eco-tourism in Japan, and natural-resource use by local residents in nations such as Indonesia. At Osaka University, Ms. FUCHIGAMI is also participating in the teaching and guidance tasks of a learning course for graduate students in an interdisciplinary program, an endeavor in which her comprehensive background is invaluable for enhancing student-team efforts to assist with rural revitalization projects in mountainous Japan.

The word "Sustainability" has a deep and multilateral meaning, so Ms. FUCHIGAMI believes it is necessary to evaluate the concept from a plurality of viewpoints. On this occasion, Ms. FUCHIGAMI will brief us on the "Sustainable Management of Natural Resources" using cases from Japan and Indonesia. Ms. FUCHIGAMI would like to provide attendees with an opportunity to think about environmental conservation from a variety of perspectives.



Moderator: Assoc. Prof. Dr. Prompilai BUASUWAN

Associate Professor, Faculty of Education, Kasetsart University

Associate Professor Prompilai BUASUWAN holds a Ph.D. in Educational Leadership and Policy Studies. After she finished her doctoral study Ms. BUASUWAN returned to Thailand and worked at the Ministry of Education as the Project Head on Assistance to Disadvantaged Children. Then in 2005 Ms. BUASUWAN had shifted her career to teaching in the Program of Educational Administration, Faculty of Education at Kasetsart University. From 2007-2016 Ms. BUASUWAN held a position of Assistant to Vice President for International Affairs of Kasetsart University. Now Ms. BUASUWAN is the Head of Department of Education, Faculty of Education. Her main research interests are quality of education, partnership in education, internationalization of education, education for rural transformation and sustainable development, and educational policy analysis and evaluation. Ms. BUASUWAN has done various projects with international organizations, research funding agencies, universities networks and consortiums. Ms. BUASUWAN is the coordinator of "Kasetsart Initiative" international network for partnership and collaboration to promote education for rural transformation with participating members from over 20 countries and also a core member of Thailand Evaluation Network, Comparative and International Education Society of Thailand, Institute of Local Government Leadership Development (ILLD).

