



HOKKAIDO UNIVERSITY

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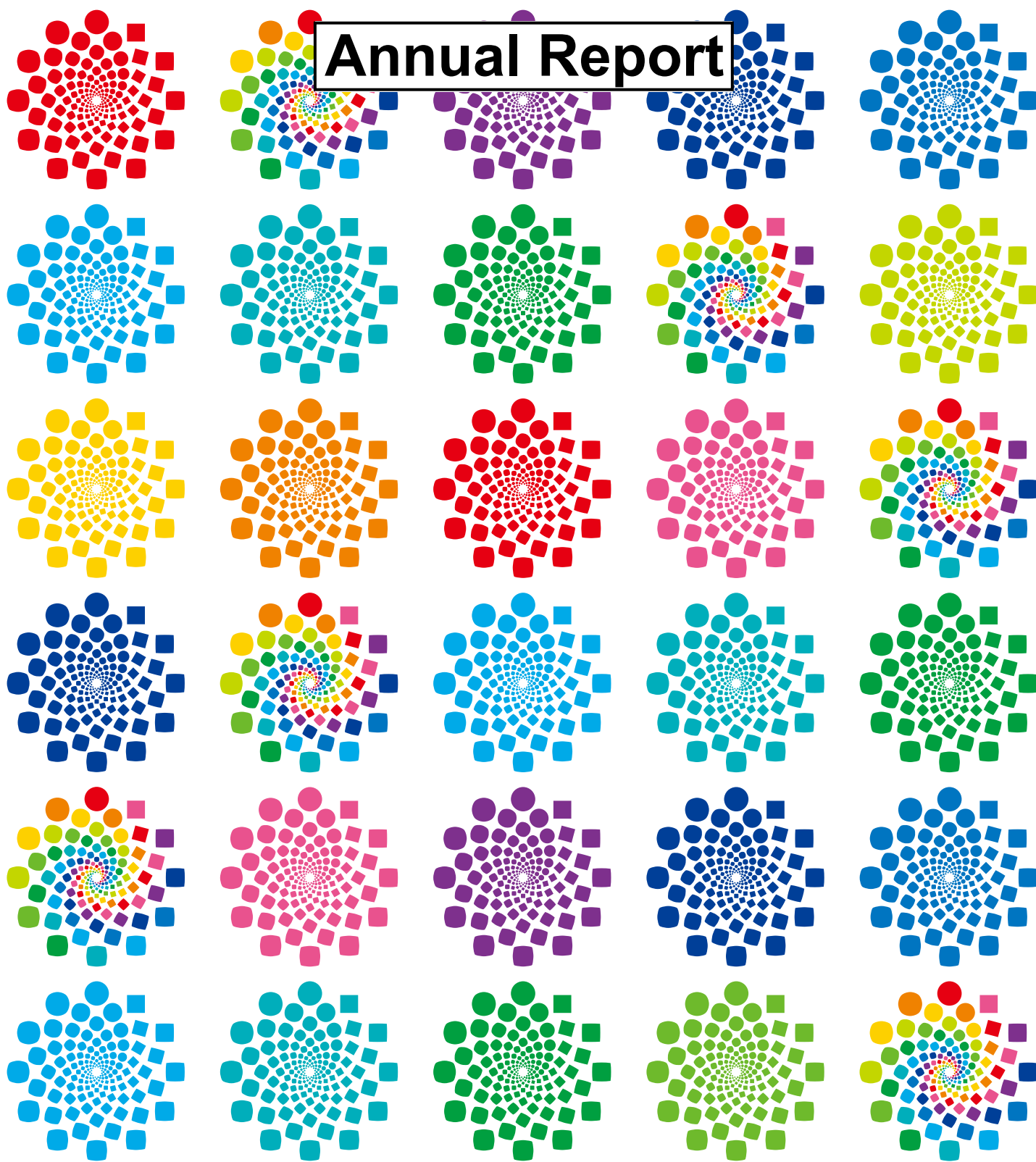




Hokkaido University Sustainability Weeks 2014

Education for Sustainable Development

Annual Report



HOKKAIDO
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About This Document

This is the annual report of the Sustainability Weeks which is a campaign Hokkaido University launched in 2007 to promote research and education for the realization of a sustainable society. This mainly consists of PDF files converted from the website of the Sustainability Weeks 2014.

To keep the records as of when the events were held, some pages include out-of-date information, website links, and contact information which is not valid currently.

Details of an event, “GiFT –Global Issues Forum for Tomorrow-,” are available on Hokkaido University website. Please use the search engine with the key words “GiFT” to find out more.

This is the English annual report of Sustainability Weeks 2014. Its Japanese version and other years’ annual reports of Sustainability Weeks are available on the website as well. We are glad if you refer to them for your better understanding.

Also, please understand that it is difficult to answer inquiries about the event details since the only event planners and host members at that time have detailed information. We hope this document helps you somehow to contribute to achieve a sustainable society.

Secretariat of Sustainability Weeks

Hokkaido University

March, 2017

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1. Overview of Sustainability Weeks 2014

Features of This Year

- Theme : **Education for Sustainable Development**
- Core period : Sat, October 25 – Sun, November 9, 2014
- Number of events : 32
- Event period : Sun, September 28 – Sun, December 21, 2014
- Number of participants : 32,045
- Points worth special mention:
 - Sustainability Weeks (SW) 2014 focused on education for sustainable development to mark the final year of the United Nations Decade of Education for Sustainable Development (DESD), a campaign launched in 2005, when the University established the Hokkaido University Initiative for Sustainable Development (HUISD) and began a range of initiatives to promote sustainable development.
 - SW 2014 attracted more than 30,000 participants due in large part to the organization of exhibitions by Hokkaido University Library, the *Clark Theater* Hokkaido University Theater Project and various seminars for local residents. As a result, the total numbers of events and participants in SW over the last eight years, including this year, topped 250 and 150,000, respectively.
 - The annual international symposium previously hosted by the Faculty of Education was developed into a university-wide event, and the 5th event was held under the title *International ESD Symposium: Strategic ESD in the Next Generation*. It attracted 165 participants chiefly from East Asia.
 - An international symposium entitled *Russian-Japan Education Program Development: Sustainable Development in the Russian Far East & the Arctic Region* was held to mark the launch of the East Russia-Japan Expert Education Program (known as the RJE3 Program), which was selected for the Re-Inventing Japan Project of the Ministry of Education, Culture, Sports, Science and Technology (MEXT).
 - A workshop to develop a program to educate new generations of sanitation professionals was held with participants including those from Zambia, Burkina Faso and Indonesia. It developed e-learning resources for three lectures.

❖ Greeting from the President



The frontier spirit has been part of the very essence of Hokkaido University (HU) ever since its foundation 138 years ago. Even today, the institution tackles a variety of ongoing challenges confronting humanity, such as disaster management, poverty eradication and climate change. HU –a pioneer of the times- has presented the annual Sustainability Weeks program since 2007 to gather the wisdom of experts to help to develop a sustainable society. The event provides various forums for discussion, such as symposiums and workshops, from September to December.

The Sustainability Weeks 2014 program focuss on education because 2014 is the last year of the UN Decade of Education for Sustainable Development campaign. I hope that the event will provide local residents as well as students and researchers from around the world with opportunities to share their research results and experiences so they can learn about the past and forge the future of education together.

Keizo Yamaguchi

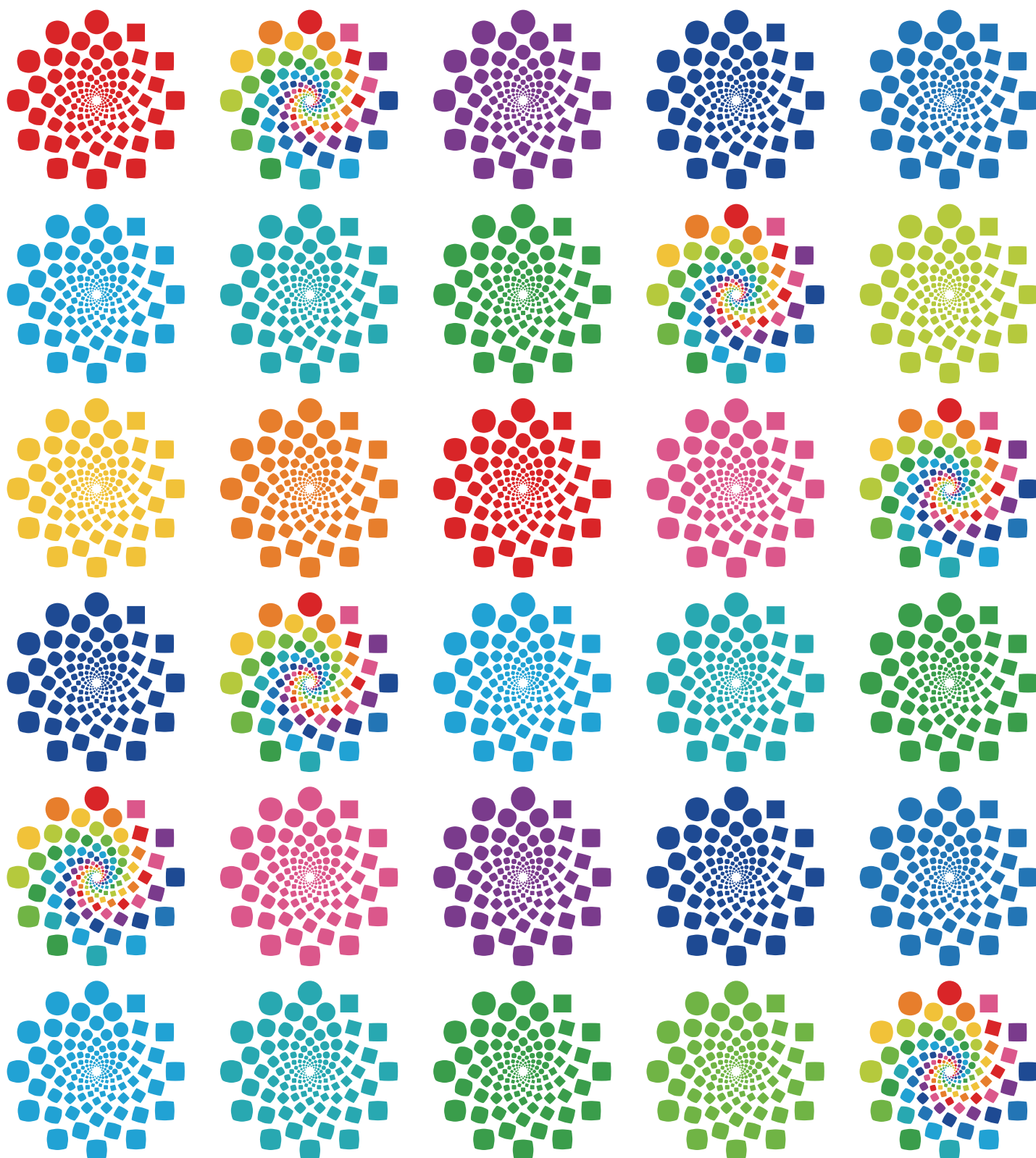
President of Hokkaido University

August, 2014



Hokkaido University Sustainability Weeks 2014

Education for Sustainable Development



HOKKAIDO
UNIVERSITY

Message from the President

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Keizo Yamaguchi
President of Hokkaido University

1 Saturday, Oct. 25 13:00 ~ 18:30

Sustainability Weeks 2014 Special Event 5th ESD International Symposium Strategic ESD in the Next Generation

As humanity has faced increasingly complex and diverse challenges, such as climate change, the rapid devastation of the natural environment, frequent natural disasters, the spread of infectious diseases and the acceleration of the consumption-based economic system, the world has pinned its hopes on education. With this, the UN launched the Decade of Education for Sustainable Development (DESD) campaign.

Education shapes the future of the economy, industry and society. However, disparate objectives in the various faculties in modern universities have contributed to the disorderly dissemination of scholarly knowledge. Consequently, to create a better future, we must integrate knowledge from different academic disciplines to engender future leaders with broader perspectives. Such education is possible only through relationships with people who actually tackle issues in their fields.

Have universities been able to offer solid educational programs in response to the DESD campaign in the regions where they are located? This symposium will look back on the decade to examine the major issues and also feature discussions on the future of university education.

Language:
Japanese / English (simultaneous interpretation)
Registration:
Required via website. (See inside for the detail)
Venue:
Hokkaido University Conference Hall

<Contact>
Graduate School of Education, Hokkaido University
TEL: +81-(0)11-706-3965
E-mail: shomu@edu.hokudai.ac.jp

Secretariat of Sustainability Weeks,
Office of International Affairs, Hokkaido University
TEL: +81-(0)11-706-8031
E-mail: sw1@oia.hokudai.ac.jp



Keynote Speech 1
Reflections on the UN Decade of ESD
Mario T. Tabucanon

Visiting Professor,
United Nations University
Institute for the Advanced Study of
Sustainability (UNU-IAS)



Keynote Speech 2
Future Prospects for ESD
Yong Jing Hahn

Dean, Graduate School of Education,
Korea University



Keynote Speech 3
Reconstruction of ESD
Akito Kawaguchi

Professor,
Graduate School of Education,
Hokkaido University

Program				
13:00- Plenary Session @ Main Conference Hall	Opening Address		By Ichiro Ueda, Executive and Vice-President, Hokkaido University	
	Background of the Symposium		By Toru Onai, Dean, The Graduate School of Education, Hokkaido University	
	Keynote Speech 1: Reflections on the UN Decade of ESD		By Mario T. Tabucanon, Professor, UNU-IAS	
	Keynote Speech 2: Prospects for ESD		By Yong Jing Hahn, Dean, The Graduate School of Education, Korea University	
	Keynote Speech 3: Reconstruction of ESD		By Akito Kawaguchi, Professor, Graduate School of Education, Hokkaido University	
16:00- Parallel Session	1	2	3	4
	Outcomes and Prospects of ESD Campus Asia	Hokkaido UNESCO School Colloquium	ESD Student Forum	ESD by the Social-University Collaboration
18:00- 18:00 @ Main Conference Hall	Wrap-up Discussion			



Hokkaido University Sustainability Weeks 2014



Education for Sustainable Development

Considering the future of education, learning and communication to open the way toward a brighter tomorrow.

2

Wednesday, Oct. 8 14:00~16:00 Venue I

Sanitation Education Program by International Expert Network

The fact that 69% of people in Sub-Saharan Africa and 64% of people in South Asia lack access to sanitary toilets highlights the need for sanitation professionals in these regions. As part of a lesson series, this seminar introduces a format for the development training of such professionals. Feedback from attendees will be used to improve related teaching resources.



This event will be held as a part of JSPS "Asia-Africa Science Platform Program".

b Frontier Research in Applied Sciences Building **c** English **d** Not required **e** Center for Post-modern Socio-metabolic System, HU

e Contact

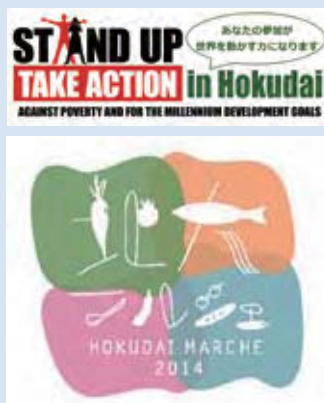
Laboratory on Engineering for Sustainable Sanitation (Contact: N.Funamizu)
TEL: +81-(0)11-706-6270 mail: funamizu@eng.hokudai.ac.jp

3

Wednesday, Oct. 8 18:30~19:30 Venue C

STAND UP TAKE ACTION in Hokudai

This event is part of HU's contribution to the global Stand Up Take Action campaign, which is intended to support the achievement of the United Nations Millennium Development Goals initiative. This year's event will highlight the HOKUDAI Marche. People attending the event will have opportunities to jointly consider food production and agriculture in Hokkaido as well as how to attain a sustainable future.



b Media Court, HU Library **c** Japanese **d** Not required **e** HU Library / UN Depository Library

e Contact

HU Library (Contact: K. Jo)
TEL: +81-(0)11-706-2973 mail: ref@lib.hokudai.ac.jp

4

Monday, Oct. 20~Monday, Nov. 3 Venue C

Open Access and HUSCAP

Hokkaido University Collection of Scholarly and Academic Papers (HUSCAP) is a repository of digital copies of HU scholarly research and policy papers. The resource is made freely available on the Web for worldwide sharing. This exhibition showcases the Open Access campaign – an initiative designed to provide unrestricted access to scholarly literature – and highlight academic papers currently available on the HUSCAP website.



HUSCAP
URL: <http://eprints.lib.hokudai.ac.jp>

b HU Library **c** Japanese **d** Not required **e** HU Library

e Contact

Systems and Cataloging Division, HU Library
TEL: +81-(0)11-706-4741 mail: huscap@lib.hokudai.ac.jp

5

Sunday, Oct. 26 10:30~12:00 Venue A

Support towards the Employment of College Students with Disabilities

In February 2014, the UN Convention on the Rights of Persons with Disabilities took effect in Japan. Against such a background, people with disabilities who have studied at university and/or worked in society to share their experiences. Representatives of business establishments offering employment support to individuals with disabilities and companies employing such people will also be involved in the discussions. (If you need information support or will participate the parallel session in afternoon, please register via contact.)



b HU Conference Hall **c** Japanese **d** Not required **e** Office of Special Needs Education, HU

e Contact

Disability Services Office
TEL: +81-(0)11-706-7473 mail: udl@jimu.hokudai.ac.jp

6

Tuesday, Oct. 28 18:15~19:30 Venue H

Joint Project between HU and JICA: Japan Overseas Cooperation Volunteers Panel Discussion - Japanese Volunteers for Sustainable Society -

JICA Japan Overseas Cooperation Volunteers (JOCVs) will talk about the experience they gained during two years working in the field of education in developing nations. The session looks at how such experience can be used to benefit education and society in Japan on developmental issues. The event is recommended for people interested in JOCV work and those aspiring to be teachers.



b OIA, HU **c** Japanese **d** Not required **e** Japan International Cooperation Agency Hokkaido International Center (Sapporo)

e Contact

Partnership Program Division, JICA Hokkaido (Contact: T. Ishizaki)
TEL: +81-(0)11-866-8421 mail: ishizaki-takahiro@jica.go.jp

Lecture Series on Disaster Prevention in Hokkaido: Risk Management and Disaster Prevention in the Winter

a In winter, Hokkaido faces a constant threat from blizzards and other snow hazards that can cause widespread damage. To support the security of people's livelihoods and economic activities, it is essential for universities, government offices and the media to collaborate on the promotion of disaster prevention and mitigation initiatives designed with local characteristics in mind. This event will be part of a relay symposium and will wrap up with discussions for events to be held in Kitami and Muroran. A related research poster exhibition (free admission) is also scheduled to take place from Oct. 28 to 30 in the same venue.



b HU Conference Hall **c** Japanese **d** Required via website **e** Grad School of Public Policy, HU

g Contact Graduate School of Public Policy (Contact: M. Tanaka)
TEL: +81-(0)11-706-4723 mail: midorit@hops.hokudai.ac.jp

9th International Conference on Applied Ethics: Security, Sustainability, and Human Flourishing

Special Lecture: Ethics of Sustainability

a The significance of sustainability may be self-evident, but it is important to consider why this is the case. This special lecture to be given by New York University's Professor Dale Jamieson will explain the reasons for this self-evidence in the presence of members of the public and students. The more scholarly 9th International Conference on Applied Ethics will feature a keynote lecture by Prof. Jamieson and presentations on the outcomes of recent studies conducted by internationally renowned researchers.



Program	
9th Int'l Conference on Applied Ethics	
Nov. 1st (Sat)	keynote lecture: 16:30~
Nov. 2nd (Sun)	10:00~12:30 (Open: 9:30)
Special Lecture: Ethics of Sustainability	
Nov. 2nd (Sun)	16:30~18:30 (Open: 16:00)
All the lecture will be implemented in English.	

b Humanities and Social Sciences Classroom Building, HU **c** English
d Not required **e** Center for Applied Ethics and Philosophy (CAEP), HU

g Contact CAEP (Contact: M.Nishikawa) TEL: +81-(0)11-706-4088

Project with Sister-universities: Finnish-Japanese Joint Symposium

a The Opening Session of the Joint Symposium will feature presentations and discussions on further improvement and development of mutual collaboration among the four of host universities. Workshops on topics including Service Design, Aging Society and Community Planning will give attendees opportunities to share recent study results and discuss future collaboration in education and research.

b University of Lapland, Finland **c** English **e** University of Lapland; University of Oulu; HU; Sapporo City University **g** Division of International Services, OIA, HU TEL: +81-(0)11-706-8029

GiFT -Global issues Forum for Tomorrow-

a GiFT is an Internet forum based on presentations delivered by five Hokkaido University researchers tackling the development of a sustainable society. The speakers will call on students worldwide to join them in efforts to address important global challenges. Audience responses to these compelling calls are invited via Facebook or Twitter.



b Participate via Facebook and Twitter
c English **e** HU

For more information, visit GiFT portal!
<http://sustain.oia.hokudai.ac.jp/gift/>



g Contact Secretariat of Sustainability Weeks
TEL: +81-(0)11-706-8031 mail: sw1@oia.hokudai.ac.jp

5th Sustainable Campus Contest – A Bridge for a Sustainable Tomorrow -

a This event is a competition on how to maintain the natural environment of the HU campus and improve campus life intended to make the Hokkaido University campus one of the world's most sustainable. The theme will be *A Natural Campus*, and the event will extensively call on HU students as well as those at other universities and members of the public to submit ideas on how to maintain the natural environment of the HU campus and improve campus life. Implementation of the Grand Prix Award-winning idea will be supported by SCSD.



For more detail of the competition:
URL: <http://scsdhome.web.fc2.com/>

b HU Conference Hall **c** Japanese **d** Not required **e** The Student Council for Sustainable Development (SCSD), HU

g Contact SCSD (Contact: N. Oyamada)
TEL: +81-(0)90-1201-7773 mail: scsdmail@gmail.com

International Symposium: Environment, Health and Science Communication

a Development of science and technology brings prosperity to the human race. However, environmental problems are always possible side effects of scientific development. To ensure that society as a whole recognizes and responds to such risks, it is essential to promote better understanding of scientific evidence of environmental degradation. This event will feature discussions on challenges facing effective communication in these fields based on the theme of environment and health.

Tentative Program

Part. 1: Lecture

Speaker:
Assistant Prof.
Naoyuki Mikami, HU
Prof. Jong Han Leem,
Inha University (Korea)
Prof. Sachiko Ito, HU
Prof. Sharon Hanley, HU
Prof. Sumiko Oshima,
Hokusei Gakuen University

Part. 2: Panel Discussion

b HU Conference Hall **c** Japanese/English **d** Required via website
e Center for Environmental and Health Sciences (CEHS), HU

g Contact CEHS (Contact: Araki)
TEL: +81-(0)11-706-4746 mail: araki@cehs.hokudai.ac.jp

International Symposium on Sustainable Campus Creation 2014

a Focusing on the mutual interdependence of Hokkaido University and local communities, presenters will explore the reasons why campuses today must be made sustainable. The event will feature lectures and discussions on ideological and practical topics, including the roles universities should play in communities as a major locus of human resource development and the process of collaboration with communities in the context of sustainable campuses in other countries.

Keynote Speakers	
Prof. Kazuhiro Ueta,	Graduate School of Economics, Kyoto University
Dr. Ariane Konig,	Head of Sustainable Development, University of Luxembourg
Program	
12:30	Reception
13:00~	Opening Ceremony
13:30~	Keynote Session
14:50~	Q&A Session
15:25~	Panel Discussion
17:40	Closing Ceremony

b HU Conference Hall **c** Japanese/English **d** Required via website **e** Office for a Sustainable Campus HU

e Contact **Office for a Sustainable Campus**
TEL: +81-(0)11-706-3660 mail: osc@osc.hokudai.ac.jp

Russian-Japan Education Program Development: The Sustainable Development in Russia Far East & Arctic Region

a Russian universities and HU work closely together on the formulation of educational programs. This event will feature discussions on ideal programs integrating humanities and sciences that in the fields of environmental assessment, cultural diversity, soil and productivity, regional resource development and disaster prevention management.

b Frontier Research in Applied Sciences Building **c** Japanese/English **d** Required via website **e** RJF3 Conothium **f** Secretariat of Sustainability Weeks TEL: +81-(0)11-706-8031 mail: rje3@oia.hokudai.ac.jp

Indigenous Heritage and Tourism: Constructing Cultural Landscape and Indigenous Heritage Issues

a This symposium will highlight the cultural landscape in indigenous communities with discussions referencing examples from around the world and will examine the characteristics of indigenous cultural heritage resources, effective methods for related management, and inheritance by future generations with cultural landscapes as a key concept.

Keynote Lecture: Afternoon on Dec. 20st (Sat)

Lecturer:
Prof. Neil Price, Department of Archaeology and Ancient History, Uppsala University (Sweden)

Report: Dec. 21 (Sun)

Dr. Rick Knecht, Dr. Jeffrey Oliver,
Senior Lecturer, Department of Archaeology, University of Aberdeen (UK)

Associate Prof. Sven D. Haakanson,
Department of Anthropology, University of Washington (US)

Dr. Carl-Gosta Ojala,
Department of Archaeology and Ancient History, Uppsala University

b HU Conference Hall **c** Japanese/English **d** Not required **e** Center for Ainu and Indigenous Studies, HU

e Contact **Center for Ainu & Indigenous Studies (Contact: M. Okada)**
TEL: +81-(0)11-706-2317 mail: m-okada@let.hokudai.ac.jp



Harmony with Nature

Pursuing Balance with earth's natural systems so all living creatures & humans can coexist in harmony.

Sapporo Clock Tower Salon: Protection of endangered species in Hokkaido

a This public forum will feature discussions on the current situation of reduced numbers of endemic plants and animal species and increased numbers of endangered species in Hokkaido as well as related species conservation. It will be held in the Sapporo Clock Tower's second-floor hall, which retains the atmosphere of HU's predecessor – Sapporo Agricultural College.

b 2F Hall, Sapporo Clock Tower **c** Japanese **d** Not required **e** Research Faculty of Agriculture, HU **f** Administration Bureau, Research Faculty of Agriculture TEL: +81-(0)11-706-2420

Open Symposium Agricultural life in urban area: Fun of plants and Charming life

a Agricultural initiatives are today gaining popularity even in urban areas. This event will feature discussions on the potential of agricultural living in cities with examples highlighting the interesting phenomenon of mutual plant growth regulation, agricultural theme parks in Sapporo and other cities outside Japan, and diversified operation of urban farming (promotion of the sixth industry).

b HU Conference Hall **c** Japanese **d** Not required **e** Field Science Center for Northern Biosphere, HU **f** Field Science Center for Northern Biosphere (Contact: H. Araki) TEL: +81-(0)11-706-3645



Quality of Life

Challenging to create a community whose members enjoy physical, mental and social well-being as well as a high quality of life.

CLARK THEATER 2014

a This event is a limited-period movie theater that brings university staff, students and members of the public together to appreciate culturally enlightening films. It provides opportunities for people to share excitement and joy in the university's academic setting and to consider the concept of a pleasant and secure future for all. (entrance fees apply for some programs).

b HU Clark Memorial Student Center **c** Japanese **d** Not required **e** HU Theater Project **f** HU Theater Project mail: info@clarktheater.jp

Legend

0		Date	Venue	ID
Title				
a	Outline	b	Venue	c Language
d	Registration	e	Organizer	
f	Co-host	g	Contact	

Events marked with this icon accept online applications for participation.

Participation is free unless otherwise stated.

The Venue ID corresponds to the map on the reverse of this pamphlet.

The background colors represent event categories.



Education for Sustainable Development



Quality of Life



Harmony with Nature



Expanding a Cooperative Network

20

Tuesday, Nov. 4 9:30~17:00

Venue A

RECCA Hokkaido: Climate Change in Hokkaido and its Adaptation

- a** For five years, RECCA Hokkaido (Research Program on Climate Change Adaptation – an initiative funded by MEXT, Japan) has implemented studies on climate change adaptation in Hokkaido, where snowfall and other factors can cause drastic variations in water availability. [This event will feature discussions on climate change adaptation based on dialogue and exchanges among researchers, adaptation practitioners and members of the public.]
- b** HU Conference Hall **c** Japanese **d** Not required **e** Grad School of Engineering, HU **f** Grad School of Engineering (Contact: T. Yamada) TEL: +81-(0)11-706-6188

21

Saturday, Nov. 8 13:00~15:30

Venue A

The Role of Civil Engineering for a Safe and Sustainable Society: A diverse field for the diverse needs of the developed and developing world

- a** Civil engineering promotes the understanding of the impacts of environmental changes and contributes to realization of a safe, resilient and healthy development. In this program, researchers in the field talk about the role and present-day significance of civil engineering in layperson's terms.
- b** HU Conference Hall **c** Japanese **d** Not required **e** Course of Civil Engineering and Course of Public Policy and Engineering, School of Engineering, HU **f** Grad School of Engineering (Contact: A. Saruwatari) TEL: +81-(0)11-706-6183 mail: saruwata@eng.hokudai.ac.jp

22



Date / Venue : TBA

A Method for New Agricultural Production: France-Japan exchange of ecological agriculture

- a** Climate change and other global environmental transformations have necessitated the evolution of agricultural production processes, making it more important than ever to consider agricultural systems that are environmentally friendly and locally appropriate. This event will feature discussions from various viewpoints, including those of the public, experts and university staff.
- b** TBA **c** Japanese/French **d** Not required **e** Societe Franco-Japonaise/Alliance Francaise de Sapporo; Embassy of France; Institut Francais Japon **f** Alliance Francaise de Sapporo (Contact: C. Hiraoka) TEL: +81-(0)11-261-2771 mail: bureau@afsapporo.jp

23



Sunday, Oct. 19 9:30~12:30

Venue F

Why is Having Meal So Joyful?

- a** A variety of factors influence people's enjoyment of food, including texture, interaction between chewing nerves and muscles, mealtime conversation and aesthetics. At this event, globally renowned researchers will discuss exactly why eating can be so enjoyable. The key to optimizing the experience will also be introduced along with other information.
- b** Conference Hall at School of Dental Medicine, HU **c** Japanese/English **d** Required via website **e** Grad School of Dental Medicine, HU **f** Grad School of Dental Medicine (Contact: T. Arima) TEL: +81-(0)11-706-4275 mail: tar@den.hokudai.ac.jp

24

Monday, Nov. 3 13:00~16:00

Venue E

Public Program by the Faculty of Health Science: Welcome to the world of health science

- a** Three researchers will outline health science research in simple terms. The lectures will feature the health impacts of environmental change with focus on trans-generational effects, knowledge of how light affects wellbeing to support flexible living in today's stressful society, and rehabilitation for Parkinson's disease.
- b** 1F, E-block, Faculty of Health Sciences **c** Japanese **d** Required via following contact by Oct. 24. **e** Faculty of Health Sciences, HU **f** General Affairs Section, Faculty of Health Sciences TEL: +81-(0)11-706-3315 mail: shomu@hs.hokudai.ac.jp



Expanding a Cooperative Network

Further promotion of collaboration transcending national and academic boundaries for fresh perspectives toward new solutions.

25



Sunday, Sept. 28 10:00~17:00

Venue J

50th Anniversary Japan China Exchange Journalist Agreement: Half a century of Japan reports and China Reports

- a** Japanese and Chinese journalists engaged in exchanges as correspondents five decades ago. This event will look back on how Japan and China appeared to journalists and the mutual reporting that took place. The session will focus on relations between the two countries from the viewpoint of media coverage, and efforts will be made to project the future of bilateral relations.
- b** 3F, Multimedia Education Building **c** Japanese **d** Required via website **e** Research faculty of media and communication, HU; The Advanced Institute for Law and Politics, Grad. School of Law, HU **f** Research faculty of media and communication (Contact: K. Watanabe) TEL: +81-(0)11-706-5283 mail: koheiw@imc.hokudai.ac.jp

26

Tuesday, Sept. 30 12:50~18:50

Venue K

CRC International Symposium: Synthesis and applications of functional molecules and materials utilizing biomolecules as a motif

- a** Chemical studies on biomolecules have taken on increased significance in today's world. Based on the key concept of biomolecules, this symposium will host six experts in different fields from around the world for discussions on the future of related research and development from various viewpoints.
- b** Seminar Room, 4F, Creative Research Institution **c** English **d** Required via following contact **e** Catalysis Research Center (CRC), HU **f** CRC (Contact: Y. Koyama) TEL: +81-(0)11-706-9157 mail: yasuhito.koyama@cat.hokudai.ac.jp

27

Thursday, Nov. 6 13:30~17:00

Venue A

Symposium: Center for Regional Economic and Business Networks – Future of “Manufacturing” in Hokkaido

- a** This event will explore the potential for revolutionizing the Hokkaido's manufacturing industry and look at related future opportunities based on collaboration among operators in agriculture (a primary industry as a whole), IT (including big data utilization) and the maker movement (for 3D printing of sensors and other devices)
- b** HU Conference Hall **c** Japanese **d** Not required **e** REBN, Grad School of Economics and Business Administration, HU (Contact: K. Tsukada) TEL: +81-(0)11-706-4066 mail: sacade@econ.hokudai.ac.jp

28

Saturday, Nov. 8 9:30~16:30

Venue M

JICA PARTNER: International Cooperation Seminar in Hokkaido – Get Precious Information of what you can do in the world of international cooperation!

- a** This event will bring together a variety of international cooperation organizations that supply comprehensive information for Partner – a JICA-run website. The session is designed to provide a one-day overview of various careers and jobs in this field.
- b** Kaderu 2.7, Hokkaido Citizens Active Center **c** Japanese **d** Required via: <http://bit.ly/1ppppj5> by Nov. 7. **e** Japan International Cooperation Agency (JICA) **f** Bureau of PARTNER TEL: +81-(0)3-5226-6785 mail: jicahrp@jica.go.jp

29

Tuesday, Nov. 18 15:30~17:30

Venue G

HURNAC Symposium: Research Activities in Africa – Interdeceprally network of Africa researchers –

- a** Despite Africa's remarkable development, countries on the continent still face poverty, political instability, environmental degradation and a variety of other problems. This event will bring together members of the Hokkaido University Research Network with African Countries (HURNAC) to share information on their undertakings from diverse viewpoints and discuss sustainable development in the region.
- b** A101, School of Engineering **c** Japanese **d** Not required **e** HURNAC **f** Grad School of Engineering (Contact: K. Ushijima) TEL: +81-(0)11-706-6273 mail: uken@eng.hokudai.ac.jp

Sustainability Weeks Web Site

<http://sustain.oia.hokudai.ac.jp/sw>

To register for participation



For a list of events



Event Schedule

● Main Target

D A T E		Title	Co-host / Support	Aca- demic	General Public	College Students	High School Students	Other	19	4
Sunday, Sept. 28	25	50th Anniversary Japan China Exchange Journalist Agreement Hosted by: Research Faculty of Media and Communication, HU	Graduate School of Global Studies, Doshisha University	●	●	●				
Tuesday, Sept. 30	26	CRC International Symposium Hosted by: Catalysis Research Center, HU	The Japanese Chemical Society; The Society of Polymer Science; The Society of Synthetic Organic Chemistry; Frontier Chemistry Center of HU	●		●				
Wednesday, Oct. 8	2	Sanitation Education Program by International Expert Network Hosted by: Center for Post-modern Socio-metabolic System, HU	2iE; UNZA; IWRM	●		●				
Wednesday, Oct. 8	3	STAND UP TAKE ACTION in Hokudai Hosted by: HU Library / UN Depository Library	HOKUDAI Marche		●	●	●			
Thursday, Oct. 16 - Sunday, Oct. 19	19	CLARK THEATER 2014 Hosted by: HU Theater Project		●	●	●	●		Oct. 16	
Sunday, Oct. 19	23	Why is Having Meal So Joyful? Hosted by: Grad School of Dental Medicine, HU		●	●	●	●		↓	
Monday, Oct. 20 - Monday, Nov. 3	4	Open Access and HUSCAP Hosted by: HU Library		●	●	●	●		Oct. 19	Oct. 20
Saturday, Oct. 25	1	SW2014 Special Event 5th ESD International Symposium Hosted by: HU		●	●	●	●			
Sunday, Oct. 26	5	Support Towards the Employment of College Students with Disabilities Hosted by: Office of Special Academic Support, HU	Support Center for Students with Disabilities (tentative name); Sapporo Gakuin University	●	●	●	●			
Tuesday, Oct. 28	6	Joint Project between HU&JICA: JOCV Panel Discussion Hosted by: JICA Hokkaido International Center (Sapporo)	OIA, HU		●	●	●			
Wednesday, Oct. 29	17	Sapporo Clock Tower Salon: Protection of Endangered Species in Hokkaido Hosted by: Research Faculty of Agriculture, HU	The Hokkaido Shimibun Press; Support: Sapporo International Communication Plaza Foundation; Sapporo Nougaku Alumni		●	●		●		
Thursday, Oct. 30	7	Lecture Series on Disaster Prevention in Hokkaido Hosted by: Grad School of Public Policy, HU		●	●	●	●			
Friday, Oct. 31	18	Open Symposium Agricultural Life in Urban Area: Hosted by: Field Science Center for Northern Biosphere, HU	The Hokkaido Society for Horticultural Research	●	●	●				
Saturday, Nov. 1 - Sunday, Nov. 2	8	9th International Conference on Applied Ethics Hosted by: Center for Applied Ethics and Philosophy, HU		●		●				
Sunday, Nov. 2	9	Special Lecture: Ethics of Sustainability Hosted by: Center for Applied Ethics and Philosophy, HU		●		●				
Monday, Nov. 3	24	Welcome to the World of Health Science Hosted by: Faculty of Health Sciences, HU			●	●	●			Nov. 3
Tuesday, Nov. 4	20	RECCA Hokkaido: Climate Change in Hokkaido and its Adaptation Hosted by: Grad School of Engineering, HU	Hokkaido Branch of Meteorological Society of Japan	●	●	●	●			
Wednesday, Nov. 5 - Friday, Nov. 7	10	Project with Sister-universities: Finnish-Japanese Joint Symposium Hosted by: Univ. of Lapland; Univ. of Oulu; HU; Sapporo City Univ.		●	●	●	●			
Thursday, Nov. 6	27	Symposium: Center for Regional Economic and Business Networks Hosted by: REBN, Grad School of Economics and Business Administration, HU	The Japan Society for Production Management; Support: Sapporo Coworking Supporters	●	●	●		●		
Saturday, Nov. 8	11	GIFT-Global issues Forum for Tomorrow- Hosted by: HU		●	●	●				
Saturday, Nov. 8	28	JICA PARTNER: International Cooperation Seminar in Hokkaido Hosted by: Japan International Cooperation Agency	OIA, HU	●	●	●				
Saturday, Nov. 8	21	The Role of Civil Engineering for a Safe and Sustainable Society Hosted by: School of Engineering, HU			●	●	●			
Sunday, Nov. 9	12	5th Sustainable Campus Contest Hosted by: The Student Council for Sustainable Development, HU	Office for Sustainable Campus		●	●				
Monday, Nov. 17	13	International Symposium: Environment, Health and Science Communication Hosted by: Center for Environmental and Health Sciences, HU	Grad School of Medicine; Faculty of Health Sciences; Faculty of Education; Institute for the Advancement of higher Education; Sapporo City; Sapporo City Board of Education; Sapporo City Public Health Office	●	●	●				
Tuesday, Nov. 18	29	HURNAC Symposium: Research Activities in Africa Hosted by: Hokkaido University Research Network with African Countries			●	●	●			
Tuesday, Nov. 25	14	International Symposium on Sustainable Campus Creation 2014 Hosted by: Office for a Sustainable Campus (OSC), HU		●	●	●				
Friday, Dec. 19	15	Russian-Japan Education Program Development Hosted by: RJE3 Consortium	Hokkaido; Sapporo City; HU	●	●	●	●			
Saturday, Dec. 20 - Sunday, Dec. 21	16	Indigenous Heritage and Tourism Hosted by: Center for Ainu and Indigenous Studies, HU	Center for Advanced Tourism Studies	●	●	●				
TBA	22	Method for New Agricultural Production Hosted by: Societe Franco-Japonaise/ Alliance Francaise de Sapporo; Embassy of France; Institut Francais Japon	Research Faculty of Agriculture, HU	●	●	●				

Map of Sapporo Campus



A Conference Hall

- | | |
|----------------------|------------|
| 1 Oct. 25 | 5 Oct. 26 |
| 7 Oct. 30 | 18 Oct. 31 |
| 20 Nov. 4 | 27 Nov. 6 |
| 21 Nov. 8 | 12 Nov. 9 |
| 13 Nov. 17 | 14 Nov. 25 |
| 16 Dec. 20 - Dec. 21 | |



B Clark Memorial Student Center

- 19 Oct. 16 - Oct. 19



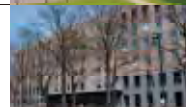
C Library

- 3 Oct. 8 4 Oct. 20 - Nov. 3



D Humanities and Social Sciences Classroom Building

- 8 Nov. 1 - Nov. 2 9 Nov. 2



E Faculty of Health Science

- 24 Nov. 3



F School of Dental Medicine

- 23 Oct. 19



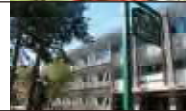
G School of Engineering

- 29 Nov. 18



H Office of International Affairs

- 6 Oct. 28



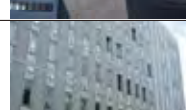
I Frontier Research in Applied Sciences Building

- 2 Oct. 8 15 Dec. 19



J Multimedia Education Building

- 25 Sep. 28



K Creative Research Institution Building

- 26 Sep. 30



L Sapporo Clock Tower

- 17 Oct. 29



M Hokkaido Citizens Actives Center

- 28 Nov. 8



Secretariat of Sustainability Weeks 2014

Office of International Affairs Hokkaido University

Address: North 15, West 8, Kita-ku,
Sapporo, Hokkaido, 060-0815, Japan
TEL: +81-(0)11-706-8031 FAX: +81-(0)11-706-8036
E-mail: sw1@oia.hokudai.ac.jp

For more information, please visit our website:

<http://sustain.oia.hokudai.ac.jp/sw/>
<http://www.facebook.com/SW.Hokkaido.u/>

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Issued on August, 2014

Overview

A Look Back at the Sustainability Weeks 2014 Program



Ichiro Ueda, Executive (International Affairs) and Vice-President, HU/
Chairperson of the Committee for
Sustainability Weeks 2014

The Hokkaido University Sustainability Weeks (SW) program was launched in 2007 during the build-up to the 2008 G8 Hokkaido Toyako Summit, and was held for the eighth time in 2014. The SW 2014 program featured 19 events (32 including pre- and post-program sessions held over several weeks) over a 16-day period from October 25 to November 9.

History of HU's Sustainable Development Initiatives

Hokkaido University (HU) developed an international strategy for sustainable development (SD) in 2005, and has since undertaken a variety of initiatives on the SD theme. In line with the United Nations (UN) Decade of Education for Sustainable Development (DESD) declared in 2005 and other international movements, the university has engaged in activities to promote such development and related education both within and across the boundaries of individual academic disciplines.

As part of efforts to support sustainable development, HU played a central role in hosting the G8 University Summit in the run-up to the G8 Hokkaido Toyako Summit. At the former event, which was attended by representatives from major universities around the world, the Sapporo Sustainability Declaration was adopted. HU has since worked to meet the goals of the declaration.

Theme: Education for Sustainable Development

The year 2014 marked the end of the UN Decade of Education for Sustainable Development (DESD). At this time, numerous educational institutions looked back on

their initiatives to promote ESD and discussed future plans at events around the world, such as the UNESCO World Conference on Education for Sustainable Development (ESD) held in Nagoya from November 10 to 12. HU also selected ESD as the theme of the Sustainability Weeks 2014 program, providing students, local residents and educators as well as representatives of local communities, universities and private organizations with opportunities to discuss ESD from various perspectives.

Multilateral Discussions on the Future of Education

The 16 events held on this theme covered diverse fields and highlighted the roles of education in efforts toward the creation of a sustainable society.

By way of example, sessions titled the International ESD Symposium, Lectures on Resource-oriented Agro-Sanitation and Sanitation Education, the Finnish-Japanese Joint Symposium, and Russian-Japanese Education Program Development acted as platforms for discussion on the roles of collaborative education programs provided in conjunction with universities in China, Korea, Thailand, Africa, Northern Europe and Russia.

The International Symposium on Sustainable Campus Creation 2014 focused on partnerships between universities and local communities, and the 5th Sustainable Campus Contest involved the proposal of student ideas to improve the university campus as an environment for teaching and learning. At a symposium titled Support Towards the Employment of College Students with Disabilities, attendees discussed how educational programs and universities can support people with disabilities in tertiary education and help them pursue careers in society.

The 9th International Conference on Applied Ethics highlighted the roles of education in the context of environmental ethics, and the Symposium on Indigenous Heritage and Tourism involved a look at educational programs that will help to protect and preserve cultural landscapes into the future.

Simultaneous Worldwide Discussions Online

The Secretariat of Sustainability Weeks takes on a new challenge in relation to the event every year. In addition to offering live webcast streaming via Ustream and YouTube, the Internet forum known as GiFT (Global Issues Forum for Tomorrow) in 2014 provided young people around the world with opportunities for discussions on Facebook during the live webcast. As many as 253 people worldwide joined in with the event.

Hokkaido has limited geographical advantage for hosting and attracting people from around the world, but such a forum for online discussion allows teenage students in remote areas and busy working adults to join in with discussions. This helps the Sustainability Weeks program to function as an even more open global platform for

communication. Against such a background, organizers of other SW events are encouraged to also embrace the use of online media.

Toward 2015

The core part of the 9th Sustainability Weeks program will be held from October 24 (Saturday) to November 8 (Sunday), 2015.

Following the end of the UN Decade of Education for Sustainable Development in 2014, Sustainability Development Goals (SDGs) will be adopted at the UN General Assembly in September 2015, and worldwide efforts to achieve these objectives are expected.

HU remains committed to its contribution toward the achievement of the SDGs through its annual organization of the Sustainability Weeks program. The support and contribution of everyone involved are highly appreciated.

2. Websites of the Events and Activities

50th Anniversary of the Japan-China Journalist Exchange Agreement: Japan and China Reports for 50 years



Overview

Date	Sunday, November 28th, 2014: Open: 13:00 Start: 13:30 End: 18:00 @ Hokkaido University / Tuesday (Finished)
Organizer	Research faculty of media and communication
Co-host	The Advanced Institute for Law and Politics, Graduate School of Law
Venue	3F, Multimedia Education Building, Hokkaido University

Language: Japanese

Intended Audience: Researchers, General public, College Students,

Outline Japanese and Chinese journalists engaged in exchanges as correspondents five decades ago, when the Tokyo Olympic Games were held. This event will look back on how Japan and China appeared to journalists and the mutual reporting that took place. The session will focus on relations between the two countries from the viewpoint of media coverage, and efforts will be made to project the future of bilateral relations.

