

International Forum aiming at Foundation of A New Graduate School of Global Food Resources

Perspectives of Contribution to Facing Crisis on

Food, Water and Land Resources

via Transdisciplinary Human Resources

13:30 – 17:15 December 9th, 2014 Grand Lecture Hall, Faculty of Agriculture

Admission Free, No Registration Required (Except for Reception)

13:30 – 13:45 Opening Remarks

Dr. Keizo Yamaguchi, President, Hokkaido University

13:45 – 13:55 Special Guest Remarks I

Delegate from MEXT (TBA)

13:55 – 14:15 Special Guest Remarks II

Leading French Scientist of Agriculture selected by Embassy of France in Japan (TBA)

14:15 – 14:45 Introduction of a New Graduate School of Global Food Resources

Dr. Tomomi Marutani, Dean, Research Faculty of Agriculture, Hokkaido University

14:45 – 15:15 Expectation for the New Graduate School I

Agricultural Research Challenges towards Feeding 9 Billion People in 2050

Dr. Masa Iwanaga, President, JIRCAS

15:15 - 15:30 Coffee Break

15:30 – 16:00 Expectation for the New Graduate School II

My Hope to the New Graduate School to Function as an Integral Part of the Global Network of the Food Resources

Mr. Hiroshi Nagano, Chair, Global Science Forum, OECD

16:00 – 16:30 Expectation for the New Graduate School III

Collaborating Globally to Enhance the Educational Experience, Stay Relevant and Help to Ensure an Abundant,

Safe and Nutritious Global Food System

Dr. Sharon P. Shoemaker, Executive Director, CIFAR, UC Davis

16:30 – 17:00 Expectation for the New Graduate School IV

New Multinational Approaches to Interdisciplinary Doctoral Education: Challenges and Opportunities

Dr. Gretchen Kalonji, Former Assistant Director General for Natural Sciences, UNESCO

17:00 - 17:15 Closing Remarks

Dr. Kazunori Yasuda, Executive and Vice President, Hokkaido University

18:00 - 20:00 Reception

Restaurant ELM at Faculty House ENREISOU

Perspectives of Contribution to Facing Crisis on Food, Water and Land Resources



via Transdisciplinary Human Resources

December 9th, 2014

Invited Speakers



Dr. Masa Iwanaga

President

Japan International Research Center for Agricultural Sciences (JIRCAS)

1980 : Cytogeneticist, International Potato Center (CIP), Lima, Peru

1989: Head, Genetics Resources Unit, International Center for Tropical Agriculture (CIAT), Cali, Colombia

1992: Deputy Director General, International Plant Genetic Resources (IPGRI), Rome, Italy

2000 : Director, Japan International Research Center for Agricultural Sciences (JIRCAS), Tsukuba, Japan

2002 : Director General, International Maize and Wheat Improvement Center (CIMMYT), Mexico

2008: Director General, National Institute of Crop Sciences, NARO, Tsukuba, Japan

2011 - present: President, Japan International Research Center for Agricultural Sciences (JIRCAS), Japan



Mr. Hiroshi Nagano

Chair

Global Science Forum, Organization for Economic Co-operation and Development (OECD)

2002 - 2004 : Director-General for International Affairs,

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

2005 - 2007 : Executive Director, Japan Science and Technology Agency (JST)

2007 - 2013: Professor, National Graduate Institute for Policy Studies (GRIPS)

2008 - 2009: Chair, Financial Audit Board, the ITER International Fusion Energy Organization

2011 - present : Chair, Global Science Forum, Organization for Economic Co-operation and Development (OECD)



Dr. Sharon P. Shoemaker

Executive Director

California Institute of Food and Agricultural Research (CIFAR), University of California, Davis

1978 - 1985 : Scientist and Director, Fermentation R&D, Cetus Corporation, Berkeley, CA

1992 - present : Research Administrator, Food Science and Technology Department,

University of California, Davis

1991 – present : Founding Executive Director, California Institute of Food and Agricultural Research (CIFAR), University of California, Davis

1994 – 2004 : UC Davis Site Director, NSF Center for Advanced Processing and Packaging Studies (CAPPS)

2000 – present : Advisor, Chinese Institute of Food Science and Technology 2007 – present : Member, Advisory Committee, DOE Bioenergy Science Center, Oak Ridge, TN (Chair, 2007 – 2012)

2014: Member, Steering Committee, Global Action Platform, Nashville, TN



Dr. Gretchen Kalonii

Former Assistant Director General for Natural Sciences

United Nations Educational, Scientific and Cultural Organization (UNESCO)