日本報道、中国報道の半世紀
日中記者交換協定50年

9/28 北海道大学情報教育館3階
札幌市北区北17条西9丁目
10:00~17:00 (9:30開場)

入場無料
事前申し込みをお願いします。

1984年10月28日、北京と東京に滞留する日中両方の記者がはじめて両国の勢を語り、それから半世紀の月日が経ちました。本企画は、日中両方の報道の50年を振り返る試みです。1984年、第一報の記者として北京に赴いた大崎幸夫氏(元東京放送)と、国交回復前に北京日報の特派員として日本に寄稿された王慶平氏にご講演をいただきます。メディアという側面から日中関係の半世紀を回顧し、これからの両国関係、さらには東アジアの未来への展望を語りたいと考えます。

プログラム

10:00~10:05 主催者挨拶
10:10~10:30 1984年、日本メディアの中国報道
講演者 北本雄大 北海道大学メディア・コミュニケーション研究助教授
10:30~10:50 1984年、中国メディアの日本報道
西 悠 北海道大学メディア・コミュニケーション研究助教授
10:50~11:10 中国報道50年の変化
高井重典 桜井社大学リベラル・アーツ学助教授 北海道大学名誉教授
11:10~11:25 コメント
加藤千洋 同志社大学グローバル・スタディーズ研究助教授
13:00~14:30 特別講演 大崎幸夫 元東京放送北京特派員
特別講演 王 慶 平 元北京日報東京支局長、元札幌新聞記者
14:45~17:00 ディスカッション
日中記者交換協定50年、日本報道、中国報道の半世紀
パネリスト
加藤千洋 同志社大学教授
高井重典 桜井社大学教授
段 真 中 日本報道出版局長
藤野 彰 北海道大学メディア・コミュニケーション研究助教授
司会: 鈴木 真
北海道大学大学院法学研究科教授 (法学研究科制度
高等法政教育推進センター・センター長)

主催: 北海道大学メディア・コミュニケーション研究助教授大崎幸夫氏研究センター
北海道大学大学院法学研究科高等法政教育推進センター
共催: 同志社大学グローバル・スタディーズ研究科

北海道大学メディア・コミュニケーション研究助教授
大崎幸夫氏研究センター 連絡先
電話: 011-705-5233 Email: kobe@hokudai.ac.jp

A Person in Charge	Prof. Kohei Watanabe, Research faculty of media and communication, Hokkaido University
Registration	Not required
Fees	Free
Contact	Research faculty of media and communication Kohei Watanabe mail: koheiw[at]imc.hokudai.ac.jp

Report

In 1964, a journalist exchange agreement was concluded between Japan and China, allowing the stationing of journalists within each other's country. The year was marked by major events such as the Summer Olympics in Tokyo and China's first nuclear weapons test, which occurred during the games. This symposium was held half a century after the conclusion of the agreement in order to look back on the relationships between the two countries from the viewpoint of media coverage and generate new ideas regarding media relationships and coverage for the future. The event was made possible thanks to the cooperation of the Advanced Institute for Law and Politics of HU's Graduate School of Law and Doshisha University's Graduate School of Global Studies. The symposium was held on September 28 – the day when the first Japanese journalist entered China from Hong Kong 50 years ago.

In the morning session of the symposium, Prof. Kohei Watanabe from HU's Center for East Asian Media Studies (CEAMS) presented results from an analysis of the coverage of China by the Japanese media in 1964, and Associate Professor Ru Xi presented results from an analysis of the coverage of Japan by the Chinese media in the same year. After this, Prof. Kiyoshi Takai from J. F. Oberlin University, who also serves as a Professor Emeritus of HU, spoke about changes in the coverage of China over the past five decades. These presentations were then followed by comments by Prof. Chihiro Kato from Doshisha University's Graduate School of Global Studies on the preceding presentations.

The afternoon session featured special lectures by Yukio Okoshi from Tokyo Broadcasting System Television, Inc. (TBS), who was stationed in Beijing as the first Japanese correspondent in 1964, and Taiping Wang, who was stationed in Tokyo as a Beijing Ribao (Beijing Daily) correspondent before the restoration of diplomatic relations between the two countries in 1972. The event was concluded with discussions presided over by Prof. Ken Suzuki from the Advanced Institute for Law and Politics and featuring Prof. Kato, Prof. Takai, the Duan Press Chief Editor Yuezhong Duan, and Prof. Akira Fujino from HU's Research Faculty of Media and Communication.

Today, the bilateral relations between Japan and China are too strained to hold even a summit meeting between the two countries. However, it was significant to have a forum for level-headed discussions on media coverage in both countries over the past half a century while looking back on historical backgrounds. Although the 40th anniversary of the conclusion of the journalist exchange agreement witnessed commemorative events in both countries, this symposium at HU seems to be the only event to mark the 50th anniversary so far. The event was highlighted in International News Report 2014 on the NHK BS channel from 10 p.m. on October 9.



A presentation by Prof. Watanabe



The event was concluded with discussions

CRC International Symposium: Synthesis and Applications of Functional Molecules and Materials Utilizing Biomolecules as a Motif



Overview

Date	Tuesday, September 30th, 2014 Open: 12:00 Start: 12:50 End: 18:50 (Finished)
Organizer	Catalysis Research Center, Hokkaido University
Co-host	Hokkaido branch of the Japanese Chemical Society, Hokkaido branch of the Society of Polymer Science, Japan, Hokkaido branch of the Society of Synthetic Organic Chemistry, Japan, Frontier Chemistry Center of Hokkaido University
Venue	Seminar room B-C, 4F, Sousei Hall Creative Research Institution
Language: English	
Intended Audience: Researchers, College Students,	
Outline	Chemical studies on biomolecules have taken on increased significance in today's world. Based on the key concept of biomolecules, this symposium will host six experts in different fields from around the world for discussions on the future of related research and development from various viewpoints.

北海道大学触媒化学研究センター国際シンポジウム
CRC International Symposium

生体分子をモチーフとした機能性分子・材料の創製と応用
Synthesis and Applications of Functional Molecules and Materials Utilizing Biomolecules as a Motif

Date: September 30, 2014 12:00~18:50
Venue: Catalysis Research Center, Hokkaido University, Japan
Seminar Room B and C (Sousei Hall) 4th Floor: Registration and Oral Presentations
Seminar Plaza (Sousei Building 2nd Floor): Poster Presentations and Banquet
Workshop: Submission Deadline: July 18th (poster presentation only)
Contact: Yoshiko Kojima (CRC, Hokkaido Univ.), Email: yoshiko@chem.hokkaido.ac.jp
Tel: 011-708-7137

Creation of New Materials, Systems

12:00 Registration Open
12:50 Opening Remark

Production of Biomolecules

12:55~13:35 Prof. Wanpen Wachboonyakiat (Chulalongkorn Univ., Thailand)
Invited lecture
[Preparation of Antibacterial Chitosan-Immobilized Wound Dressings]

13:35~14:15 Prof. Takeshi Serikawa (Tokyo Tech., Japan)
Invited lecture
[Peptide Motifs for Polymer-Surface Engineering]

Biomolecules

14:15~15:15 Prof. Atsushi Fukuda (CRC, Hokkaido Univ., Japan)
Plenary lecture
[Biomass Conversion by Heterogeneous Catalysts]

15:15~15:30 Coffee Break

Total Synthesis

15:30~16:10 Prof. Martin James Lear (Tokyo Tech., Japan)
Invited lecture
[Total Synthesis and Biomimetic Studies of Nine-Membered Eneclines]

16:10~16:50 Prof. Kenji Monde (Hokkaido Univ., Japan)
Invited lecture
[Analysis and Applications of Chiral Biomolecules by Vibrational Circular Dichroism]

16:50~17:50 Prof. Toshikazu Takata (Tokyo Tech., Japan)
Plenary lecture
[Macrocyclic Catalyst for Highly Efficient Hydroamination via Cavity-Threading of Substrate as The Key Process]

17:50~18:50 Poster Session
18:50~ Banquet

主催：北海道大学 触媒化学研究センター
共催：日本化学会北海道支部、高分子学会北海道支部、有機合成化学協会北海道支部、北海道大学フロンティア化学物質研究センター

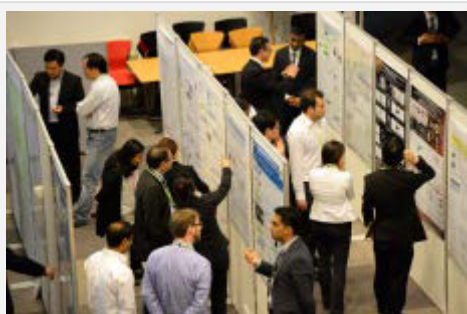
A Person in Charge	Associate Professor Yasuhito Koyama, Catalysis Research Center, Hokkaido University
Registration	Required: Via e-mail (yasuhito.koyama@cat.hokudai.ac.jp)
Fees	Free
Contact	Catalysis Research Center, Hokkaido University Yasuhito Koyama mail: yasuhito.koyama[at]cat.hokudai.ac.jp
URL	http://www.cat.hokudai.ac.jp

Report

Hokkaido University's Catalysis Research Center hosted an international symposium to promote the sustainable development of research fields and facilitate communication among scientists in different disciplines. With biomolecules as a key word, the event that brought together six experts in different fields from around the world was made possible by the cooperation of four co-hosts: the Hokkaido Branch of the Chemical Society of Japan; the Hokkaido Branch of the Society of Polymer Science, Japan; the Hokkaido Branch of the Society of Synthetic Organic Chemistry, Japan; and HU's Frontier Chemistry Center.

The symposium featured six oral presentations (four invited lectures and two plenary lectures) as well as 27 student poster presentations. The invited lectures covered a wide range of fields – the development of functional materials using biopolymers; the elucidation of the molecular recognition mechanism of biomolecules; the creation of useful materials from biomolecules; the total synthesis of bioactive natural products; a new structure determination method for natural trace elements; and the development of a new catalyst system using biomolecules as a motif. The event also involved discussions about the future of research and development on biomolecules.

The event attracted a total of 116 attendees consisting of 28 faculty members and 88 HU students, with this larger than expected number of students greatly contributing to the success of the event. Post-event feedback from attendees indicated that the symposium had been a valuable experience for many students to gain new insights in English, and that the wide-ranging focus of the lectures proved to be stimulating.



A poster presentation



One of the oral presentations

STAND UP TAKE ACTION in Hokudai



Overview

Date Wednesday 8th October, 2014 Open: 18:00 Start: 18:30 End: 19:30
(Finished)

Organizer Hokkaido University Library / UN Depository Library

Co-host HOKUDAI Marche

Venue Hokkaido University Library

Language: Japanese

Intended Audience: General public, College Students,

Outline This event will be held as a part of public information activities in conjunction with the global Stand Up Take Action campaign, which is intended to raise awareness toward the elimination of poverty and help to achieve the United Nations Millennium Development Goals.

STAND UP TAKE ACTION in Hokudai
AGAINST POVERTY AND FOR THE MILLENNIUM DEVELOPMENT GOALS

あなたの参加が
世界を動かす力になります

北海道大学サステナビリティ・ウィーク 2014
Hokkaido University Sustainability Weeks 2014

10/8 Wed. 18:30-19:30

STAND UP TAKE ACTION in Hokudai × 北大マルシェ = ?

国連のミレニアム開発目標達成のために「立ち上がる」世界的なキャンペーンの北大版「STAND UP TAKE ACTION in Hokudai」。今年は、農産物生産者と消費者の交流を通して北海道の「食」や「農」を考えるイベント「北大マルシェ」を取り上げ、イベント関係者にお話を伺います。サステナブルな未来のために、あなたができること、一緒に考えてみませんか？

HOKUDAI MARCHE 2014

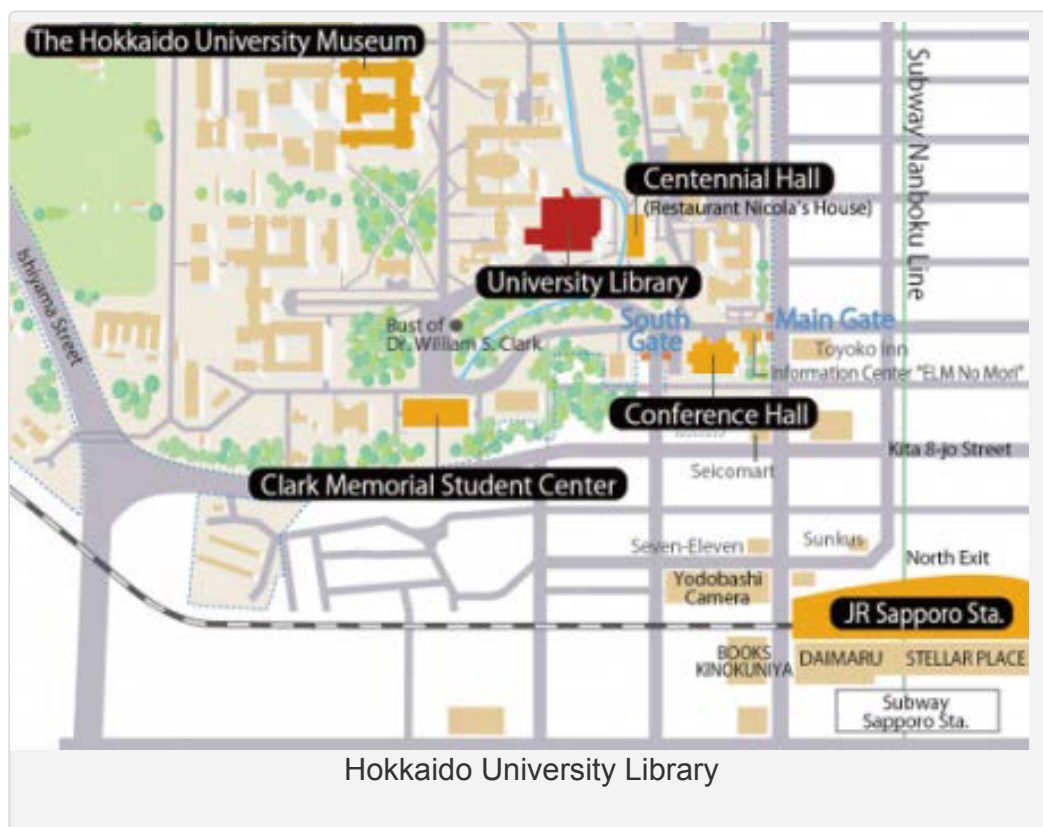
北海道大学附属図書館(本館)メディアコート
(札幌市北区北8条西5丁目)

※おからだの自由な方々のぞき、お車での来館はご遠慮ください。
※会場内が寒い場合があります。暖かい服装でご越しください。

■対象: 北大生、一般の方 (入場無料・事前申込不要)
■お問い合わせ先:
TEL 011-706-2973 E-Mail ref@lib.hokudai.ac.jp
■Webサイト: <http://www.lib.hokudai.ac.jp/standup> (QRコード→)

主催: 北海道大学附属図書館/国連寄託図書館
共催: 北大マルシェ
後援: JICA北海道、北海道、公益財団法人札幌国際プラザ、日本国際連合協会北海道本部

Venue



Hokkaido University Library

A Person in Charge	Hiroaki Toyoda, Hokkaido University Library
Registration	Not required
Fees	Free
Contact	Hokkaido University Library / UN Depository Library Kyoko Jo E-mail: ref@lib.hokudai.ac.jp
URL	http://www.lib.hokudai.ac.jp/standup/

Report

Stand Up Take Action in Hokudai was held at the Hokkaido University Library Media Court from 6:30 p.m. on October 8.

Stand Up Take Action is a global campaign intended to support the United Nations Millennium Development Goals (MDGs). The Hokkaido University Library is the only United Nations Depository Library in Hokkaido, and has not only housed and provided access to publications by the UN and its related institutions, but has also contributed to the public information activities of the UN. The event was held as part of the public information activities.

The event attracted 36 students, faculty members/administrative staff and local residents. It began with a presentation by a library staff member who outlined the background and purposes of the event. The presentation was followed by lectures by representatives of the Hokudai Marche, an HU event intended to consider agriculture and food in Hokkaido through exchanges between farmers and consumers. In his role as the supervisor of the event, Kuniyuki Kobayashi, an Assistant Professor at HU's Research Faculty of Agriculture, outlined the significance and meaning of the Marche and shared some anecdotes about participating farmers. Ryo Wakabayashi, a first-year student on a master's degree program at HU's Graduate School of Agriculture, shared the lessons he learned in his role as the Chairperson of the Hokudai Marche 2014 Executive Committee as well as the satisfaction he felt from bringing together numerous HU and other students.

At the end of the event, all attendees stood up together at the suggestion of Hokkaido University Library Director Takahiko Nitta to highlight their desire to achieve the MDGs.

One objective of the annual Stand Up Take Action event is to encourage people to start with what can be done in their daily lives to help to address global issues. Post-event feedback from attendees indicated that this objective had resonated with them because many respondents highlighted the importance of action and experience.



A presentation by Dr. Kobayashi



STAND UP!

Sanitation Education Program by International Expert Network



Overview

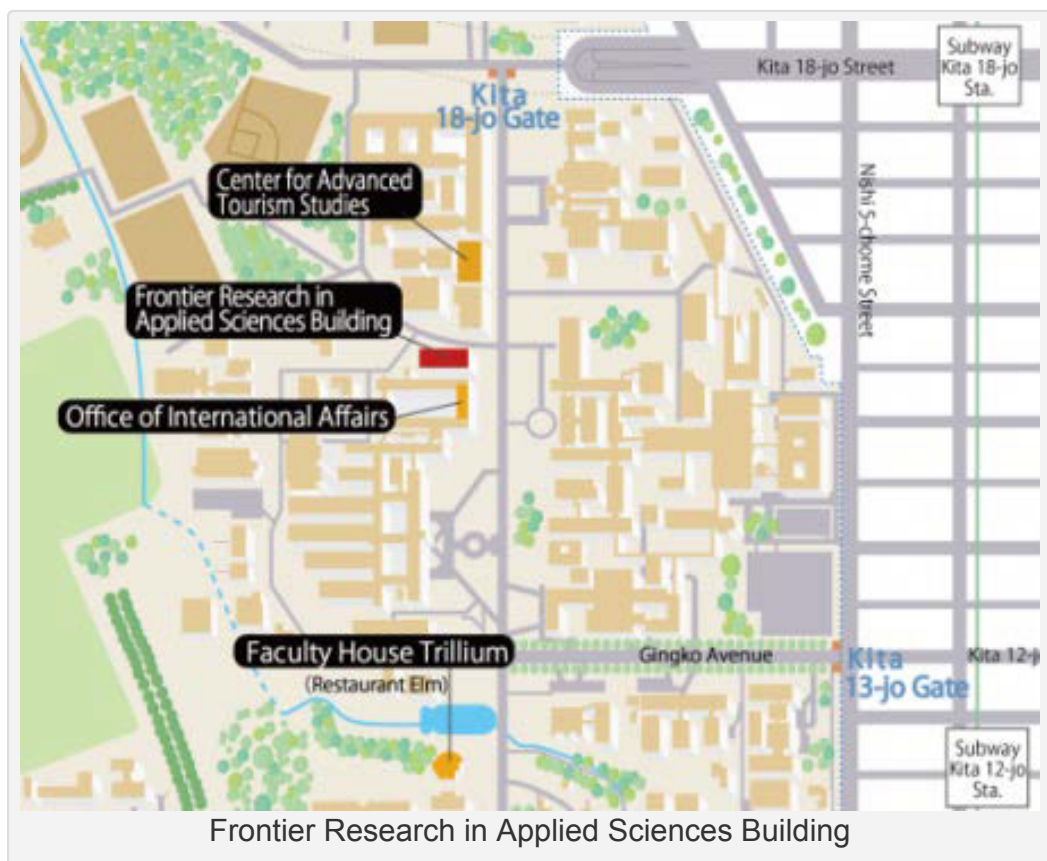
Date	Wednesday 8th October, 2014 Open: 13:00 Start: 14:00 End: 16:00 (Finished)
Organizer	Center for Post-modern Socio-metabolic System
Co-host	International Institute for Water and Environmental Engineering(2iE), University of Zambia(UNZA), Integrated Water Resources Management (IWRM) Centre
Venue	Frontier Research in Applied Sciences Building

Language:English

Intended Audience:Researchers, College Students,

Outline The fact that 69 percent of people in Sub-Saharan Africa and 64 percent of people in South Asia lack access to sanitary toilets highlights the need for sanitation professionals in these regions. As part of a lesson series, this seminar provides introductory lectures for the development of such professionals. Feedback from attendees will be used to improve related teaching resources.

Venue



A Person in Charge	Prof. Naoyuki Funamizu, Graduate School of Engineering, Hokkaido University
Registration	Not required
Fees	Free
Contact	Prof. Naoyuki Funamizu, Graduate School of Engineering E-mail: funamizu[at]eng.hokudai.ac.jp

Report

This event was held as part of an initiative to develop a sanitation education program by leveraging a network of international experts. It featured three lecturers, who highlighted social and cultural aspects of sanitation, and the discussions that followed involved faculty members and students from the University of Zambia, faculty members and students from the International Institute for Water and Environmental Engineering (2iE) in Burkina Faso and researchers from the Indonesian Institute of Sciences. They also exchanged opinions about the curricula and other details of sanitation education programs. HU students who attended the lectures also gave comments on the lectures and expressed their opinions about such education programs.

The event helped to develop e-learning resources featuring the three lectures on the political science, cultural anthropology and business administration aspects of sanitation. It also provided opportunities to listen to the opinions of students from different countries.

Going forward, efforts will be made to improve e-learning resources to complete a sanitation education program.



International experts from Zambia,
Burkina Faso and HU



A lecture by Prof. Funamizu

CLARK THEATER 2014



Overview

Date Thursday, October 16th - Sunday, October 19th, 2014 (Finished)

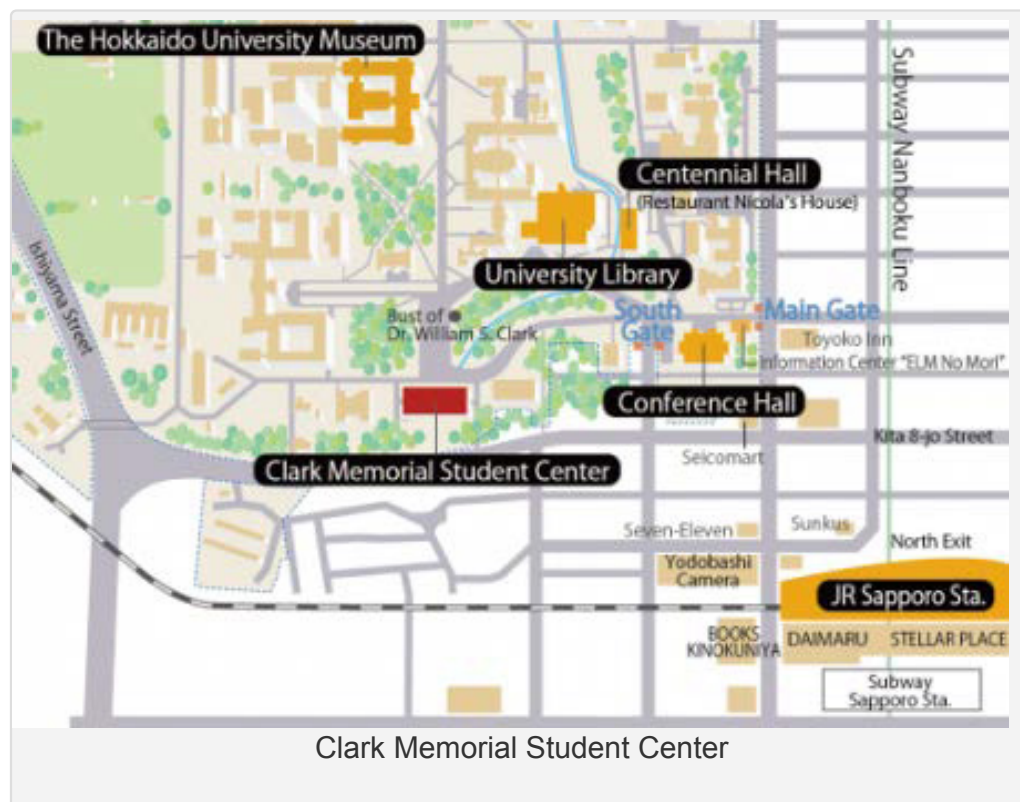
Organizer Hokkaido University Theater Project

Venue Hokkaido University Clark Memorial Student Center

Language: Japanese or English

Intended Audience: Researchers, General public, College Students,

Outline The Clark Theater is a limited-period event that brings university staff, students and members of the public together to appreciate culturally enlightening films. It provides opportunities for people to share excitement and joy in the university's academic setting and to consider the concept of a pleasant and secure future for all. Long and short movies, features and a variety of other films will be shown in line with this year's theme (entrance fees apply for some programs).



A Person in Charge Kawabata, Hokkaido University Theater Project

Registration Not required

Fees Some movies are subject to fees.

Contact Hokkaido University Theater Project
mail: [info\[at\]clarktheater.jp](mailto:info[at]clarktheater.jp)

URL <http://www.clarktheater.jp/>

Report

The limited-period Clark Theater was opened to students and members of the public from October 16 to 19, using the lecture hall and large meeting room in HU's Clark Memorial Student Center. During the event, 11 programs and 20 films covering a wide range of content were screened, including short films previously unreleased in cinemas and black-and-white movies regarded as masterpieces. By screening films in a variety of genres, the event provided an opportunity for visitors to enjoy something commercial cinemas cannot offer. The public discussions featuring the directors of some of the films screened also provided opportunities for the audiences to hear anecdotes from the making of the films and the inspiration behind the productions. The organizer's collaboration with the Hokkaido University Cafe Project and the Hokkaido University Cinema Research Club also created an opportunity for their student staff members to become interested in the film world, not just those who came to watch the films.

In the future, members of the Hokkaido University Theater Project plan to continue their activities toward establishing a permanent movie theater at Hokkaido University to further develop the university's visual culture. Through this work, they hope to highlight problems inherent in modern society from a range of different perspectives and to underline the potential of a permanent movie theater at university in its role as an educational institution.



Audience in second theater



The public discussions featuring the directors



Student staff members

Why is having meal so joyful?



Overview

Date	Sunday, October 19th, 2014 Open: 9:00 Start: 9:30 End: 12:30 (Finished)
Organizer	Graduate School of Dental Medicine
Venue	Graduate School of Dental Medicine
Language: Japanese / English (simultaneous interpretation)	
Intended Audience: Researchers, General public, College Students,	
Outline	A variety of factors influence people's enjoyment of food, including texture, interaction between chewing nerves and muscles, mealtime conversation and aesthetics. At this event, globally renowned researchers will discuss exactly why eating can be so enjoyable. The key to optimizing the experience will also be provided along with other information.
A Person in Charge	Assistant Professor Taro Arima, Graduate School of Dental Medicine, Hokkaido University
Registration	Required: Via website
Fees	Free
Contact	Graduate School of Dental Medicine TARO ARIMA mail: tar[at]den.hokudai.ac.jp

Report

This event was held in the Conference Hall of the School of Dental Medicine on a fine autumn day to highlight people's enjoyment of food, which is an essential activity of daily living, on a scientific level.

First, the event's supervisor Prof. Atsuro Yokoyama, the Dean of the School of Dental Medicine, outlined the event, which was followed by a presentation by HU lecturer Takashi Kanehira on the importance of chewing. The audience attentively listened to his presentation, which was delivered in simple terms and a friendly atmosphere, while laughing at his occasional jokes. The presentation was followed by another by Prof. Peter Svensson from Aarhus University, a partner institution of HU, on taste and its functions. His science-based talk on wine and umami, which was discovered in Japan, was of particular interest.

After a coffee break, Hokkaido Dental Hygienists' Association Executive Haruko Harada gave a lecture on the functions of saliva. She spoke in easy-to-understand terms and, with the audience joining in, also demonstrated a tongue exercise using a doll.

After this, Dr. Mats Trulsson, the head of the Department of Dental Medicine at Karolinska Institutet (the second world best university in medical field), outlined the functions of the periodontal membrane, which acts as a chewing sensor. The lecture provided a valuable experience particularly for experts because there are few opportunities worldwide to listen to lectures such as this.

The event ended with a presentation by HU lecturer Yasuo Ueda on the production of dental crowns using CAD/CAM technology (computer-assisted tooth design and computer-controlled tooth drilling). This was a timely topic because this highly aesthetic treatment began to be covered by insurance this year in Japan.

After all the presentations were delivered, a lively question-and-answer session followed. Of particular interest was a question from an international student at the Faculty of Agriculture on whether or not tastes can be detected from solids too. Since the student was from a faculty outside that of dental medicine and was on the side of food production rather than food consumption (being from the Faculty of Agriculture), Prof. Svensson and Prof. Trulsson later looked back on the event and concurred that they should work more often with researchers like this student.



The audience



A lecture by Dr. Harada

Open Access and HUSCAP



Overview

Date	Monday, October 20th - Monday, November 3rd, 2014 9:00-19:00 (Finished)
Organizer	Hokkaido University Library
Venue	Hokkaido University Library
Language: Japanese	
Intended Audience: Researchers, General public, College Students,	
Outline	The Hokkaido University Collection of Scholarly and Academic Papers (HUSCAP) is a repository for digital copies of HU scholarly and academic papers. The resource is made freely available on the Web for worldwide sharing. This exhibition will highlight the Open Access campaign – an initiative designed to provide unrestricted access to scholarly literature – and highlight academic papers currently available on the HUSCAP website.
A Person in Charge	Kazuko Katagiri, Hokkaido University Library
Registration	Not required
Fees	Free
Contact	Hokkaido University Library E-mail: huscap[at]lib.hokudai.ac.jp

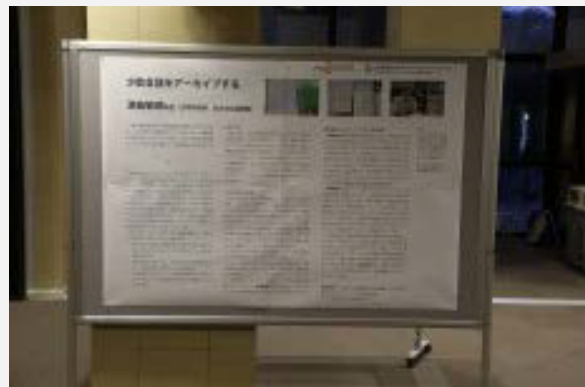
Report

This poster exhibition was held to highlight open access (an initiative by which scholarly literature is shared worldwide toward the achievement of Education for Sustainable Development, or ESD) and the Hokkaido University Collection of Scholarly and Academic Papers (HUSCAP), which is an open access platform. The event, whose theme was Sharing Knowledge to Shape the Future, showcased the status of open access to scholarly and academic papers at HU, and covered researcher interviews as well as the publication of doctoral dissertations on the HUSCAP website. The exhibition highlighted the significance of open access, by which various scholarly papers and results from educational and research activities are made freely available on the HUSCAP website, to Hokkaido University Library visitors from HU and elsewhere.

Library staff plan to continue related initiatives in order to enhance public understanding of open access and HUSCAP.



A poster of the publication of doctoral dissertations



One of the posters of the researcher interviews

5th International ESD symposium: Strategic ESD in the Next Generation



Overview

Date Saturday, October 25th 2014 Open:12:30 Start:13:00 End:18:30 **(Finished)**

Organizer Hokkaido University

Venue Hokkaido University Conference Hall (Plenary session will be webcasted on Ustream)

Language: Japanese / English (simultaneous interpretation)

Intended Audience: Researchers, General public, College Students,

Outline [Special website for the Symposium](#)

[Webcasted on Ustream at:](#)
<http://www.ustream.tv/channel/huesd2014>



PROGRAM

13:00-	Opening Ceremony	
13:10-	Plenary Session	Speaker: Prof. Mario T. Tabucanon <i>United Nations University Institute for the Advanced Study of Sustainability</i> Prof. Yang Jin Hahn <i>Dean, The Graduate School of Education, Korea University</i> Prof. Akito Kawaguchi <i>Graduate School of Education, Hokkaido University</i>
16:00-	Parallel Session	Session 1 Outcomes and Prospects of ESD-Campus Asia Invited Speakers from - Seoul National University - Korea University - Beijing Normal University - Chulalongkorn University Session 2 ESD Student Forum
18:00 - 18:30	Wrap-up Discussion	- Discussion for the future ESD Campus Asia -- (tentative title)

For more detail: <http://sustain.ola.hokudai.ac.jp/sw/jp/2014/esd/>

As humanity has faced increasingly complex and diverse challenges, such as climate change, the rapid devastation of the natural environment, frequent natural disasters, the spread of infectious diseases and the acceleration of the consumption-based economic system, the world has pinned its hopes on education. With this, the UN launched the Decade of Education for Sustainable Development (DESD) campaign.

Education shapes the future of the economy, industry and society. However, disparate objectives in the various faculties in modern universities have contributed to the disorderly dissemination of scholarly knowledge. Consequently, to create a better future, we must integrate knowledge from different academic disciplines to engender future leaders with broader perspectives. Such education is possible only through relationships with people who actually tackle issues in their fields.

Have universities been able to offer solid educational programs in response to the DESD campaign in the regions where they are located? This symposium will look back on the decade to examine the major issues and also feature discussions on the future of university education.

Speaker



Keynote Speech 1

“Review of the Decade of ESD”

Mario T. Tabucanon

Visiting Professor, United Nations University
Institute for the Advanced Study of
Sustainability



Keynote Speech 2

“Future Prospects for ESD”

Yong Jin Hahn

Dean, Graduate School of Education, Korea
University



Keynote Speech 3

“Reconstruction of ESD”

Akito Kawaguchi

Professor, Graduate School of Education,
Hokkaido University

Program

13:00-

Venue: HU
Conference
Hall

Opening
Address

By Ichiro Ueda,

Vice-president / Executive, Hokkaido
University

Background
of the
Symposium

By Toru Onai,

Dean, Grad School of Education,
Hokkaido University

Keynote
Speech 1

By Mario T. Tabucanon,

Visiting Professor, United Nation
University Institute for the Advanced
Study of Sustainability

Keynote
Speech 2

By Yong Jing Hahn,

Dean, Grad School of Education, Korea
University

Keynote
Speech 3

By Akito Kawaguchi,

Professor, Grad School of Education,
Hokkaido University

※Plenary session will be webcasted on Ustream at
<http://www.ustream.tv/channel/huesd2014>.

16:00-

Parallel Session

1:

**Outcomes and Prospects of
ESD Campus Asia**

2:

**Hokkaido UNESCO
School Colloquium**

	3: ESD Student Forum	4: ESD by the Social- University Collaboration
18:00-18:30	Wrap-up Discussion	

Venue



A Person in Charge	Masao Mizuno, PhD, Professor, Faculty of Education, Hokkaido University
Registration	Required: Via application form
Fees	Free
Contact	Secretariat for Hokkaido University Sustainability Weeks E-mail: sw1[at]oia.hokudai.ac.jp

Report

The Sustainability Weeks 2014 program was held under the banner of Education for Sustainable Development (ESD) to mark the final year of the United Nations Decade of Education for Sustainable Development (DESD). Against this backdrop, the 5th International ESD Symposium: Strategic ESD in the Next Generation was held as a special event. Its Plenary Session was webcast live worldwide and attracted numerous attendees – 165 people (49 from inside HU, 48 from outside HU and 68 online) – despite its many specialized topics.

This year's International ESD Symposium, which has been organized by HU's Faculty of Education over the past four years, was the largest to date. Its objectives were to summarize the decade of ESD promotion in Hokkaido and Asia, and to share visions of education for future generations. To achieve these, the symposium provided a forum for comprehensive and multi-faceted information sharing and discussions on next-generation ESD in Hokkaido and Asia, featuring academic staff from HU's partner institutions in China, Korea and Thailand, teachers from UNESCO Associated Schools in Hokkaido and related researchers, a representative of an organization affiliated to the Ministry of the Environment, and students organizing a Parallel Session.

The symposium was successfully implemented both in terms of scale and content as exemplified by the participation as a keynote speaker of Visiting Professor Mario T. Tabucanon of the United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS). Professor Tabucanon is an ESD researcher playing a leading role in UNU-IAS, which was established in response to the implementation of the DESD, and is the world's leading expert on ESD, with cutting-edge knowledge on global ESD.

The event began with an opening address by HU Executive and Vice President Ichiro Uyeda, followed by the explanation of the symposium background by HU Faculty of Education Dean Toru Onai. The Plenary Session featured keynote speeches entitled Reflections on the United Nation Decade of ESD by Professor Tabucanon, Future Prospects for ESD by Faculty of Education Dean Yong Jin Hahn of Korea University, and Reconstruction of ESD by Professor Akito Kawaguchi of HU's Faculty of Education.

The Parallel Session on the Outcomes and Prospects of ESD Campus Asia featured presentations on the ESD Campus Asia Project (an international collaborative education program that HU has implemented over the past four years in conjunction with universities in China, Korea and Thailand) by the representatives of member institutions. Future prospects were also discussed.

The Parallel Session on the Hokkaido UNESCO School Colloquium featured presentations on the activities of UNESCO Associated Schools in Hokkaido, which have played a central role in the practice of ESD in this region. Post-DESD prospects were also discussed.

The Parallel Session on the ESD Student Forum featured presentations and discussions by students who had been involved in ESD initiatives. The lively discussions also covered questions from audience members.

The Parallel Session on ESD based on Society-University Collaboration featured two presentations and a panel discussion on measures necessary for ESD promotion by society as a whole, including universities. These include the establishment of a Regional Centre of Expertise on ESD (RCE).

After the parallel sessions, the attendees returned to the auditorium for the Wrap-up Session, where the representative of each session took the stage to share the discussions that took place.

Post-event feedback from attendees indicated a high level of satisfaction, with a number of comments stating that the symposium had provided an opportunity to learn about ESD from various angles and to recognize the importance of global perspectives, and that the movements toward the establishment of an RCE in Hokkaido were interesting. With many people attending throughout the program period, the organizer and related parties were satisfied that the event had helped to enhance public awareness of the issues covered. The event provided a valuable opportunity to bring together those engaged in the development of ESD in their respective capacities to discuss future prospects. (The Sustainability Weeks Secretariat in the Office of International Affairs is responsible for the content of this document.)



A question-and-answer session after the plenary session



The wrap-up session



Speakers and attendees

Support towards the Employment of College Students with Disabilities



Overview

Date Sunday, October 26th, 2014 Open: 10:00 Start: 10:30 End: 15:00 (Finished)

Organizer Disability Services Office

Venue Conference Hall

Language: Japanese

Intended Audience: Researchers, General public, College Students,

Outline The UN Convention on the Rights of Persons with Disabilities took effect in Japan in February 2014. Against such a background, people with disabilities who have studied at university and/or worked in society will share their experiences at this event. Representatives of business establishments offering employment support to individuals with disabilities and companies employing such people will also be involved in the discussions. The session will provide opportunities for joint consideration of ways to create a society in which all people can study or work with aspirations for the future.

[Flyer download \(PDF\)](#)

北海道大学特別修学支援室主催シンポジウム企画

障害をもつ大学生の 就労をめざして

2014年10月26日(日)
北海道大学 学術交流会館

第1部 シンポジウム | 10:30 - 12:00 (開場 10:00)
障害をもつ社会人シンポジスト3名(肢体不自由、聴覚障害、発達障害)からは、大学生活や就労の経験をご講演いただきます。就労支援事業所の方、障害者雇用を行っている企業の方からは、障害者の就労を応援する側としてどのようなことを実践されてきたのかをご講演いただきます。
*シンポジウムの詳細はこちらへ <http://sustain.ochaikoudai.ac.jp/sw/p/2014/ud/>

第2部 分科会 (※要予約) | 13:00 - 15:00
4つの分科会があります。障害をもつ大学生を中心とした3つの分科会(肢体不自由、聴覚障害、発達障害)では、学生と障害をもつ社会人が修学や就労の経験に関する情報・意見交換を行います。教職員を中心とした分科会では、大学教職員、就労支援関係者、障害者雇用を積極的に行っている企業関係者で障害学生支援や社会資源に関する情報・意見交換を行います。

*シンポジウムおよび聴覚障害分科会には、要約筆記と手話通訳による情報保障を行います。他の分科会も、お申込み記載内容に於いて情報保障をご準備いたします。

北海道大学
サステナビリティ
ウィーク2014
Hokkaido University
Sustainability Weeks 2014

主催 北海道大学特別修学支援室
後援 札幌学院大学

概要

わが国も、2014年2月19日をもって障害者権利条約への批准が叶いました。教育の場において、働く場において、障害者も健常者とともに活動する環境の提供が求められるようになりました。そこで、このような法の整備がされていない時期から、障害者があたりまえに大学で学び、社会で働いていく道を拓いてきた先輩からその体験を聞く機会を設けました。さらに、就労支援に関わる職員の立場から、そして障害者雇用を積極的に受け入れている事業主の立場から、その実態を伝えていただきます。今回のシンポジウムが、参加者ひとりひとりにとって、学び働くことへの希望を紡ぎだす場となることを期待しています。

企画実施責任者 松田 康子
北海道大学教育学研究科 准教授
特別障害支援室相談員（兼任）

参加申し込み方法

第1部 シンポジウム | 申し込みは不要です。情報保障が必要な場合は、下記問い合わせ先までご相談ください。

第2部 分科会 | 申し込みが必要です。

氏名・所属・連絡先（電話番号またはメールアドレス）・参加希望分科会（肢体不自由、聴覚障害、発達障害、教職員）・必要な情報保障を明記した上で、下記の分科会申し込み専用メールアドレスまでお申し込みください。
分科会申し込み締め切りは、2014年10月6日（月）です。

*会場の収容人数の関係で、申し込み締め切り日前に締め切る場合もあります。

*申し込み時の個人情報は、本企画の運営及び進行を行う目的のみに使用させていただきます。

本企画問い合わせ先

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電話/FAX 011-706-7473
Email
企画全般: udl@jimu.hokudai.ac.jp
(申付先は「ユ・ディ・エム」)
分科会申し込み専用:
shuro1026@jimu.hokudai.ac.jp
(申付先は「ユ・ディ・エム・フォー・アール・オー・シロ・ヒロ・エム」)



会場：北海道大学学術交流会館

A Person in Charge	Associate Professor Yasuko Matsudar, Faculty of Education, Hokkaido University
Registration	Not required
Fees	Free
Contact	Academic Support Office for Students with Special Needs, Hokkaido University mail: udl[at]jimu.hokudai.ac.jp

Report

HU's Disability Services Office held a symposium entitled Support towards the Employment of College Students with Disabilities, with the participation of five symposiasts.

The symposiasts, each with a physical disability, hearing disability or autism, shared their experiences of learning at university and working in society. One symposiast from the Employment Support Center for People with Disabilities outlined social resources in the community, whereas another symposiast from a private corporation actively hiring people with disabilities focused on a corporate support system for such people. The event attracted approximately 160 people. A post-event questionnaire (with a response rate of 60 percent) indicated that the attendees consisted of students (30%), educators (21.7%), others (e.g., welfare professionals; 21.7%) and locals (14.1%). Feedback from them indicated that the event had been informative because the presentations were given by people with disabilities. Respondents also stated a hope that the event would continue in the future, and an expectation that the next event would provide an opportunity to gain an in-depth understanding of other disabilities.

The Disability Services Office is tasked with providing students with disabilities with learning opportunities based on Reasonable Accommodation. Since the Act on the Elimination of Disability Discrimination will come into force in 2016, it was significant to share discussions on the theme of work for all at this event.



One of the lectures

Joint Project between Hokkaido University and JICA: Japan Overseas Cooperation Volunteers Panel Discussion ~Japanese Volunteers for Sustainable Society~



Overview

Date Tuesday, October 28th, 2014 Open: 18:00 Start: 18:15 End: 19:30
(Finished)

Organizer Japan International Cooperation Agency Hokkaido International Center(Sapporo)

Co-host The Office of International Affairs in Hokkaido University

Venue The Office of International Affairs in Hokkaido University

Language:Japanese

Intended Audience:General public, College Students,

Outline



At this event, JICA Japan Overseas Cooperation Volunteers (JOCVs) will talk about the experience they gained during two years working in the field of education in developing nations. The session will provide opportunities for joint consideration of how such experience can be used to benefit education and society in Japan from the viewpoint of education on developmental issues. The event is highly recommended for people interested in JOCV work and those aspiring to be teachers.

A Person in Charge	Hiroshi Enomoto
Registration	Not required
Fees	Free
Contact	JICA Hokkaido(Sapporo) Partnership Program Division Ishizaki Takahiro Email: Ishizaki-Takahiro[at]jica.go.jp

Report

This event consisted of two parts: a presentation by an HU alumnae on her experience as a JICA Japan Overseas Cooperation Volunteer (JOCV), and a panel discussion by educators on Education for Sustainable Development (ESD).

The presentation was given by Erika Atarashi, who taught science and mathematics at a secondary school in the Republic of Malawi as a JOCV.

Only eight percent of Malawi's population has access to a water supply system and nine percent to electricity, while the average life expectancy in the country is 47 years. However, Ms. Atarashi said that what she had seen there were not the stereotypical images of Africa – poverty, misery and suffering; it was smiles, energy and potential. In addition to teaching classes, she worked to provide opportunities for students and younger children to develop their potential and for her colleagues to harness their strengths by establishing a science club, participating in the country's science competition and providing support for her colleagues' classes and training. After gaining self confidence in class, some of her students went on to start a wind generation project in their community after graduation.

In the panel discussion that followed, Ms. Atarashi was joined by Kei Watanabe, a teacher at Seibu Junior High School in Kitahiroshima City. They discussed the future of education and how overseas experience can be applied to education. For future education, they both highlighted the importance of taking charge of one's life instead of sitting passively on the sidelines and the need to develop the ability to become involved with the people around us. As a specific way to achieve these, they proposed a system of education that will encourage children to turn their eyes to their communities and think and act together with adults to tackle local issues.

Post-event feedback from attendees indicated that the event had provided an opportunity to consider the future of education. One respondent stated that having lived only in Japan, he had assumed what was obvious to him in Japan would apply to other countries, but that the event had helped him to broaden his perspectives. Another person replied that in contrary to today's affluent Japan, things are inconvenient in developing countries, but that

people in such countries learn to understand how to live their lives. Another respondent said that the event had made him consider what kind of education would be necessary to bring out the strengths of students.

The event was held lecture-style, but the organizer hopes to make the next event a forum where speakers can freely exchange opinions with attendees.



The lecture that was actually done in the Republic of Malawi



A lecture by Ms. Atarashi

Sapporo Clock Tower Salon: Let's ask a question of experts in department of Agriculture – Protection of endangered species in Hokkaido



Overview

Date	Wednesday, October 29th, 2014 Open: 17:30 Start: 18:00 End: 20:00 (Finished)
Organizer	Research Faculty of Agriculture, Hokkaido University
Co-host	The Hokkaido Shimbun Press
Partners	Sapporo International Communication Plaza Foundation, Sapporo Nougaku Shinkoukai
Venue	Sapporo Clock Tower
Language: Japanese	
Intended Audience: General public, College Students,	
Outline	The Sapporo Clock Tower Salon event is a forum for the public promotion of research activities conducted by Hokkaido University's Faculty of Agriculture and for the encouragement of discussions on related matters. This event will feature the current situation of reduced numbers of endemic plants and animal species and increased numbers of endangered species in Hokkaido as well as related species conservation. It will be held in the Sapporo Clock Tower's second-floor hall, which retains the atmosphere of HU's predecessor – Sapporo Agricultural College.
A Person in Charge	Prof. Masashi Takahashi, Research Faculty of Agriculture, Hokkaido University
Registration	Not required
Fees	Free
Contact	Research Faculty of Agriculture, Hokkaido University
URL	http://www.agr.hokudai.ac.jp/

Lecture Series on Disaster Prevention in Hokkaido: Risk Management and Disaster Prevention in the Winter



Overview

Date Thursday, October 30th, 2014 Open: 13:00 Start: 13:30 End: 16:30
(Finished)

Organizer Graduate School of Public Policy

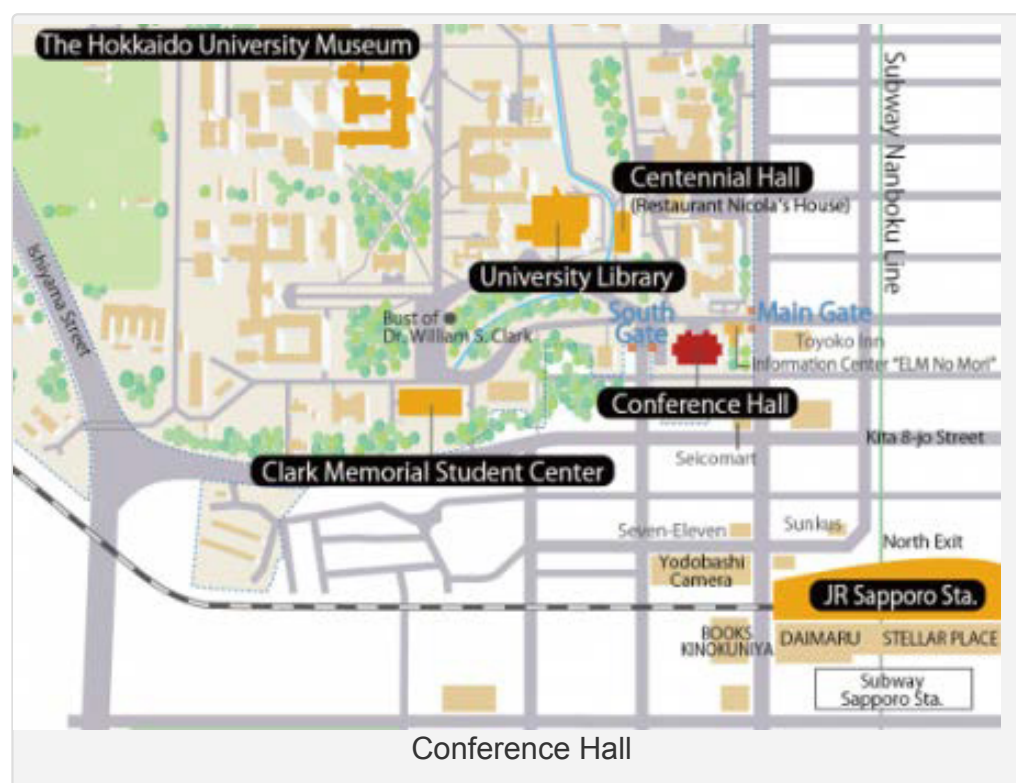
Venue Hokkaido University Conference Hall

Language: Japanese

Intended Audience: Researchers, General public, College Students,

Outline Hokkaido faces a constant threat from earthquakes and volcanic hazards in addition to blizzards and other snow hazards that can cause widespread damage in winter. To support the security of people's livelihoods and economic activities, it is essential for universities, government offices and the media to collaborate on the promotion of disaster prevention and mitigation initiatives designed with local characteristics in mind. This event will be part of a relay symposium and will wrap up discussions for events to be held in Kitami and Muroran. A research poster exhibition (free admission) on the theme of the symposium is also scheduled to take place from October 28 in the first-floor hall of Hokkaido University Conference Hall.

Venue



A Person in Charge	Prof. Yashushi Takamatsu, Hokkaido University Public Policy School
Registration	Required
Fees	Free
Contact	Graduate School of Public Policy, Hokkaido University E-mail:office@hops.hokudai.ac.jp

Report

The Lecture Series on Disaster Prevention in Hokkaido: Risk Management and Disaster Prevention in the Winter (Program C, Sapporo Venue) was held on October 30 at HU's Conference Hall . The event was organized as part of the Symposiums on Disaster Prevention and Recovery of Japan with funding from the Japan Association of National Universities. It was a forum for comprehensive discussions following the sessions at the Kitami Institute of Technology on October 17 and the Muroran Institute of Technology on October 23.

The first half of the symposium featured keynote speeches by HU Faculty of Science Professor Yuichiro Tanioka, HU Faculty of Engineering Professor Shigeyuki Okada and former Japan Meteorological Agency Director-General Mitsuhiro Hatori. They shared their expert knowledge at the forefront of their respective fields, including the mechanisms of noteworthy earthquakes in Hokkaido, the outstanding disaster prevention characteristics of houses designed for cold, snowy climates, and the utilization and improvement of weather information for disaster prevention as implemented by the Japan Meteorological Agency to counter the recent trends of global warming and extreme weather conditions.

The latter half of the event involved a panel discussion also featuring Specially Appointed Professor Noriyuki Minami from HU Research Faculty of Agriculture, Development Promotion Department Director Kimihiro Takahashi from the Hokkaido Regional Development Bureau, Executive Coordinator for Crisis Management Satoshi Kato from the Hokkaido Government's Department of General Affairs, and Emergency Management Office Director General Shigenori Aihara from the Sapporo Municipal Government. Government administration topics were provided concerning the provision of information in extreme weather conditions, the issuance of evacuation advisories, measures for stranded people and other considerations. These were followed by discussions and opportunities for audience members to share opinions. The session highlighted outstanding initiatives to raise the awareness of locals and to promote disaster management education in Hokkaido.

The series of symposiums hosted eight keynote speeches together running over 10 hours. They attracted more than 500 people, including business community members, local government representatives and members of the general public. The organizer would like to thank all the organizations concerned and will make efforts to hold future symposiums as an ongoing initiative in reference to the opinions and requests of attendees.



Sharing opinions in the Q-A session



A panel discussion

Open Symposium on Agricultural Life in Urban Areas: Fun of Plants and Charming Life



Overview

Date Friday, October 31st, 2014 Open: 12:00 Start: 13:00 End: 16:00 (Finished)

Organizer Field Science Center for Northern Biosphere

Co-host The Hokkaido Society for Horticultural Research

Venue Hokkaido University Conference Hall

Language: Japanese / English (consecutive interpretation)

Intended Audience: Researchers, General public, College Students,

Outline Plant cultivation and household vegetable gardens help to enrich people's lives, and such agricultural initiatives are today gaining popularity even in urban areas. This event will feature discussions on the potential of agricultural living in cities with examples highlighting the interesting phenomenon of mutual plant growth regulation, agricultural theme parks in Sapporo and other cities outside Japan, and diversified operation of urban farming (promotion of the sixth industry).

Venue



A Person in Charge	Field Science Center for Northern Biosphere, Professor H.Araki
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Registration	Not required
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Fees	Free
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Report

This symposium was co-hosted by HU's Field Science Center for Northern Biosphere and the Hokkaido Society for Horticultural Research in HU's Conference Hall on October 31, 2014. Its 111 attendees listened to discussions on the present and future of urban farming for enriched lifestyles. Topics included academic and international considerations against the recent backdrop of an increase in the number of community garden applicants and more student agricultural club activities in Sapporo.

The lectures are outlined below.

1. Professor Yoshiharu Fujii from Tokyo University of Agriculture and Technology gave a presentation on allelopathy (a biological phenomenon in which plants inhibit or promote the growth of others by releasing chemicals) with the title A Mechanism in which Plants Control the Growth of Others. He highlighted that the wise use of this phenomenon could help to control weed growth and support organic farming, more efficient farm work and the development of new biopesticides.
2. Assistant Professor Zi-ping Zhang of China's Jiangxi Institute of Vegetables and Flowers spoke about an agricultural theme park in Shanghai. He highlighted the park, which attracts 300,000 visitors annually, as a showcase for agricultural development in China, and covered its plant factories, biotechnology, modern vegetable gardens and other considerations as well as discussing related visions for the future.
3. Sato Mirai Project Group Deputy Facility Head Makoto Okuyama gave a presentation titled Activities to Support Farming in Sapporo Sato-Land Farm Park. He highlighted how the park's operation was based on the principle of providing an appealing green space for locals to relax and enjoy farming and the natural environment with the themes Communing with Nature and Farming and Harmonious Coexistence of the City and Agriculture. The park has attracted over 10 million people since its opening in 1995. Okuyama mentioned increasing public interest in farming as part of daily life, saying that the park provides opportunities for hands-on experience in farming and now receives four times more applications than the available capacity for the 194 community garden lots there.
4. Chief lecturer Hironao Yoshioka of Sapporo Nogakko's public lectures on farming gave a presentation on Sapporo Nogakko with the title Ideal Post-retirement Agricultural Activities. The lessons, which involve lectures on the fundamentals of agriculture and practical training on cultivation techniques, are provided on Sundays from April to early November to locals wishing to try their hand at farming, many of whom are in their fifties, according to Yoshioka. He also said that some people who had completed Sapporo Nogakko courses had

established nonprofit organizations called Sapporo Nogakko Club and Green Life Sapporo, and that Hokkaido University students had participated in their activities.

The discussion session provided a platform for opinions on various opportunities to enjoy farming. Hironao Yoshioka outlined the Sapporo Municipal Government's Farmer Training Support Project, which began in fiscal 2014. The project incorporates a plan to install training fields in which individual participants will grow crops over an area of about 1,000 m² to encourage middle-aged and older people to learn farming techniques and live fulfilling lives through agriculture. The symposium organizer is grateful for the support of the Hokkaido Society for Horticultural Research.



The discussion session



111 attendees listened to discussions

SD on Campus: Invitation to Study Abroad Program



Overview

Date	Friday, October 31st, 2014 Open:17:40 Start: 18:10 End: 20:10 (Finished)
Organizer	Office of International Affairs
Venue	Office of International Affairs
Language: English	
Intended Audience: College Students	
A Person in Charge	Prof. Eijun Senaha, Faculty of Letters
Registration	Required: Via website
Fees	Free
Contact	Division of International Academic Programs, Office of International Affairs Kumi KONO Mail: jryugaku@oia.hokudai.ac.jp

Report

As in 2013, HU's Office of International Affairs hosted a seminar for potential overseas study candidates. The five institutions participating in the event were the Philippines' De La Salle University, Indonesia's Gadjah Mada University, Vietnam National University-Ho Chi Minh City International University, China's Xi'an Jiaotong University and Australia's University of Sydney. To provide information from student perspectives, international students on the Hokkaido University Short-Term Exchange Program (HUSTEP) have served as presenters since 2013.

Representatives from these universities outlined characteristic initiatives pursued as part of sustainable development (SD) education programs at their institutions and ways in which their students contributed to SD in the classroom and elsewhere.

This was the sixth such seminar of 2014, and student responses to the post-event questionnaire indicated a high level of satisfaction. One respondent said she had become interested in studying at a partner institution, and another opined that HU students should become more active like their counterparts at partner institutions. The representatives of the institutions involved saw the event as a valuable opportunity for direct promotion to HU students, prepared well for their presentations and appeared pleased with their work. In the questionnaire, HU students were also asked which universities they would like to see invited in 2015. The organizer will take the results into account when planning next year's seminar.



Explanation by OIA



One of the representatives from sister universities

9th International Conference on Applied Ethics: Security, Sustainability, and Human Flourishing – Moral Responsibility for Climate Change



Overview

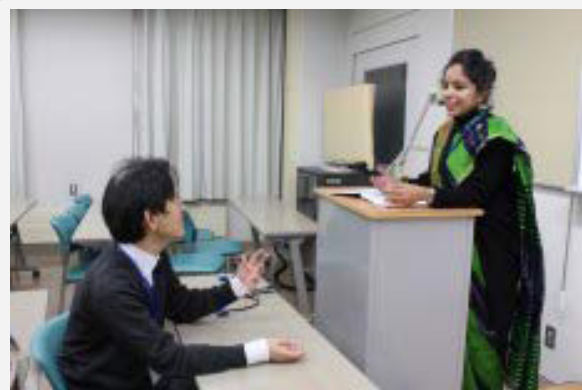
Date	Saturday, November 1st - Sunday, November 2nd, 2014 (Finished)
Organizer	Center for Applied Ethics and Philosophy
Venue	W409, Humanities and Social Sciences Classroom Building, Hokkaido University
Language: English	
Intended Audience: Researchers, College Students,	
Outline	The significance of sustainability may be self-evident, but it is important to consider why this is the case. This special lecture to be given by New York University's Professor Dale Jamieson (a leading expert on environmental and sustainability ethics) will cover the reasons for this self-evidence in the presence of members of the public and students. The more scholarly 9th International Conference on Applied Ethics will feature a keynote lecture by Prof. Jamieson titled Moral Obligations to Address Climate Change and presentations on the outcomes of recent studies conducted by internationally renowned researchers.
A Person in Charge	Assistant Professor Shunzo Majima, Graduate School of Letters, Hokkaido University
Registration	Not required
Fees	Free
Contact	Center for Applied Ethics and Philosophy Miyuki Nishikawa

Report

This conference consisted of three plenary lectures, including one by Professor Dale Jamieson of New York University, and 50 oral presentations. The International Conference on Applied Ethics has been held every year since its inauguration in 2007, and the theme of the 9th event was Security, Sustainability and Human Flourishing. Dr. Jamieson is a world-recognized authority on environmental ethics and a leading expert on sustainability ethics. He questioned individual citizens' moral obligation to address climate change from ethical perspectives under the subject Moral Responsibility for Climate Change. He illustrated that solutions to climate change issues are predicated on people's ethical behavior, stressing the importance of ethical decision-making and ethical behavior. No prior knowledge was required for the lecture as Dr. Jamieson explained in simple terms why people have a moral obligation to address climate change. He also maintained that the moral responsibility calls for people to take action. The event laid the foundations to make sustainability ethics a major theme of the International Conference on Applied Ethics next year onward.



A plenary lecture



Question and answer in one of the oral presentation

A Joint Workshop between Hokkaido University and the Research Institute for Humanity and Nature: What is the Ideal Research that Would Work Best for the Local Areas and People ?



Overview

Date	Saturday, November 1th, 2014 Start: 9:00 End: 17:45 (Finished)
Organizer	Graduate School of Engineering
Co-host	Research Institute for Humanity and Nature
Venue	Hokkaido University Conference Hall
Language: Japanese / English (no interpretation)	
Intended Audience: Researchers, College Students,	
Outline	Since the 1992 Earth Summit in Rio, a wide range of researches on global environmental issues have been carried out. Yet, any actions that provide specific solutions for global environmental issues are not considered to be active, as mentioned in the 2012 Rio+20 Conference. Background behind this problem is thought to be the discrepancy between research and society. That is why International Council for Science (ICSU) has been implementing the Future Earth program that is designed to ensure the partnership between society and science. You would wonder, “What is the partnership between society and science, then?” Discussing this theme will be the critical clue when we identify the ideal image of the future environmental research. The purpose of this Workshop includes: * to exchange opinions about “how researches on public health, local cultures and engineering could work together with the society?” based on the ongoing researches * to cultivate better understanding as to what is the meaning of “research that works best for the society” and “how we can prevent the discrepancy between the research and society” Download the poster data (PDF)

サステナビリティウィーク北大・地球研合同ワークショップ

地域や人びとに 寄り添う研究の あり方とは？

北海道大学大学院工学研究院・
総合地球環境学研究所 共催

日時

2014年11月1日（土）
9：30～17：00

場所

**北海道大学・学術交流
会館・第3会議室**

1992年のリオサミット以降、地球規模での環境研究は様々に行われてきました。しかし、2012年のリオ+20の会議でも指摘されたように、いまだに地球規模での環境問題については、具体的な解決に向けた活動は実行されているとは言えない状況です。この背景には、研究と社会の乖離があるとされています。

では、社会と科学の連携とは何でしょうか？この議論を深めることが今後の環境研究のあり方を決めるうえで極めて重要なカギとなります。本ワークショップは、農学や水産学、工学、政治学、地域研究などの研究と社会とがどのように連携できるのか？について、これまで進められてきた研究を基に意見交換を行い、「社会に寄り添う研究」とはなにか？どうすれば研究と社会の乖離を防ぐことができるかについての理解を深めることを目的としています。

お問い合わせ先：

船水尚行（北大）funamizu@eng.hokudai.ac.jp
福士由紀（地球研）fuku@chikyu.ac.jp

プログラム

0930-10：00 受付

10：00-10：15

開会の辞（北海道大学大学院工学部）

10：15-10：30

趣旨説明

（田中樹・地球研）

10：30-11：00

石川智士（地球研）

「人と環境の良好な関係とは何か？—エリアケイバビリティサイクルという考え方」

11：00-11：30

鍋島孝子（北大・メディアコミュニケーション）

「政治学からアフリカ農民を描く—統合水資源管理にみる農村の自治」

11：30-12：00

田中樹（地球研）

「人びとの暮らしに親和性のある砂漠化対処技術の形成」

12：00-13：30 昼食

13：30-14：00

清水貴夫（地球研）

「サーベルの篤農家の水食との戦い」

14：00-14：30

船水尚行（北大・工学）

「資源回収型サニテーションとその導入モデル」

14：30-15：00

牛島健（北大・工学）

「インドネシア都市スラム住民のトイレ買い換え行動モデル」

15：00-15：20 休憩

15：20-16：45

総合討論

16：45-17：00

閉会の辞（船水尚行・北大）

A Person in Charge FUNAMIZU Naoyuki

Registration Not required

Fees Free

Contact Laboratory on Engineering on Sustainable Sanitation
Naoyuki Funamizu

Mail: funamizu@eng.hokudai.ac.jp

Report

Activities toward specific solutions to global environmental problems are yet to be fully implemented, presumably because of the gap between the research community and society. Accordingly, the organizer of this workshop considered that holding in-depth discussions on what constitutes a partnership between society and the scientific community would be essential in deciding how environmental studies should be conducted in the future. Against this backdrop, the workshop included exchanges of opinions by experts in agricultural science, fisheries, engineering, political science, area studies and other fields, based on ongoing studies, on a partnership between the research community and society. They also discussed what constitutes research that meets the needs of society and how the gap between the research community and society can be closed.

The workshop featured six presentations and a one-and-a-half-hour general discussion. Although the nature of these presentations and discussions would naturally yield no concrete results, the opinions shared by the attendees were valuable in highlighting the needs for researchers to focus on people's lives and value chain, for resource users to protect the natural environment, and for field surveys from the viewpoint of the general public.



A presentation by Prof. Funamizu



A general discussion

Special Lecture: Ethics of Sustainability



Overview

Date	Sunday, November 2nd, 2014 Open: 16:00 Start: 16:30 End: 18:00 (Finished)
Organizer	Center for Applied Ethics and Philosophy
Venue	W409, Humanities and Social Sciences Classroom Building, Hokkaido University
Language: English	
Intended Audience: Researchers, College Students,	
Outline	The significance of sustainability may be self-evident, but it is important to consider why this is the case. This special lecture to be given by New York University's Professor Dale Jamieson (a leading expert on environmental and sustainability ethics) will cover the reasons for this self-evidence in the presence of members of the public and students. The more scholarly 9th International Conference on Applied Ethics will feature a keynote lecture by Prof. Jamieson titled Moral Obligations to Address Climate Change and presentations on the outcomes of recent studies conducted by internationally renowned researchers.
A Person in Charge	Assistant Professor Shunzo Majima, Graduate School of Letters, Hokkaido University
Registration	Not required
Fees	Free
Contact	Center for Applied Ethics and Philosophy Miyuki Nishikawa

Report

This lecture featuring Professor Dale Jamieson of New York University focused on sustainability ethics under the theme of Sustainability and Beyond. He highlighted the significance of knowing why sustainability is important. In fact, many people believe that sustainability is important, but they have few opportunities to consider why it is important. They can practically recognize the value of achieving sustainability and the importance of building a sustainable society only after they have understood why sustainability is important.

Such recognition serves as the driving force behind practical steps to achieve sustainability and build a sustainable society. Naturally, sustainability is not without problems. One example is a trade-off between intergenerational and intragenerational justice . That is, the distribution of scarce resources is a trade-off between global intragenerational justice among different people of the present generation and intergenerational justice involving us in the present generation and our posterity in future generations.

Having said that, it is worthwhile to understand the moral imperative of sustainability and further develop related discussions. The lecture was held in close coordination with the 9th International Conference on Applied Ethics in its role as a post-conference seminar. The organizer intends to continue to hold lecture meetings on sustainability ethics next year and onward.



Lecture by Prof. Jamieson_1



Lecture by Prof. Jamieson_2

Public Program by the Faculty of Health Science: Welcome to the world of health science



Overview

Date	Monday, November 3rd, 2014 Start: 13:00 End: 16:00 (Finished)
Organizer	Faculty of Health Science, Hokkaido University
Venue	Faculty of Health Science, Hokkaido University
Language: Japanese	
Intended Audience: General public	
Outline	At this event, three researchers will outline health science research in simple terms. The lectures will focus on everyday topics including the health impacts of environmental change with focus on trans-generational effects, knowledge of how light affects wellbeing to support flexible living in today's stressful society, and rehabilitation for Parkinson's disease.
A Person in Charge	Prof. Tadayoshi Asaka, Faculty of Health Science, Hokkaido University
Registration	Required: Via e-mail(shomu@hs.hokudai.ac.jp) or Phone(+81-(0)11-706-3315 by Friday, October 24th, 2014)
Fees	Free
Contact	Faculty of Health Science, Hokkaido University General Affairs Section, Faculty of Health Science, Hokkaido University mail: shomu[at]hs.hokudai.ac.jp

Report

This public lecture meeting held by the Faculty of Health Sciences under the theme Welcome to the World of Health Science featured lectures by three HU faculty members on their fields of specialization, and attracted 63 attendees.

In the first lecture, entitled The Environment and Health – Considering Impacts on the Next Generation, Prof. Takeshi Saito highlighted the health impacts of environmental change with a focus on trans-generational effects.

The second lecture, entitled Things That are Visible Today and Doable in the Future through Light – in Medical Fields and then in Daily Lives, was given by Prof. Michitaka Ozaki, who outlined how health-friendly light can help to enhance the wellbeing of people and build resilience in today's stressful society.

In the third lecture, entitled Rehabilitation for Parkinson's Disease, Associate Professor Mitsuhiro Takahashi outlined, in simple terms, the rehabilitation of Parkinson's disease patients with the latest research findings, and performed a demonstration.

The speakers gave detailed yet easy-to-understand lectures from a health science viewpoint using as a key phrase Education for Sustainable Development – the theme of the Sustainability Weeks 2014 event. They responded in detail and in easy-to-understand terms to a variety of attendee questions.

The organizer plans to continue holding a public lecture meeting at the same time every year under a theme that will reflect current trends.



Address by Dean Date



Lecture by Prof. Ozaki

RECCA Hokkaido: Climate Change in Hokkaido and its Adaptation



Overview

Date Tuesday, November 4th, 2014 Start: 15:00 End: 17:00 (Finished)

Organizer Graduate School of Engineering

Partners Hokkaido branch of Meteorological Society of Japan

Venue Conference Hall

Language: Japanese

Intended Audience: Researchers, General public, College Students,

Outline A research project on “Development and Application of Comprehensive Downscaling Methods over Hokkaido” in “Research Program on Climate Change Adaptation” funded by Ministry of Education, Sports, Culture, Science, and Technology has performed studies on climate change prediction over Hokkaido. The research product can be fundamental and necessary information for public and private sectors in Hokkaido to adapt climate change in the near future. In this workshop, researchers, stake holders, and citizens discuss how we could share the information and what we should act for adaptation.

[Download the Poster ..\(PDF\)..](#)

RECCA-Hokkaido
Research Program on Climate Change Adaptation
北海道における気候変動とその適応ワークショップ
— 近年変化する降雨形態と防災について考える —

日時: 2014年11月4日(火) 14:30開場 15:00開会
場所: 北海道大学 学術交流会館 小講堂
札幌市北区北8条西5丁目

■ 基調講演
15:00~15:20 「近年の気象の傾向と防災に関して」
札幌管区気象台長 高野 清治
15:20~15:30 「北海道における気候変動研究の現状」
北海道大学 大学院工学研究院 准教授 山田 朋人
15:30~15:40 「RECCA-Hokkaidoで開発した近未来シミュレーションについて」
日本気象協会 北海道支社 主任技師 小倉 勉
(休憩)

■ 話題提供
15:50~16:00 「雪水文気象の変化が積雪地域にもたらす影響について」
富山県立大学大学院 工学部 教授 中津川 誠
16:00~16:10 「北海道における近年の気象と農業について」
北海道農業研究センター 生産環境研究領域 上席研究員 廣田 知良

■ パネルディスカッション「変動する気象にどう適応していくのか」 16:10~17:10
パネリスト
札幌管区気象台長 高野 清治
北海道農業研究センター 生産環境研究領域 上席研究員 廣田 知良
富山県立大学大学院 工学部 教授 中津川 誠
北海道大学 大学院工学研究院 准教授 山田 朋人
北海道大学 大学院理学研究院 准教授 稲津 将
北海道大学 大学院地球環境科学研究院 准教授 佐藤 友徳

コーディネーター 日本気象協会 北海道支社 松岡 直基
司会 加藤 真奈美(気象予報士)

CPD 土木学会認定継続教育(CPD)プログラムです。(2単位)

<問合せ> 北海道大学大学院工学研究院
山田 朋人
TEL: 011-706-6188

主催: 北海道大学大学院工学研究院
後援: 日本気象協会北海道支部

定員 150名
入場無料
※事前申込不要
直接会場にお越し下さい

A Person in Charge	Assistant Professor Tomohito Yamada, Graduate School of Engineering, Hokkaido University
Registration	Not required
Fees	Free
Contact	Graduate school of engineering Tomohito Yamada mail: tomohito@eng.hokudai.ac.jp

Report

As part of the Ministry of Education, Culture, Sports, Science and Technology's Research Program on Climate Change Adaptation (RECCA), a research project on the Development and Application of Comprehensive Downscaling Methods for the Hokkaido Region, commonly known as RECCA-Hokkaido (Principal Researcher: Dr. Tomohito Yamada of the Faculty of Engineering), has been under way since 2010.

Policy responses to climate change can be roughly divided into mitigation measures designed to reduce greenhouse gas emissions and adaptation measures intended to advance sustainable development amid climate change. While mitigation measures should be implemented on a national or global scale, those for adaptation require the consideration of the characteristics and circumstances of each region. Although the mandatory revision of adaptation strategies every several years is becoming common in European countries and the U.S., Japan is still at the stage where its Ministry of the Environment and other relevant parties are seeking to have a rule for regular revisions officially endorsed by a Cabinet decision in fiscal 2015.

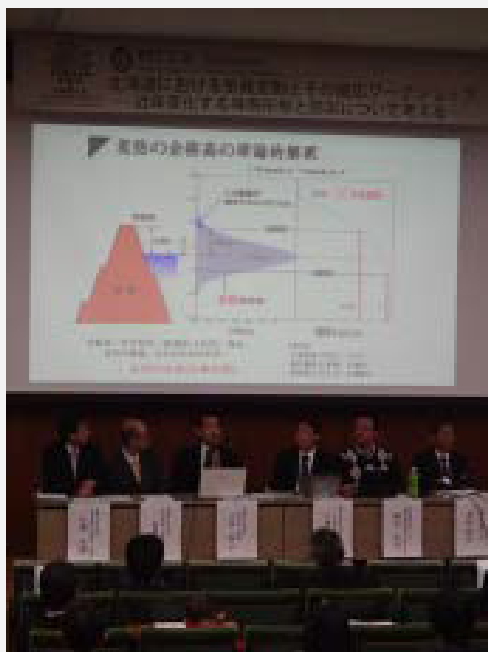
Four and a half years after the beginning of this research project, the workshop was held in order to discuss future adaptation measures to be taken in Hokkaido and the impacts of recent heavy rainfall disasters and climate change on agriculture. As research achievements of RECCA-Hokkaido, a presentation outlined the temperatures, rainfall, snow depth and other characteristics of Hokkaido shown by global climate models and regional climate models should global temperatures increase 2°C. After this, climate models, future prediction methods and Near-future Viewer were outlined. The Near-future Viewer is a web-based communication tool for prediction data provided by RECCA-Hokkaido.

To summarize the keynote lectures, Sapporo District Meteorological Observatory Director Kiyoharu Takano outlined the meteorological characteristics of torrential rainfall caused by a line-shaped rainfall system observed in central Hokkaido in September 2014 and the actions taken by administrative bodies before and after the torrential rainfall. Professor Makoto Nakatsugawa of the Graduate School of Engineering at the Muroran Institute of Technology shared the outcomes of the latest studies on the impacts of changes in hydrological phenomena on snowy regions from a water resource viewpoint. Senior

Researcher Tomoyoshi Hirota of the NARO Hokkaido Agricultural Research Center focused on interesting research results concerning the positive and negative impacts of climate change on farming in Hokkaido for each major crop.

The workshop ended with a panel discussion featuring six participants, including the aforementioned speakers, Associate Professor Masaru Inatsu of HU's Faculty of Science and Associate Professor Tomonori Sato of HU's Faculty of Environmental Earth Science, who are both involved in RECCA-Hokkaido. They engaged in lively discussions on adaptation measures to be taken in Hokkaido from the viewpoints of torrential rainfall, heavy snowfall, water resources and agriculture.

The workshop attracted 161 people, including many members of the general public in addition to university staff, students and practitioners in related fields. Post-event feedback from attendees indicated that the event helped them to consider the future climate of Hokkaido and adaptation measures in different fields.



A panel discussion



161 people, including many members of the general public

The Art Project to Reduce Paper Dust at HU: PAPER SPACE – Re-think Your Campus Life



Overview

Date	Wednesday, November 5 - Sunday, November 9, 2014 / OPEN: 9:00, CLOSE: 17:00 (Finished)
Organizer	PAPER SPACE
Partners	HOKUDAI Genki Project
Venue	Conference Hall
Language: Japanese	
Intended Audience: General public, College Students,	
Outline	It's a participatory art project using miscellaneous paper that is dumped in Hokkaido University. An unusual space modeled after the campus will change from moment to moment as participants indulge themselves in decorating the space with bags of shredder scrap here and there. You can participate in this project no matter how old you are, and it takes only 5 minutes. Through a familiar material like miscellaneous paper, you can give thought to sustainability with us.
A Person in Charge	Airi Okado, Graduate Schoole of Engineering
Registration	Not required
Fees	Free
Contact	Paper Space (Contact: Sakamoto) mail: sakamoto.masa4@frontier.hokudai.ac.jp

Report

The objective of this project is to help to narrow the gap between Hokkaido University, which engages in cutting-edge efforts to create sustainable campuses, and university users indifferent to such initiatives. The latter includes HU students, who spend only limited time on campus, and locals and tourists visiting the HU campus. The project is also intended to provide an opportunity to enhance understanding and recognition between both parties.

The event was planned, prepared and implemented solely by students (33 in total, consisting primarily of those on HU's second-year undergraduate to second-year master's degree programs who major in architecture, but also students in other schools and fields). To showcase HU's initiatives to achieve campus sustainability, the project members created art installations using large volumes of miscellaneous waste paper discarded on campus to help to show how unwittingly people discard waste paper. The project members recycled the waste paper used to create their works as biomass feedstock and cattle bedding for the farms on campus, and developed and proposed a sustainable system model to locally process the waste discarded on campus.

During the event, the indoor and outdoor installations attracted approximately 800 people, 70 percent of which were HU students. In addition to feedback about the works themselves, visitors expressed a long-term hope that art exhibitions like this would be held regularly on HU's campus (by one student), surprise at the large amount of miscellaneous waste paper used (by another student), pleasure at coming in contact with students (by one tourist) and enjoyment of a first-time experience of being in a pleasant park (by one kindergarten student). Feedback from the project members was also positive, with some saying they enjoyed the project more than regular classes, which do not involve the creation of such spaces. Other students indicated an interest in learning how others perceive their works and an eagerness to continue the project. They appeared to have a sense of fulfillment from the feedback they received from people outside the HU community. The large responses to the project led to interviews by a newspaper and two TV stations, making project members realize that their activities were also recognized by people who did not actually come to see the works.

It is expected that student activities on campus will continue to produce positive results, such as the creation of even more appealing, high value-added sustainable-campus spaces, the utilization and conservation of the beautiful natural environment and the cultivation of interpersonal relationships among those involved in such activities. The project members plan to continue their activities next year onward to contribute to the creation of enhanced campus spaces at HU.



Tourists and student staffs



One of the exhibitions

Project with Sister Universities: Finnish-Japanese Joint Symposium



Overview

Date	Wednesday, November 5th - Friday, November 7th, 2014 (Finished)
Organizer	University of Lapland, University of Oulu, Hokkaido University, Sapporo City University
Venue	University of Lapland (Finland)
Language: English	
Intended Audience: Researchers, General public, College Students,	
Outline	This year, we will have presentations and discussions on mutual collaboration together with representatives from University of Lapland (Finland), University of Oulu (Finland), Hokkaido University, and Sapporo City University at the opening session. Also, various workshops will be held, relating to the keywords such as “Service Design,” “Aging Society,” and “Community planning,” so that we will share the cutting-edge researches and further collaborations. “Finnish-Japanese Joint Symposium” website (external link) http://www.ulapland.fi/InEnglish/About-us/News-Events/Events/Events-2014/SUSTAINABILITY-WEEKS-2014—Finnish-Japanese-Joint-Symposium
A Person in Charge	Ichiro Ueda, Executive and Vice-President of Hokkaido University, Chairperson of the SW 2014 Executive Committee
Registration	Required
Fees	Free
Contact	Division of International Services, Office of International Affairs, Hokkaido University Mail: gi-core@oia.hokudai.ac.jp

Report

From November 5 to 7, the Finnish-Japanese Joint Symposium: Innovation and Well-being through Multidisciplinary Dialogue was held at the University of Lapland in Finland. Organized as part of HU's Sustainability Weeks 2014, the event attracted approximately 80 attendees primarily from the University of Lapland, the University of Oulu, Sapporo City University and HU.

During the Opening Ceremony on Day 1, University of Lapland Rector Mauri Ylä-Kotola delivered a welcome address, followed by speeches by University of Oulu Rector Lauri Lajunen and HU Vice President Ichiro Uyeda.

Later on the day, five parallel workshops began on themes including tourism, healthcare and urban design, with presentations and discussions held over two days. All the sessions adopted a unified method called Service Design,*1 which is a dialog-based approach to designing services to best meet the needs and opinions of diverse stakeholders. Service Design was adopted as a common approach to running the parallel workshops because it is one of the interdisciplinary fields that characterize research at the University of Lapland (the event's host institution). At first, attendees were puzzled at the unfamiliar method, but ultimately appeared to have a good feeling, for example, about interacting with researchers in other fields with whom they normally have little contact.

On the last day, the representative of each participating university delivered a keynote presentation. The panel discussion that followed was characterized by lively exchanges of opinions, highlighting the success of the event.

The symposium is expected to serve as a catalyst for HU to further reinforce partnerships with its partner institutions in Finland and the University of the Arctic,*2 such as the implementation of researcher exchange and collaborative research programs.

The symposium will be held in Sapporo next year.

*1Service Design

Service Design is a mechanism designed to allow a service provider to offer services to its customers in the most effective way. It is also applied to purposes such as establishing information network systems and improving administrative services.

*2University of the Arctic

The University of the Arctic (UArctic) is a network of educational institutions promoting education and research concerning issues facing the northern regions, particularly Canada, Denmark, Finland, Iceland, Norway, Russia, Sweden and the US – known as the Arctic 8. The issues include those concerning environmental conservation, indigenous communities and sustainability.



A discussion between the organizers



A Plenary Session



A panel discussion

Symposium : Center for Regional Economic and Business Networks – a Future of “Manufacturing” in Hokkaido



Overview

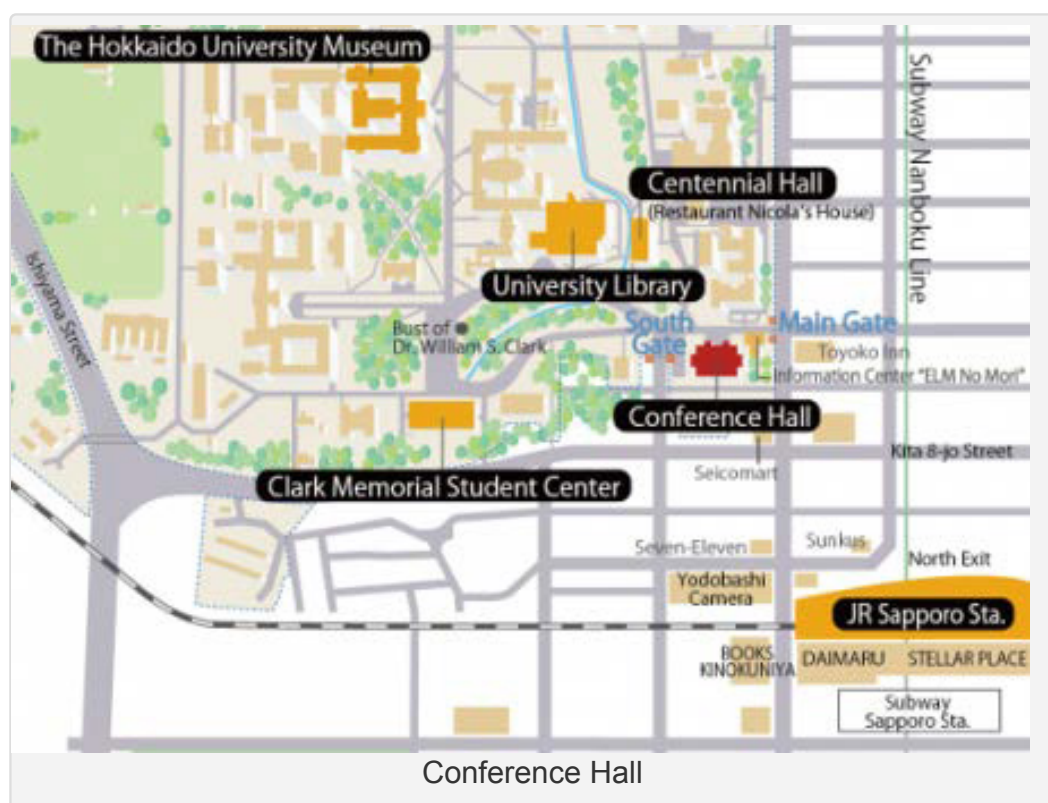
Date	Thursday, November 6, 2014 (Finished)
Organizer	Center for Regional Economic and Business Networks, Graduate School of Economics and Business Administration
Co-host	The Hokkaido, Tohoku Branch of the Japan Society for Production Management
Partners	Sapporo Coworking Supporters
Venue	Hokkaido University Conference Hall

Language: Japanese

Intended Audience: Researchers, General public, College Students,

Outline What types of manufacturing can take place only in Hokkaido? This event will explore the potential for revolutionizing the prefecture's manufacturing industry and look at related future opportunities based on collaboration among operators in agriculture (a primary industry as a whole), IT (including big data utilization) and the maker movement (for 3D printing of sensors and other devices) in line with local and industrial characteristics.

Venue



北海道大学大学院経済学研究科 地域経済経営ネットワーク研究センター 2014年度シンポジウム
日本生産管理学会・北海道東北支部 特別講演会 後援：札幌コワーキング・サポーターズ(BCS)

参加自由 無料

北海道における新時代の「ものづくり」 IT×農業の試み

北海道は、「ものづくり」の産地とされて久しい。道内には、製造業におけるオンリーワン企業がいくつも数えられるもの。ものづくり集積地としての強みにはさし、他方、近年急激に注目度が高まりつつある「メイカームーブメント」は、従来のものづくりのあり方を革命的に変える可能性を秘めている。ものづくりに関しては大きく刷新されたとされる北海道が、新しいタイプの「ものづくり」で強みを持つ可能性はどこにあるのだろうか。北海道の地域特性や産業特性を考えると、農業（畜産業や水産業など1次産業全般）、IT、そしてメイカームーブメントのコラボレーションこそ、その活路を見出せるのではないだろうか。北海道における新しい「ものづくり」の可能性を、北海道の地域特性との関連で考えたい。

日 時	講 演
11月6日(木) 13時30分より17時00分 (13時00分開場)	講 演 慶應義塾大学経済情報学専攻 田中 浩典 氏 「ウェブ社会からファブ社会へ」
	講 演 株式会社イーラボ エクスペリエンス事業開発 (I&D) 担当取締役 島村 博 氏 「Fab社会の到来：食と農のかしこい暮らし方」
	講 演 株式会社 SUJUBOX 代表取締役 FabLabつくば代表 塚本 健之 氏 「FabLabつくばの歩み」
会 場 北海道大学学術交流会館 大講堂 北海道札幌市北区北の条西の丁6番5 (北大正門入って左)	パネルディスカッション パネリスト 田中 浩典 氏 島村 博 氏 塚本 健之 氏 コーディネーター 平本 健文(北海道大学大学院経済学研究科教授)

お問い合わせ先: sacade@econ.hokudai.ac.jp (開封可)
URL: 地域経済経営ネットワーク研究センターのサイト <http://rebnu.econ.hokudai.ac.jp/> もご覧下さい。

A Person in Charge	Kenta Hiramoto, Graduate School of Economics and Business Administration, Hokkaido University
Registration	Not required
Fees	Free
Contact	Center for Regional Economic and Business Networks, Graduate School of Economics and Business Administration Tsukada Kumiko E-mail: sacade@econ.hokudai.ac.jp
URL	http://rebnu.econ.hokudai.ac.jp/

Report

On November 6, the Symposium on the Future of “Manufacturing” in Hokkaido – Efforts for Collaboration among Operators in Agriculture and IT was held at HU’s Conference Hall . It was co-hosted by the Research Center for Economic and Business Networks (REBN) of HU’s Graduate School of Economics and Business Administration and the Hokkaido-Tohoku Branch of the Japan Society for Production Management, and partnered by the Sapporo Coworking Supporters (SCS) organization.

The symposium featured three lectures by Hiroya Tanaka from Keio University, Hiroshi Shimamura from eLAB experience Inc., and Noriyuki Aibe from SUSUBOX Co., Ltd./FabLab Tsukuba on their respective fields. More specifically, the lectures entitled From a Web Society to a Fab Society, Arrival of a Fab Society: Clever Lifestyles Involving Food and Farming, and History of FabLab Tsukuba provided stimulation and a meaningful experience for attendees.

The second half of the symposium was a panel discussion moderated by Professor Kenta Hiramoto from HU’s Graduate School of Economics and Business Administration. The lecturers discussed problems and their solutions based on questions submitted beforehand by audience members. The lively, in-depth discussions on manufacturing in a new era covered topics such as how the maker movement or a Fab Society will change people’s values, what kind of role Hokkaido should play in manufacturing now that a Fab Society is about to become a reality, and what is the potential of Hokkaido’s agriculture and dairy farming industry in their collaboration with IT operators.



A panel discussion



Audience

GiFT2014 -Global issues Forum for Tomorrow-



Overview

Date Saturday, November 8, 2014 Start: 20:00, End: 21:45 (GMT+9, Local time in Japan) **(Finished)**

Organizer Hokkaido University

Language: English

Intended Audience: General public, College Students,

Outline **Join in GiFT –Global Issues Forum for Tomorrow!**
Application deadline for the Hokkaido University Experience Tour is **Tuesday, 18th November**. Highschool / University students and Highschool teacher who already posted the comment to Webcast on 8th November possibly have the chance to get the right of the tour. Don't forget to apply!

* NOTE: Application should be via "Contact Us" form on our [Facebook](#).

Webcasted on **(finished)**:

20:00-21:45 , November 8th (Local time in Japan)

Ustream: <http://www.ustream.tv/channel/gift2014>

Facebook: <https://www.facebook.com/SW.Hokkaido.u>

HOKKAIDO UNIVERSITY

EXPERIENCE TOUR

will be awarded to some students and high school teachers
who contribute to the GiFT during live webcast
with hot comments via Facebook.

<http://sustain.oia.hokudai.ac.jp/gift/campaign2014.html>

Connect with us & consider our future during the live webcast.

== What is GiFT ? ==

“The Global Issues Forum” delivers 15-minute presentations via internet, which are given by Hokkaido University’s distinguished researchers who are tackling various issues to realize a sustainable society.

The presenters call on young students worldwide to join them in efforts to address important global challenges.

[For more information, visit GiFT portal!](#)

<http://sustain.oia.hokudai.ac.jp/gift/>

A Person in Charge	Ichiro Ueda, Executive and Vice-President of Hokkaido University, Chairperson of the SW 2014 Executive Committee
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Contact	Secretariat for Hokkaido University Sustainability Weeks E-mail: sw1[at]oia.hokudai.ac.jp
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URL	<u>http://sustain.oia.hokudai.ac.jp/gift/</u>
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Report

GiFT – Global Issues Forum for Tomorrow – is an Internet forum annually held as part of the Sustainability Weeks program. This year's was the fourth such gathering, during which five HU faculty members each spoke in English for 12 minutes on their latest research achievements and prospects for resolving related issues under the theme of education. These included the future of education, research and universities. The presentation by HU President Keizo Yamaguchi included a public discussion with HU Professor Emeritus Akira Suzuki.

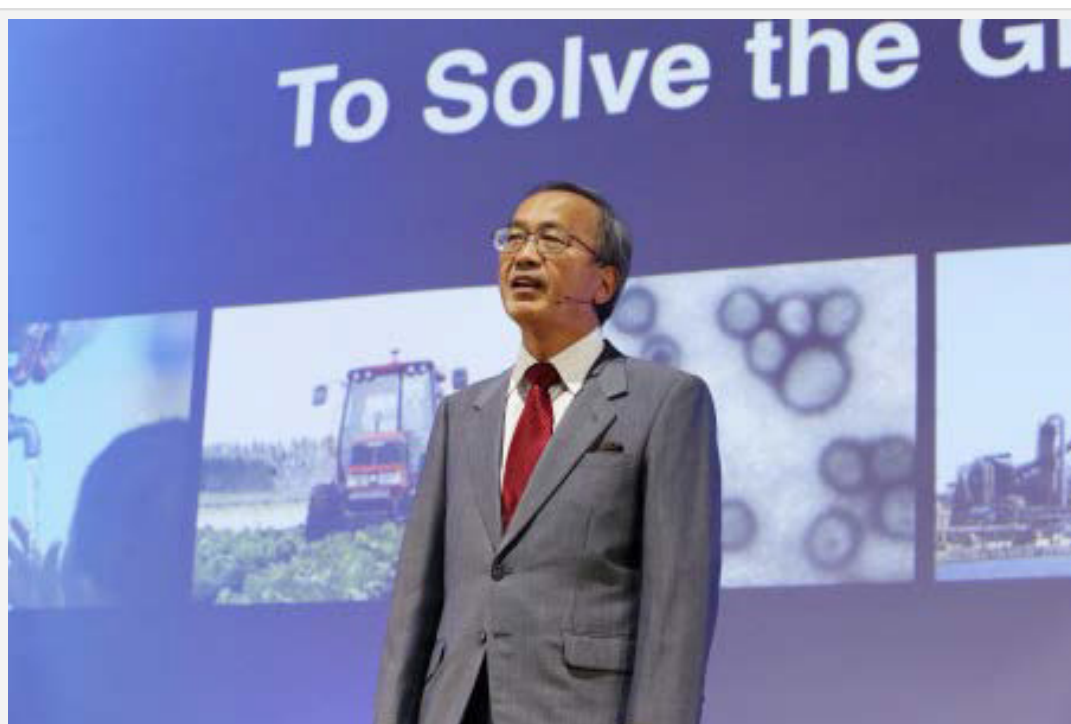
GiFT takes on a new challenge every year to make HU more widely known outside of Japan using the Internet. GiFT 2014 realized an interactive forum by holding broadcasting online of the presentations given at HU, thereby connecting to high school students and teachers and university students around the world, and providing a forum for exchanges on Facebook. A total of 253 people participated in the two-hour GiFT event on November 8. As far as we can tell, the participants were not just high school and university students, and included people in other parts of Asia (e.g., Indonesia, Malaysia), Europe (e.g., the U.K., Sweden), North America (e.g., Canada, the U.S.) and Africa (e.g., Nigeria). Approximately 200 comments were posted.