1982 - 1990: Assistant and Associate Professor of Materials Science and Engineering, MIT

1990 - 2005 : Kyocera Professor of Materials Science, University of Washington

2005 - 2009: Director of International Strategy Development, University of California Office of the President

2009 - 2010 : Director of Systemwide Research Development, University of California Office of the President

2010 - 2014 : Assistant Director General for Natural Sciences, United Nations Educational,

Scientific and Cultural Organization (UNESCO), Paris



Delegate from Ministry of Education, Culture, Sports, Science and Technology (MEXT)
Leading French Scientist of Agriculture selected by Embassy of France in Japan

Major Participants from Hokkaido University

Dr. Keizo Yamaguchi, President

Dr. Takashi Mikami, Executive and Vice President

Dr. Ichiro Uyeda, Executive and Vice President

Dr. Takahiko Nitta, Executive and Vice President Dr. Kazunori Yasuda, Executive and Vice President

Dr. Kazushige Kawabata, Executive and Vice President

Mr. Kenichi Iyama, Executive

Mr. Naoki Murata, Executive and Director General

Dr. Tomomi Marutani, Dean, Research Faculty of Agriculture

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HOKKAIDO UNIVERSITY



International Forum aiming at Foundation of A New Graduate School of Global Food Resources

PERSPECTIVES OF CONTRIBUTION TO FACING CRISIS ON FOOD, WATER AND LAND RESOURCES

VIA TRANSDISCIPLINARY HUMAN RESOURCES

ABSTRACTS

Agricultural Research Challenges towards Feeding 9 Billion People in 2050

Dr. Masa Iwanaga President, Japan International Research Center for Agricultural Sciences

Currently, there are more than 800 million people who are not getting enough food. World population is likely to surpass 9 billion by 2050, and it will require more than 60 % of food production increase to meet at least the food demand of the population growth. Considering the global tendency toward increased animal-based food consumption, sustainable management of natural resources base, including water and soil fertility, and the adverse effects of climate change, agricultural research has to confront major challenges. The complexity and inter-related nature of global issues surrounding food and nutrition would require comprehensive understanding and integrated approaches to address these challenges.

My Hope to the New Graduate School to Function as an Integral Part of the Global Network of the Food Resources

Mr. Hiroshi Nagano

Chair, OECD Global Science Forum

During my university time, I took one year off and spent time in Europe. As this undertaking brought me a lot in my life afterward, I would like to express the importance of the concept of the new Graduate School based on my experience. On top of that, I would introduce the good model in terms of educating PhD students in Germany and the activity I am dealing with at OECD. It is most critical to the new Graduate School to be well networked worldwide with high-level students, researchers and institutions.

Collaborating Globally to Enhance the Educational Experience, Stay Relevant and Help to Ensure an Abundant, Safe and Nutritious Global Food System

Dr. Sharon P. Shoemaker

Founding Executive Director, CIFAR, College of Agricultural and Environmental Sciences, University of California, Davis

The increasing scarcity of natural resources (food, water, land, energy) requires that we, as global citizens, rethink all aspects of our agricultural and food chain in order to achieve efficiencies and sustainability. Global trends show many commonalities, yet local and regional considerations will differ and prevail. The adaption of technologies and practices that will be appropriate to any particular situation requires broad, multidisciplinary education that includes practical training and exposure to all approaches (conventional, organic, biotechnology). The CIFAR collaborative model will be examined to illustrate its impact on the entire cycle of the agri-food value chain, from farm to table and back to farm, demonstrating the vital issues of accessibility, safety, and quality that are key to achieving an abundant, nutritious and sustainable global food system.

New Multinational Approaches to Interdisciplinary Doctoral Education: Challenges and Opportunities for Collaborations on Global Food Resources

Dr. Gretchen Kalonji

Former Assistant Director General for Natural Sciences, UNESCO

Universities worldwide increasingly recognize the necessity of transforming our doctoral programs to better prepare students for the professional lives of the future. Some elements are clear: we need to equip students to address challenges which are inherently interdisciplinary; to create stronger links with multiple sectors of society, and; to prepare students to collaborate effectively across national boundaries. New multinational models for interdisciplinary doctoral education offer incredible potential, but the challenges are also formidable. In this presentation we describe how the theme of "global food resources" could provide a platform for new, more powerful models of collaboration in interdisciplinary doctoral education.