The GiFT event video uploaded to YouTube and Ustream has been viewed over 1,800 times (about twice the number last year) in Japan and other parts of the world over a period of less than one month, and this number is increasing daily.

We will hold GiFT as a part of the Sustainability Weeks program again in 2015.

GiFT website:

<http://www.sustain.hokudai.ac.jp/gift/>



Presentation: Keizo Yamaguchi, President, HU



President Yamagushi & Emeritus Professor Suzuki



Presentation: Prof. Yukihiro Takahashi



Presentation: Dr. Schuko Otsu, Co-Step



Presentation: Associate Prof. Naoko Watanabe

JICA PARTNER: International Cooperation Seminar in Hokkaido

– Get PRECIOUS INFORMATION of What you can do in the world of international cooperation !



Overview

Date	Saturday, November 8, 2014 Open 9:10, Start 9:30, Close: 16:30 (Finished)
Organizer	Japan International Cooperation Agency (JICA)
Co-host	The Office of International Affairs in Hokkaido University
Intended Audience:	Researchers, General public, College Students,
Outline	Come and Visit International Cooperation Seminar! If you • Want to take part in the field of international cooperation with your specialties and experiences! • Want to know what you can do in the field of international cooperation! We will connect you with the field of international cooperation by giving information!
A Person in Charge	Hiroshi Enomoto
Registration	Required: Via website: http://partner.jica.go.jp/semi/jinzai/20141108_hokkaido.html
Fees	Free
Contact	International Cooperation Seminar , Bureau of PARTNER, JICA Email: jicahrp@jica.go.jp

Report

The International Cooperation Seminar in Hokkaido was held on November 8 to provide information to people seeking careers in international cooperation and promote participation in international cooperation activities. The event attracted 137 attendees, including 65 students.

The post-event questionnaire recovered from 115 of the attendees indicated a high level of satisfaction, with 112 respondents either “very satisfied” or “satisfied.”

One respondent stated that the seminar had provided an opportunity to listen to speakers with various roles relating to international cooperation and obtain useful information for considering her specific career plan from various perspectives. Another attendee stated the event had offered a valuable opportunity to listen to adults with whom he normally had little contact, adding that he hoped the event would continue to be held on a regular basis. Another respondent stated that the seminar had been a great opportunity for her as she hoped to work for an international organization in the future, and that she hoped to see more of such seminars in Sapporo because they tended to concentrate in Tokyo.

On the day of the event, the enthusiasm of the attendees was apparent from the numerous attendees who appeared as soon as the venue opened and who were seen keenly asking questions to lecturers even after the seminar.

Program/Session Outline

- (1) Presentations on the trends of international cooperation and careers in international cooperation under the title For Those Targeting Careers in International Cooperation
- (2) Presentations on publicly recruited positions at JICA and the experiences of a publicly recruited project formulation advisor living in Hokkaido
- (3) Presentations on the Small- and Medium-sized Enterprise Globalization Support Project Using ODA and related examples, and on the initiatives of Nitto Construction Inc. in Nigeria
- (4) Lecture by an NGO Advisor at the Hokkaido International Foundation (HIF) under the theme Working for an NGO
- (5) Lectures on the Outline of the Development Consulting Industry and the Image of Ideal Development Consultants by the Engineering and Consulting Firms Association, Japan (ECFA) and its member IC Net Ltd.
- (6) Lectures on How to Become International Civil Servants by the Ministry of Foreign Affairs' Recruitment Center for International Organizations and on Careers at International Institutions by the Office of the United Nations High Commissioner for Refugees (UNHCR)



137 attendees, including 65 students

The Role of Civil Engineering for a Safe and Sustainable Society: A Diverse Field for the Diverse Needs of the Developed and Developing World



Overview

Date Saturday, November 8th, 2014 Open: 12:30 Start: 13:00 End: 15:30
(Finished)

Organizer Course of Civil Engineering and Course of Public Policy and Engineering,
School of Engineering, Hokkaido University

Venue Conference Hall

Language: Japanese

Intended Audience: General public, College Students,

Outline Societies around the world are faced with a growing number of environmental challenges, including rising temperatures, increasing frequency of natural disasters, depletion of natural resources, air and water pollution, and more. Civil engineering plays an important role in understanding the impacts of these environmental changes and providing the tools and infrastructure necessary for safe, resilient, and healthy development. One unique characteristic of civil engineering is the breadth and depth of its reach, as it touches on nearly all essential aspects of sustainable development. In this program, we talk about the importance of civil engineering as the foundation for a safe and sustainable society by introducing the diversity of its fields and how they play a role in improving people's everyday lives.

The poster is titled "安全でサステナブルな社会の土台をつくるには? 社会基盤学からの多様な視点" (How to create a safe and sustainable society? Multiple perspectives from social infrastructure studies). It features a green header with the event title in English: "The Role of Civil Engineering for a Safe and Sustainable Society - A diverse field for the diverse needs of the developed and developing world". The main body of the poster contains Japanese text explaining the importance of civil engineering in addressing environmental challenges and improving daily life. It includes a collage of images showing various civil engineering projects like bridges, dams, and water treatment facilities. At the bottom, there is a map of the venue, Hokkaido University Conference Hall, and contact information for the organizers.

安全でサステナブルな社会の土台をつくるには?
— 社会基盤学からの多様な視点 —
The Role of Civil Engineering for a Safe and Sustainable Society
— A diverse field for the diverse needs of the developed and developing world —

気候の急変、自然災害の激化、地球の一面をたどる天然資源、水や空気の汚染…わたしたち人類は地球規模で進む自然環境の変化に立ち向かわざるを得ない状況に置かれています。環境のあらゆる側面を工学的に扱う領域として「社会基盤学」があります。自然環境の変化がもたらす影響を予測すると共に、交通、安心、健康に人々が暮らす社会の土台を構築するための学問です。具体的には、水や大気、地盤、材料、構造設計、交通システムなどを対象とし、社会の持続可能な発展のために不可欠な要素を網羅しています。本プログラムでは、人々の日々の生活を支えるために本学周辺がどう貢献しているかについて紹介すると共に、サステイナビリティーの観点からどう進化しているか、また今後どこに向かうのかについて議論提供し、価値と認識をしたいと思います。

Societies around the world are faced with a growing number of environmental challenges, including rising temperatures, increasing frequency of natural disasters, depletion of natural resources, air and water pollution, and more. Civil engineering plays an important role in understanding the impacts of these environmental changes and providing the tools and infrastructure necessary for safe, resilient, and healthy development. One unique characteristic of civil engineering is the breadth and depth of its reach, as it touches on nearly all essential aspects of sustainable development. In this program, we talk about the importance of civil engineering as the foundation for a safe and sustainable society by introducing the diversity of its fields and how they play a role in improving people's everyday lives.

大学1年生に向けて分かりやすく、サステナビリティについてお話しします。お気軽にお越しください!

日時: 2014年11月8日 (土) 13:00~14:30 (途中入場可)
会場: 北海道大学 工学部 社会基盤学コース (旧工学部) (旧工学部)
申込: 不要 (随時参加可) (随時参加可)
料金: 無料
主催: 日本経
共催: 北海道大学 工学部 社会基盤学コース・国土政策学コース
講演者: Michael Henry, 内田雅弘, 山田誠人, 西村哲, 橋本謙文, 渡辺金太郎 (社会基盤学(国土政策学コース)), 後藤司 (日本サステナビリティ研究会)
URL: <http://sustain.hokudai.ac.jp/ww/2014/civileng/>

A Person in Charge	Assistant Professor Michael HENRY, Faculty of Engineering, Hokkaido University
Registration	Not required
Fees	Free
URL	http://www.eng.hokudai.ac.jp/edu/course/civileng/index.html

Report

Civil engineering is an academic discipline to predict the effects of natural environmental changes and to build the foundations of a society characterized by safety, security and health. This symposium was held to highlight how civil engineering contributes to the creation of a sustainable society.

The event began with a keynote lecture by Prof. Koji Sakai from the Japan Sustainability Institute, who has long engaged in research on the sustainable development of society. The lecture was followed by 10-minute lectures by seven young faculty members from the Course of Civil Engineering and the Course of Public Policy and Engineering in HU's Faculty of Engineering who engage in research in concrete engineering, geotechnical engineering, coastal engineering, hydrology and transportation planning studies. Their lectures focused on the relationships between their fields of specialization and the sustainability of society.

Sixty percent of attendees were undergraduate and graduate students, who listened to the lectures attentively while taking notes. Post-event feedback from attendees indicated a high level of satisfaction, with a number of comments stating that the event had been informative with easy-to-understand lectures covering various fields, and that the event had shown the importance of considering relationships with the environment, economy and society when students learn civil engineering. Meanwhile, numerous respondents suggested that the event should be publicized much more extensively, highlighting the need to improve how the event is promoted next year.

The organizer hopes to continue the event next year onward to promote civil engineering initiatives extensively among the general public since they contribute to developing an understanding of natural phenomena around us and building a sustainable society.



Student Project: 5th Sustainable Campus Contest – A Bridge to a Sustainable Tomorrow



Overview

Date	Sunday, November 9th, 2014 (Finished)
Organizer	SCSD(The Student Council for Sustainable Development in Hokkaido University)
Venue	Hokkaido University Conference Hall
Language:	Japanese
Intended Audience:	General public, College Students,
Outline	This event is an idea competition intended to make the Hokkaido University campus one of the world's most sustainable. The theme of the fifth contest will be A Natural Campus, and the event will extensively call on HU students as well as those at other universities and members of the public to submit ideas on how to maintain the natural environment of the HU campus and improve campus life. Implementation of the Grand Prix Award-winning idea will be supported by the Students Council for Sustainable Development (SCSD; an organization for environmental conservation).

Venue



A Person in Charge	Nobuaki Oyamada, SCSD (The Students Council for Sustainable Development in Hokkaido University)
Registration	Not required
Fees	Free
Contact	SCSD(The Student Council for Sustainable Development in Hokkaido University)
URL	http://scsdhome.web.fc2.com/

Report

The 5th Sustainable Campus Contest was held on November 9, with three HU student organizations – Arubora, Hokudai Hatake Club (HU Farming Club) and the Art Project to Reduce Paper Dust at HU – submitting project proposals to help to make the campus sustainable. The event showcased high-quality proposals as a result of the organizer holding the first interim report meeting of its kind for the contest about a month prior to the contest to fine-tune proposals through discussions featuring members of the Student Council for Sustainable Development (SCSD; the host of the contest), faculty members and the students who drafted the proposals.

After a close contest, the Hatake Club received the Grand Prize with its proposal to make the on-campus farm open to all HU undergraduate students. The factors behind the commendation were: 1) the provision of opportunities for students to give serious thought to food, which they tend to give no thought to, through their experiences on the farm; and 2) the proposal included support to be offered to students as well as ways to publicize project-related information. SCSD and the Hatake Club will implement the project and offer information on the status of implementation and other considerations on Facebook and through other media.

The organizer intends to continue its efforts to improve the contest's function as a platform to communicate student opinions to the university by enhancing the recognition of the event and creating an environment for students to feel comfortable participating in the contest.



Presentation by HU Farming Club



HU Farming Club won the prize

International Symposium: Environment, Health and Science Communication



Overview

Date	Monday, November 17th, 2014 Open: 13:00 Start: 13:30 End: 17:00 (Finished)
Organizer	Center for Environmental and Health Sciences
Co-host	Graduate School of Medicine, Faculty of Health Sciences,
Partners	Hokkaido Government, Sapporo City, Ministry of Environment, Government of Japan
Venue	Hokkaido University Conference Hall
Language: Japanese / English (simultaneous interpretation)	
Intended Audience: Researchers, General public, College Students,	
Outline	Environmental and ethical problems are always possible side effects of scientific development. To ensure that society as a whole recognizes and responds to such risks, it is essential to promote better understanding of science and technology. This event will feature discussions on challenges facing effective communication in these fields based on the theme of how environmental change affects health. Related examples from other countries will be featured. Chair persons Taro Yamauchi, Hokkaido University, Center for Environmental and Health Science & Faculty of Health Sciences Shunitz Tanaka, Hokkaido University, Faculty of Environmental Earth Science & Center for Environmental and Health Sciences Presentations & Panel discussion 1."Brief Introduction to Science Communication:Three Essential Viewpoints in Discussing it" Naoyuki Mikami, Hokkaido University, Institute for the Advancement of Higher Education & Center for Environmental and Health Sciences 2."The Risk Communication Strategies to Make Children and More Healthy in Korea"

Jonghan Leem, Department of Occupational & Environmental Medicine, Inha University, Korea

3."Aiming to Improve the Everybody Environment of Hokkaido Citizens-Utilizing the Results of the Hokkaido Study"

Sachiko Ito, Hokkaido University, Center for Environmental and Health Sciences

4."The Science of Communicating About Science: Why Acceptance of the HPV Vaccine Differs in the UK, Australia and Japan"

Sharon J. J. Hanley, Hokkaido University, Center for Environmental and Health Sciences & School of Medicine

5."How the Results of Healthcare Research are Communicated to the Public~From the Perspective of Citizens and Journalists"

Sumiko Oshima, Department of Psychology and Applied Communication, school of Humanities, Hokusei Gakuen University

Venue



A Person in Charge	Prof. Reiko Kishi, Center for Environmental and Health Sciences(CEHS), Hokkaido University
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Registration	Required: Via website
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Fees	Free
Contact	Center for Environmental and Health Sciences Atsuko Araki, Mimi Takahashi E-mail: Aaraki@cehs.hokudai.ac.jp, mtakahashi@cehs.hokudai.ac.jp

Report

Held with the theme of Environment, Health and Communication, this symposium featured presentations on the impacts of recent environmental changes on health, particularly children's health, to provide an opportunity to discuss and share in-depth knowledge of challenges in education and science communication toward the development of a sustainable society. Besides focusing on Japan, examples from other countries were also discussed.

The event began with a presentation by Associate Professor Naoyuki Mikami of HU's Institute for the Advancement of Higher Education with the title of Brief Introduction to Science Communication: Three Essential Viewpoints in Discussing it. He detailed the reasons for the need of communication for people living in a society where risks are present, and outlined diverse objectives of communication and the need for stakeholders to participate in communication. Professor Jonghan Leem of Inha University then highlighted children's health issues and risk communication in Korea with the title of The Risk Communication Strategies to Make Children and Society More Healthy in Korea. Continuing the topic of studies on children, Specially Appointed Assistant Professor Sachiko Ito of HU's Center for Environmental and Health Sciences outlined the Hokkaido Study on the Environment and Children's Health concerning the impacts of exposure to environmental chemicals and how the results should be communicated to local communities with the title of Aiming to Improve the Everybody Environment of Hokkaido Citizens – Utilizing the Results of the Hokkaido Study. Specially Appointed Assistant Professor Sharon J. B. Hanley of HU's Graduate School of Medicine then outlined examples of the education, awareness raising and risk communication programs implemented by the U.K. government when it introduced a cervical cancer vaccination with the title of the Science of Communicating about Science: Why Acceptance of the HPV Vaccine Differs in the UK, Australia and Japan. The last presentation was delivered by Professor Sumiko Oshima of Hokusei Gakuen University under the title of How the Results of Healthcare Research are Communicated to the Public – From the Perspective of Citizens and Journalists. She illustrated the importance and methods for citizens and the media to share a common understanding of the information scientists communicate.

The panel discussion that followed was co-chaired by Professor Taro Yamauchi of HU's Faculty of Health Sciences and Professor Shunitz Tanaka of HU's Faculty of Environmental Earth Science. It involved discussions among the co-chairs and the above speakers, and also included questions and opinions from the audience. The four science communication

strategies discussed in Prof. Leem's presentation were informative with regards to the communication of research results. These were 1. the establishment of scientific evidence, 2. honest and open information disclosure, 3. the need for public participation as policy-making collaborators, and 4. the sharing of public concerns. The symposium ended with a speech by Dr. Reiko Kishi, the Deputy Director of the Hokkaido University Center for Environmental and Health Sciences and the head of the Hokkaido Study. She stressed her ongoing efforts to maintain communication with the participants of the study and the significance of contributing to the world using the data on Hokkaido.

Post-event feedback from attendees indicated that the event had provided fresh perspectives, offered a meaningful opportunity to learn about the overseas state of affairs and given a chance to learn about researchers' efforts to communicate with members of the public. Accordingly, the symposium provided opportunities for the organizer to reaffirm the significance of continuing a forum for discussion on science communication.



A lecture by Associate Prof. Mikami



A panel discussion

HURNAC Symposium: Research Activities in Africa

– Interdisciplinary network of Africa researchers –



Overview

Date	Tuesday, November 18th, 2014 Open: 15:00 Start: 15:30 End: 17:30 (Finished)
Organizer	Hokkaido University Research Network with African Countries (HURNAC)
Co-host	Hokkaido Branch, Japan Association for African Studies (2nd Meeting)
Venue	A101, Faculty of Engineering, Hokkaido University
Language: Japanese	
Intended Audience: General public, College Students,	
Outline	How to achieve the sustainable society in Africa, where now rapidly developing area, is hot future topic. On the other hand, Africa still have many issues to be solved, such as poverty, politics, environment etc, and these issues are closely related each other. Interdisciplinary approach seems necessary for developing sustainable society in Africa. HURNAC has been established in 2012 April, and wide variety of researchers in Hokkaido University are now making network for African research and challenging to issues in African. In this event, HURNAC researchers will present their each own research from various point of view.
A Person in Charge	Assistant Professor Ken Ushijima, Faculty of Engineering, Hokkaido University
Registration	Not required
Fees	Free
Contact	Faculty of Engineering, Hokkaido University Ken Ushijima mail: uken@eng.hokudai.ac.jp
URL	http://aa.vetmed.hokudai.ac.jp/africa/

Report

As a continent on the verge of significant development, Africa faces a myriad of complex intertwining problems encompassing the areas of poverty, politics, the environment and other fields. Accordingly, discussions on related sustainability issues require an interdisciplinary approach. In response, HU researchers studying the region established the Hokkaido University Research Network with African Countries (HURNAC) in April 2012. The researchers, who have expertise in varied fields, are committed to tackling intractable African problems through the network. This symposium, inaugurated in 2013, was co-hosted for the first time by the Hokkaido Branch of the Japan Association for African Studies this year thanks to the realization of collaboration between HURNAC and the branch.

As with last year, the second symposium featured presentations by HURNAC members from the Center for Advanced Tourism Studies, the Graduate School of Economics and Business Administration, the Graduate School of Health Sciences and the Graduate School of Veterinary Medicine on their respective activities in Africa. Attendees were able to follow the technical content of the presentations because the information was delivered in simple terms. The event attracted 25 people consisting of 15 (incl. seven students) from HU, seven locals and one government employee. The event provided a valuable opportunity to engage in probing discussions as in regular HURNAC meetings in a relaxed atmosphere with the attendance of the general public. Post-event feedback from attendees (valid responses: 21) indicated a high level of satisfaction, with 10 respondents saying Yes, definitely and 11 choosing Yes, I think so to the question on whether the event would be beneficial for their future activities. The major achievements of the event included a presentation by a Congolese student from the Graduate School of Economics and Business Administration, which was in response to last year's feedback from several attendees that it would be a good idea to include presentations by people who were actually from Africa (e.g., international students).

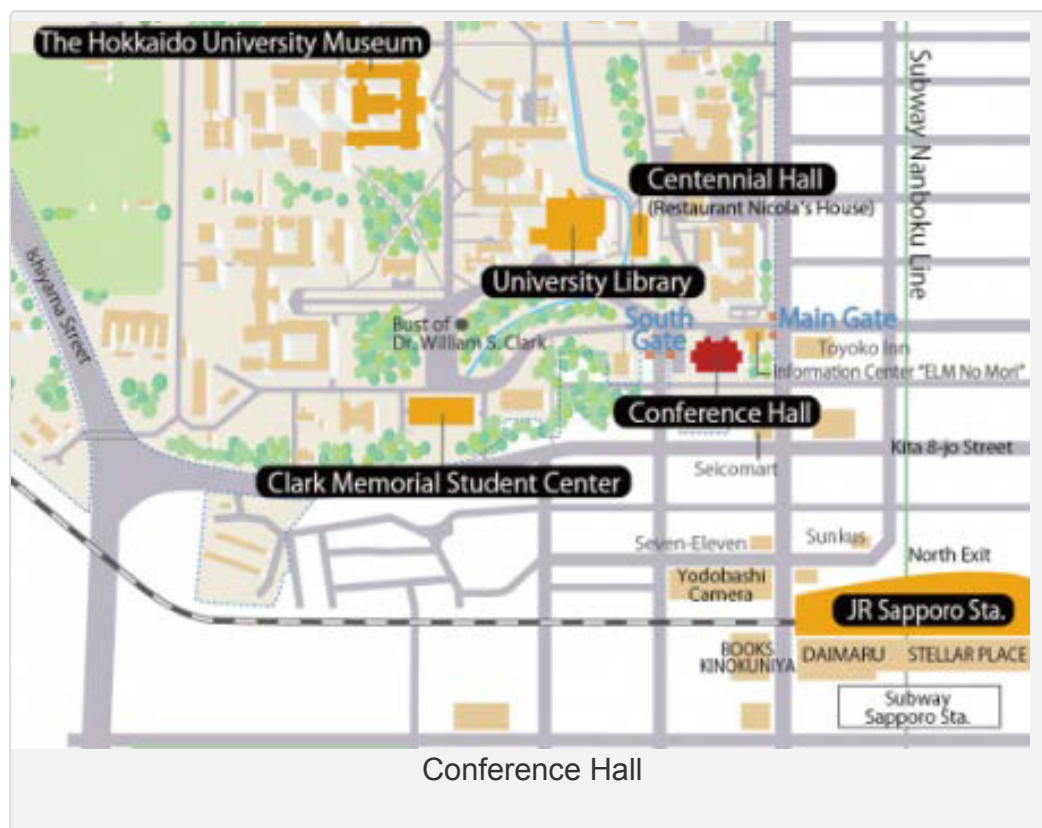
The organizer will continue its efforts to promote HURNAC initiatives on campus and elsewhere through events like this.



A lecture by Prof. Nishiyama

※Please use public transport to travel to the venue for the Symposium.

Venue



A Person in Charge	Manager Takashi Yokoyama, Office for Sustainable Campus, Hokkaido University
Registration	Required
Fees	Free
Contact	Office for Sustainable Campus E-mail:osc[at]osc.hokudai.ac.jp
URL	http://www.osc.hokudai.ac.jp/

Report

This symposium was held on the theme Philosophy and Implementation of Sustainable Campuses – How can universities interact with society?

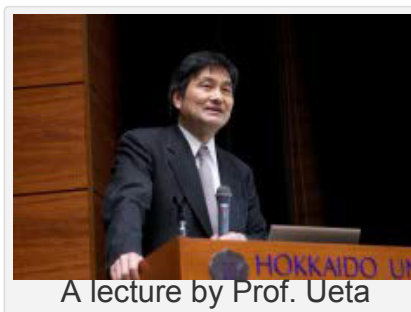
Professor Kazuhiro Ueta of Kyoto University's Graduate School of Economics underlined the role of universities as platforms for human development in his opening keynote speech for the symposium. In particular, he highlighted the need for social learning, including collaboration with local communities, in the development of future leaders for a sustainable society, and the need for conventional university campuses to change accordingly as platforms for such learning.

The next keynote speech by Dr. Ariane König from the University of Luxembourg covered how such a change had taken place in a university outside Japan with specific examples. She spoke about University of Luxembourg educational programs focusing on local issues as part of the institution's human development efforts. One example involved examination of a business model for solar power generation associations by students.

In the panel discussion that followed, the keynote speakers were joined by Mr. Masayuki Mori, the Director of the Office for Facilities Planning within the Planning Division of the Department of Facilities Planning and Administration at the Minister's Secretariat of Japan's Ministry of Education, Culture, Sports, Science and Technology; Mr. Noriaki Ikushima, the Vice Mayor of the City of Sapporo; and Prof. Hiroshi Yoshimi, the Dean of HU's Graduate School of Economics and Business Administration. The panelists discussed how university campuses could be used for collaboration with local communities as well as the related potential of the campuses. The subjects covered included planning methods employed for the University of British Columbia's Center for Interactive Research on Sustainability (CIRS) and the University of Luxembourg's new campus in Belval as examples of campus planning and development outside Japan. The discussions also highlighted the possibility that such examples, in which various stakeholders are involved in plan improvement, will bring new perspectives to campus planning and development in Japan.



A lecture by Dr. König



A lecture by Prof. Ueta



All of the speakers

A Method for a New Agricultural Production: France-Japan Exchange of Ecological Agriculture



Overview

Date	Wednesday, 10th December, 2014 / Start: 14:00 End: 16:30 (Finished)
Organizer	Institut Français du Japon/Alliance Française de Sapporo
Co-host	Graduate School of Agriculture, Hokkaido University; Office of International Affairs, Hokkaido University
Venue	Seminar Hall, 4F, Research Faculty of Agriculture, HU
Language: Japanese / French (simultaneous interpretation)	
Intended Audience: Researchers, General public, College Students,	
Outline	Climate change and other global environmental transformations have necessitated the evolution of agricultural production processes, making it more important than ever to consider agricultural systems that are environmentally friendly, economically competitive and locally appropriate. This event will highlight prime examples from Japan and France and feature discussions from various viewpoints, including those of the public, experts and university staff. Registration==>>>Here [Coordinator] * Mikako Hayashi, Visiting Professor, Research Faculty of Agriculture, Hokkaido University; Project Professor, Keio University [Facilitator] * Yoshitaka Uchida, Assistant Professor, Research Faculty of Agriculture, Hokkaido University [Panelists] * Eric Giry, Head of Agri Strategy and Sustainable Development, Ministry of Agriculture, France * Hainzellin Etienne, Visiting professor, Faculty of Social Sciences, School of International Development and Global Studies * Eiji Kotani, President, Farmage Inc. * Mikio Maeda, Vice President, Tokachi District, JA Youth Hokkaido

* Tomohiro Mitani, Assistant Professor, Research Faculty of Agriculture, Hokkaido University

* Tokuji Hisada, Visiting Professor, Research Faculty of Agriculture, Hokkaido University; Hokkaido Shimbun Press

北海道大学サステナビリティ・ウィーク2014
公開討論会
「新しい農業生産のやり方 — エコロジー農業の日仏交流」

気候変動を始めとする地球環境の変化は、農業生産のプロセスに決定的な変化をもたらしています。地域の特性に適し、環境に配慮しつつ、経済的に競争力を持つ農業システムとは、どのようなものでしょうか。フランスと北海道における優れた事例にあたり、共に考え、議論しましょう。

日時：12月10日(水)14:00-16:30
会場：北海道大学農学部4階大講堂
入場無料／要予約／同時通訳付

【参加申し込み】
北海道大学サステナビリティ・ウィーク <http://sustainability.hokudai.ac.jp/en/application>
札幌アジェンダ/フランス・サランセーズ (011-201-2771)

【司会】
林 美香子 (北海道大学大学院農学研究院客員教授、鹿野農科大学特任教授)

【ファシリテーター】
内田 義崇 (北海道大学大学院農学研究院准教授)

【パネリスト】
エディエンス・アンズラン (農業開発研究国際協力センター所長顧問、オタワ大学客員教授)
エリック・ジリ (農業・食料加工政策及び国土開発産業加工戦略及び持続可能な発展部部長)
小谷 栄二 (ファーム・エイジ株式会社代表取締役)
例多 幹大 (北海道千歳地区農協青年部協議会会長)
三谷 朋弘 (北海道大学農学研究院フィールド科学センター学術研究員)
久田 健二 (北海道大学大学院農学研究院客員教授、北海道新聞)

主催：札幌日仏協会/アジェンダ・フランス・サランセーズ札幌、フランス大使館、フランス・デュ・ポワシヨ・日本、北海道大学農学研究院・国際本部

Registration Required: Via [website](#) by Tuesday, 9th December.

Fees Free

Contact ALLIANCE FRANÇAISE DE SAPPORO

Contact: Hiraoka

E-mail: [bureau\[at\]afsapporo.jp](mailto:bureau[at]afsapporo.jp)

(Please change [at] into @)

Report

The open forum reported here was held as a platform for wide-ranging discussions on current and future ecological agriculture from political and practical viewpoints. With front-line agricultural leaders from France and Japan's Hokkaido region as panelists, the event was attended by 155 people including researchers, farmers, members of the general public and students.

The invited panelists from France were Etienne Hainzellan (an agriculturist who has researched various changes in farming environments and other issues in more than 40 countries) and Eric Giry (a supervisor in sustainable agricultural practices at the General Directorate of Agricultural Policy, Agribusiness and Territories). Other panelists from Japan included Eiji Kotani (the president of Farmage Ltd. and a long-time operator in business to introduce low-cost farming techniques from New Zealand, such as innovative grazing systems involving the use of electric fences), Mikio Maeda (a dry-field farmer and vice-president of the JA Youth Hokkaido Tokachi District), Tokuji Hisada (a visiting professor at the Research Faculty of Agriculture) and Tomohiro Mitani (a research fellow at the Field Science Center for Northern Biosphere).

The panel discussion was opened and presided over by Visiting Professor Mikako Hayashi (Research Faculty of Agriculture) and facilitated by Assistant Professor Yoshitaka Uchida (Research Faculty of Agriculture).

Subjects of the discussion session included a definition of ecological agriculture (a new concept for agricultural production itself rather than a single agricultural technique), political measures and the public awareness necessary to promote such agriculture.

The major themes were (1) Agriculture and Ecology in Japan and France; (2) Examples of New Approaches; and (3) Effective Public Policies.

In theme (1), ecological agriculture was defined as a new concept for agricultural production itself rather than a single agricultural technique, and other related issues were discussed. In theme (2), efforts in the area of ecological agriculture and the effective utilization of animal waste in Japan were discussed. In theme (3), political measures effective for individual farmers and farming groups in France were discussed along with consumer education and other subjects.

In the closing Q&A session, a variety of questions were asked from the floor until the end of the allotted time. Attendees also engaged the panelists in private conversation after the event, and exchanges continued for a while.

Schedule

Welcome remarks: Mitsuru Osaki, Professor, Research Faculty of Agriculture, Hokkaido University (event representative)

Opening remarks: Nicolas Berthollet, Deputy Agricultural Counsellor, Embassy of France

Introduction: Mikako Hayashi, Visiting Professor, Research Faculty of Agriculture, Hokkaido University

Panelist Speeches (5 min/person)

- Eric Giry, Head of Agri Strategy and Sustainable Development, Ministry of Agriculture, France
- Etienne Hainzellin, Visiting Professor, Faculty of Social Science, School of International Development and Global Studies, University of Ottawa
- Eiji Kotani, President, Farmage Ltd.
- Mikio Maeda, Vice-President, Tokachi District, JA Youth Hokkaido
- Tomohiro Mitani, Research Fellow, Field Science Center for Northern Biosphere

Discussion:

- Facilitator: Yoshitaka Uchida, Assistant Professor, Research Faculty of Agriculture, Hokkaido University
- MC support: Mikako Hayashi

Q&A Session

Closing Remarks: Yoshitaka Uchida



A question-and-answer session



All of the participants

Russian-Japan Education Program Development: Sustainable Development in the Russian Far East & the Arctic Region



Overview

Date	Friday, December 19, 2014 Start: 13:00 End: 17:15 (Finished)
Organizer	RJE3 Consortium International Steering Committee Central Office
Partners	Hokkaido Prefecture, Sapporo City, Sapporo City Board of Education, Hokkaido University
Venue	Frontier Research in Applied Sciences Building, Hokkaido University

Language: Japanese & Russian

Intended Audience: Researchers, General public, College Students,

Outline With a track record of achievements based on decades of collaborative research, Hokkaido University and Russian universities work closely together on the formulation of educational programs that will produce experts capable of playing leading roles in environmental sustainability, culture and development in the Far East and the Arctic Circle. This event will feature discussions on ideal programs integrating humanities and sciences that provide students with expertise while developing comprehensive knowledge in the fields of environmental assessment, cultural diversity, soil and productivity, regional resource development and disaster prevention management.

北海道大学
サステナビリティ・ウィーク 2014

大学の世界展開力強化事業
RJE3シンポジウム

日露共同で行なう教育プログラム開発プログラム

極東・北極圏における
持続的発展を未来へつなぐ

RJE3とは?

極東・北極圏を研究対象として、大学がロシア
の大学と共同で、環境・文化・経済・社会
の分野において、持続可能な発展を目指す
教育・研究・交流のプログラムです。極東ロ
シアの最東の大学と北海道大学の最東大
学、北海道大学とロシアの最東大、道東
部の大学とで構成される国際的連携を
通じて、ロシア・ロシア、"East Russia-Japan
Regional Education Consortium" (以下
RJE3)という組織を形成し、極東・北
極圏の発展と持続可能な発展・交流・協力を進
め、持続可能な発展を目指すものです。

開催日: 2014年12月19日(金)
13:00~17:15 (開場/11:30)

会場: 北海道大学フロンティア応用科学研究棟
レクチャーホール

参加申し込みはウェブサイトから行えます。参加費は12月18日(木)まで。
事前に参加人数を把握するため、
できるだけこちらからお申し込みいただければ幸いです。
旅行直建会等にお越しいただいても結構です

● 主催: 北海道大学 ● 共催: 北海道、北海道教育委員会、札幌市、札幌市教育委員会

| プ ロ グ ラ ム |

■ ご挨拶 13:00	北海道大学 校長 山口 佳三	
■ 基調講演 1 13:05~13:35	「福東・北福東の持続可能な環境・文化・開発を導く」 専門家育成プログラム (East Russia-Japan Expert Education Program (RJE3 program)) 北海道大学助学員・RJE3プログラム事務局運営生 望月 恒子	
■ 基調講演 2 13:40~14:10	「ロシア太平洋地域:基調的視点で見た開発、 国際化のための地理学的・地政学的な強みと課題」 ロシア科学アカデミー極東支隊太平洋地域学研究所 バクラーノフ、ビョートル・ヤコヴレヴィチ	
■ パネルディスカッション 14:20~17:15 途中10分の休憩あり	【第一部】 RJE3に関係するパネリスト5名が、シンポジウムテーマについて「行政・産業界の交流の現状と実像」「大学交流を通じて人材育成」の観点から、各人15分程度のコメント。 【第二部】 北に留学中(留学予定)のロシア人学生2名及びロシアに留学経験がある(留学予定の)北大在米人学生2名による簡単な研究紹介と、パネリストとの対談。 〈司会〉 北海道大学 アイス・劣性部研究センター 加藤 博文 教授 パネリスト 北海道庁 経済開発部次長 山崎 誠二 部長 北海道銀行 国際部ロシア室 中川 文雄 副室長 赤十字ハルビン科代表部 クトヴォイ、アンドレイ 代表 北海道大学 工学研究部 藤戸 剛 教授 北海道大学 プリシバズニ、ミハイル 助学員 増田 直 (北海道大学大学院工学部・助学員・修士・修業年限2年) 増田 真由子 (北海道大学大学院文学研究科・日本史 修士課程1年) パンコフ、オレグ (北海道大学大学院国際広域メディア・観光学専攻: 国際マーケティング 研究生、サハリン国立大学出身) ラザレフ、アニシア (北海道大学大学院工学研究科・建設 修士2年修了)	

A Person in Charge Prof. Atsuko Sugimoto, Graduate School of Environmental Science

Registration Required: Via [website](https://www.rje3-oia.hokudai.ac.jp/) during 17 November to 18 December.

Fees Free

Contact RJE3 Consortium
Email: RJE-3@oia.hokudai.ac.jp

Report

The subject of this symposium was HU's East Russian-Japan Expert Education Program (also known as the RJE3 Program), which was selected for the 2014 Re-Inventing Japan Project of the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

The event was attended by 90 people, including 15 presidents, vice presidents, faculty members and other individuals from five universities in Russia with which HU collaborates under the RJE3 Program (Far Eastern Federal University, North-Eastern Federal University, Irkutsk State University, Sakhalin State University and Pacific National University).

The symposium's opening address was given by HU President Keizo Yamaguchi, and was followed by keynote speeches from HU Vice President and RJE3 Program Supervisor Tsuneko Mochizuki and Peter Y. A. Baklanov, the Director of the Pacific Institute of Geography at the Far East Branch of the Russian Academy of Sciences, which has long engaged in joint studies with HU. Ms. Mochizuki gave an outline of the RJE3 Program, including its vision and system for human resource development and its relationships with HU's strategies. Mr. Baklanov gave a presentation titled Pacific Russia: Geographic and Geopolitical Factors for Long-term Development and International Cooperation on the potential of regions covered by the program and related challenges based on a variety of data sources.

The subsequent Panel Discussion Part 1 featured representatives of academic, industrial and economic circles in Japan and Russia who support the concept of the RJE3 Program. These were Toshihiro Kodama, the Executive Director of the Office of International Business within the Department of Economic Affairs' Bureau of Business Support under the Hokkaido Government; Fumitoshi Nakagawa, the Senior Manager of the International Department's Russian Sector at Hokkaido Bank; Andrey Kutovoy, the Head of Sakhalin Region Representative Office in Hokkaido; Mikhail Prisyazhniy, the Vice President of North-Eastern Federal University; and Tsuyoshi Setoguchi, a professor at HU's Faculty of Engineering. The panelists shared information on their careers and outlined expectations for the RJE3 Program and related potential.

Panel Discussion Part 2 was attended by Japanese and Russian students engaging in research under the RJE3 Program. These were Ren Iwanami (second year, doctoral degree program, zooarchaeology, Graduate School of Science, Hokkaido University); Mayuko Iwabuchi (first year, master's degree program, Japanese history, Graduate School of Letters, Hokkaido University); Pankov Oleg (research student, medical tourism, Graduate School of International Media, Communication and Tourism Studies, Hokkaido University; originally from Sakhalin State University); and Anisiia Lazareva (equivalent to second year, master's degree program, economics, Graduate School of Economics, North-Eastern Federal University). After introducing themselves, the panelists engaged in lively conversation involving audience members, discussing the requirements for RJE3 Program graduates as well as past exchanges and future prospects. Questions and requests from student perspectives were also discussed.

The organizer and related parties have begun preparations for trial Basic Courses to be offered at HU in March 2015.



The speakers and the organizers



Opening address by President Yamaguchi

Indigenous Heritage and Tourism: Constructing Cultural Landscape and Indigenous Heritage Issues



Overview

Date	Saturday, December 20- Sunday, December 21, 2014 (Finished)
Organizer	Center for Ainu and Indigenous Studies, Hokkaido University
Co-host	Center for Advanced Tourism Studies, Hokkaido University
Partners	WAC-Japan (Bid Committee for 8th World Archaeological Congress in Kyoto)
Venue	Hokkaido University Conference Hall
Language: Japanese / English (consecutive interpretation)	
Intended Audience: Researchers, General public, College Students,	
Outline	This symposium will highlight landscape usage in indigenous communities with discussions referencing examples from around the world. Research is currently under way to clarify the nature of indigenous cultural heritage with foundations in the active use of the natural environment. The event will examine the characteristics of indigenous cultural heritage resources, effective methods for related management, and inheritance by future generations with cultural landscapes as a key concept. Participants will also have opportunities to consider how these viewpoints on indigenous heritage can be incorporated into educational programs.

[Symposium Poster](#)

Program

December 20th, Sat. 1:00PM-5:00PM

Dr. Neil Price (Uppsala University Institution for Archaeology, Sweden)

Dr. Carl-Gosta Ojala (Uppsala University Institution for Archaeology, Sweden)

Mr. Tetsuhiro Tomoda (Asahikawa City Museum)

Mr. Hideki Yoshihara (Biratori town Ainu Policy Promotion division)

December 21st, Sun. 10:00AM-4:00PM

Dr. Rick Knecht (University of Aberdeen Department of Archaeology, Scotland)

Dr. Sven D. Haakanson (University of Washington Department of Anthropology, USA)

Ms. Tomoe Yawata (Ainu Museum)

Venue



Conference Hall

A Person in Charge	Prof. Hirofumi Kato, Center for Ainu & Indigenous Studies, Hokkaido University
Registration	Not required
Fees	Free
Contact	Center for Ainu and Indigenous Studies Okada Mayumi mail: m-okada[at]let.hokudai.ac.jp

Report

This international symposium has been held under the title Indigenous Heritage and Tourism since 2012, and the subtitle for this year's gathering was Cultural Landscape and Indigenous Heritage Issues.

The event served as a platform for wide-ranging discussions on landscape use in indigenous communities (a subject that has recently attracted attention in a sustainable resource management context) with reference to examples from Sweden, the Pacific north-west of the US, Biratori, Asahikawa and Shiraoi. Symposium participants also examined, in relation to tourism and community revitalization, the characteristics of indigenous cultural heritage, ideal ways of preserving and managing such heritage resources, and the potential for their use as local resources.

The speakers were university researchers studying indigenous cultural landscapes or the archaeology of indigenous peoples in their own countries and elsewhere, museum representatives and government officials involved in work on buried cultural properties.

One of two researchers from Sweden's Uppsala University spoke about the Sami people and archaeology, and the other outlined how archeological sites can help to reveal how landscapes were used by indigenous people. Speakers from the University of Washington's Burke Museum of Natural History and Culture and the University of Aberdeen outlined museum activities involving Native American archaeological finds from the Pacific north-west of the US and other artifacts.

Government officials involved with buried cultural properties from Asahikawa and Biratori shared examples from Hokkaido with focus on how local Ainu cultural resources have been rediscovered and preserved. A curator from the Ainu Museum in Shiraoi discussed the oral tradition of Ainu people in relation to Shiraoi landscapes and outlined museum activities intended to help preserve Ainu culture, which has thrived based on its close relationships with nature.

A panel discussion involving all speakers at the end of the event affirmed the importance of considering, as current and future issues, forms of landscape and natural environment usage that characterize the cultural heritage of the Ainu and other indigenous peoples.



A Lecture by Prof. Price



A panel discussion

3. Symposium Report

Hokkaido University
5th International ESD Symposium
Strategic ESD in the Next Generation
Report

北海道大学
第5回 ESD国際シンポジウム
次世代のESD戦略
報告書

Saturday, October 25, 2014
Sapporo, Japan
Hokkaido University Conference Hall



Hokkaido University Sustainability Weeks 2014
北海道大学 サステナビリティ・ウィーク2014

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Preface

This report summarizes the discussions held at the 5th International ESD Symposium on Strategic ESD in the Next Generation on October 25, 2014. The symposium featured representatives from Hokkaido University's Faculty of Education, Faculty of Environmental Earth Science and Office of International Affairs, Korea University and Seoul National University (both in Republic of Korea), Chulalongkorn University in Thailand, Beijing Normal University in China, the Environmental Partnership Office Hokkaido within Japan's Ministry of the Environment, the Department of Environmental and Symbiotic Sciences within Rakuno Gakuen University's College of Agriculture, Food and Environment Sciences, and the Hokkaido University ESD Student Forum Organizing Committee.

The symposium was held in the final year of the UN Decade of Education for Sustainable Development (DESD) to provide a platform for a review of 10 years of ESD promotion and discussions on the future of education. The event attracted a total of 165 attendees consisting of 97 audience members and 68 online viewers of the Plenary Session broadcast live on the Internet.

The symposium organizer hopes that the report will help people who were not present to share in the discussions held at the event, and that this will support accurate assessment for the current situation of ESD promotion in Hokkaido and Asia as well as future ESD prospects.

はじめに

本報告書は北海道大学大学院教育学研究院、地球環境科学研究院、国際本部、韓国・高麗大学校、同・ソウル大学校、タイ・チュラロンコン大学、中国・北京師範大学、環境省北海道パートナーシップオフィス、酪農学園大学農食環境学群環境共生学類、ESD 学生フォーラム実行委員会によって平成 26 年 10 月 25 日に開催された第 5 回 ESD 国際シンポジウム「次世代の ESD 戦略」での議論内容をまとめたものです。

本シンポジウムは国連「持続可能な開発のための教育の 10 年 (Decade of Education for Sustainable Development: DESD)」が最終年を迎えるにあたり、ESD 推進の 10 年間を振り返り、教育の未来を議論するべく開催され、来場参加 97 名と、インターネットによって生中継された全体会へのオンライン参加 68 名の合計 165 名の参加がありました。

当該シンポジウムでの議論内容を共有し、参加ができなかった方々にも、北海道およびアジア地域における ESD 推進の現状理解と将来展望の一助として本報告書を活用いただければ幸いです。

13:00- Plenary Session (languages: Japanese and English with simultaneous interpretation)

13:00 Opening Address, Symposium Background

Ichiro Uyeda

Executive and Vice President, Hokkaido University

Chairperson, the Committee for Sustainability Weeks 2014

Toru Onai

Dean, Faculty of Education, Hokkaido University

13:10 Keynote Speech 1: Reflections on the United Nation Decade of ESD

Mario T. Tabucanon

Visiting Professor

United Nations University Institute for the Advanced Study of Sustainability

14:00 Keynote Speech 2: Future Prospects for ESD

Yong Jin Hahn

Dean, Faculty of Education, Korea University

14:45 Keynote Speech 3: Reconstruction of ESD

Akito Kawaguchi

Professor, Faculty of Education, Hokkaido University

15:30 Coffee Break

16:00- Parallel Session

1) Outcomes and Prospects of ESD Campus Asia (language: English)

Co-host Korea University (Republic of Korea), Seoul National University (Republic of Korea),
Chulalongkorn University (Thailand), Beijing Normal University (China), Hokkaido University

2) Hokkaido UNESCO School Colloquium (language: Japanese)

Host Faculty of Education, Hokkaido University

3) ESD Student Forum (languages: Japanese and English with simultaneous interpretation)

Host Hokkaido University ESD Student Forum Organizing Committee

4) ESD based on Society-University Collaboration (language: Japanese)

Co-host Ministry of the Environment's Environmental Partnership Office Hokkaido,
Faculty of Environmental Earth Science, Hokkaido University,
Rakuno Gakuen University College of Agriculture, Food and Environmental Sciences

18:00 -18:30 Wrap-up Session (languages: Japanese and English with simultaneous interpretation)

13:00～ 全体会（言語：日英同時通訳）

13:00 開催挨拶／趣旨説明

上田一郎（北海道大学 理事・副学長／サステナビリティ・ウィーク2014実行委員長）

小内透（北海道大学 教育学研究院長）

13:10 基調講演: ESD10年の総括

マリオ タブカノン（国際連合大学高等研究所 客員教授）

14:00 主題講演1: ESDの将来展望

韓 龍震（高麗大学校 師範大学長）

14:45 主題講演2: ESDの再構築

河口 明人（北海道大学教育学研究院 教授）

15:30 コーヒーブレイク

16:00～ 分科会

① ESD Campus Asiaの成果と展望（言語：英語）

共催 高麗大学校（韓国）、ソウル大学校（韓国）、チュラロンコン大学（タイ）、北京師範大学（中国）、北海道大学

② 北海道UNESCOスクール・コロキウム（言語：日本語）

主催 北海道大学教育学研究院

③ ESD学生フォーラム（言語：日英同時通訳）

主催 北海道大学 ESD学生フォーラム実行委員会

④ 大学と地域社会が協力するESD（言語：日本語）

共催 環境省北海道環境パートナーシップオフィス、北海道大学地球環境科学研究院、酪農学園大学農食環境学群環境共生学類

18:00～18:30 総括（言語：日英同時通訳）

Report of Plenary Session

By Akito Kawaguchi, Professor, Faculty of Education, Hokkaido University

5th International ESD Symposium: Strategic ESD in the Next Generation

Amid the ongoing globalization of environmental, social and economic sustainability issues and in the final year of the UN Decade of Education for Sustainable Development (DESD), attendees of the 5th International ESD Symposium summarized the DESD and discussed future ESD prospects prior to the UNESCO World Conference on ESD scheduled to take place later in the year.

Visiting Professor Tabucanon of the United Nations University Institute for the Advanced Study of Sustainability, who has played an essential role in the DESD campaign, gave a presentation titled Reflections on the United Nations Decade of ESD. He highlighted how the DESD has provided numerous outstanding examples and programs of community-based ESD, enhanced public recognition of SD, and steadily improved environments surrounding ESD. He also underlined the significance of the Promotion of Sustainability in Postgraduate Education and Research Network (ProSPER.Net), in which HU has played a leading role, in efforts to strengthen global ESD networks. UNESCO's Global Action Programme on ESD was highlighted as a future priority along with the need to strengthen environmental learning, educator capacity, the authority of young people, community activities and other areas.

Speaking on the theme of Future Prospects for ESD, Prof. Yong Jin Hahn (Dean of the Graduate School of Education at Korea University) outlined Foundationism as a concept by which character is built through efforts to harmonize tradition with reform. The presentation was based on his critical analysis of today's situation, in which growth is observed in a variety of social gaps. He also stressed that the ESD's aim of further harmonization for the freedom of those involved, social order and the consciousness of historical time will serve as guidelines in the shaping of tomorrow's society and education.

The last keynote speech was given by Prof. Kawaguchi of HU, who has been involved in the implementation of the ESD Campus Asia Project along with other leading universities in Asia. Under the theme of Reconstruction of ESD, he stressed the importance of cultivating broad-thinking ability to overcome areas where short-sightedness affects individual branches of science and developing the capability to systematize enormous amounts of scientific knowledge as a focus of ESD in the next generation. This approach is intended to help people examine and critically assimilate modernist concepts that control the behavior of people today, such as individualism, economic rationalism and scientific rationalism, in consideration of points for the improvement of educational institutions in their role as providers of individuals capable of supporting sustainability crisis resolution.

All speakers commonly viewed ESD as a form of education that encourages students to consider global issues regardless of national interests as global citizens and global human resources. The presenters also shared the opinion that ESD will represent a continuous type of educational reform that is increasingly required worldwide in the mainstream of education to ensure sound sustainability.



全体会の報告

報告者：北海道大学大学院教育学研究院教授 河口 明人

第5回 ESD国際シンポジウム：次世代のESD戦略

持続性にかかわる環境、社会、経済的諸課題がますますグローバル化する中、国連のDESDが最終年を迎えるに際し、本国際シンポジウムは、ユネスコ世界会議に先立って、この10年のDESDの総括と、今後のESDの展望について議論した。

DESDに重要な役割を果たしてきた国連大学のTabucanon教授は「DESDの10年の総括」として、DESDが地域に根ざした多くの優れたESD実践例やプログラムを提供してきたこと、SDへの周知とESDへの環境整備が着実に進んだこと、さらに北大が主導的役割を果たすProSPER.Netが世界的レベルでのネットワークの強化に果たした意義を総括した。その上に立って今後の活動としてユネスコが掲げるグローバルアクションプログラム(GAP)の政策、環境学習、教育者の力量、若者の権限、地域活動などの一連の強化が、優先事項として紹介された。

高麗大学校・師範大学長の韓教授は「持続可能発展教育の展望」と題して、多様な社会格差が拡大する現状の批判的分析を基に、伝統と改革の調和によって新たな人間形成を目指す「基礎主義」を紹介しながら、主体の自由、秩序ある社会、歴史的時間意識の一層の調和を目指すESDが次世代の社会形成と教育の指針であることを説明した。

最後にアジアの有力大学とともにESDキャンパスアジアプロジェクトを実践してきた北大の河口教授は、「ESDの再構築」と題して、多様な人材の供給という点で持続性の危機にも貢献してきた教育機関の反省点を踏まえ、現代人の行動を律する個人主義、経済合理主義、科学的合理主義などの近代精神の歴史的反省を振り返りながら、それらを批判的に継承するため、次世代のESDの焦点として、近視眼的な個別科学を超克すべき俯瞰的思考能力の涵養と膨大な科学的知見を体系化する能力の開発が、次世代のESDには重要であることを強調した。

ESDは、国家利益を超えたグローバルな課題を、世界市民(グローバル人材)として考察する教育であり、健全な持続性を保障するために、今後ますます世界的に要請される間断なき教育の革新であり、また教育の主潮流であることが全演者の共通の認識であった。





Ichiro Uyeda

Executive and Vice President, Hokkaido University
Chairperson, Committee of Sustainability Weeks 2014

[Transcription]

Ladies and gentlemen, and distinguished guests from Asia. On the opening of the International ESD Symposium, I would like to give a brief address. It is a great honor for us that such a special occasion to discuss the future of education is held here in Hokkaido University this year, the final year of UNESCO "Decade of Education for Sustainable Development" which is known as DESD.

Hokkaido University announced its international strategy called "Hokkaido University Initiative for Sustainable Development" in 2005 when DESD began. 10 years ago, the University declared it would accelerate education and research in order to realize a sustainable society.

In the last 10 years, a number of educational programs, research projects and social contribution activities have been launched in accordance with the theme of "Sustainability". I will give you a number which represents the multitude of those activities.

If you carry out a word search within the website of Hokkaido University typing 4 key words, "Sustainable" and "Sustainability" in both Japanese and English, you will receive 35,860 search results in total, including webpages in either language. Those include an introduction page of educational programs, an announcement of symposiums, various kinds of information such as research papers, and information in multiple disciplines.

Among the number of "Sustainability" initiatives, this symposium and an education program "ESD Campus Asia", which is a foundation of this symposium, are particularly unique and valuable projects. This is because they are initiatives to collectively develop better programs in collaboration with universities in Asia, academics, students as well as local regions in order to seek a better quality of education in a more tailored and localized way and specific to Asia. These are initiatives to aim high quality education that only we can deliver, and that can only be achieved by collaboration among those of us who are here.

This symposium is held as an expanded version of the ESD international symposium which has been organized by HU's Faculty of Education over the past four years. This year's theme is "Strategic ESD in the Next Generation". From 2015, the United Nations initiates the "Global Action Programme on ESD", and the field of education in the world is entering a new phase. With an eye toward the major milestone of its 150th anniversary in 2026, Hokkaido University will also work earnestly on university reform with a vision of "Hokkaido University contributing towards the resolution of global issues".

As we usher in a new era, I hope that this symposium will provide the energy for us to take the next steps forward and create new collaborative relationships among participants.

Thank you very much for your attention.



上 田 一 郎

北海道大学
理事・副学長
サステナビリティ・ウィーク2014実行委員長

【 採 録 】

お集まりの皆様、ESD国際シンポジウムの開会にあたり一言、ご挨拶を申し上げます。国連「持続可能な開発のための教育の10年」、通称DESDが最終年を迎える今年、教育の未来を議論する貴重な機会を北海道大学で開催できることに大きな喜びを感じます。北海道大学は、DESDが始まった2005年にHokkaido University Initiative for Sustainable Developmentという国際戦略を発表しました。10年前に北海道大学は、持続可能な社会を実現する教育研究を加速すると宣言したのです。

そして、この10年間にSustainabilityというテーマに則した教育プログラムや研究プロジェクトそして社会貢献活動が数多く産まれました。その多さを推し量る一つの数字をご紹介します。北海道大学のウェブサイトキーワード検索を、英語でSustainableとSustainability、日本語で「持続可能な」と「持続可能性」の4つの単語で行うと、日英合計で35,860件のウェブページがヒットします。これらは、教育プログラムの紹介ページや、シンポジウムの開催案内、研究論文など様々な類の情報であると共に、あらゆる学問分野の情報でもあります。

そのような数多くのSustainabilityの取り組みの中で、本シンポジウムならびに本シンポジウムの基盤となっている教育プログラム「ESD Campus Asia」は、ユニークで価値ある取組です。その理由は、我々が位置するアジアという地域で行うのに最もふさわしい教育の在り方をアジアの大学、教員、学生、そして地域が協働で模索し、よりよいプログラムを協働で開発していく取り組みだからです。ここにいる皆さんと協働するからこそ可能な教育、我々でしかできない質の高い教育を目指す取り組みだからです。

本シンポジウムは、過去4年間にわたり教育学研究院が主催してきたESD国際シンポジウムを拡大して開催するものです。今回のテーマは「次世代のESD戦略」です。

2015年から国連ではGlobal Action Programme on ESDが開始され、世界の教育界は新たな局面を迎えます。さらに北海道大学は、2026年に迎える創基150年という大きな節目を見据え「世界の課題解決に貢献する北海道大学へ」というビジョンを掲げ、大学改革に本格的に取り組めます。新しい時代に向け本シンポジウムが、教育に従事する人々の間に新たな協働のつながりと、次なる一步を踏み出すエネルギーを生み出すよう願っています。ご清聴ありがとうございました。





Toru Onai

Dean, Faculty of Education, Hokkaido University

[Transcription]

Hokkaido University's Faculty of Education has so far organized four International ESD Symposiums with representatives of Asian universities to focus on current global challenges and discuss, from an Asian perspective, the educational roles that universities should play to ensure the sound sustainability of human society and the global environment.

Past symposiums have provided opportunities to reassess ESD, which tends to be seen simply as a type of environmental education, and have acted as platforms for discussions highlighting ESD's future role in the development of a broad range of abilities needed to resolve issues in modern society that have varied causes and backgrounds.

The 5th International ESD Symposium will focus on the future of education based on the main theme of Strategic ESD in the Next Generation, as this is the final year of the UN Decade of Education for Sustainable Development. With an eye on the future beyond the boundaries of individual universities and nations, the event will provide opportunities to explore the form of human resource cultivation for the next generation and the related roles of universities from different perspectives and on different scales – from the past to the future and from regional considerations to Asian matters.

Presently, both Japanese society and the international community are in a historic period of profound change on an unforeseen scale. In this regard, ESD has a primary role to play in overcoming current crises in society, and universities are responsible for spearheading related efforts. I hope this symposium will inspire fresh ideas and support the development of new connections among parties seeking to build a better society through education.



小内 透

北海道大学
教育学研究院長

【 採 録 】

現代が直面するグローバルな課題をとりあげ、人間社会とそれを取り巻く地球環境の健全な持続性のために、大学が果たすべき教育的役割とは何かをアジアの規模で議論すべく、本部局が主幹となり、アジアの各大学を招き、過去4回に渡りESD国際シンポジウムを開催してきました。

これまでのシンポジウムでは、単なる環境教育として把握されてしまいがちなESDを見つめ直し、さまざまな原因や背景を持つ現代社会の課題解決に必要な俯瞰的能力の涵養こそが、これからのESDが果たすべき役割であると議論してきました。

5回目となる今回のESD国際シンポジウムでは、本年が国連「持続可能な開発のための教育(ESD)の10年」の最終年であることもふまえ、「次世代のESD戦略」をメイン・テーマとし、教育の未来に焦点を当てることにしました。個別の大学や国家の枠を超えた展望の中で、次世代の人材育成のかたちとはどのようなものか、そのなかで大学はどうあるべきかを、過去から未来、地域からアジアへと、さまざまな視点とスケールから探ります。

いま、日本の社会も世界の動向も、これまで考えられなかったような大きな変化と、歴史的変革期を迎えています。現代社会の危機を克服してゆくには、教育(ESD)が第一義的な役割を持っており、それを率先して導いていく責任が大学にはあります。本シンポジウムが、教育によってより良い社会の実現を目指すあらゆる方々に、新しいアイデアと新しいつながりをもたらすことを願っています。





Reflections on the United Nations Decade of Education for Sustainable Development

Mario T. Tabucanon

Visiting Professor
United Nations University Institute for the Advanced Study of Sustainability

Abstract:

The UN Decade of Education for Sustainable Development (DESD) comes to an end and the global education sector reflects on the achievements and lessons learned, as well as on the challenges and ways forward. Reflections are based on achievements with respect to the goals of the UN DESD in the pursuit of its vision to create a world where everyone has the opportunity to benefit from education and learn the values, behaviors and lifestyles required for a sustainable future and for a positive societal transformation. Reflections are based on the various reports made available by UNESCO, as well as from the relevant experiences of the United Nations University Institute for the Advanced Study of Sustainability in carrying out its ESD programme. Many efforts have been made that produced significant advances during the Decade; these need to be up-scaled moving forward into the implementation of the Global Action Programme on ESD.

Profile:

Dr. Mario T. Tabucanon is Visiting Professor at the United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS) and Emeritus Professor at the Asian Institute of Technology (AIT) in Thailand. At UNU-IAS, he is affiliated with the Education for Sustainable Development Programme involved in the promotion of Regional Centres of Expertise on ESD and in the alliance of higher education institutions in the Asia-Pacific region known as the Promotion of Sustainability in Postgraduate Education and Research Network (ProSPER.Net) under the auspices of UNU-IAS. He is also involved in various capacity building initiatives of UNU-IAS including the annual offering of the ASEAN-plus-Three Leadership Programme on Sustainable Production and Consumption. At AIT, before joining UNU-IAS, he served in senior administrative positions including provost and president.



ESD 10年の総括

マリオ タブカノン

国際連合大学高等研究所
客員教授

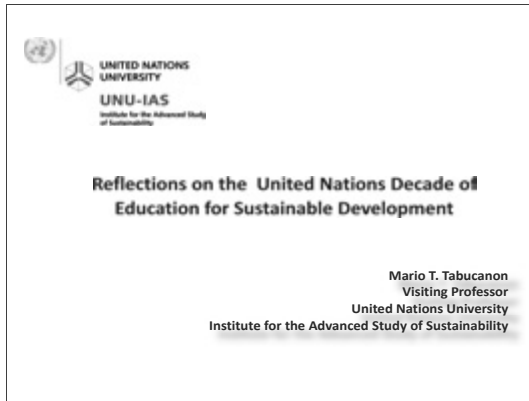
要 旨

国連持続可能な開発のための教育の10年(DESDE)が終わりを迎え、世界の教育部門はその成果と学んだことを振り返り、この先の課題や進むべき道を検討している。その省察は、誰もが教育の機会を得て、持続可能な未来の実現や好ましい社会の変革に必要な価値観、行動、生活様式を学ぶことができる社会の創造というビジョン、それを追求する国連DESDEの目標についての成果に基づいている。そしてユネスコによって入手可能となった様々なレポート、国連大学サステナビリティ高等研究所でのESDプログラム実施における経験に基づいている。この10年に多くの取り組みが行われ大きな進展が見られた。しかしESDに関するグローバル・アクション・プログラムの実施に向けてさらなる取り組みの強化が必要とされる。

略 歴

マリオ・タブカノン博士は、国連大学サステナビリティ高等研究所(UNU-IAS)の客員教授であり、タイにあるアジア工科大学院(AIT)の名誉教授である。高等研究所では、持続可能な開発のための教育プログラムにおいてESDに関する地域拠点づくりに取り組み、高等研究所が主導するアジア太平洋地域の高等教育機関連合であるアジア太平洋環境大学院ネットワーク(ProsPER Net: プロスパーネット)にも関与している。また毎年、持続可能な生産と消費に関するASEANプラス3リーダーシッププログラムの提供を行うなど、高等研究所の能力開発活動にも関わっている。高等研究所の前の勤務先であるアジア工科大学院では、学部長や学長などの上級管理職を務めた。

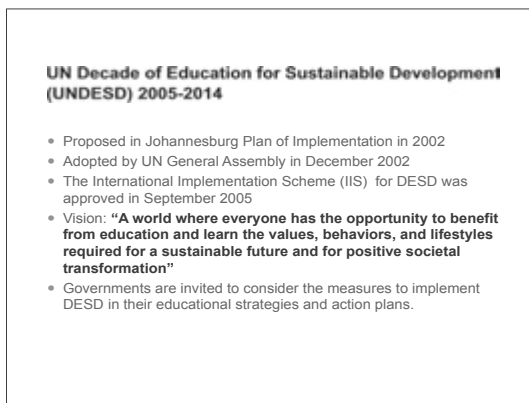
Reflections on the United Nations Decade of Education for Sustainable Development ESD 10 年の総括



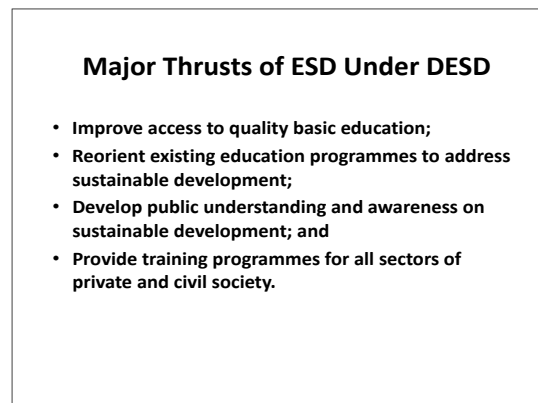
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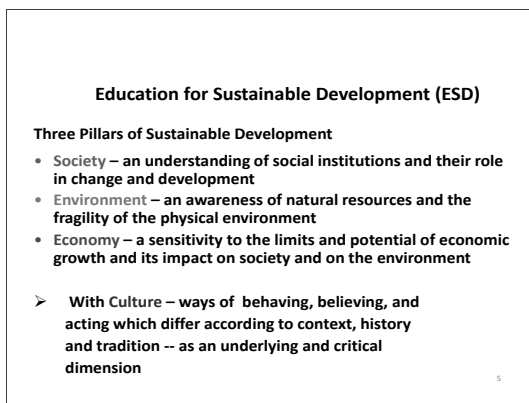
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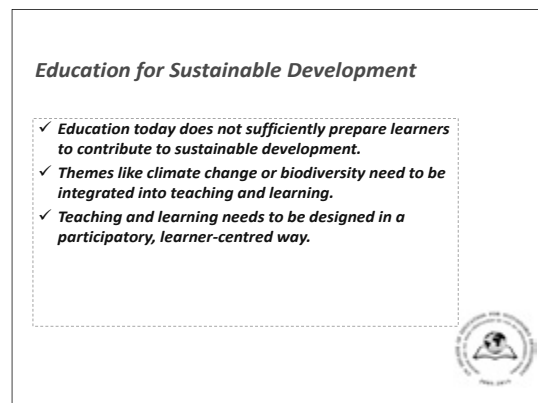
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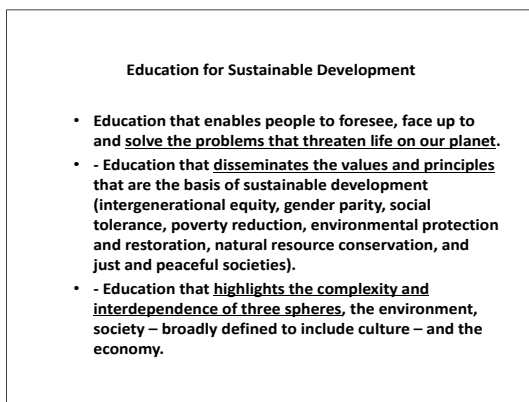
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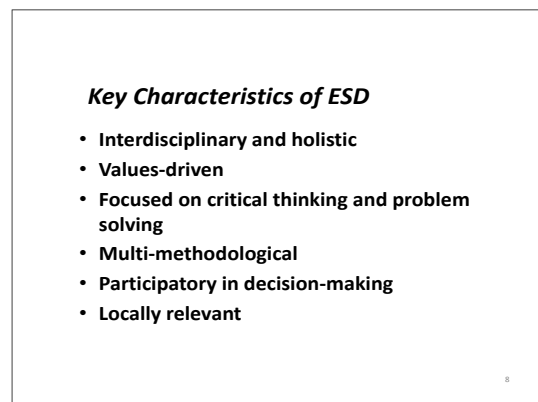
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Leadership for SD and the Change Process

- Visioning
 - Global Vision on SD
 - Translate Global Vision to National/Local Vision
- Communicating
 - Communicate vision/strategy/values/etc. so that people understand how their work contributes to a larger whole.
 - 'Get the message out'
- Challenging
 - Challenge status quo, unsustainable practices, barriers, constraints

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- Inspiring
 - Inspire stakeholders to work to achieve goals
- Developing capacities of people
 - Education and training; competencies development; ESD
- Motivating people to want to follow
 - Relate personal, organizational and community goals
- Having a Plan
 - To do, check, act, assess, adjust

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UNESCO and ESD – 'what we do'

- Advocate for ESD at the international level
 - Ensured the presence of ESD at Rio+20
 - Contribute to post-2015 consultations
- Provide support to Member States in reorienting education
 - Climate Change Education country programmes
 - Guidance tool on Disaster Risk Reduction in curricula
 - Learning materials on biodiversity
- Coordinate the UN Decade of ESD and prepare for its follow-up



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Engaging in International Processes

UN Inter-Agency Committee for Decade of ESD (DESD)

Forum of UN Agencies collaborating towards effective implementation of the Decade

Lead Agency: UNESCO

19 UN Agencies: UNESCO, UNEP, UN-Habitat, UNICEF, UNU, FAO, ILO, UNAIDS, UNCCD, UNDP, UNFCCC, UNFPA, UNHCR, UNDESA, SCBD, WFP, WHO, World Bank and WTO

Activities: Exchange information, organize public events, and contribute to global sustainability processes such as CSD, CBD, Rio+20 and UNFCCC

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UNESCO Reports on UN DESD

- UNESCO has been publishing reports on UN DESD
 - 2007 (The First Two Years)
 - 2009 (Mid-Decade; Bonn Declaration)
 - 2012 (Progress; Focusing on processes & learning in the context of ESD)
 - 2014 (End-of-Decade, pending release)

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2007 Key Findings

- DESD launches held at regional and national levels accompanied by regional/national planning frameworks and action plans
- Developed national strategies; established national DESD committees
- Put in place, at various levels, the mechanisms to facilitate and guide the implementation of DESD

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2009 Key Findings

- Countries have made progress in implementing ESD and have designed innovative policy frameworks
- Effort towards better understanding, promotion, implementation and assessment of the quality of ESD underway; a global M&E framework designed
- Learning to improve links between formal, non-formal and informal education

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2009 Key Findings (continued)

- Science has provided better knowledge of climate change (and other critical issues) and the Earth's life support systems
- Knowledge put into action

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2012 Key Findings

- ESD emerging as the unifying theme for many types of education related to sustainability (e.g. climate change, disaster risk reduction, biodiversity, etc.)
- ESD increasingly perceived as a catalyst for innovation in education
- ESD is often at the heart of new, creative multi-stakeholder configurations blurring boundaries between schools, universities, communities and the private sector

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2012 Key Findings (continued)

- As ESD progresses, a co-evolution of pedagogy is occurring; as sustainability content of curricula evolve, pedagogy is evolving simultaneously
- More research is needed to document that ESD is quality education
- Within the UN system, ESD's role is much bigger than it was up to two years before

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Where do we stand?



"We resolve to promote education for sustainable development ... beyond the United Nations Decade of Education for Sustainable Development."

- ✓ Increased presence of ESD internationally and nationally.
- ✓ Major challenges:
 - from pilot to policy
 - from small scale to large scale
 - from margin to mainstream
- ✓ A Global Action Programme to scale up ESD.



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Engaging in International Processes

Conferences/Seminars



Multistakeholder Learning towards Green Society
15 June 2012
UNU-IAS, Ministry of the Environment, Japan

Aiming Higher, Unlocking Tertiary Education's Potential to Accelerate Sustainable Development and the Transition to a Fair and Green Economy
18 June 2012
15 organizing partners

Higher Education Sustainability Initiative

19 June 2012
UN ECOSOC, UNESCO, UNEP, UN Global Compact, UN-PRIME, UNU

UN Multi-stakeholder Strategies for Scaling-up and Mainstreaming Sustainable Development
23 June 2012
UNICEF, UNDP, UNESCO, UNU-IAS



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Engaging in International Processes

Higher Education Sustainability Initiative



Rio +20 Commitment to Sustainable Practices of Higher Education Institutions

Higher education institution signatories commit to:

- 1) Teach sustainable development concepts, ensuring that they form a part of the core curriculum across all disciplines.
- 2) Encourage research on sustainable development issues, to improve scientific understanding through exchanges of scientific and technological knowledge.
- 3) Green their campuses by: i) reducing the environmental footprint; ii) adopting sustainable procurement practices; iii) providing sustainable mobility options for students and faculty; iv) adopting effective programmes for waste minimization, recycling and reuse, and v) encouraging more sustainable lifestyles.
- 4) Support sustainability efforts in the communities in which they reside.

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2014 Key Findings

- Expected to be highlighted at the World ESD Conference in Nagoya.
- Some Findings from the "Education for a Sustainable Future: UNESCO Asia-Pacific Regional Consultation on Post-DESD Framework", Bangkok, 2013

ESD Successes (for up-scaling)

- Initiatives related to the environmental dimension of ESD, especially integration of climate change and EE into various levels of education

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ESD Successes (continued)

- Initiatives related to ESD's economic dimension (green economics, green growth, sufficiency economy), and socio-cultural dimension
- Pedagogical approaches supportive of ESD

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From the Perspective of UNU-IAS

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Education for Sustainable Development Programme UNU-IAS, Japan



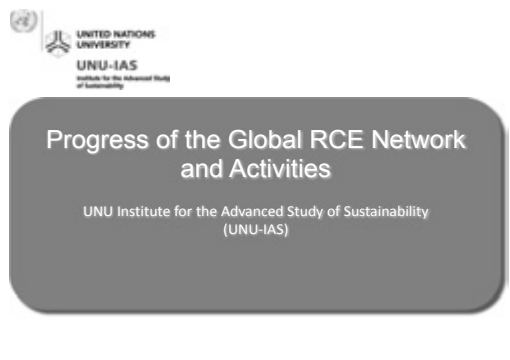
UNU strategy to implement ESD within the framework of the UN Decade of ESD (2005-2014)

Two main initiatives:

- Regional Centres of Expertise on ESD** (129 RCEs in the world)
- ProSPER.Net** – Promotion of Sustainability in Postgraduate Education and Research Network (regional network for Asia-Pacific, 32 member universities and collaborations with other networks)



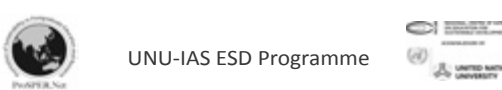
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Progress of the Global RCE Network and Activities

UNU Institute for the Advanced Study of Sustainability (UNU-IAS)

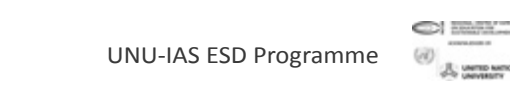
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UNU-IAS ESD Programme

- Launched in 2003 as UNU's response to the UN Decade of Education for Sustainable Development (DESD: 2005-2014) with the support of the Ministry of the Environment of Japan
- In 2014, the former UNU-ISP (UNU Institute of Sustainability and Peace) and UNU-IAS (UNU Institute of Advanced Studies) has merged and become UNU Institute for the Advanced Study of Sustainability (UNU-IAS)
- 4 Goals of ESD Programme
 - ✓ Advancing ESD through multi-stakeholder Initiative (RCEs)
 - ✓ Contribution of transformation of higher education (ProSPER.Net)
 - ✓ Contribution to international SD/ESD processes
 - ✓ Advancing ESD knowledge

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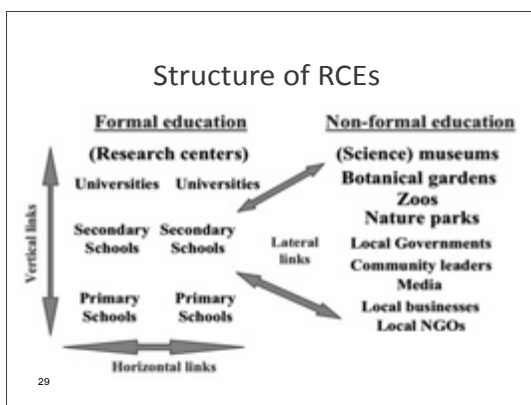


UNU-IAS ESD Programme

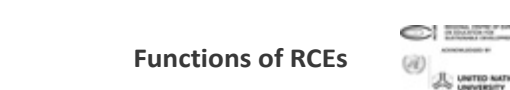
Regional Centres of Expertise on ESD (RCE)

- Proposed by UNU as its contribution to DESD in 2004
- A network of formal, non-formal and informal education and learning-related institutions who are mobilized to promote ESD in regional (sub-national) and local levels
- RCEs aspire to achieve the goals of DESD by translating its global objectives into the regional-local contexts in which they operate.
- Acknowledged by UNU based on the recommendations of the Ubuntu Committee of Peers for the RCEs

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Functions of RCEs

- Build innovative platforms to share information and experiences and to promote dialogue among local/regional stakeholders through partnerships for Sustainable Development
- Create a local/regional knowledge base to support ESD actors
- Promote 4 major goals of ESD in a resource-effective manner
 - 1) Re-orient education towards SD
 - 2) Increase access to quality education
 - 3) Deliver trainers' training programmes
 - 4) Lead advocacy and awareness raising efforts

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Development of the RCE Network

Global Network:

- 129 RCEs worldwide
 - Asia-Pacific: 47
 - Europe: 37
 - Africa and Middle East: 26
 - Americas: 19
- The Global RCE Conference is organized annually since 2006.
- 9th Global RCE Conference will be held from 4-7 November 2014 in Okayama, Japan.
 - one of the official 'Stakeholder Meetings' of the UNESCO World Conference on ESD (10-12 November)



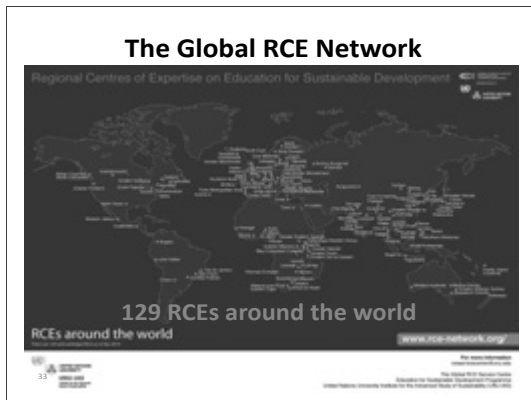
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Development of the RCE Network

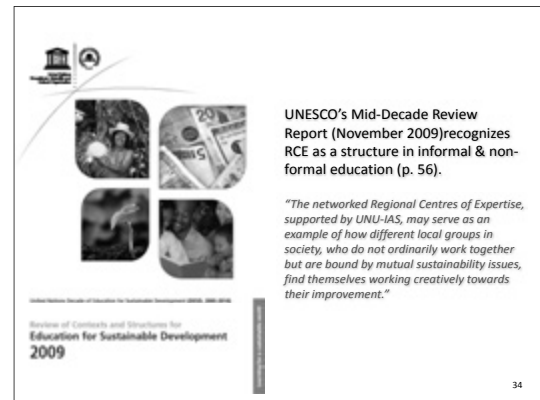
2003	2004	2005	2007	2009	2011	2013	2014 and Beyond
DESD Launch Framework for the UNDESD International Implementation Scheme	Establishment of ESD Programme at UNU-IAS Development of the RCE Concept	7	47	74	99	120	127
Annual Global RCE Conference since 2006	Mid-Decade Year UNESCO World Conference on ESD (Bonn, Germany)						
	End of the DESD UNESCO World Conference on ESD (Aichi-Nagoya)						
	Launch of Global Action Programme on ESD (Ibdc)						
	8th International RCE Conference (Nairobi, Kenya)						
	9th International RCE Conference (Okayama, Japan)						
	Assessment of RCEs/ Engagement with International SD/ESD processes						
	Strong emphasis on capacity development						

Number in Red: Number of RCEs Acknowledged by UNU

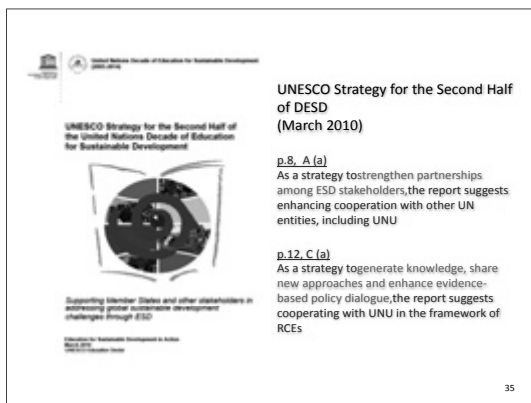
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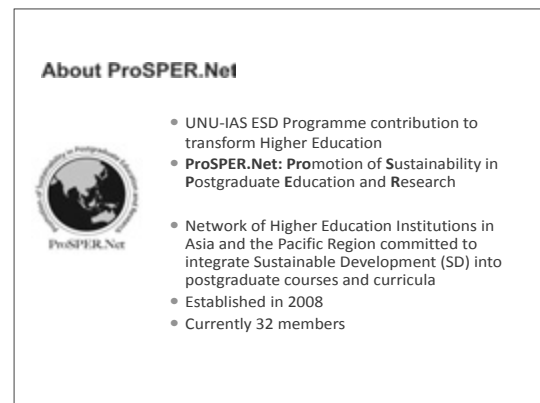
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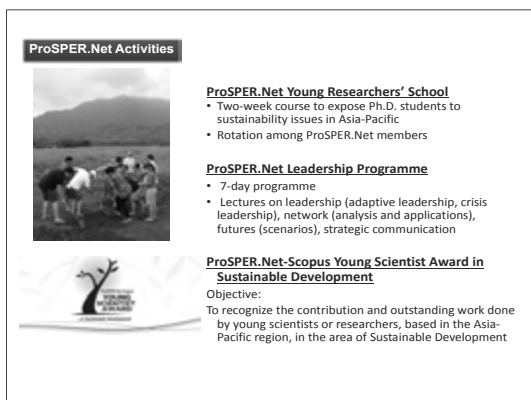
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Leadership Capacity

- Leadership capacity for creating an inspired vision for ESD and the institutional capacity of effectively coordinating implementation need further strengthening

Integration Approaches for ESD

- Lack of integration of ESD across subjects

Application of ESD to Different Educational Systems

- Inflexibility of individual countries' educational systems to adopt innovative approaches and encourage educational reform

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Global Action Programme on ESD

To mobilize education and learning to accelerate progress towards sustainable development.

a. Reorienting education and learning so that everyone has the opportunity to acquire the values, skills and knowledge that empower them to contribute to sustainable development.

b. Enhancing the role of education and learning in all relevant agendas, programmes and activities that promote sustainable development.



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Key principles and definitions

- ESD concerns educational content and methodology
- ESD promotes skills like critical thinking and imagining future scenarios
- ESD treats the three pillars of SD in an integrated manner
- ESD encompasses formal, non-formal and informal education and learning
- The Global Programme also encompasses activities that are in line with the above but may not be called 'ESD'



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Priority action areas

- 1 Advancing policy
- 2 Transforming learning environments
- 3 Building capacity of educators and trainers
- 4 Empowering and mobilizing youth
- 5 Accelerating sustainable solutions at the local level



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Priority action areas

1. Advancing

Integrate ESD into international and national policies in education and sustainable development by mainstreaming good practices and bringing about systemic change.

- ✓ Work with Ministry of Education to strengthen ESD policy
- ✓ Connect ESD policy with other sectors (e.g., aligning low-carbon strategies with content of TVET)

2. Transforming learning environments

Integrate sustainability principles into institutions through whole-institution approaches.

- ✓ Support education institution to set up a school sustainability plan
- ✓ Work with private companies to transform them into inspiring models of sustainability through education and training



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Priority action areas

3. Building capacity of

Build capacities of educators and trainers to become learning facilitators for ESD.

- ✓ Introduce ESD into pre-service and in-service education and training.

4. Empowering and mobilizing

Support youth in their role as change agents.

- ✓ Design learner-centered ESD opportunities, such as e-learning and mobile learning.
- ✓ Work with youth-driven organizations to enhance youth participation in addressing sustainability challenges.

5. Accelerating sustainable solutions at

Develop innovative solutions to sustainable development challenges at the local level.

- ✓ Work with local authorities and municipalities to enhance ESD programmes.



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Implementation of the Programme

Global coordination mechanism to be put in place, which may comprise:

- ✓ Launch commitments from stakeholders
- ✓ Partners networks for each of the priority action areas
- ✓ A regular forum for key stakeholders
- ✓ A coordination mechanism for UN agencies
- ✓ Support to national focal points
- ✓ A periodic global ESD report
- ✓ A clearinghouse of good practices from the implementation of the Programme



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Asia-Pacific RCEs Strategy for GAP Implementation

- The strategy for advancing policy is through engaging in policy making processes, from setting policy agenda, policy formulation, policy implementation, to policy monitoring and evaluation.
- The strategy for transforming learning and training environments is through engaging the whole institution, from central to distributed leadership to education actors at all levels, in developing a vision and plan for reorientation of the institution.

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Asia-Pacific RCE Strategy for GAP (cont'd)

- The strategy for building capacities of educators and trainers is through engaging in conducting courses and training programmes, both formal and informal, and in developing ESD learning materials, and to ensure that educators are open to different epistemologies.

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Asia-Pacific RCE Strategy for GAP (cont'd)

- The strategy for youth is through giving opportunities for empowering and mobilizing youth leadership, to become change agents in societal transformation through various youth activities and innovative approaches, and to create an environment whereby youth come to RCEs to participate in ESD actions.

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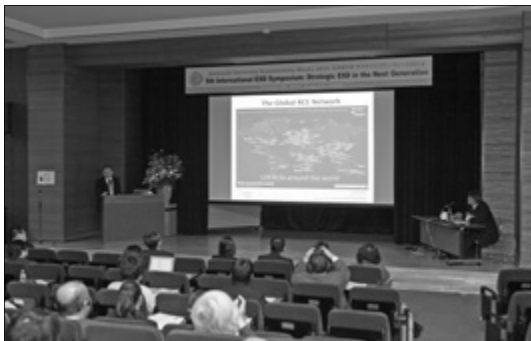
Asia-Pacific RCE Strategy for GAP (cont'd)

- The strategy for accelerating sustainable solutions at the local level is through widening the diversity of stakeholders, inclusive participation, assisting the socially vulnerable and marginalized groups in society, promoting mutual learning, and working with other like-minded networks.

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Future Prospects for ESD

Yong Jin Hahn

Dean
Graduate School of Education
Korea University

Abstract:

The UN declared DESD (Decade of Education for Sustainable Development) in 2005, nine years ago. In my address, I would like to reexamine the concept of education historically, and investigate the future prospects for ESD starting from 2015. There are two methods to prospect the ESD. One is the descriptive and objective method as a science of educational research, and the other is the intuitive and subjective method as a fundamental principle of education. The former is very practical because it calculates the objective situations in which we are now positioned. The latter is very normative, so the possibility is a little low. But as a scholar of educational history, I hope to prospect the ESD by the latter.

I believe that the ESD can take role as an educational compass. The compass has opened the Era of the Great discovery since 15th century. Now we are living in a globalized era, so we need educational compasses like the ESD. To solve the future prospect of ESD successfully, I'd like to introduce the Foundationism(基礎主義) by Ki-un Hahn(1925-2010), the emeritus professor of SNU(Seoul National University). Foundationism constructs 'the educational value system' and proposes 'historically conscious human' as educational human beings. So It will help us to get a proper balanced direction for the ESD.

Profile:

Dr. Yong-Jin Hahn has been a professor of Department of Education, at Korea University (KU) since 1996 (assistant prof. in 1996, associate prof. in 1999 and full prof. in 2005). He has an interest about the principles of education, especially the conceptual history of modern education. He was a Moral Education teacher at middle school for 5 years. Not only has he received a B.A., M.A. (1989) and Ph.D., (1993) from KU, he also had a chance to be a research student at Nagoya University (1991-93) provided with a scholarship from Ministry of Education, Japan. At KU, he was affiliated with the ESD (Education for Sustainable Development) program as one of the teacher training courses. He was the president of the Korean Society for History of Education and the director of Institute of Continuing Education and now he is the Dean of College of Education & Graduate School of Education at KU.



ESDの将来展望

韓 龍 震

高麗大学校
師範大学長

要 旨

9年前の2005年、国連はDESD(国連持続可能な開発のための教育の10年)を宣言した。私のスピーチでは教育の概念を歴史的に再検討し、2015年からのESDの将来を展望する。そのためには2つの方法がある。1つは教育研究の科学としての記述的かつ客観的な方法であり、もう1つは教育の基本原則としての直感的かつ主観的な方法である。前者は私たちの現状を客観的に計算する非常に実際的なものであるが、後者は規範的なものであり、実現性はやや低いものとなる。しかし私は教育史の研究者として、後者によってESDの展望を論じたい。

私は、ESDは教育の羅針盤としての役目を担えと確信している。羅針盤は15世紀から偉大な発見の時代を切り開いてきた。グローバル化時代に生きる現代の私たちにはESDのような教育の羅針盤が必要である。ESDの将来を展望するために、ソウル大学校の名誉教授であった韓基彦(1025～2010)の基礎主義を紹介する。基礎主義は教育価値制度を構築し教育人として歴史的意識を持つことを提唱している。それは調和のとれたESDの方向性を示すために役立つであろう。

略 歴

韓龍震博士は、1996年より高麗大学校師範大学で教鞭を執っている(1996年には助教授、1999年には准教授、2005年は教授に就任)。教育原理、特に現代教育の概念的歴史に関心を寄せている。中学で5年間道德教育を教えたこともある。高麗大学校で学士課程、修士課程(1989)、博士課程(1993)を修了し、日本の文部省から奨学金を得て名古屋大学(1991～93)で研究に携わったこともある。

高麗大学校では、教員の訓練コースの1つとしてESD(持続可能な開発のための教育)プログラムに参加した。韓国教育史学会会長、そして継続教育研究所理事を務め、現在は高麗大学校師範大学および大学院教育学科の学長の任にある。

Future Prospects for ESD ESD の将来展望



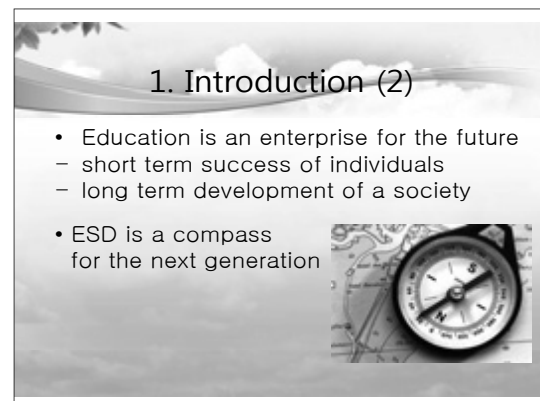
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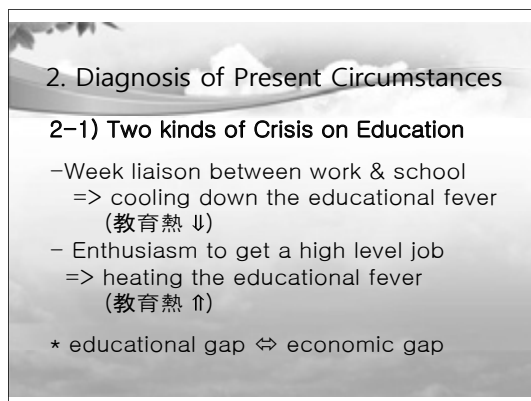
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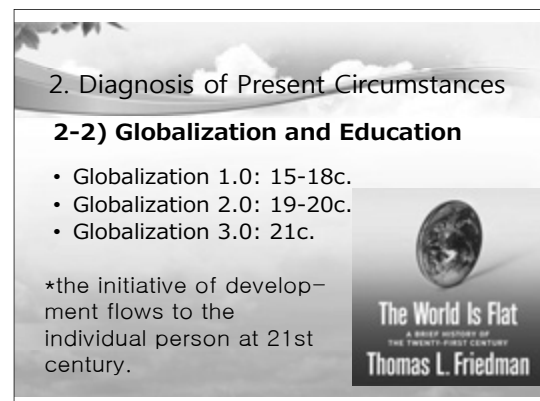
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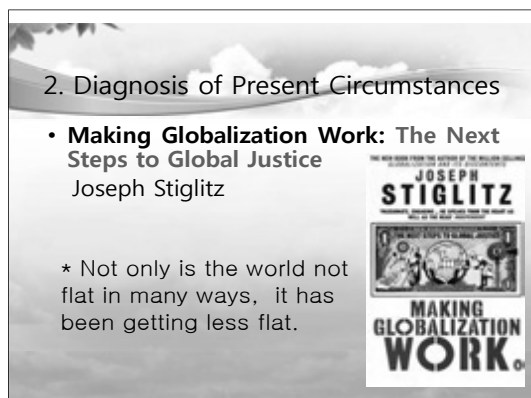
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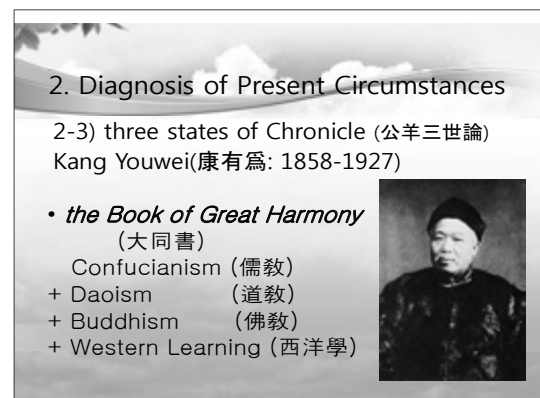
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2. Diagnosis of Present Circumstances

2-3) 3 states of Chronicle (公羊三世論)

the Age of Disorder (拋乱世)	the Age of Rising Peace (昇平世)	the Age of Great Harmony (太平世)
A turbulent society (乱世)	A tranquil society (小康社会)	A great harmony society (大同社会)

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2. Diagnosis of Present Circumstances

2-4) the Probability of Realization

Kang's Great Harmony Society (大同社会)	too ideal to realize
Freedman's Flat World: similar to Turbulent Society (乱世)	possibility to lost social justice
a Tranquil Society (小康社会)	possible prospect for ESD

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3. Prospects of ESD by Foundationism

3-1) What is Foundationism?

- Hahn, Ki-Un(韓基彦: 1925-2010)
- motto: "the formation of a human through the harmonization of tradition and innovation"
〈伝統と改革の調和による人間形成〉



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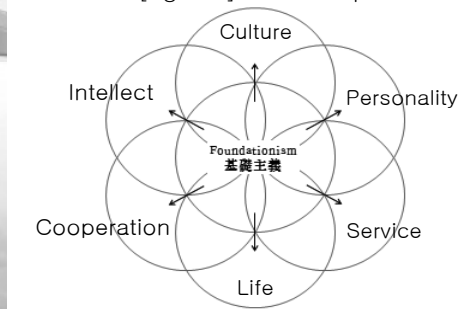
3. Prospects for ESD by Foundationism

3-1) What is Foundationism? (基礎主義)

1 core 1核	Foundation 基礎		
3 ideas 3理念	freedom 自由	order 秩序	time 時間
6 concepts 6概念	Culture	Life	Intellect
	Personalit y	Cooperati on	Service

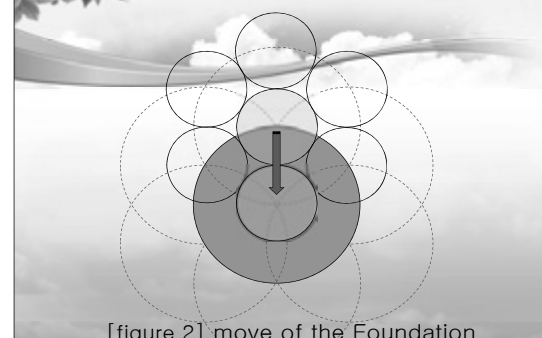
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[figure1] Six concepts



13

[figure 2] move of the Foundation



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3. Prospects of ESD by Foundationism

3-2) Three dimensions of ESD & Foundationism

ESD three dimensions	economic 經濟的	social 社会的	environmental 環境的
Hahn's Foundationism 〈基礎主義〉	foundation 基礎		
	freedom 自由	order 秩序	time 時間
Plato's four Virtues 〈the Republic〉	justice 正義		
	moderate 節制	courage 勇氣	wisdom 智慧

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3. Prospects of ESD by Foundationism

3-3) structure of soul & tripartite class structure

individual soul	appetite	spirit	reason
the castes of society	Productive (Workers)	Protective (Warriors)	Governing (Philosopher Kings)
Plato's Virtues	Moderate 節制	moderate of Courage 勇氣	moderate love for wisdom, the courage to act according to wisdom
Maslow's Hierarchy of Needs	Physiological Safety	Love/Belonging Esteem	Self-actualization 自我實現

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3. Prospects of ESD by Foundationism

3-5) economical dimension (経済的観点)

sustainability	⇐ unsustainable - sustainable ⇒	
Hahn's theory	subject's autonomous freedom 主体の自由	
Plato's virtue	greedy 貪慾	moderate 節制

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3. Prospects of ESD by Foundationism

3-6) Social dimension (社会的観点)

sustainability	⇐ unsustainable - sustainable ⇒	
Hahn's theory	orderly innovation 秩序ある改革	
Plato's virtue	opportunism	Protective Courage

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3. Prospects of ESD by Foundationism

3-7) environmental viewpoints (環境的観点)

sustainability	⇐ unsustainable - sustainable ⇒	
Hahn's theory	historical consciousness (time) 歴史的意識	
Plato's virtue	partial knowledge	great wisdom

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4. Conclusion 結びに

- * the reestablish the concept
- * the harmony of tradition and innovation
- * careful concern about foundation of every work
- * harmonize the courage realism and optimism

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4. Conclusion 結びに

Environment (環境)

Economy (経済)

Society (社会)

Education for SD

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ご清聴ありがとうございました

Thank You

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Reconstruction of ESD

Akito Kawaguchi

Professor
Faculty of Education
Hokkaido University

Abstract:

ESD is on the way to ensuring a sustainable future. Although UN-DESD has been successful in raising awareness of agendas of sustainable development (SD), global action program as the outcome of DESD is based on the reflection that ESD activity is still insufficient in integration between policies and practices endorsed by political agreements, financial support and scientific innovations. Furthermore, we have to reflect that the crisis of SD has been derived from modern society sustained by educational system per se, that has produced any kind of professional.

Reconstruction of ESD means strategic modification, that has to be to empower us to research the cause of the crisis of SD. As the crisis ahead of us is inextricably intertwined with conflicts among economic development (economic liberalism), social justice or equity (individualism) and protection of renewable environment (scientific anarchy), it could be no longer overcome by single science. To overcome the crisis, we need to elucidate internal associations of the conflicts, where key issues must be closely associated with the aspects of modern social ideology that unconsciously regulate our behaviors. Any generation is a temporary representative of endless human generations, there ESD must be the only final route to make our fate sustainable.

Profile:

Akito Kawaguchi, MD., PhD is a Project (and Emeritus) Professor of Hokkaido University (HU), Sapporo, Japan. After graduation from School of Letters (European philosophy) of HU and School of Medicine of Asahikawa Medical College (MD), he started his research in National Cardiovascular Center Hospital and Research Institute in Osaka, specializing in atherosclerosis and cardiovascular protection. Since then, he has been affiliated with Graduate School of Education in HU and charged of health science & education, majoring clinical epidemiology and disease prevention, especially life-style related disease. He is also the founder of "ESD Campus Asia project", that is a "global" educative program from 2011 to shape a sustainable future by multilateral student exchanges, focusing on ESD by collaborating with institutions in Korea (Korea University, Seoul National University), China (Beijing Normal University), and Thailand (Chulalongkorn University).



ESDの再構築

河 口 明 人

北海道大学
教育学研究院教授

要 旨

ESDは持続可能な未来の確保へ向かう道の半ばにある。国連のDESDによって持続可能な開発のアジェンダへの認識は高まった。しかしDESDの総括としてのグローバル・アクション・プログラムは、ESDの活動がその方針に対し、政治的合意、資金援助、科学的革新によって支持された政策と実践が十分に連携していないという反省に基づいている。さらに反省すべきことは、持続可能な開発の危機が、専門家を生み出してきた教育制度それ自体に支えられる現代社会に由来していることだ。

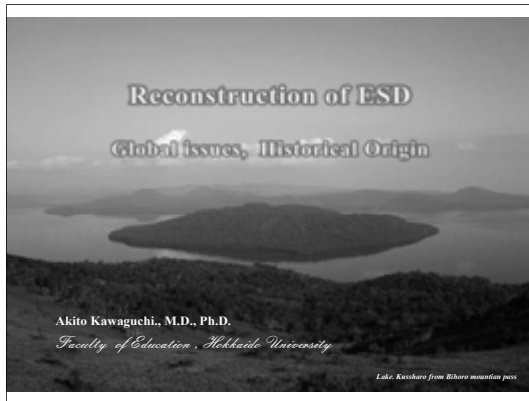
ESDの再構築とは、持続可能な開発の危機の原因究明を可能にするための戦略改変である。私たちが待ち受ける危機は、経済的発展(経済的自由主義)、社会正義または公正(個人主義)、そして再生可能な環境の保護(科学的混乱)の間の対立に密接に絡み合っていて、もはや単一の科学で解決することは不可能だ。危機を克服するためには、その対立の内的相互関係を明らかにする必要があるが、そこでの重要な課題は私たちの行動を無意識に規定している現代社会のイデオロギー的側面に密接に関わっている。いかなる世代も終わりになく続く人類の世代の一端を担うに過ぎない。ESDはそこで私たちの運命を持続可能なものにしてくれる唯一、最後の道筋であろう。

略 歴

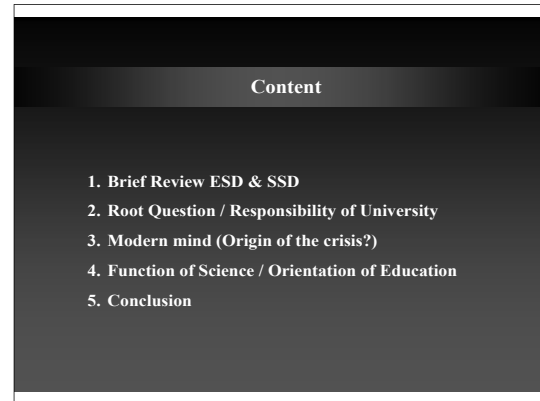
河口明人博士は、日本の札幌にある北海道大学の特任教授かつ名誉教授である。北海道大学文学部(西洋哲学)と旭川医科大学医学部を卒業後、大阪の国立循環器病研究センターで動脈硬化と心血管疾患予防の研究を開始。その後北海道大学大学院教育学院にて健康科学と教育学を担当し、臨床疫学、疾病予防、特に生活習慣病を専門としている。また多国間の学生交流を通して持続可能な未来を形づくるため、2011年にはグローバルな教育プログラムであるESDキャンパス・アジア・プロジェクトを創設し、韓国(高麗大学校、ソウル大学校)、中国(北京師範大学)そしてタイ(チュラロンコン大学)の教育機関と連携してESDに焦点をあてた取り組みを行っている。



Reconstruction of ESD ESDの再構築



1



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International Activities		
1968	UN Conference on Biodiversity	1972 UNEP
1972	UN Conference on the Human Environment	Only one earth
1977	UN Convention to Combat Desertification	1992 UNCCD
1979	Convention on Long-range Trans-boundary Air Pollution	1983 UNECE
1982	World Commission on Environment and Development	WCED
1987	UN General Assembly (Brundtland report)	Our Common Future
1987	Montreal Protocol on Substances that Deplete the Ozone	
1988	Intergovernmental Panel on Climate Change	IPCC→COP
1992	UN Conference on Environment and Development (UNCED)	Agenda 21
1994	UN Framework Convention on Climate Change	UNFCCC
2002	UN Conference on Sustainable Development (Rio+10)	Johannesburg
2005	UN DESD (Decades of ESD) started	→2014
2012	World Summit on Sustainable Development (Rio+20)	The future we want

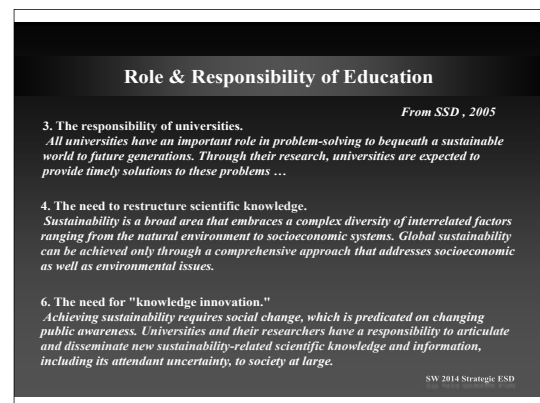
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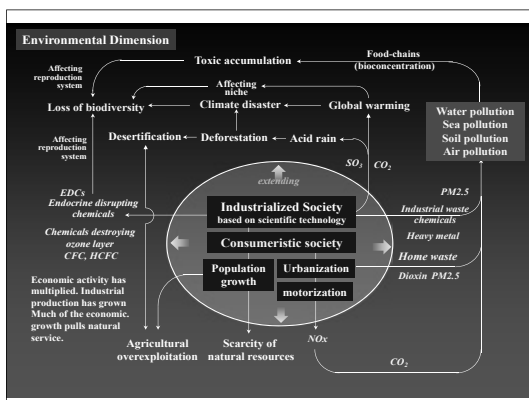
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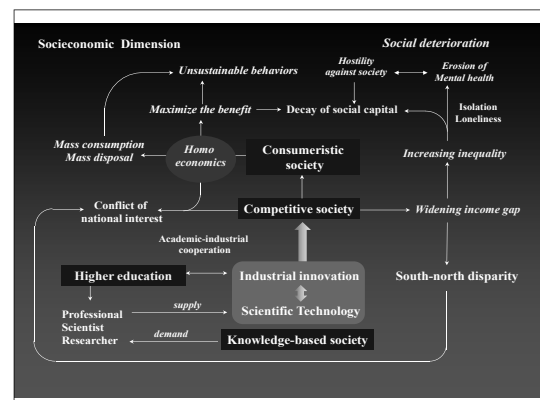
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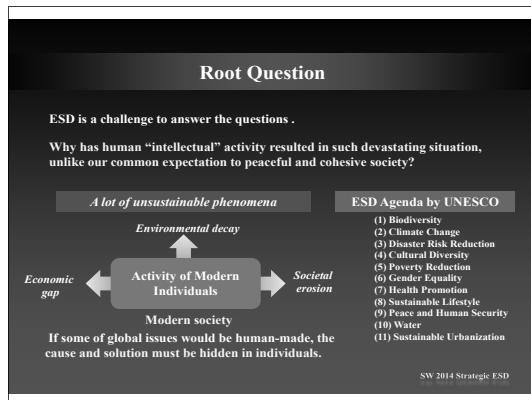
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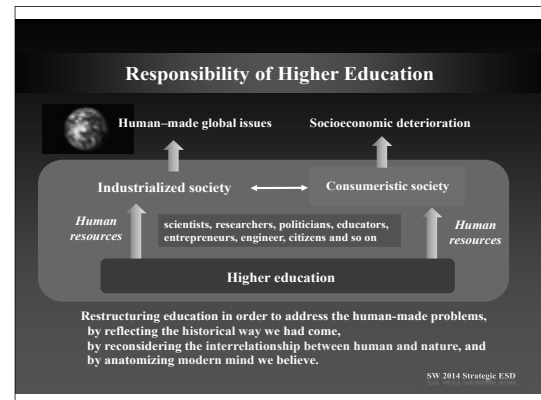
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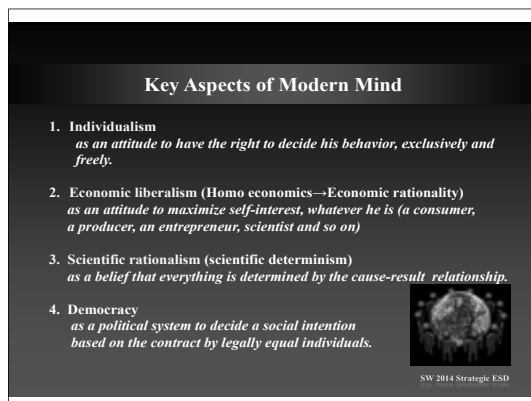
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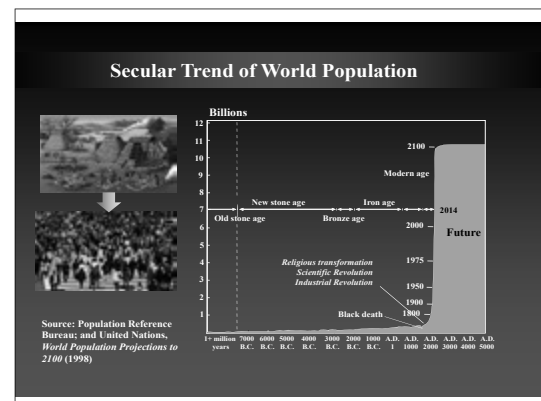
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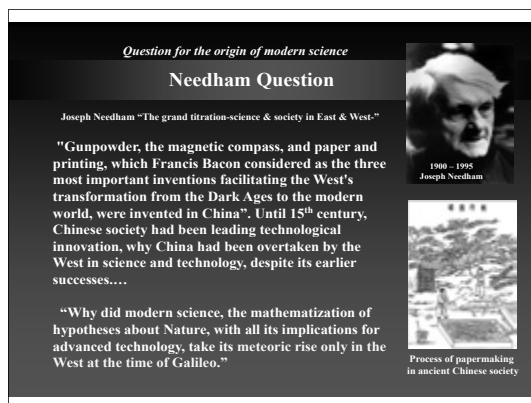
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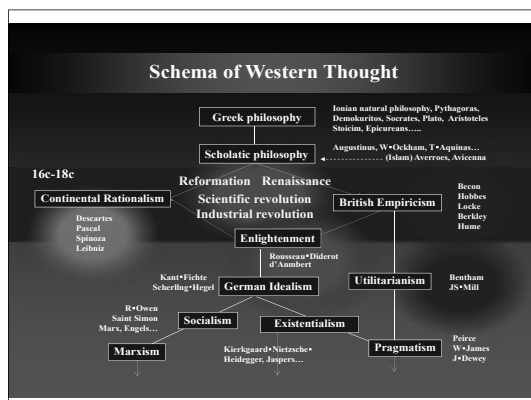


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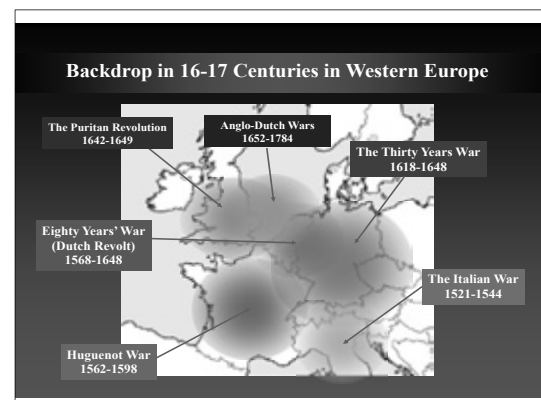
Historical Aspects of Scientific Revolution

1543	N. Copernicus	On the Revolutions of the Celestial Spheres
	A. Vesarius	On the Structure of the Human Body
1584	G. Bruno	On the Infinite Universe and Worlds (pantheism)
1600	G. Bruno	A sentence of death
1609	J. Kepler	Astronomia nova
1610	G. Galileo	Discovery of satellites around Jupiter
1616		Copernicus's work prohibited
1620	F. Bacon	Novum Organon (advocacy of experimental methods)
1628	W. Harvey	On the Motion of the Heart and Blood
1632	G. Galileo	Dialogue Concerning the Two Chief World Systems
1633	G. Galileo	A sentence of guilty
1637	R. Descartes	The world (the law of inertia), not published
1637	R. Descartes	Discourse on the Method
1687	I. Newton	Principia

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Origin of Individualism



Cogito, ergo sum
-I think, therefore I am.-



René Descartes
1596–1650

“... If I convinced myself that my beliefs are false, then surely there must be an “I” that was convinced. Moreover, even if I am being deceived by an evil demon, I must exist in order to be deceived at all. So “I must finally conclude that the proposition, ‘I am,’ ‘I exist,’ is necessarily true whenever it is put forward by me or conceived in my mind”. The mere fact that I am thinking, regardless of whether or not what I am thinking is true or false, implies that there must be something engaged in that activity, namely an “I.” Hence, “I exist” is an indubitable and, therefore, absolutely certain belief that serves as an axiom from which other, absolutely certain truths can be deduced....”

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Historical Impact of Descartes’s “I”

Essential origin of modern “individualism”

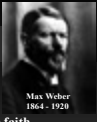
1. Rejection of Church doctrine & Emancipation from it.
2. Logical Explanation of being “I” as a thinking process
3. “I” as an agent to recognize what is true (self-reliance).
4. Justifying scientific evidences found by an individual reason.
5. Leading to the concept of “scientific determinism”.
6. Development of mathematical thinking (attestation).

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Protestant Ethics & Science

Max Weber “The protestant ethics and the spirit of capitalism.”



Max Weber
1864 - 1920

- (1) “Capitalistic spirit” comes from subjective adoption of an ascetic faith conducted by individuals: Occupational work is the obligation.
- (2) Protestant asceticism (strict attitude) is associated with a propensity to rationalize on a mathematical basis.

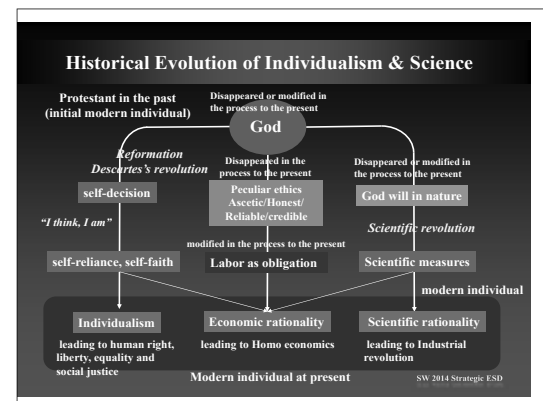
“The favorite science of all Puritan was physics, and next to it all those natural science which used a similar method, especially math. (Because) It was hoped from the empirical knowledge of the divine laws of nature to ascend to a grasp of the essence of the world.... The empiricism of 17th century was the means for asceticism to seek God in nature.” (note, 145)

Fighting Calvinism is characterized by

- (1) “God will” that is quite similar of natural law(→scientific rationality).
- (2) feeling of inner loneliness of the single individual isolation(→self reliance)

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Implication of Science

Scientific Revolution

H. Butterfield “The origins of modern science”



British historian
1900-1974

“Scientific revolution overturned the authority in science not only middle age, but of the ancient world – since it ended not only in the eclipse of scholastic philosophy, but in the destruction of Aristotelian physics. It changed the character of men’s habitual mental operations even in the conduct of the non-material sciences, while transforming the whole diagram of the physical universe and the very texture of human life itself . It looms (appears) so large as the real origin both of the modern world and of the modern mentality.”

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Shift of Paradigm

H. Butterfield “The origins of modern science”

Movement as a given condition from motionlessness

“the modern law of inertia-the modern picture of bodies continuing their motion in a straight line and a way to infinity-was hardly a thing which the human mind would ever reach by an experiment, or any attempt to make observation more photographic, in any case”

“The change is brought about, not by new observation or additional evidence in the first instance, but by transpositions that were taking place inside the minds of the scientists themselves.”

Change inside mind with no change of data !

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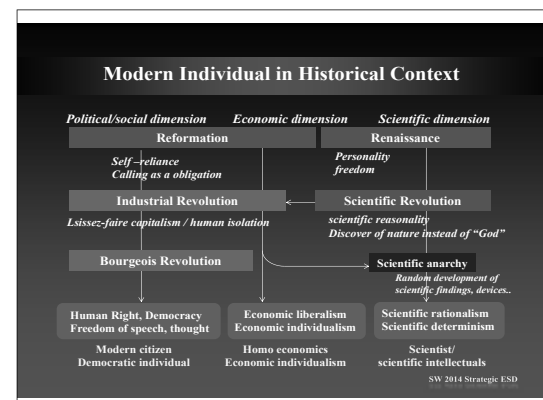
Outcome of Scientific Revolution

The concept of “progress” has been resulted from scientific revolution, which accelerated accumulation of the knowledge by discovery of natural laws and followed by drastically change of society. Scientific revolution are characterized by

1. Accumulation of knowledge about nature by purposeful observation — development of scientific rationality
2. Quantitative estimation by practical use of mathematics, instead of qualitative Aristotelian estimation — mathematics as a powerful and precise language to explain of and change the world
3. Establishment of scientific methods by reproducible experiments — lifestyle change by discovery & application of natural law

Since 18th century, human could not have thought the future without notion of “progress”, and the future is the same meaning of “progress” or “development” .

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From "Conjecture & Refutation" written by K. Popper
1902-1994
Austrian philosopher

Critical Scientific Mind

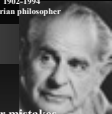
Science to ensure "Progress"

"All our knowledge grows only through the correcting of our mistakes. Since our knowledge can grow, there is no reason here for despair of reason. (Scientific optimism) At the same time, since we can never know for certain, there is no authority for any claim to authority."

"There is no ultimate source of knowledge. The proper epistemological question is not one about sources; rather we ask whether the assertion made is true- that is to say, whether it agrees with the facts."

It is essentially the critical and progress character—the facts that we can argue about any claim to solve our problem better than competitors—which constitute the rationality of science."

"Man can know, thus he can be free!" This is a formula which explains the link between epistemological optimism and the Scientific liberalism. We believe the developmental and progressive future (but blind the future).

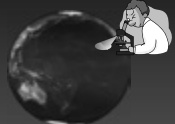


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"Nature" as a Object

"Nature" is the very target to understand the world, instead of "God." Nature is completely subjected to strict and unchangeable (natural) laws that would intertwine with each other.

In natural science, short-sight objectivation makes nature into pieces (segmentalization).



When we research a mechanism of nature or try to find a natural law, we have to be disconnected the target condition from nature itself. However, recognition or understanding based on disconnected from the integrated condition (nature) is not true one. That's why we are confronted the crisis of SD.

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Knowledge Explosion-Scientific Anarchy

Who control the huge amount of scientific findings ?

A new finding is based on precedent findings. Scientific findings have been accumulated day by day, leading to (fragmented) "knowledge explosion". Accumulated findings psychologically assure us that our knowledge is certainly progressing beyond the past, despite none can control and understand a huge amount of data in detail. None could integrate them into the real one.

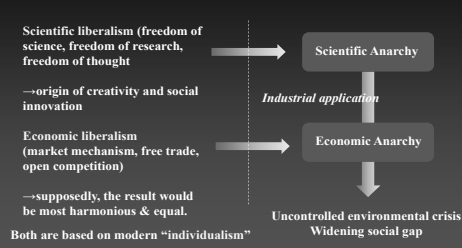
Science has been organized as social activity by a number of scientists. The conviction or belief of "progress" is socialized. People believe that tomorrow is deemed understandable scientifically. However, lack of self-control may lead to despair of getting them all sorted out or organized inside society.

The crisis of SD may be an aspect of scientific anarchy, that is also the basis of scientific progress, because of freewheeling thinking.

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The process without an agent

Modern "invisible hand"



Scientific liberalism (freedom of science, freedom of research, freedom of thought) → Scientific Anarchy
→origin of creativity and social innovation

Economic liberalism (market mechanism, free trade, open competition) → Economic Anarchy
→supposedly, the result would be most harmonious & equal.

Both are based on modern "individualism"

Industrial application

Uncontrolled environmental crisis
Widening social gap

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Restructuring of knowledge

This crisis could be no longer overcome by only a disciplinary science, because the crisis includes a wide range of issues, some of whose solutions may be opposed to each other. Interdisciplinary (multi-major) approach is inevitable.

Most of data or evidence are fragmented. We have to raise SD-oriented professionals who are capable of integrating and systematizing knowledge. To that end, ESD has to be reconstructed and oriented to getting rid of the untranslatable barrier primarily between two cultures, natural science and humanity.

Any scientist may be required attitude to try the internal-relationship among other sciences beyond a specialization (panoramic view), not to take a part, but to stand for the comprehensive integration of sciences. Accordingly, any specialty is responsible to link with others as an essential effort in the context of ESD (interdisciplinary attitude)

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Conclusion

If the global issues would certainly originate from our modern mind, the primary target of ESD would be ourselves (modern mind), not phenomenal problems, nor planet.

If modern mind embedded with us would control our behavior, we would already have the critical solution for the crisis of SD in ourselves.

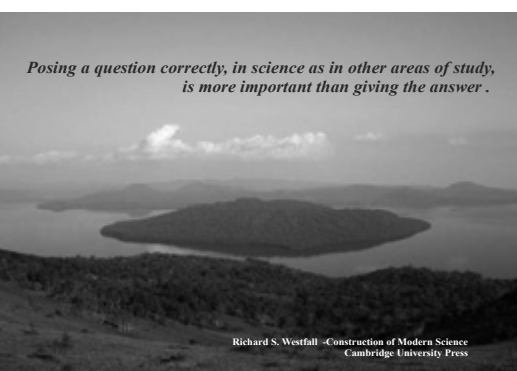
If our behavior would be motivated by our mind, the strategy of ESD should aim at reconstruction of our mind, even if it's tough question.

In this context, "humanity stands at a defining moment in history." (Agenda 21: 1-1, 1992)

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Posing a question correctly, in science as in other areas of study, is more important than giving the answer .



Richard S. Westfall -Construction of Modern Science
Cambridge University Press

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Outcomes and Prospects of ESD Campus Asia

Co-host: Korea University (Republic of Korea), Seoul National University (Republic of Korea), Chulalongkorn University (Thailand), Beijing Normal University (China), Hokkaido University
Venue: Room D (Conference Room 4)

5th International ESD Symposium: Strategic ESD in the Next Generation

Summary

By Masao Mizuno, Faculty of Education, Hokkaido University

Over the past four years, HU's School of Education has worked closely with four other leading universities in Asia (Korea University, Seoul National University, Beijing Normal University and Chulalongkorn University) on the ESD Campus Asia Project based on interactive student exchanges. This session, held under the title of Outcomes and Prospects of ESD Campus Asia, featured discussions based on shared educational objectives, achievements and future improvements by two faculty members supervising the project from each of the universities. The meeting began with a presentation by HU, which has hosted students from Asia in workshop-style discussions on ESD issues, followed by presentations from representatives of other universities on their initiatives. Attendees learned that more than 120 students from HU and elsewhere had been hosted under the project over the past four years, and that the initiative had produced certain positive results. These include the establishment of a social student network in Asia based on the Buddy Program (under which host school students provide comprehensive support for the studies and daily lives of international students on the program), an increasing number of students going on to graduate school based on their international experience, and the decision by a university to adopt ESD in its future teacher training course curricula. While recognizing issues such as the ideal financial basis for interactive student exchanges, follow-up work in relation to participating students and upper limits on student numbers, attendees also discussed quantitative expansion of the project based on work to increase the number of participating universities, and qualitative enhancement of the project based on the sharing of more educational assets. In this way, those present affirmed their commitment to creating ESD campuses in Asia through continued collaboration to further promote this project.

Presentation

Brief background of ESD Campus Asia Project



Masao Mizuno
Professor, Hokkaido University
(Chairman)



Jun Moriya
Professor, Hokkaido University

Outcomes and Prospects in Korean University



Yong Jin Hahn
Professor, Dean



Seung Hyun Son
Professor

Outcomes and Prospects in Seoul National University



Chan-Jong Kim
Professor,
Vice Dean



Johannes Tschapka
Associate Professor



Young Joo Lee
PhD candidate

Outcomes and Prospects in Beijing Normal University



Xuelian Li
Professor



Chen Wang
Associate Professor

Outcomes and Prospects in Chulalongkorn University



Charoonsri Madiloggovit
Professor



Fuangarun Preededilok
Associate Professor

ESD Campus Asiaの成果と展望

共催: 高麗大学校(韓国)、ソウル大学校(韓国)、チュラロンコン大学(タイ)、北京師範大学(中国)、北海道大学
会場: Room D (第4会議室)

サマリー

報告者: 北海道大学大学院教育学研究院教授 水野 眞佐夫

北海道大学教育学部がアジアの有力4大学(高麗大学校、ソウル大学校、北京師範大学、チュラロンコン大学)と過去4年間取り組んできた双方向生学生交流を基盤としたESD国際協同教育(ESD Campus Asia Project)について、各大学の担当教員2名ずつが参加し、「ESDキャンパスアジアの成果と展望」と題して、共通の教育目標の確認と到達点、さらに今後の改善点を踏まえた議論が行われた。ESDの諸課題に対し、アジアの学生が一同に会して議論するワークショップ形式の北大の実施報告を皮切りに、各大学の取組が報告された。すでに4年間で参加学生は北大生を含み120名を越え、ホスト校の学生が包括的な修学・生活支援を行うBuddy Programを根幹としたアジアに学生のソーシャルネットワークが形成されていること、国際経験を基に大学院に進学する学生が増えていること、次世代の教師養成教職課程にESDを取り入れた大学など、一定の成果が得られていることが確認された。一方で、双方向生学生交流に伴う財政的基盤の在り方、参加学生のフォローアップ、参加学生数の上限などの課題も認識されたが、参加大学の拡大によるプロジェクト量的拡大と、教育資産のさらなる共有化による質的向上が議論され、今後も協同で本プロジェクトを推進し、ESDのアジアにおけるキャンパス形成にむけて努力していくことが確認された。

プレゼンテーション

ESD Campus Asiaの歩み



水野 眞佐夫
北海道大学
教育学研究院
教授(司会)



守屋 淳
北海道大学
教育学研究院
教授

韓国・高麗大学校師範大学における成果と展望



Yong Jin Hahn
Professor, Dean



Seung Hyun Son
Professor

韓国・ソウル国立大学校師範大学における成果と展望



Chan-Jong Kim
Professor,
Vice Dean



Johannes Tschapka
Associate Professor



Young Joo Lee
PhD candidate

中国・北京師範大学における成果と展望



Xuelian Li
Professor



Chen Wang
Associate Professor

タイ・チュラロンコン大学における成果と展望



Charoonsri Madilogovit
Professor



Fuangarun Preededilok
Associate Professor

Brief background of ESD Campus Asia Project ESD Campus Asia の歩み



Parallel Session 1

Outcomes and Prospects of ESD Campus Asia

5th International ESD Symposium
Strategic ESD in the Next Generation
Saturday, October 25th, 2014

1

Program

16:00 – 16:10 Brief background of ESD Campus Asia
Masao Mizuno & Jun Moriya

Outcomes and Prospects of ESD Campus Asia

16:10 – 16:25 In Korean University
Seung Hyun Son & Yong Jin Hahn

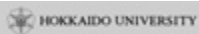
16:25 – 16:40 In Seoul National University
Johannes Tschapka, Young Joo Lee & Chan-Jong Kim

16:40 – 16:55 In Beijing Normal University
Chen Wang & Xuelian Li

16:55 – 17:10 In Chulalongkorn University
Charoonsri Madiloggovit & Fuangrun Preededilok

17:10 – 17:50 Overall Discussion
18:00 – 18:30 Wrap-up Discussion

Saturday, October 26th, 2014



2

Historical Background



ESD International Network
ESD Campus Asia
ESD Campus Asia
ESD Campus Asia

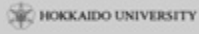


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Hokkaido University Program 2014

Date	10:00–11:00	11:00–12:00	12:15–13:15	13:30–14:30
17-Aug	Arrival	Arrival	Breakfast in	Welcome Reception
18-Aug	Campus Tour	Exchange	Exchange	Exchange
19-Aug	Exchange	Exchange	Exchange	Exchange
20-Aug	Exchange	Exchange	Exchange	Exchange
21-Aug	Exchange	Exchange	Exchange	Exchange
22-Aug	Exchange	Exchange	Exchange	Exchange
23-Aug	Exchange	Exchange	Exchange	Exchange
24-Aug	Exchange	Exchange	Exchange	Exchange
25-Aug	Exchange	Exchange	Exchange	Exchange
26-Aug	Exchange	Exchange	Exchange	Exchange
27-Aug	Exchange	Exchange	Exchange	Exchange
28-Aug	Exchange	Exchange	Exchange	Exchange
29-Aug	Exchange	Exchange	Exchange	Exchange
30-Aug	Exchange	Exchange	Exchange	Exchange

Saturday, October 26th, 2014

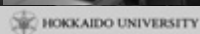


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HU Program 2014 –Group Work–



Saturday, October 26th, 2014

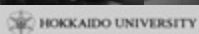


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HU Program 2014 –Group Presentation–



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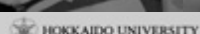


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HU Program 2014 –Fieldwork–



Saturday, October 26th, 2014

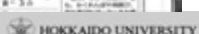


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HU Program 2014 –Fieldwork–



Saturday, October 26th, 2014



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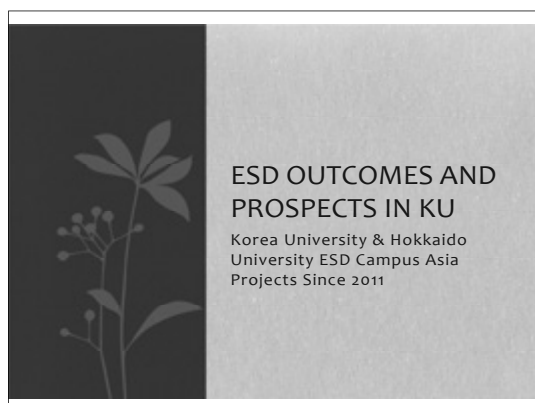


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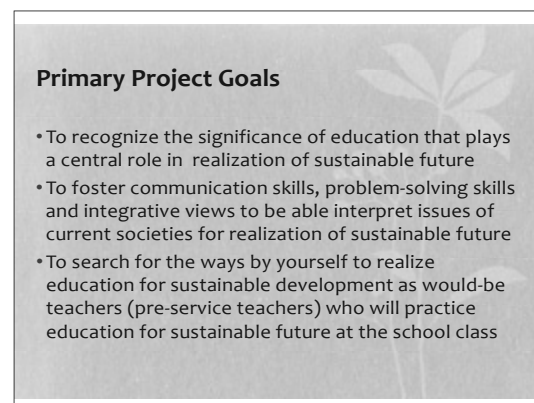


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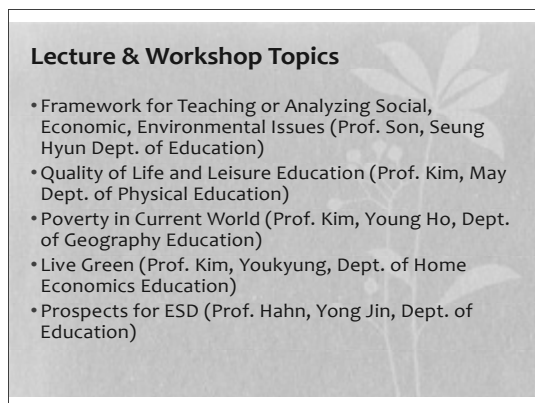
Outcomes and Prospects in Korean University 韓国・高麗大学校師範大学における成果と展望



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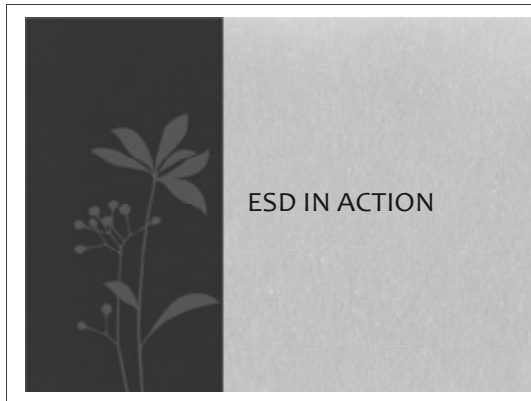


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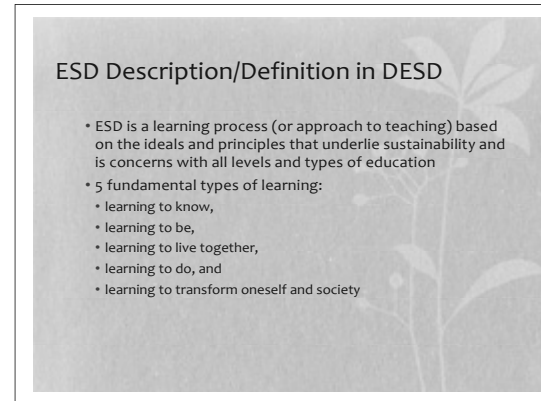


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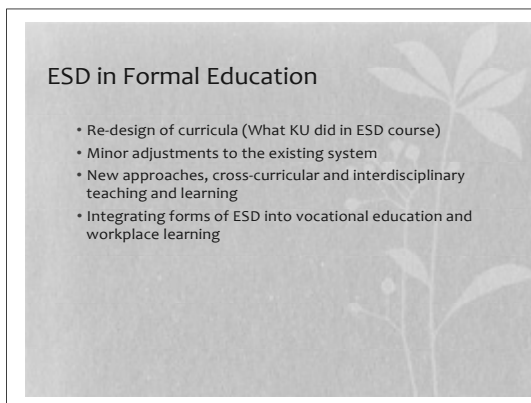
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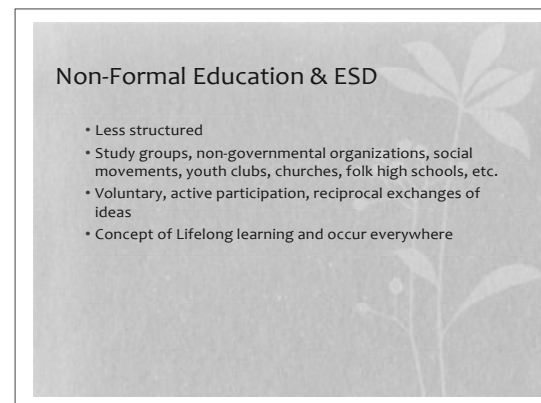
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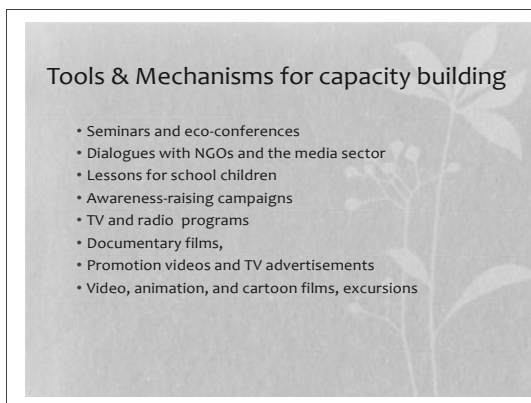
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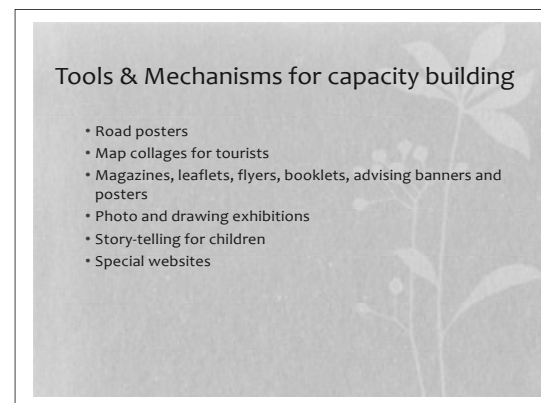
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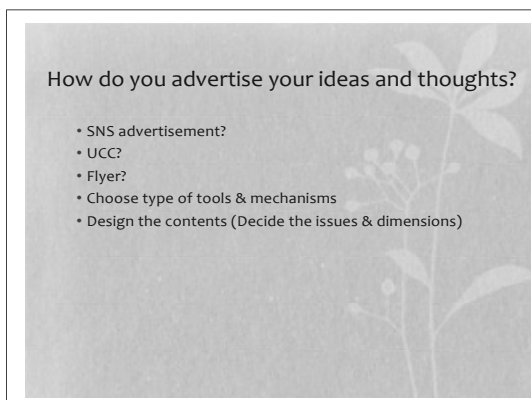
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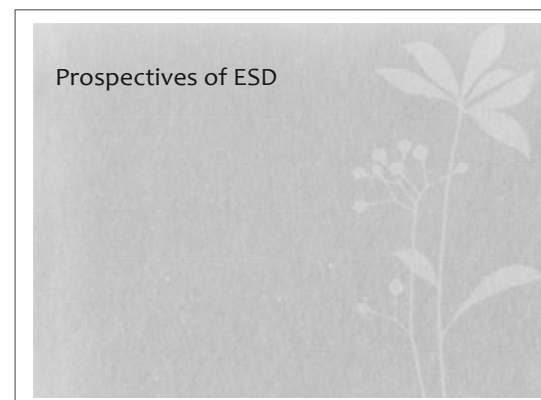
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Outcomes and Prospects in Seoul National University 韓国・ソウル大学校師範大学における成果と展望

Enhance the understanding of Sustainability in ESD Campus Asia' Lessons from 'Settlers of Catan' Game.

Johannes Tschapka, Lee Young Joo
 Seoul National University

Lessons learnt 2014 Tschapka / Lee 1

Most likely risks:

Most likely risks
Income disparity (social risk)
Extreme weather events (environmental risk)
Unemployment and underemployment (economic risk)
Climate change (environmental risk)
Cyberattacks (technological risk)
Most potentially impactful risks
Fiscal crises (economic risk)
Climate change (environmental risk)
Water crisis (environmental risk)
Unemployment and underemployment (economic risk)
Critical information infrastructure breakdown (technological risk)

World Economic Forum (2014) Global Risks 2014, Ninth Edition is published WEF Geneva

Lessons learnt 2014 Tschapka / Lee 2

Conceptualise Sustainable Development

4. If not, and you encounter the concept first time here, can you guess what "Sustainability" is?
 Please describe briefly what you think of
5. Then, how about the compound, "Sustainable Development"? When it comes to the term "Development" please describe concrete example of what should be developed?
 Please describe briefly what you think of

Lessons learnt 2014 Tschapka / Lee 3

Development Models

World-order development	Technological inventions
Alternative development	Global shift in social values
Autonomous development	Community solidarity and cultural identity

Sauve Lucie(1998) L'éthique de la responsabilité en éducation relative à l'environnement, Montreal.

Lessons learnt 2014 Tschapka / Lee 4

Brundtlandt Report 1987

"Sustainable development is development that meets the **needs of the present** without **compromising the ability** of future generations to meet their own needs".

United Nations (1987) Report of the World Commission on Environment and Development, General Assembly Resolution 42/187

Lessons learnt 2014 Tschapka / Lee 5

Encovering the Key Factors



Lessons learnt 2014 Tschapka / Lee 6

Sustainability as regulative idea

Like liberty and equality, sustainability has no single agreed meaning. It takes meaning with different political ideologies underpinned by different values and philosophy.

Huckle, John and Sterling, Stephen, (eds.) (1996) Education for Sustainability, London. Earthscan Publications Ltd.

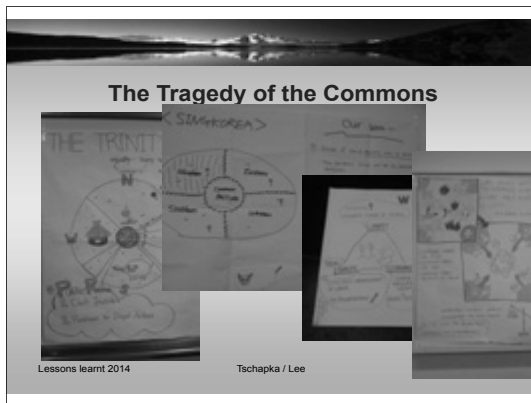
Lessons learnt 2014 Tschapka / Lee 7

The Tragedy of the Commons



Green, Joshua (2013) Moral Tribes, London. and Hardin, Garrett (1968) The Tragedy of the Commons, Nature

Lessons learnt 2014 Tschapka / Lee 8



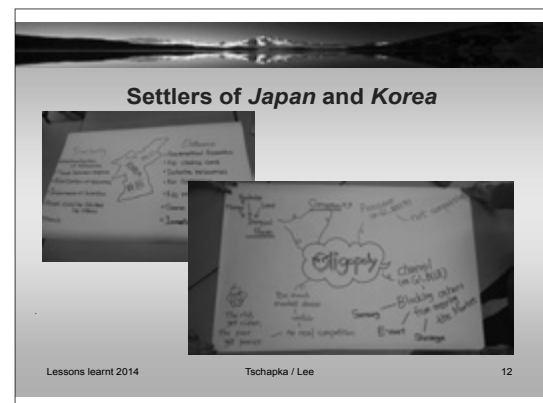
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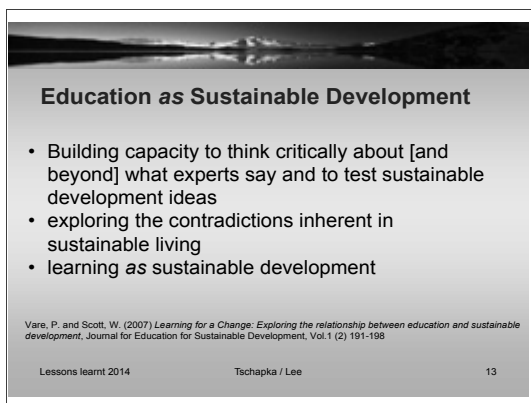
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Outcomes and Prospects in Beijing Normal University 中国・北京師範大学における成果と展望

ESD Campus Asia at BNU

CHEN WANG
Beijing Normal University

Oct. 25th, 2014
Hokkaido University

1

Contents

- * 1. Basic information and data
- * 2. The inspiration from the Chinese students' experiences
- * 3. The construction of Experiential Learning strategy
- * 4. The suggestion to ESD Campus Project in the future

2

1. Basic Information and Data

Period	2010-2014	2010: Start 2012: Students Exchange 2013: Upgrade
Totality of Students	30	China: 15 Japan: 15
Institutes involved	11	International: Earth Charter Communities Network National: China Ministry of Environmental Protection; National Astronomical observatories; Chinese Academy of Science Institutes in University Primary and Secondary Schools
Totality of Teachers	30	Professors Teachers Experts
Funds	240,000 CNY	Air Fare Accommodation

3

2. The inspiration from the Chinese students' experiences

- * 2.1 Features of the ESD Campus Project
- * 2.2 Experience is a very important teaching and learning method
- * 2.3 Conclusion and Inspiration

4

2.1 Features of this ESD Campus Asia Project

- * The most significance of ESD Campus Asia Project for Chinese students is to offer a different experience
- * Experience is a kind of very important learning beyond knowledge learning
- * Students rethinking: The harvest or the gains in **experience** of Japan (including EE/ESD) is more than the **course learning** for students. The course learning is a **bridge** for students' experience learning in this ESD Campus Asia Project.

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2.2 Experience is a very important teaching and learning method

- * Experience is the core of ESD from the angle of methodology
- * Its role in teaching / learning is beyond the knowledge convey or delivery
- * Two kind of knowledge in Human society: conveyed/ can be delivered by modern school edu. and can not be conveyed/ can not be delivered by modern school edu.
- * Experience does both the first and second works

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2.2.1 Experiences learning is more than hundreds of teaching in lecture style

- * **As a knowledge and awareness:**
 - * Experiences learning let Chinese students:
 - * To know the students and people by experience
 - * To know the environmental quality by experience
 - * To know a country, its society and culture by experience
 - * To know the friendship by experience
 - * Have the international understanding: both feeling, willingness and ability to promote international understanding

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2.2.2 Experiences learning is a very good contribution to students' attitude development

- * **As an attitudes:**
 - * Touch on students' heart
 - * Moved the students with heart
 - * Change their view or maybe world view
 - * Change their attitudes
 - * At last change their behaviors to communicate with others / to treat others kindly
 - * To construct a deep international understanding awareness

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2.2.3 Experiences learning is a good method to develop students' global vision or horizontal

- **As a teaching method:**
 - Offer opportunity to let students' feeling and touch on another civilization totally different from China right now
 - Make all of their knowledge of globalization to be seen and to be touched as truth
 - As a practice to train students' ability as a global citizen
 - Promote students to think deeply about the international relationships of the world
 - Promote students to treasure the peace, the world peace

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2.2.4 Experiences learning empowers students' ability and willingness to action

- **As a teaching method:**
 - Offer opportunity to let students see, hear and experience the concentration and hard work both from students and from the society (like waiter or waitress in shop, people on the road to point the road and direction to students) in Japan
 - Promote students' willingness to act or do things in good and kind behaviors
 - Training students' skill to imitate to action in a kind and gentle way or behaviors
 - Promote students' willingness to try to construct a better social environment
 - Let students to treasure the respect among people

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2.3 Conclusion and Inspiration

- Knowledge education does not work for attitudes and behavior change for children, but knowledge education does work for adult's some behaviors change
- Attitudes and behaviors change is depended on experience learning or learning by doing

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3. The Construction of Experiential Learning Strategy

- **3.1 Concept: Experiential learning**
- **3.2 Factors and Process**
- **3.3 Strategy for ESD Campus Asia**

12

3.1 Concept: Experiential learning

- Based on psychological characteristics and laws of the students, experiential learning shows course content through real events or creating situations, and then enables students to experience, understand and construct knowledge and emotion, attitude and generate meaning, and put them into practice.
- The concept of experiential learning is attached to the presence of student's life from the perspective of life philosophy and Constructivism (John Dewey, J. Piaget, Lev Vygotsky etc.)

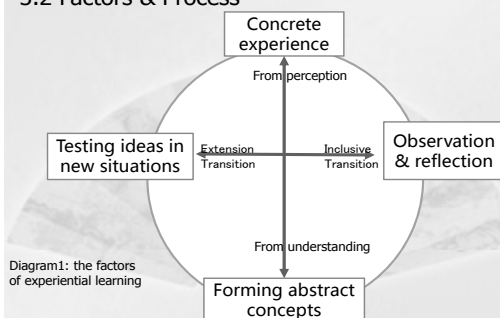
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Kolb's experiential learning

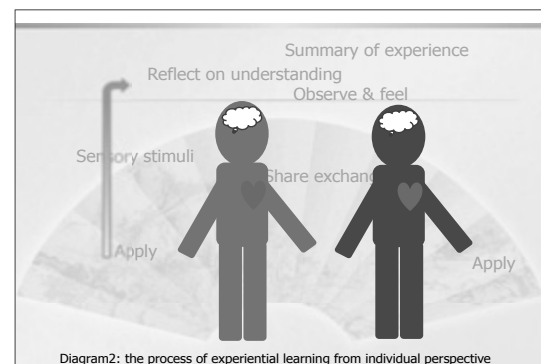
- **Core idea:**
- knowledge is created through transformation of experience.
- The learner has priority over subject matter knowledge of the teachers.

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3.2 Factors & Process

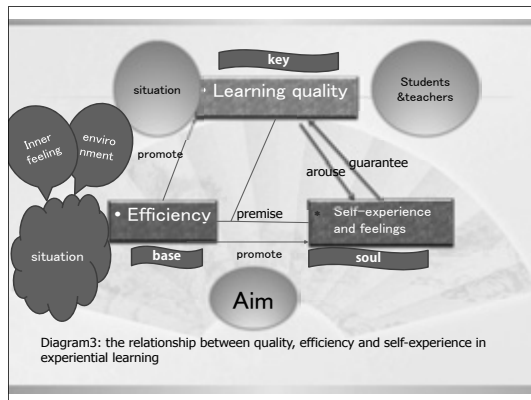


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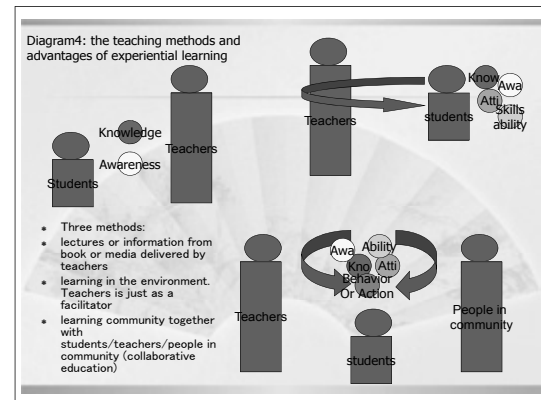


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5th International ESD Symposium: Strategic ESD in the Next Generation



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3.3 Strategy for ESD Campus Asia

- A) Teaching methods: make experience learning teaching method into the mainstream education method areas to let pre-service teacher have the preparation in method in ESD
- B) Create stimulate situation and well-organized activities: experience indirectly and directly
- C) critical thinking with Environmental information—under the modern society with huge information everyday and construct the inner cognition, attitude and core value

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- D) Real world learning – make the education linked with the real world issues, based on real world issues to learning and practice
- E) Cooperative learning as the way to improve ability and achievement of students
- F) Expand experience and imagination: add others' experience to personal experience and using what students learn through this activity to create more imagination

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4. Suggestion for ESD Campus Project in the future

- 4.2 Suggestions for HU, the leadership of ESD Campus
 - 4.2.1 Students' learning in Japan
 - Keep the summer holiday learning
 - If possible, expanding participating students from 5 to 10 or more
 - 4.2.2 Developing Students' forum
 - based on action research in the real world issues or some other designs in education activities
 - 4.2.3 Linked with some initiatives at UN level or international level to enlarge the influences

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Thanks for your attention!

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Outcomes and Prospects in Chulalongkorn University タイ・チュラロンコン大学における成果と展望



Outcomes and Prospects of ESD Campus Asia Project

Associate Professor Charoonsri Madiloggovit, Phd.
 26 October 2014

1

Background

□ Chulalongkorn University joined the ESD Campus Asia project in 2013



2



@HU
 18-26 August 2013



@ CU
 4-13 September 2013

3

- Exchange 5 undergraduate students each year



2013



2014

4

Selection Criteria for the Exchange Students

- Undergraduate student
- Passed ESD course
- Third year student (5 yrs CU edu curriculum)
- Any major of study
- Can speak English

5

Activities

- In classroom
- Outside classroom
 - Study trip
 - Cultural exchange

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Activities in Classroom

- Lecture and Discussion
- Requirement to share ESD experiences to both CU undergraduate and graduate students who are studying ESD course in that semester

7

Activities Outside Classroom

- Study trip
 - Mangrove forest planting
 - Museum of Agriculture
 - Chulalongkorn University Demonstration School
 - Private enterprise
- Cultural exchange
 - Eating
 - Living
 - Shopping
 - Sight-seeing
 - Meeting new friends

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5th International ESD Symposium: Strategic ESD in the Next Generation

Mangrove forest planting

⇒ To preserve ecosystem so fish can live and plants can grow

⇒ to restore livelihoods and prosperity and create awareness of the benefits of the mangroves

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Museum trip

- to visit exhibitions at the **Golden Jubilee Museum of Agriculture** in Pathumthani province to learn about His Majesty the King's agricultural initiatives and royal projects.
- The museum shows the development of agriculture and modern agricultural technology, covering each aspect of land development, forestry, fishery, animal husbandry, and ecology. Also it has rice demonstration fields, and presentations on the lifestyles of Thai farmers by region.

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Visit Chulalongkorn University Demonstration School

to observe learning and teaching in school

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Visit private enterprise

To learn how **SCG (Siam Cement Groups)** conduct business in line with good corporate governance and sustainable development principles throughout 100 years. The Group's longstanding tradition of learning, adjustment and development in all areas has enabled SCG to survive the wave of crises and challenges and earn widespread recognition as a role model for other businesses, both locally and internationally.

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Outcomes of ESD Campus Asia project

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3 groups of student gain the direct and indirect benefits.

year	Group 1 exchange undergraduate students
2013	5
2014	5

Direct benefits from exchange program

14

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Indirect benefits from attending the seminar (sharing ESD experience in HU and CU)

Year	Group 2 Undergraduate students studying ESD at CU	Group 3 Graduate students studying ESD at CU
2013	259	301
2014	226	216

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Total numbers of students

	Direct benefit	Indirect benefit		Total
	G1. Exchange students	G2. Undergraduate students studying ESD at CU	G3. Graduate students studying ESD at CU	
2013	5	259	301	565
2014	5	226	216	447
Total	10	485	517	1,012

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5th International ESD Symposium: Strategic ESD in the Next Generation

Results of the evaluation

The 2 hours seminar on 9 -10 September 2013

- 90% of all students satisfy with the seminar (knowledge is mostly for undergraduate level)
- 95% of all students would like to join ESD Campus Asia project.

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Also indirect benefits for public and CU community (know the ESD movement)




Giving interview about ESD Campus Asia Project for publishing in CU English magazine



18

Social Awareness






Against Amnesty Bill Protest in November 2013



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More cooperation among organizations, universities and faculty members (Lecturers came from other universities, faculties and departments)





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MOU : enhancing cooperation



- CU and HU signed MOU in May 2014 to enhance the cooperation and to develop academic and cultural interchange, scientific research and other activities.

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Expanding human network Never ending relationships




Visiting friends in Korea last summer

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In conclusion

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Collaborative learning







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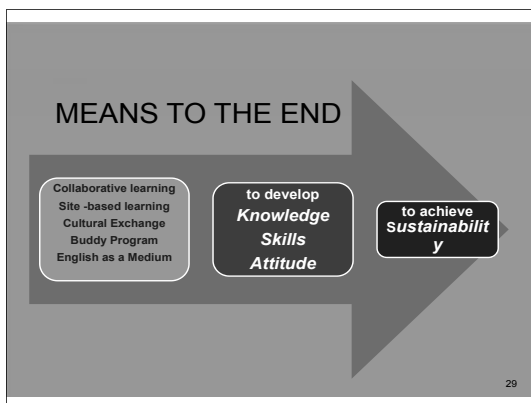
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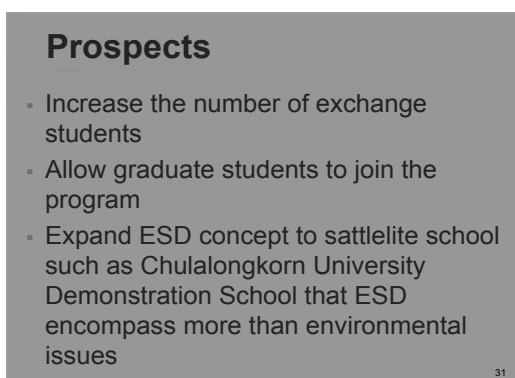
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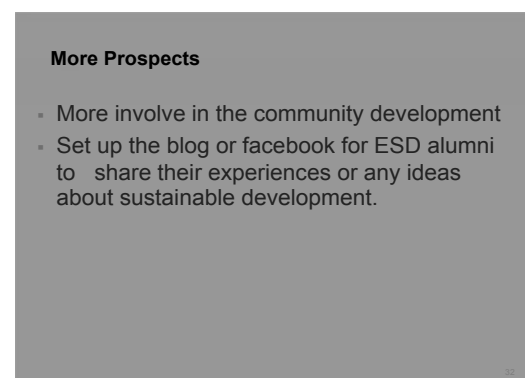
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5th International ESD Symposium: Strategic ESD in the Next Generation



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Summary

By Takashi Nomura, Associate Professor, Hokkaido University of Education Kushiro Campus ESD Promotion Center (Session Moderator)

In the final year of the UN Decade of Education for Sustainable Development (DESD), attendees at this session summarized the activities of UNESCO Associated Schools, which have played a central role in implementing ESD in school environments, and involved discussions on post-DESD prospects. In particular, next-generation youth development and the empowerment of teachers to support such development were stressed as future ESD prospects. To support in-depth discussions on the summary and prospects, the session featured presentations by representatives of secondary schools within the UNESCO Associated School network, a board of education supporting the activities of such schools, and universities. The speakers were Fusayuki Kanda (the former Director of Hokkaido University of Education's Kushiro Campus ESD Promotion Center, which supports the activities of UNESCO Associated Schools in Hokkaido), Chihiro Sakai (the current Deputy Director of the Center), Yuji Kanazawa (representing the Rausu Town Board of Education, which has registered all schools in the town – kindergartens, elementary schools, junior high schools and a high school – as UNESCO Associated Schools), Yoshihiko Matsuyama from Hokkaido Noboribetsu Akebi Secondary School (a UNESCO Associated School promoting education for international exchanges and international understanding), and Takayuki Gamo (representing Sapporo Odori High School as another UNESCO Associated School).

Below are summaries of the five presentations, which were based on the perspectives of next-generation youth development and teacher empowerment.

(1) Dr. Kanda stressed, based on the UNESCO Constitution, the importance of policy continuity and horizontal cooperation among UNESCO Associated Schools. (2) Based on his practice of school education in eastern Hokkaido, Mr. Sakai outlined the importance of implementing a shift from classroom understanding to behavioral understanding in order to support the development of active future leaders. He also highlighted the significance of developing mutual education involving locals who will support the development of future leaders. (3) Mr. Kanazawa highlighted the importance of developing bear-related studies, which have been systematized by local schools and Shiretoko Nature Foundation, into Shiretoko-related studies as part of community education. He also stressed the significance of raising the awareness of teachers through workplace transfers and improving teacher training programs. (4) Mr. Matsuyama spoke about promoting education for international understanding at his school under a six-year unified lower and upper secondary school program. He underlined the importance of obtaining Super Global High School (SGH) certification to encourage the development of communication skills and problem-solving abilities among students, implementing practical activities, and collaborating with universities and local communities to build problem-solving expertise. (5) Mr. Gamo outlined education for international understanding at the part-time credit-system high school where he works, stressing the importance of promoting such education among students to ensure enhanced support for and sharing of learning by students and teachers.

The session highlighted that UNESCO Associated Schools fostering next-generation leaders based on a post-DESD agenda must remain open to all schools supporting the UNESCO Constitution, and that they must maintain a vision that combines student growth with mutual learning involving teachers and locals. Such an approach will help to address issues faced by individual schools and foster the target abilities and attitudes among those involved.

Presentation**Popularization of UNESCO Associated Schools in Hokkaido and Related Issues****Fusayuki Kanda**former professor at
Hokkaido University of Education

Japan's ASP Univ Net – a network of universities promoting ESD – provides support to institutions applying for UNESCO Associated School status. The presentation will highlight support for UNESCO Associated Schools in Hokkaido provided by the Hokkaido University of Education Kushiro Campus primarily via its ESD Promotion Center.

Learning about Bears and UNESCO Associated Schools in Rausu Town**Yuji Kanazawa**Manager, Nature Education Section,
Rausu Town Board of Education

All schools in Rausu Town are registered as UNESCO Associated Schools. Against this background, the presentation will highlight education on bears, which forms the core of local natural environment educational programs and is expanding to include information on wildlife and relationships between people and the natural environment.

Enhanced Educational Value for UNESCO Associated Schools in Hokkaido – Challenges and Prospects of ESD**Chihiro Sakai**Associate Professor and Deputy Director,
Hokkaido University of Education
Kushiro Campus ESD Promotion Center

The presentation will outline the educational value of ESD in teaching at UNESCO Associated Schools in Hokkaido, and will highlight future initiatives planned at the ESD Promotion Center regarding investigation and research on related challenges and prospects (i.e., educational value, content and methods of ESD).

ESD Initiatives at a Secondary School**Yoshihiko Matsuyama**Hokkaido Noboribetsu
Akebi Secondary School

The presentation will highlight ESD initiatives at Hokkaido's only integrated junior and senior high school (as of October 2014) based on its ESD calendar.

The Past and Future of UNESCO Associated Schools – The Case of Sapporo Odori High School**Takayuki Gamo**Sapporo Odori
High School

The presentation will outline the objectives of Sapporo Odori High School's assumption of UNESCO Associated School status and highlight the school's past activities based on these objectives, related achievements and future challenges.

サマリー

報告者: 北海道教育大学釧路校ESD推進センター事務局長准教授 野村 卓(司会担当)

本分科会は、持続可能な発展のための教育の10年(DES)の最終年にあたり、これまで学校教育におけるESD実践を中核的に担ってきたユネスコスクール活動の総括とポストDESの展望について議論を行った。特に、将来のESD展望の視点として、重点を置いたのが「次世代YOUTHの養成」並びに、これらを支える「教員のエンパワメント」の2点であった。

分科会では、この総括および展望の議論を深めるために、ユネスコスクール実践を展開している高等学校およびユネスコスクール活動を支援する教育委員会、大学関係者から報告をお願いした。報告としては北海道のユネスコスクール活動支援を行う北海道教育大学釧路校ESD推進センターから、前・センター長の神田房行氏、現・副センター長の境智洋氏、北海道で町内の幼稚園、小学校、中学校、高等学校のすべての学校をユネスコスクールに登録した羅臼町教育委員会から金澤裕司氏、ユネスコスクールにおいて国際交流・国際理解教育を推進する登別明日中等教育学校の松山美彦氏、札幌市立札幌大通高等学校の蒲生崇之氏に依頼した。

以下、分科会の2つの視点「次世代YOUTHの養成」並びに「教員のエンパワメント」を中心に、5報告の概要を取りまとめる。

①神田報告はユネスコ憲章を土台に、政策的継続性の重要性と共に、ユネスコスクール間の、いわゆる横の連携の重要性が提起された。②境報告は自身の北海道東の学校教育実践を土台にして、知の体系を「学校知」から「行動知」に転換させ、次世代を行動主体に育て上げる重要性と共に、これを支える地域の大人との相互学習形成の重要性が提起された。③金澤報告は町内学校および知床財団と形成してきたクマ学習の体系化を通して地元学としての知床学へと発展させる重要性と共に、異動を伴う教員の啓発、教員研修の充実を図る重要性が提起された。④松山報告は中学校と高等学校の6年間の一貫教育校において、国際理解教育を推進するにあたり、コミュニケーション能力と課題解決能力を高めるためにスーパーグローバルハイスクール(SGH)の認定を受けながら、実践活動を展開し、課題解決における専門性の高まりに対して大学や地域との連携の重要性が提起された。⑤蒲生報告は定時制・単位制学校が取り組む国際理解教育が生徒自身の課題でもあることにより、生徒及び教員との共感・共有の深化の重要性が提起された。

改めて、ポストDESを念頭においた次世代を養成するユネスコスクールは、ユネスコ憲章を共有する全ての学校に対して門戸を開きながらも、実践する学校はそれぞれで抱えている課題の解決や伸ばしたい能力や態度の涵養を図るために、児童・生徒の成長のみならず、教員や地域の大人と連携した相互学習を図り、一体となった成長の視点が求められることが確認された分科会であった。

プレゼンテーション

これまでの北海道ユネスコスクールの普及と課題



神田 房行
前北海道教育大学
教授

我が国ではESDを推進する大学ネットワーク(ASP Univ Net)をつくりユネスコスクール加盟への支援を行ってきた。北海道教育大学釧路校がESD推進センターを中心に取り組んできた北海道におけるユネスコスクール支援について報告する。

羅臼町におけるクマ学習とユネスコスクール



金澤 裕司
羅臼町教育委員会
自然教育主幹

町内の全学校がユネスコスクールとして登録されている羅臼町において自然環境教育の核となり、野生動物全般や自然環境と人との関係を考えさせる教育へと広がりつつあるヒグマ教育について報告する。

北海道ユネスコスクールの教育的価値の探求～ESDの課題と展望～



境 智洋
北海道教育大学
釧路校ESD推進センター
副センター長・准教授

北海道のユネスコスクール教育実践におけるESDの教育的価値、またそれらの課題と展望の調査・研究(ESDの教育的価値・教育内容・教育方法)について、今後センターとして取り組むことについて報告する。

中等教育学校におけるESDの取り組み



松山 美彦
登別明日中等教育学校

全道で唯一の中等教育学校(2014年10月現在)におけるESDの取り組みを、ESDカレンダーに基づきながら報告する。

ユネスコスクールとしての今までとこれから



蒲生 崇之
市立札幌大通高等学校

市立札幌大通高等学校の場合大通高校がユネスコスクールに加盟したねらいと、それに基づくこれまでの活動内容、およびその成果と今後の課題について報告する。

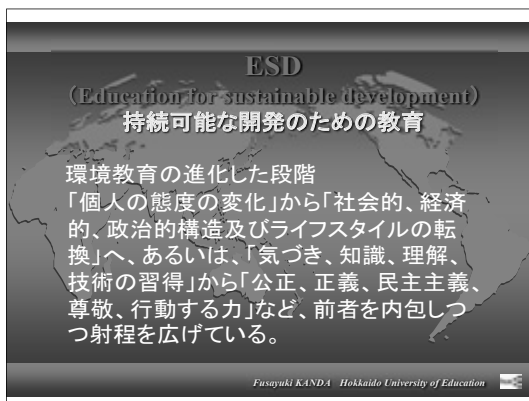
Popularization of UNESCO Associated Schools in Hokkaido and Related Issues これまでの北海道ユネスコスクールの普及と課題



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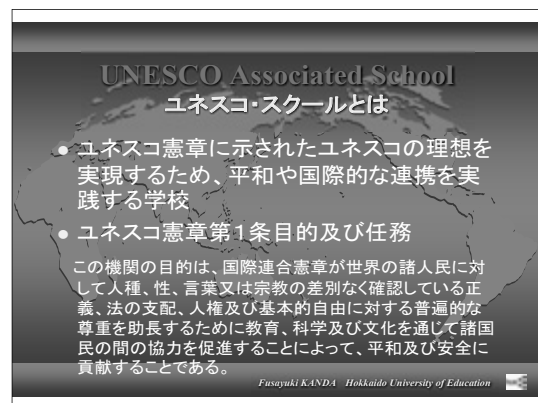
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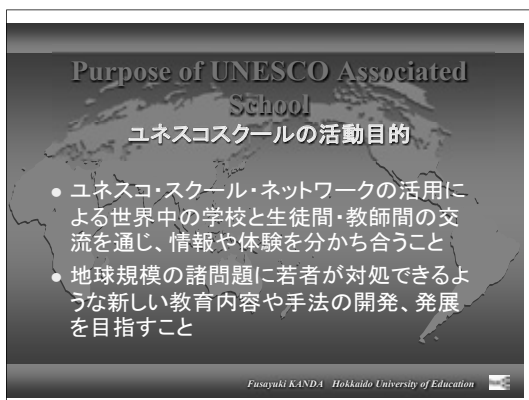
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Qualification for Entry as UNESCO Associated School 参加資格

- 就学前教育・小学校・中学校・高等学校・技術学校・職業学校、教員養成学校は、国公立を問わずユネスコ・スクールに加盟することができる
- ユネスコの理念に沿った取り組みを継続的に実施していることが必要

Fusayuki KANDA Hokkaido University of Education

9

Duty of UNESCO Associated Schools 参加校の義務

- 法的拘束・義務はない
- 年に一度日本ユネスコ国内委員会に報告書の提出が必要
- ユネスコが提案する教材が送られ、教育現場での実験・評価を依頼されることがある
- ユネスコから年に数回、世界のユネスコ・スクールの活動報告が記載されている情報誌が送付されるとともに、ユネスコが行う様々な活動に参加する機会がある

Fusayuki KANDA Hokkaido University of Education

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Advantage of UNESCO Associated Schools ユネスコスクール加盟のメリット

国際交流の機会の増大

- 世界のユネスコ・スクールの活動情報の提供
- 世界のユネスコ・スクールと交流する機会の増加
- 韓国、中国等海外との教員交流
- 世界の教育事情、国連機関の活動の把握

国内の連携強化

- ESDのための教材、情報の提供
- ユネスコ・スクールHPを通じた情報交換
- ワークショップ、研修会への参加
- 国内の関係機関との連携強化

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Sustainable Schools in UK 英国におけるサステナブル・スクール

- 英国の教育政策のひとつ
- 国連のDESD(持続可能な開発のための教育の10年)の流れを受けての活動
- 英国の全ての学校が持続可能な開発に取り組むことを目指す
- エコ・スクールとは異なる
- 英国の教育は地方分権主義的なシステム…強制、義務はない。緩やかな指針

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Opinions of Children to Sustainable Schools (DfES, 2005) 学校がどのように持続可能性に取り組むことができるか

- 地域の環境に不満(交通の不安定さ、汚染、治安の悪さ、建物の建設による自然破壊など)
- 反社会的な行動に対する不安(人種差別や公共物の破壊、敬意がかけられていることなど)
- 世界の貧困や不公平、戦争への不安
- 将来世代を軽視した自然資源の使用、生活の質を無視した汚染、大人たちが環境問題に対して関心がないこと

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ASPUnivNet Interuniversity Network Supporting the UNESCO Associated School Project Network ユネスコスクール支援大学間ネットワーク

ユネスコスクールの活動は、1953年にASPnet (UNESCO Associated Schools Project Network) として、ユネスコ憲章に示された理念を学校現場で実践するために発足して以来長い歴史があります。世界の民間のユネスコ活動の発祥が仙台であったこともあり、2007年に仙台的宮城教育大学で行われた「国際理解教育シンポジウム」を契機に、気仙沼市を中心に地域でのASPnetへの加盟申請が一気に増えました。学校教育への大学の協力に加え、申請を大学が支援したことが、推進力となりました。2008年11月には、ユネスコスクールの集い(主催:文部科学省、宮城教育大学)が開催され、ユネスコスクールの支援を考える大学の関係者が集まり、大学間ネットワークの設立が提唱されました。同年12月2日-5日「ESD国際フォーラム2008」(主催:文部科学省、日本ユネスコ国内委員会、ユネスコ、共催:国際連合大学、財団法人ユネスコ・アジア文化センター(現在は公益財団法人)、宮城教育大学)が、東京の国連大学で開催され、そこで正式にユネスコスクール支援大学間ネットワーク(ASPUnivNet)の発足を内外に示すこととなりました。このときの参加8大学が、現在は17大学となっています。

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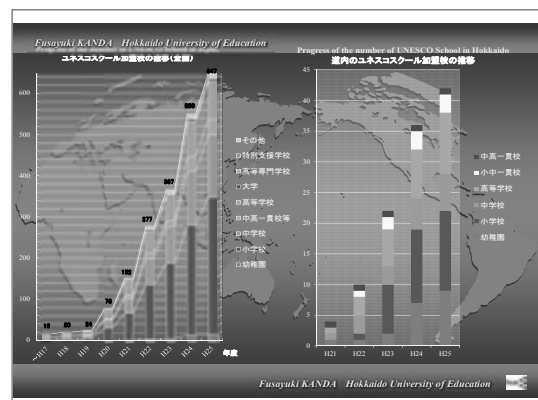
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Member Universities

What can ASPUnivNet do?

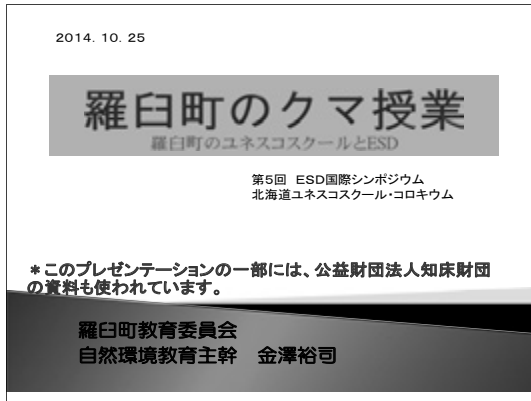
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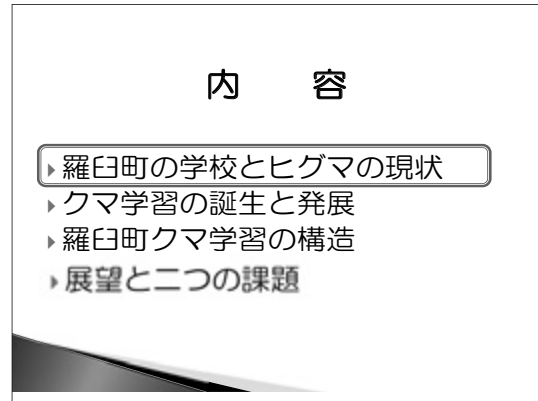


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Learning about Bears and UNESCO Associated Schools in Rausu Town 羅臼町におけるクマ学習とユネスコスクール



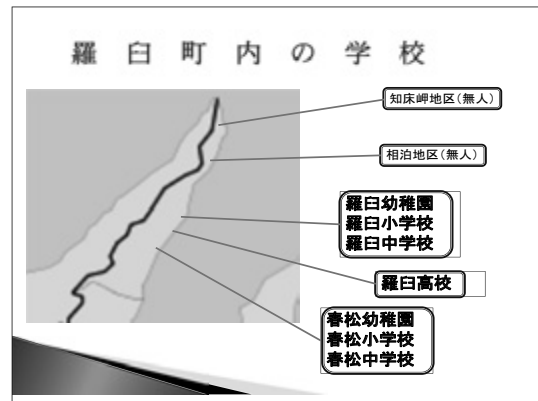
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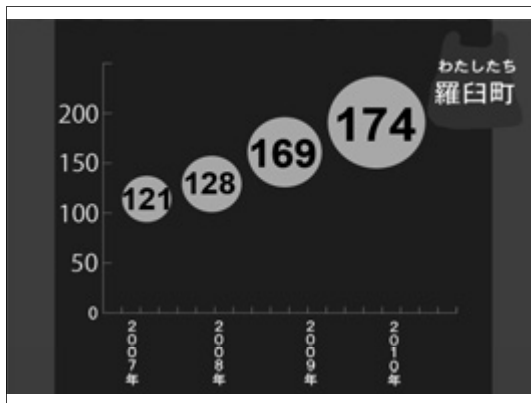
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ヒグマの行動から学ぶ

目撃のあった日 2012年

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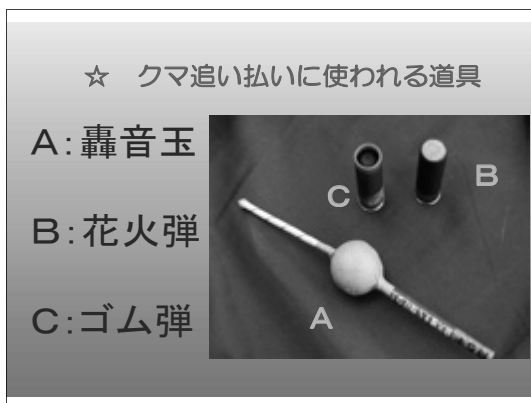
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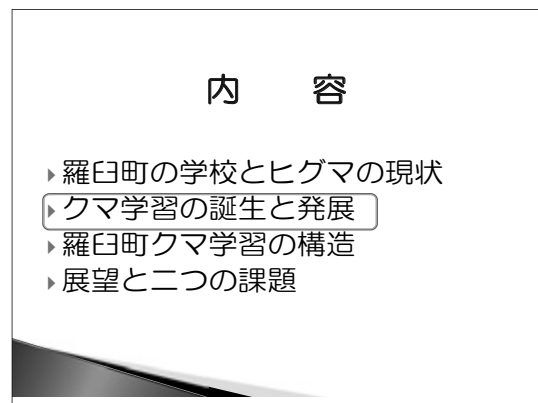
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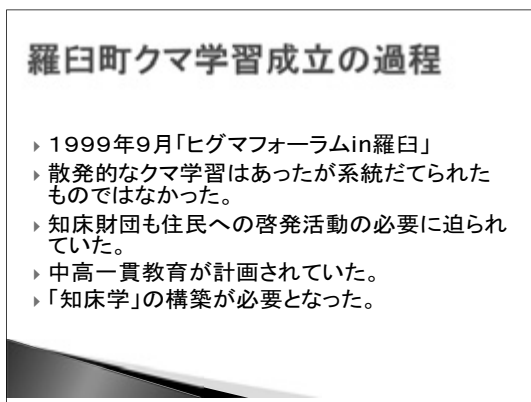
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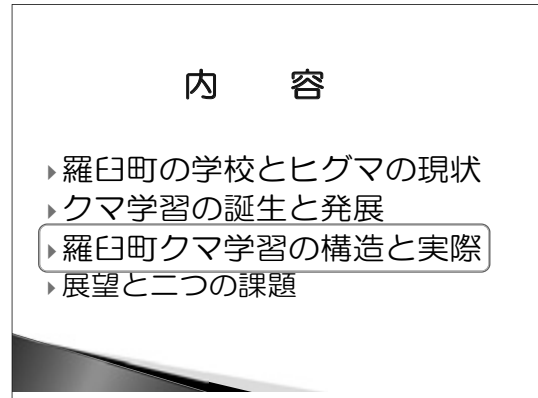
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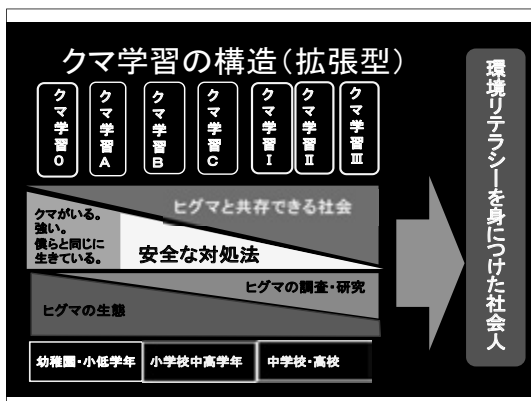
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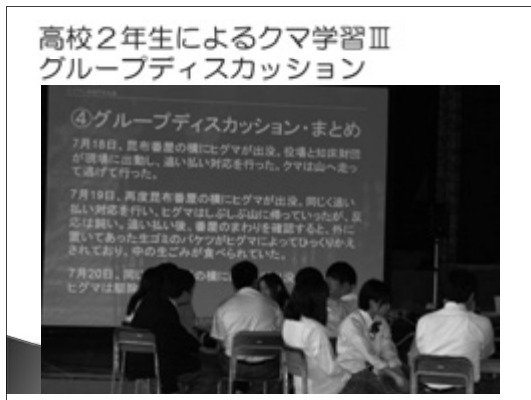
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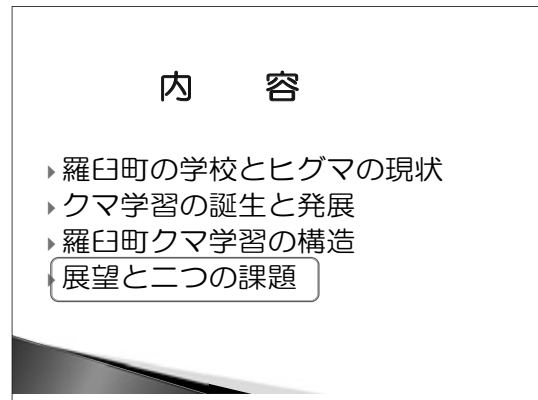
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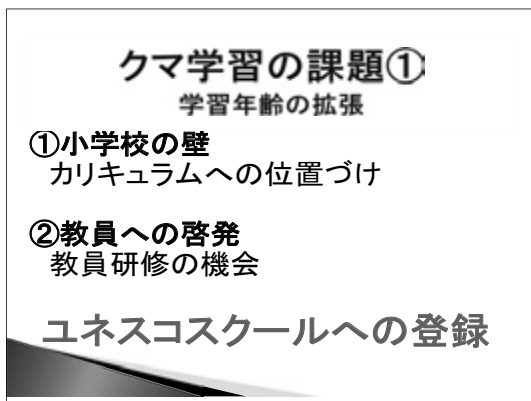
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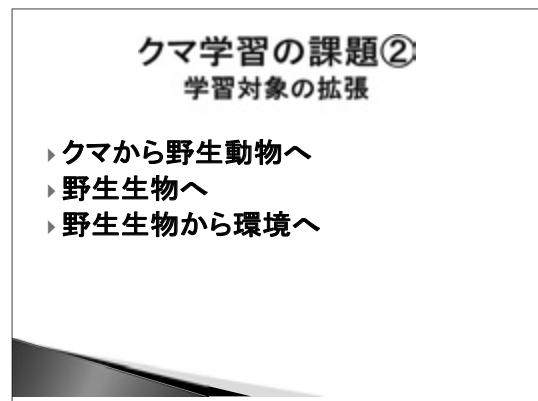
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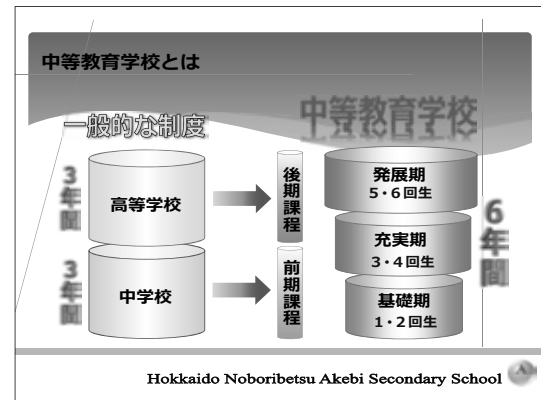


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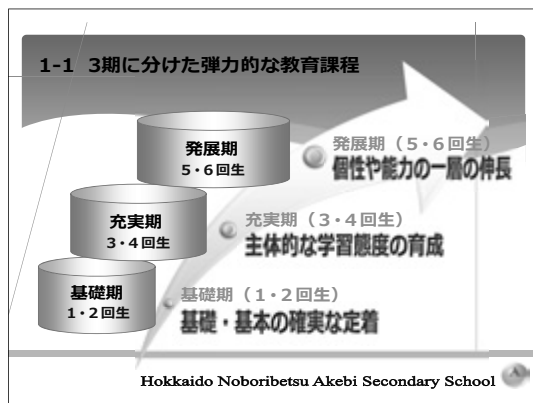
ESD Initiatives at a Secondary School 中等教育学校におけるESDの取り組み



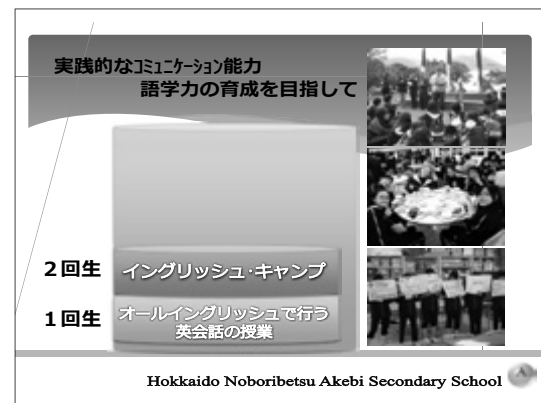
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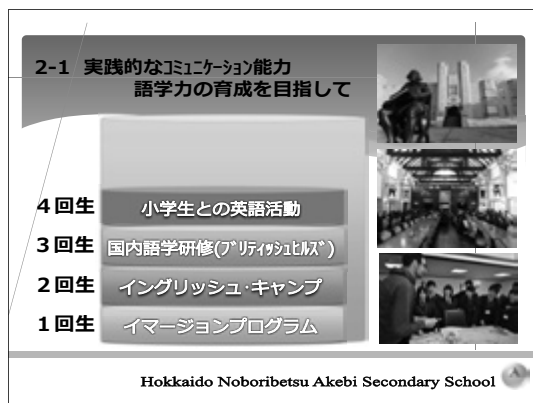
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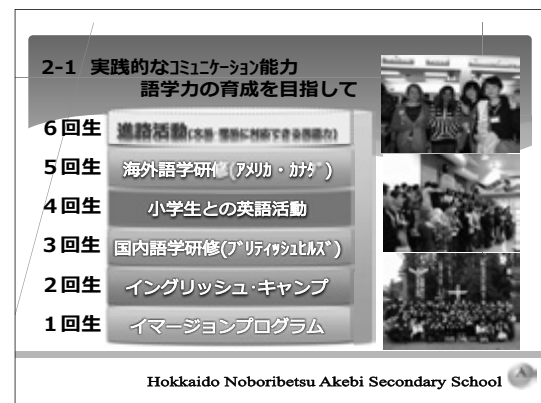
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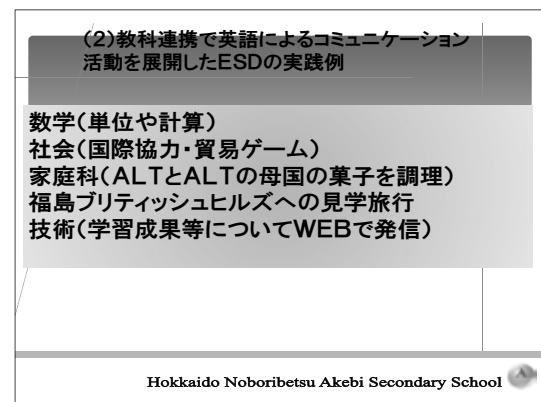
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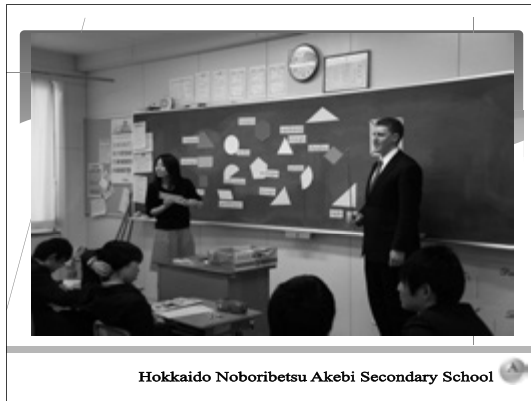
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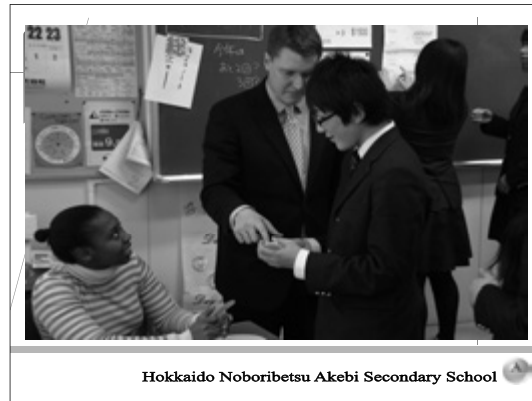


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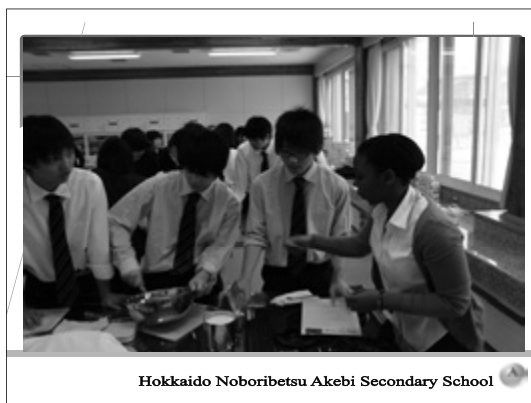
Hokkaido Noboribetsu Akebi Secondary School

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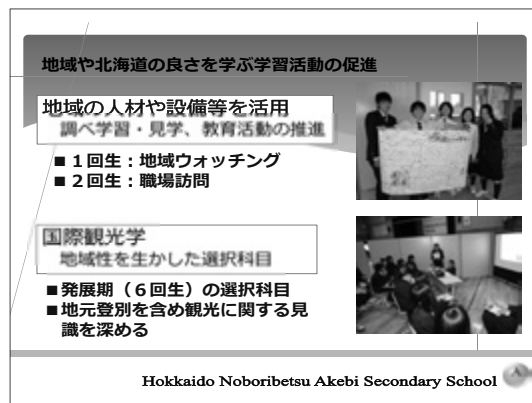
Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

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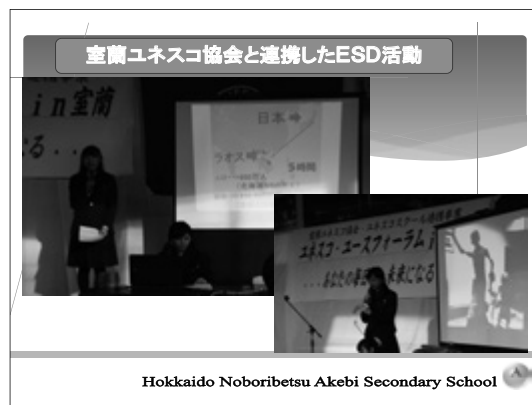
Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

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Hokkaido Noboribetsu Akebi Secondary School

17



18

スーパーグローバルハイスクール

全国の高等学校等246校(道内9校)が応募

↓ 企画評価委員会による1次審査(書類審査)

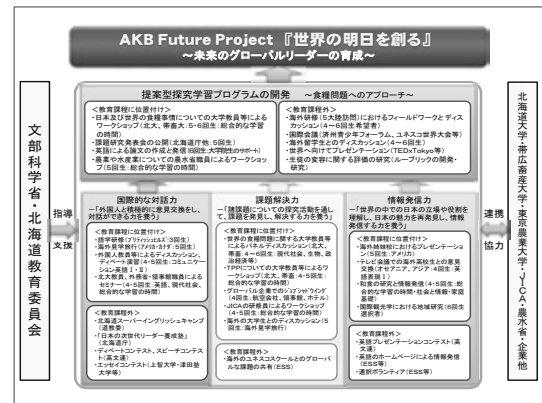
そのうち110校(道内5校)が通過

↓ 企画評価委員会によるヒアリング

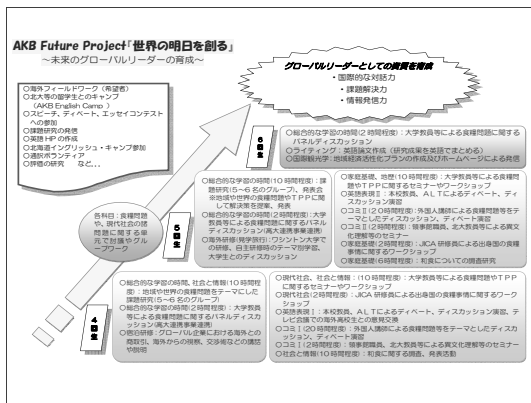
56校(道内3校)が指定

・事業は5年間実施予定(H26～)

19



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21

☆グローバルリーダー☆

世界的規模の社会課題を発見・解決できる人材

世界的規模で展開されるビジネスで活躍できる人材

グローバル人材とは、

世界に通用する人間であると同時に、日本の良さも自覚した上で働くことのできる人材

22

AKB Future Project では

食糧問題をテーマとした課題研究を実施

↓

*** 様々な視点から考察し、課題を解決する力をつける**

*** 国際的視野をさらに広げる**

23

AKB Future Project 3つの柱

- 国際的な対話力** 「外国人と積極的に意見交換をし、対話ができる力を養う」
- 課題解決力** 「課題研究や授業における探究活動を通して、課題を発見し、解決する力を養う」
- 情報発信力** 「世界の中での日本の立場や役割を理解し、日本の魅力を再発見し、情報発信する力を養う」

普段の授業で学習していることがベースとなる
今後、新たに
「外部講師による専門的な内容の講話」
「海外フィールドワーク」
「AKB イングリッシュキャンプ」 など実施

24

課題研究の実施① (総合的な学習の時間を中心として)

なぜ、課題研究を実施するのか？

論理的思考力や、課題解決力をつける
↓
前期生からの取組を深化させる



世界や日本で解決が望まれる課題を解決する方法を見つけよう

25

課題研究の実施② (総合的な学習の時間を中心として)

研究テーマは何にするのか？

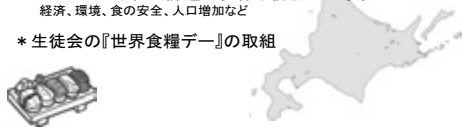
○地域(北海道)や我が国における食糧問題
○世界における食糧問題



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課題研究の実施③ (なぜ食糧問題なのか)

- *北海道という地域性→日本の食料基地
(日本の農地の4分の1を占める)
- *胆振という地域性→農業、水産業、酪農、畜産など
(身近に、結構、いろいろなものがある)
- *グローバルな社会課題→多様な視点から考察
経済、環境、食の安全、人口増加など
- *生徒会の『世界食糧デー』の取組



27

課題研究の実施④ (課題研究の進め方)

- *1グループ 4～5名
- *総合的な学習の時間、社会と情報等を中心として実施

<日程>
9月下旬まで グループ及び研究テーマ決定
10月～12月 情報収集、考察
1月～2月 発表準備
3月初旬～中旬 課題研究発表



28

課題研究の実施⑤ (課題研究の進め方)

<課題研究のプロセス>
問題発見 → 研究テーマの設定 →
情報の収集 → 研究(整理・分析) →
解決方法の提案・発表



29

平成26年度の取組

8月から 食糧や農業に関するセミナーやワークショップの開催
→講師は、北大や畜産の教員や、JICA、JETROの職員など

8月以降 英語の時間における外国人講師の授業

9月 AKB English Camp
(後期生希望者対象 20名程度)
→留学生、外国人との交流やディスカッション
1泊2日の国内留学をニセコ(予定)で実施
もちろんオールイングリッシュ

3月 海外フィールドワーク (後期生希望者対象 10名前後)
→今年は、オーストラリア(予定)
5年間の研究期間で6大陸を訪問(予定)

※ 通常の授業においても、食糧・農業に関する背景知識や
思考力・発信力を高める取組は実施されます。

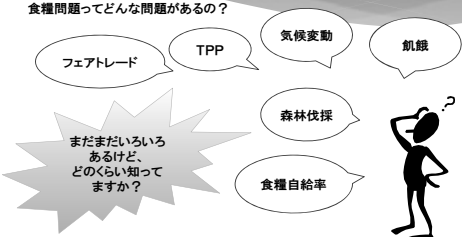
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食糧問題へのアプローチ

食糧問題ってどんな問題があるの？

フェアトレード TPP 気候変動 飢餓
森林伐採
食糧自給率

まだまだいろいろあるけど、どのくらい知っていますか？



31

スーパーグローバルハイスクール

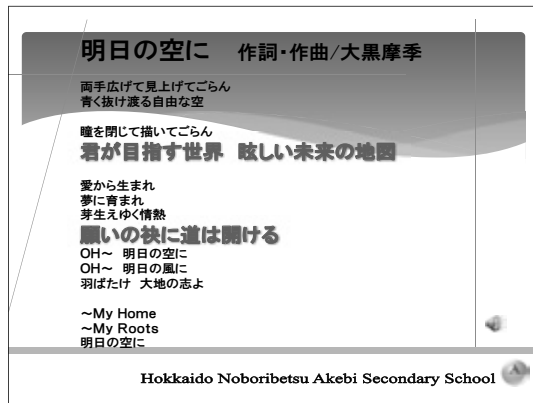
■開校の精神「明日を創る」～北海道の将来を担う人材を育む

- ① 高い知性
- ② 豊かな人間性
- ③ 健康な心身
- ④ 郷土愛と国際性

ESD・SGH の取組

世界の明日を創る

32



33

[Notice]

This report does not include presentation materials from Enhanced Educational Value for UNESCO Associated Schools in Hokkaido ? Challenges and Prospects of ESD (by Chihiro Sakai) and The Past and Future of UNESCO Associated Schools ? The Case of Sapporo Odori High School (by Takayuki Gamo) for various reasons.

[おことわり]

諸事情により、「北海道ユネスコスクールの教育的価値の探求～ESDの課題と展望～」(境 智洋)、「ユネスコスクールとしての今までとこれから」(蒲生 崇之)の発表資料は掲載しておりません。ご了承ください。

Report of Parallel Session 3

The ESD Student Forum

Host: Hokkaido University ESD Student Forum Organizing Committee
Venue: Auditorium

5th International ESD Symposium: Strategic ESD in the Next Generation

Summary

By Hiroki Akiyama, junior, School of Education, Hokkaido University

The Parallel Session 3 (ESD Student Forum) featured lively discussions on education in the next generation from student perspectives based on HU School of Education's ESD Campus Asia Project initiatives.

In the Student Presentation section, students who had participated in the ESD Campus Asia Project held annually by HU School of Education gave presentations on what they had learned from related programs held in Japan, China, Korea and Thailand. Special guest Kei Sato, a sophomore at HU's School of Education, shared experiences from his travels in Europe that summer. Hiroki Akiyama gave a presentation on ESD in Japan with focus on the impoverished conditions of rural areas in the background of urban development, the risk of losing indigenous and rural traditional cultures, and future prospects. Masashi Manabe, a sophomore at HU's School of Education, then spoke about ESD initiatives in China. He outlined achievements of environmental education there and highlighted an educational method of stressing the importance of environmental protection to future generations. Hirofumi Nagai, an HU School of Education senior whose studies focus on Korea, expressed the view that mutual understanding transcending nationality, culture and position is required to solve the problems facing humankind, such as population, food and energy issues. Yu Furukawa and Ibuki Wakasawa, both sophomores at HU's School of Education, talked about what they had learned in Thailand, such as how ESD is implemented there and educational system differences between Thailand and Japan. Lastly, Kei Sato, a special guest and a sophomore at HU's School of Education who had traveled in Europe for five weeks that summer, stressed the importance of seeing, hearing and acting for oneself.

Following the presentations, Devon Dublin (the symposium's commentator, a third-year student on a doctoral degree program at HU's Graduate School of Environmental Science and an alumnus of the Center for Sustainability Science (CENSUS)), underlined how the ESD Campus Asia Project had helped students to prepare as leaders of the future, but questioned whether the structure and education of universities can provide students with the abilities and skills necessary to solve international issues. He stressed the importance of communication, active involvement in the real world, having a purpose in life, and multicultural understanding and respect.

The subsequent Discussion and Plenary Feedback session involved bi-focal discussions on levels of ESD currently offered at schools and universities based on the presentations and comments. The first focus was on issues with educational systems. Attendees stated that students tended to study only to pass entrance examinations in many countries (particularly in Japan, China and Korea) because many people think that a diploma from a reputable university is a prerequisite to get ahead in life. The second focus was on the content of education. Presenter Kei Sato contrasted the situation in Europe (where people are often attached to their hometowns and value family get-togethers) to that in Japan (where the population is heavily concentrated in Tokyo and other metropolitan areas), stressing the importance of the former for community development. In view of HU's globalization initiatives, presenter Hirofumi Nagai argued that education for the survival of rural areas, rather than simply for globalization, is also necessary, and that students need to be educated on rural areas as well as on globalization. He is engaged in research on education for the survival of rural communities at the limits of their viability.

This session was significant as a platform for next-generation education leaders to assemble and share views on issues that require ongoing discussion as part of efforts to clarify the purpose and meaning of education.

Presentation

My thoughts on ESD

(1) What I've learned from rural life



Hiroki Akiyama
junior, School of Education,
Hokkaido University

(2) What I learned in Seoul



Yushi Nagai
senior, School of Education,
Hokkaido University

(3) How does experimental education contribute to environmental education?



Masashi Manabe
sophomore, School of Education,
Hokkaido University

(4) Campus Asia 2014 in CU — Culture and Education in Thailand



Ibuki Wakasawa
sophomore, School of Education,
Hokkaido University



Yu Furukawa
sophomore, School of Education,
Hokkaido University

(5) The invitation to "Non credo" School of Education, Hokkaido University



Kei Sato
junior, School of Education,
Hokkaido University

Commentator remarks



Devon Dublin
Junior, Graduate School of Environmental Science, Hokkaido University
Alumnus, Center for Sustainability Science (CENSUS), Hokkaido University

サマリー

報告者: 北海道大学教育学部3年 秋山 拓輝

分科会3/ESD学生フォーラムでは、北海道大学教育学部のESDキャンパスアジアプロジェクトの取り組みを元に、学生の立場から見た「次の世代の教育のあり方」について、会場全体で活発な議論が行われた。

学生プレゼンテーションでは、北海道大学教育学部が毎年主催しているESDキャンパスアジアプロジェクトの取り組みとしてプログラムの開催場所である、日本、中国、韓国、タイ、で何を学んだかを、それぞれに参加した学生が発表した。また、スペシャル・ゲストである教育学部2年の佐藤慧から、自身のこの夏のヨーロッパ旅行の体験が話された。

秋山は日本でのESDについて報告し、都市の発展の陰での地方の疲弊や先住民文化や地方伝統文化の損失の危機と今後の展望を述べた。続いて、中国のESDの取り組みについて教育学部2年の眞鍋優志が中国における環境教育の実績と、「環境の保護の重要性をどのように次の世代に伝えていくか」という教育方法を発表した。韓国についての発表では教育学部4年の長井裕史が、私たち人類が抱えるさまざまな問題—人口問題や食料問題、エネルギー問題—を解決していくためには、国や文化、立場を超えてお互いを理解していかなければならないという見解を述べた。教育学部2年の古川優・若澤美吹両氏はタイで学んだことについて発表し、タイでのESD教育のあり方や教育システムの違いを述べた。最後に、スペシャル・ゲストとしてこの夏ヨーロッパで5週間旅をした教育学部2年の佐藤慧が、自分の目で見て、聞いて、行動することの大切さを発表した。

以上のプレゼンテーションを受け、本シンポジウムのコメンテーターである環境科学院博士3年、サステナビリティ学教育センター同窓生のDevon Dublinは、ESDキャンパスアジアプロジェクトが、学生たちが将来のリーダーになる準備において貢献しているとした上で、大学の仕組みや教育が国際問題を解決できる力を学生に与えることができるのかという課題を投げかけ、コミュニケーション、現実世界との積極的な関わり、人生の目的をもつこと、多文化理解と尊重等の重要性について話した。

全体討論では、以上に述べた発表やコメントを踏まえ、果たして今の学校や大学で行われている教育がどれほど持続可能な教育となっているかについて、以下の2点を議論した。1つ目は、教育制度の問題である。多くの国、とりわけ日本をはじめとして中国や韓国では「良い大学に入学することが良い生活をおくるための必要条件」となっているために、生徒たちの学習は主に「入試」のための学習になってしまっているという議論がなされた。そして2つ目の議論では教育の内容が話し合われた。発表者の佐藤は「現在、日本は東京をはじめとした大都市に人口が集中しているが、ヨーロッパでは多くの人が自分の街に愛着をもって、家族の団欒を大切にしている。こういったものが地域のコミュニティーづくりには大事なのではないか。」と意見を述べた。また、北海道大学がグローバル化を目指していることを受けて、限界集落の存続のための教育を研究している発表者の長井は「グローバル化のための教育だけが重要なのではなく、まちの存続のための教育のような、地方のための教育も必要。一方の教育だけではなく、両方の教育を受けることが必要だと思う。」と意見を述べた。

教育の目的と意義を追求するうえで、次世代の教育を担う人材が集まり、今後も継続的に議論してゆくべき課題を共有し合えたことは、本分科会の大きな成果である。

プレゼンテーション

私がESD(持続可能な開発のための教育)について考えたこと

(1) What I've learned from rural life



秋山 拓輝

北海道大学教育学部3年

(2) What I learned in Seoul



長井 裕史

北海道大学教育学部4年

(3) How does experimental education contribute to environmental education.



眞鍋 優志

北海道大学教育学部2年

(4) Campus Asia 2014 in CU - Culture and Education in Thailand -



若澤 美吹

北海道大学
教育学部2年

古川 優

北海道大学
教育学部2年(5) The invitation to "Non credo"
School of Education, Hokkaido University

佐藤 慧

北海道大学教育学部3年

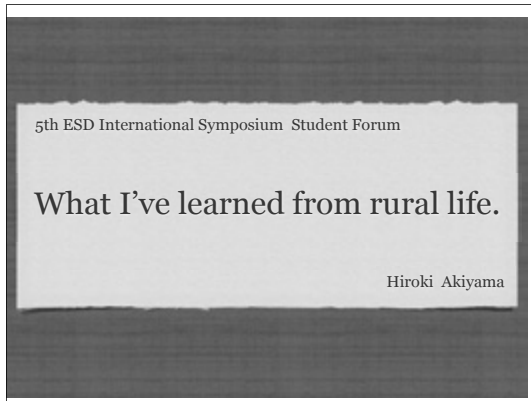
コメンテーターから



Devon Dublin

北海道大学大学院環境科学院3年
(サステナビリティ学教育研究センター 同窓生)

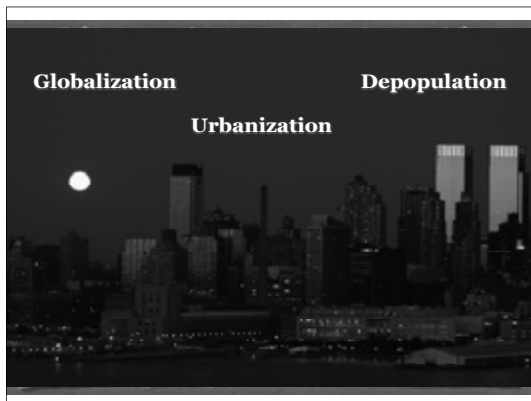
(1) What I've learned from rural life



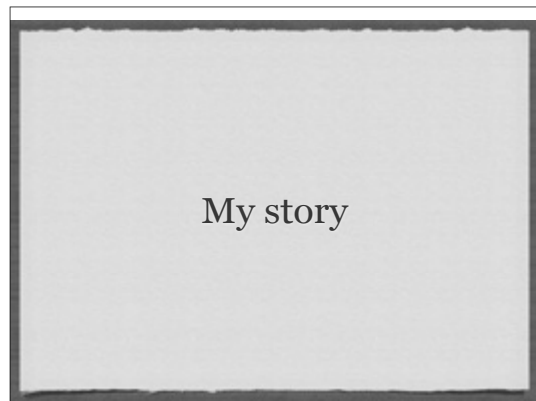
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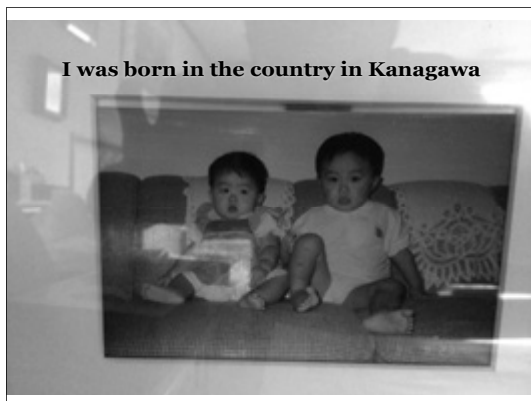
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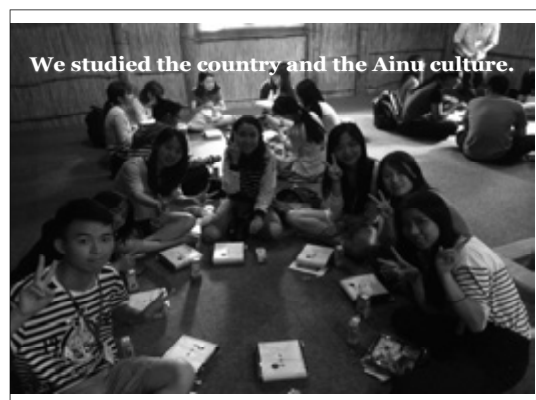
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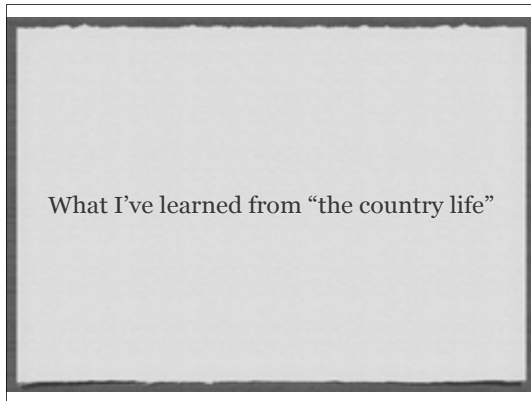
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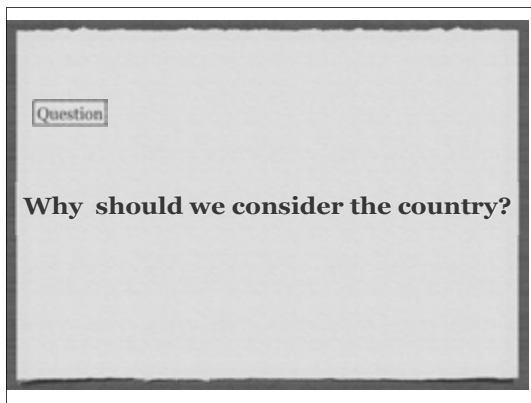
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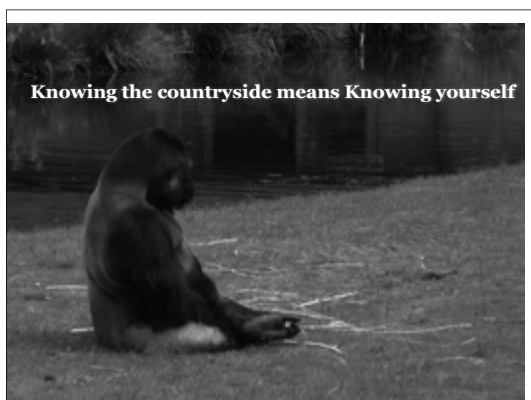
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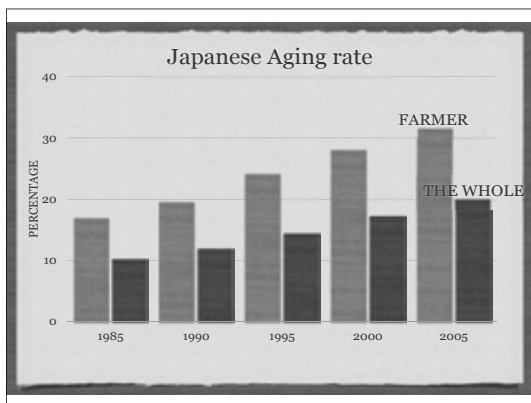
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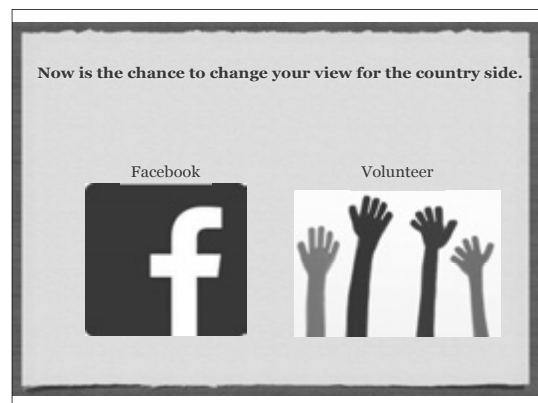
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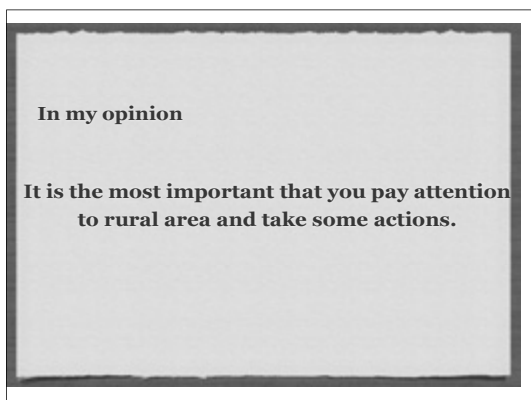
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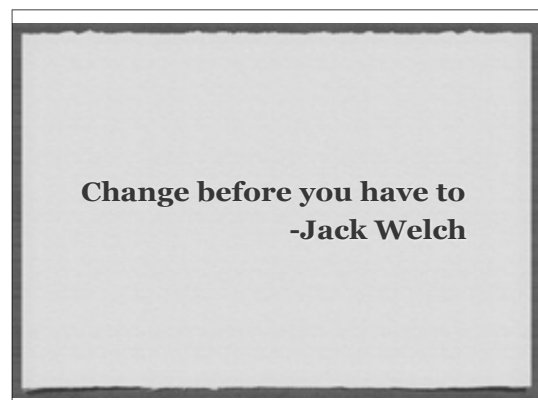
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22



23



24

Thank you for listening

25

(2) What I learned in Seoul

ESD Campus Asia in Seoul National University (SNU) December 16~23 in 2012

Yushi Nagai



1

Map in Seoul



2

ESD Program in SNU

	Morning(9:45-12:15)	Afternoon(13:45-17:00)	Evening
12/16 Sun	Arrival in Seoul / Contrasting current development		Introduction and dinner boxes
12/17 Mon	Class 1	Class 2	Invitation dinner
12/18 Tue	Class 3	Class 4	Free
12/19 Wed	Due to election in Korea (We will start later)		Free
12/20 Thu	Class 6	Class 7	Small evening lesson including free dinner
12/21 Fri	Class 8	Class 9	Farewell Party
12/22 Sat	Options and recommendations are welcomed		
12/23 Sun	Departure		

3

"Water of Life"



4

[Group A]

- can look
- cannot use hands

[Group B]

- can use hands
- cannot look



Group A

direct

Group B

action



5

Comment and idea

a gap of each group's position

difficult to understand what's really
bothering other group

difficult to cooperate with each group

6

Social problem

gap of two groups = gap of background of people

Group A=employers, developed countries
Group B=employees, developing countries

➡ **unequal** situation
social problem ex. social gap, civil war

7



<http://www.myticket.jp/acc/2013-5.jpg>



<http://cache5.amanaimages.com/cm/3ta/44T/7Gt/w1Pvoker/2550700097.jpg>

8

In the game...

Not understand/cooperate

➡ cannot pour glasses to spill water

≡ **unsustainable** situation

Understanding each group is important
to share water and to pour grasses.

9

Key point for sustainable development

- **understand** a social gap or other people

➡ Education for Sustainable Development(ESD)

10



11



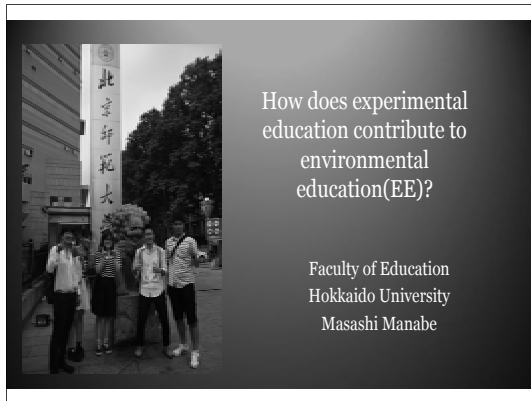
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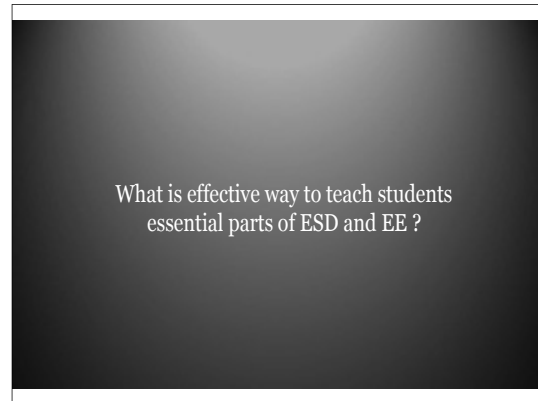


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(3) How does experimental education contribute to environmental education.



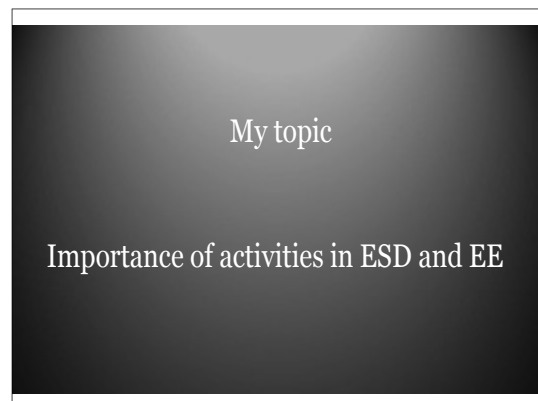
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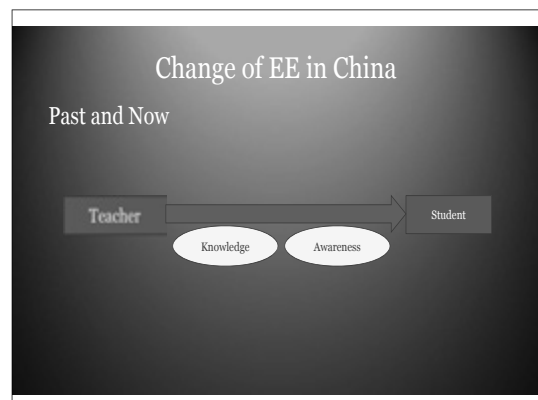
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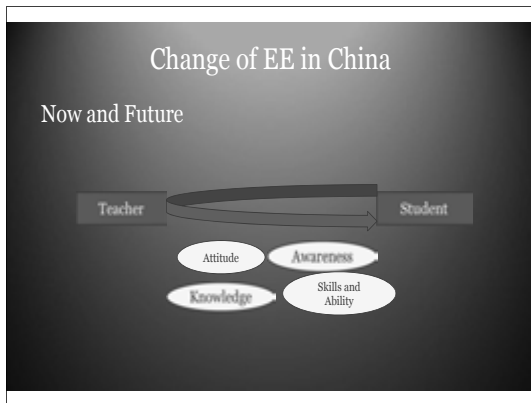
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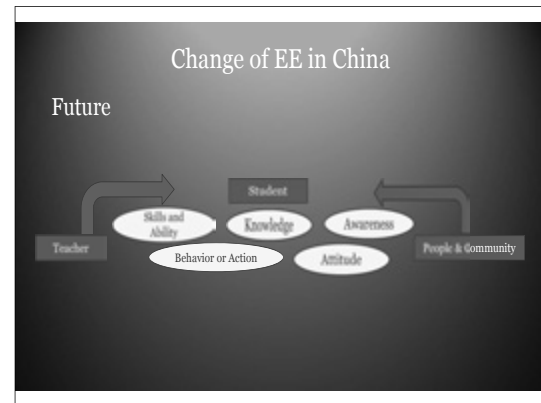
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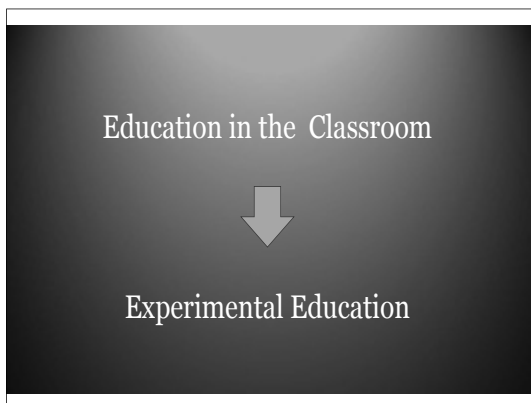
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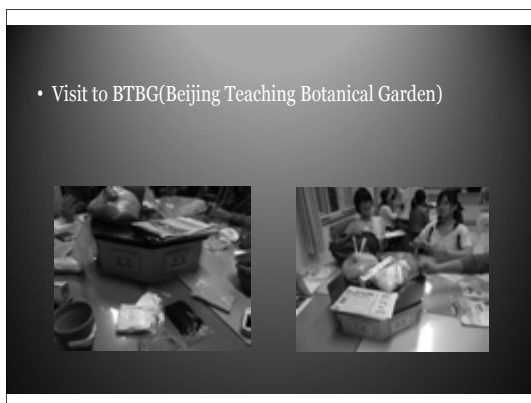
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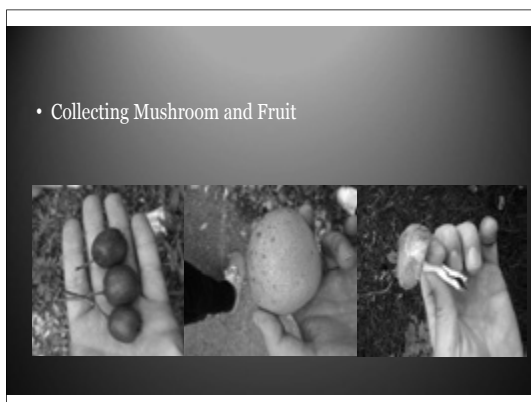
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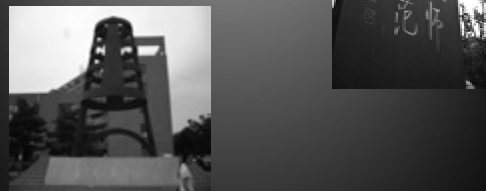
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- Visit to High School Affiliated to BIT
- Education about Chang River
- Lesson about trees



17

What I learned in BNU



18

Importance of ESD and EE

ESD: Necessary for human to live together

EE: Necessary for human to live together in harmony with the earth



19

What is important for EE

- Interest : Interest
- Knowledge
- Awareness
- Thinking

How to make students more sensitive to environment and environmental problems

20

Methods of EE

Not only in classroom

↓

Discussion, Activity, Research...

→ Experience a lot of things by students themselves

21

However...

Experience cause lacking in knowledge

Keep balance between education for knowledge and experimental education

22

Moreover...

Research, Discussion...

Some activities help students to gain in knowledge for ESD and EE

23

In Conclusion

Effective way of ESD and EE

- Experience by student themselves
- Research, discussion...

→ Learn actively and independently

24



25

(4) Campus Asia 2014 in CU - Culture and Education in Thailand-

Campus Asia 2014 in CU
~Culture and Education in Thailand~

Hokkaido University
Ibuki Wakasawa, Yu Furukawa

1

Colors -National Flag

- Red NATION
- White RELIGION
- Blue MONARCHY

2

Colors -weekday1

- Colors are decided in each day
- People know their own color

Day	Color of the day
Sunday	red
Monday	yellow
Tuesday	pink
Wednesday	green
Thursday	orange
Friday	blue
Saturday	purple

3

Colors -weekday2

4

Temple -Wat Pho

- Oldest temple in Thailand
- Huge statue of the Reclining Buddha
- The center for Thai traditional massage

5

Thai Education System

6

The Faculty of Education

The faculty of education is five year university.
The last year, the fifth year students have to do the teaching practice.



7

The Uniform



8

The Male Uniform



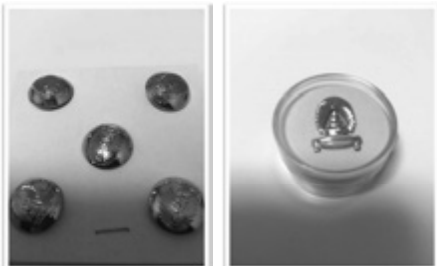
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The Female Uniform



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Buttons and School Emblem



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What We Learned in ESD Program



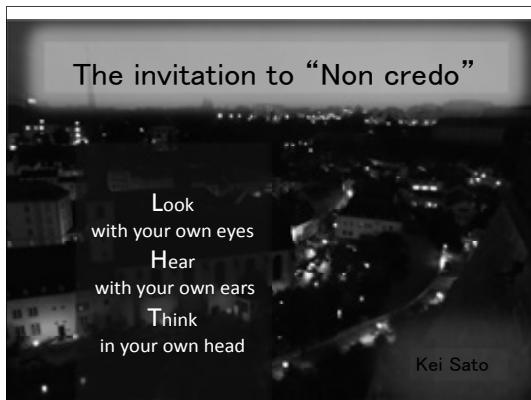
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Our Opinions about ESD Campus Asia

study and have knowledge of ESD and SD in each university
↓
have the presentation in ESD campus Asia
↓
have the more practical actions

13

(5) The invitation to “Non credo”



1



2



3



4



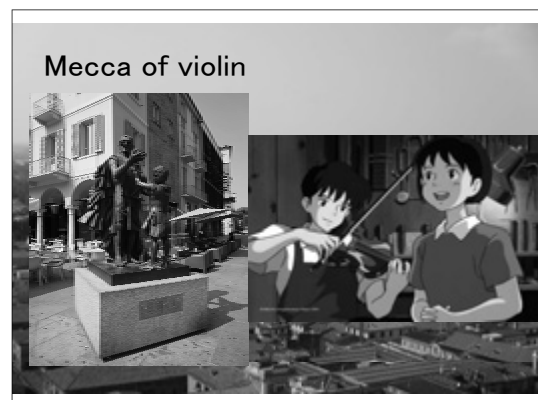
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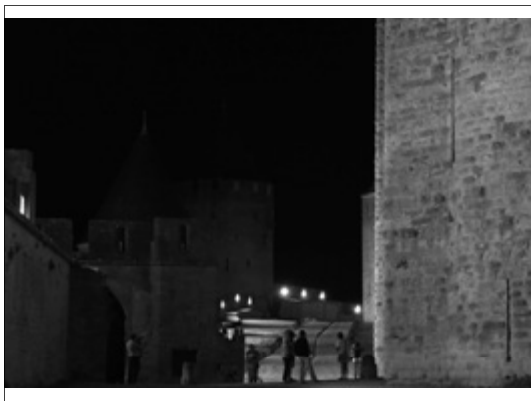
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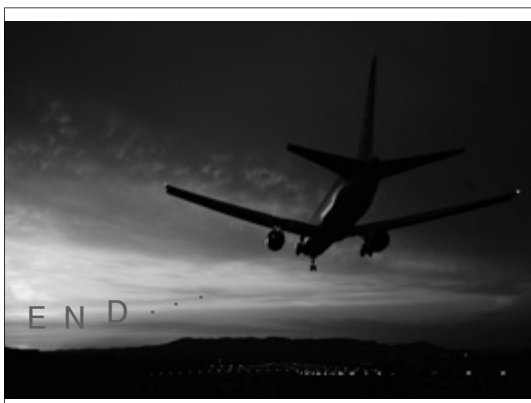
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Summary

By Miki Arisaka, Ministry of the Environment's Environmental Partnership Office Hokkaido

Held on the theme of ESD Based on Society-University Collaboration, this session focused on measures necessary for ESD promotion by society as a whole, including universities. The session began with a presentation by Professor Yasuhiro Yamanaka from HU's Faculty of Environmental Earth Science on the Course in Practical Science for Environment (PractiSE). With emphasis on practice and discussion, the course is intended to foster the development of young people capable of leading a sustainable society. A wide range of parties from outside the university contribute to the course.

Professor Yamanaka gave examples of master's thesis work, such as Hokkaido environmental report publication in collaboration with a non-profit organization and initiatives toward the resolution of local issues on Teuri Island and elsewhere. He also highlighted how students can come to understand social backgrounds and values through involvement in community affairs and trial and error. In his summary, Professor Yamanaka said that striking a balance between the resolution of local issues and the development of human resources is essential in the creation of a sustainable society.

Professor Masami Kaneko of the Department of Environmental and Symbiotic Sciences at Rakuno Gakuen University's College of Agriculture, Food and Environment Sciences then spoke on an ongoing initiative toward the development of a Regional Centre of Expertise (RCE) on ESD in central Hokkaido. The project is intended to support the development of an RCE in that area to encourage universities and other educational institutions, local businesses, NGOs and local governments to collaborate in the promotion of ESD. Professor Kaneko outlined past movements toward the establishment of the RCE and future developments, with focus on the identification of central Hokkaido's characteristics and challenges, perspectives to be adopted in their resolution and in the development of necessary human resources, related visions and other considerations.

The presentations were followed by a panel discussion on Prerequisites for the Development of a Regional Centre of Expertise (RCE) on ESD in Hokkaido featuring the speakers and two panelists. These were Masahiro Koizumi, Executive of the Specified Nonprofit Corporation Sapporo Freedom School YU, and Chikayuki Shimizu, Vice-President of the Ebetsu District within the Sapporo Branch of the Hokkaido National Conference of the Association of Small Business Entrepreneurs. The discussion, which was moderated by Miki Arisaka from Environmental Partnership Office Hokkaido, covered the need for enhanced partnerships between universities and businesses, Ainu issues and cooperation with other country's RCEs facing problems relating to indigenous people.

The discussion also highlighted the need to make university education available in the community and change the method of its provision. The session ended with a summary by Prof. Kaneko, who expressed hopes for the development of an RCE characterized by diversity stemming from the participation of numerous stakeholders, favorable coordination of a variety of issues, and fun.

Presentation**Fostering People to Lead a Sustainable Society – HU's Course in Practical Science for Environment (PractiSE)**

Yasuhiro Yamanaka
Professor,
Faculty of Environmental
Earth Science
Hokkaido University

HU's Faculty of Environmental Earth Science offers the Course in Practical Science for Environment (PractiSE) to provide students with expertise in environmental science and the capacity (including knowledge, skills, experience and personal contacts) to identify problems and solve them in collaboration with various parties based on practical learning as one of HU's basic philosophies. Students on this course engage in solution-oriented practical activities in collaboration with parties outside the university. In 2012, the Faculty concluded a comprehensive partnership agreement on human resource development with e-navi Hokkaido, four environmental coordinating organizations to facilitate collaboration with local communities.

The environmental field in particular requires personnel with multi-disciplinary perspectives who can get things done. This session will highlight initiatives that have been implemented on the course to meet such needs.

Progress toward the Development of a Regional Centre of Expertise (RCE) on ESD in Hokkaido

Masami Kaneko
Professor,
Department of Environmental
and Symbiotic Sciences
College of Agriculture,
Food and Environment Sciences
Rakuno Gakuen University

The international community has stressed the need for partnerships among various parties for joint work as part of action to promote ESD. The United Nations University Institute of Advanced Studies (UNU-IAS) has also stepped up its efforts to establish Regional Centres of Expertise (RCEs) on ESD. In this regard, the institute has set up six RCEs in Japan (Greater Sendai, Yokohama, Chubu, Hyogo-Kobe, Okayama and Kitakyushu) as part of work to promote ESD through collaboration among diverse stakeholders.

In Hokkaido too, various parties have continued initiatives to promote ESD but failed to take concerted action, such as collecting and disseminating information in a unified and cohesive manner or developing a shared vision. Accordingly, the establishment of a core institution has been called for to promote ESD. Given these circumstances, work has begun toward the development of a Regional Centre of Expertise on ESD in Hokkaido in consideration of the need for this type of facility. This session will feature such work.

サマリー

報告者：環境省北海道環境パートナーシップオフィス 有坂 美紀

「大学と地域社会が協力するESD」をテーマに、大学を含めた地域社会全体としてのESD推進のための必要策について討議した。北海道大学地球環境科学研究院の山中康裕教授より、実践環境科学コースの取り組みが紹介された。「実践すること」と「論ずること」を重視し、学外の様々な主体と連携した持続可能な社会を担う人材育成に取り組んでいるというもの。

修士論文として、非営利団体と北海道の環境報告書を制作した例や、天売島等で地域の課題解決をテーマとした事例を紹介した。山中教授は、学生が地域に飛び込み、小さな失敗と成功を繰り返すことにより多様な立場や価値観を理解することができるとし、地域の課題解決と人材育成を両立させることが持続可能な社会づくりのエッセンスであるとまとめた。

また、酪農学園大学農食環境学群の金子正美教授は、現在進められている道央圏のESD推進拠点(RCE)設立に向けた動向を報告した。道央圏にRCEを作り、大学等の教育機関と地域の企業、NGO、自治体が連携をしてESDを推進していくというもの。道央圏の特徴や課題を抽出し、その解決と人材育成に必要な視点、目指す姿などを提案し、これまでのRCE設立に向けた動きや今後の展開等について紹介した。

続いて、報告者に加え、NPO法人さっぽろ自由学校「遊」の小泉雅弘理事、(一社)北海道中小企業家同友会札幌支部江別地区の清水誓幸副会長をパネリストに加え、北海道におけるESD地域拠点に必要なことをテーマに、北海道環境パートナーシップオフィスの有坂美紀の進行で公開討論を行った。この中で、大学と企業間の連携強化の必要性や、アイヌ民族の問題に触れて、先住民族問題を抱える他国のRCEとの連携についても話された。

さらに、大学教育が地域に出ていき、大学教育のあり方自体の変革の必要性も提起された。多くのステークホルダーが参加することで多様性が生まれ、多様な課題を上手くつなぎ、楽しみを加えたRCEを目指していきたいと金子教授がまとめ、閉会した。

プレゼンテーション

持続可能な社会を担う人材育成のために～実践環境科学コースの取り組み～



山中 康裕

北海道大学
地球環境科学研究院
教授

地球環境科学研究院では、北海道大学の基本理念のひとつ「実学の重視(Practical Learning)」のもと、環境科学に関する専門性を身につけ、問題の発見から様々な人々と連携して解決する能力(知識+技量+経験+人脈)をもつ人材の育成をめざし、実践環境科学コースを設置している。このコースでは、学外の様々な主体と連携した課題解決型の実践活動を行っている。2012年には、地域社会との連携を深めるために環境中間支援会議・北海道と人材育成に関する包括連携協定を締結している。特に環境分野においては、分野横断的な視点を持ち、実行できる人材が求められており、このニーズに対応するために実践してきた本コースの取り組みをご紹介します。

北海道におけるESD推進拠点・ESD-RCE設立に向けた動き



金子 正美

酪農学園大学
農食環境学群環境共生学類
教授

国際社会では、多様な主体が力を合わせて行動を起こすためのパートナーシップの必要性が強調されている。国連大学高等研究所でも、ESDに関する地域拠点(RCE)の構築に力を入れてきた。日本国内では、仙台広域圏、横浜、中部、兵庫ー神戸、岡山、北九州の6か所にRCEが設立されており、多様な主体の協働によるESD推進に力を入れている。北海道においても、各主体によってESDの取り組みが続けられてきものの、まとまりのある情報収集や発信、共通ビジョンなどを掲げた取り組みは行われておらず、ESDの推進のための中核拠点の設立が求められている。そこで、北海道においてもRCE-ESDが必要であると考え、設立に向けて動き始めた。その動きについてご紹介する。

Fostering People to Lead a Sustainable Society – HU's Course in Practical Science for Environment (PractiSE)
持続可能な社会を担う人材育成のために～実践環境科学コースの取り組み～

持続可能な社会を担う人材育成のために
～実践環境科学コースの取り組み～

私は、戦後、日本の高度成長を支えた20世紀型大学の役割しか知らないけど...

活版印刷による中世大学の死。アカデミーの機能。
米国型:教養の大学(学部) + 研究の大学院
リベラルアーツ vs. エクセレンス (COEのE)
インターネット(MOOC)による20世紀型大学の死(があるかも)

知の伝播という専断特権が崩れ、
学位(国家資格)という価値が低下

持続可能な社会に対する21世紀型大学の役割:
個性を尊重したティールメイド、情報・人的交流の場(特に学生という非日常性)の提供

社会とともに
大学のパラダイムシフトが
訪れている危機感

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2007年6月7日G8サミット

「2050年CO2排出半減を検討」を伝える朝日新聞の記事

安倍首相は「美しい星50」
を2007年5月24日提案した

2

みなさん2050年を想像してください！

- 私は86歳、人生を終える頃。20代前半のみなさんは、定年を迎える頃
- 温暖化を止めるために、CO₂排出量は世界半減、日本8割減が不可欠！
- 人口は日本2割減、北海道4割減、地方6割減。
※そこに待っている暮らしが幸せであって欲しいと思いませんか？
- 自然から農耕地・都市へと土地を改変した社会資本の流れを変えれば、
北海道の1/2を広大な自然保護区にすることも出来るかもしれません。都市・町・村・自然それぞれの地域がそれぞれの役割を持った持続可能な
社会が創造できる絶好チャンスなのです。
- 地球温暖化や少子高齢化社会が徐々に進行...
対策:社会を支える人が全世代で徐々に活躍...

誰が担う?行政・企業...みなさん
今から大学から
社会(行政・企業・NPO)
に出て行く人

● 2050年に向けて、みんなで自分たちの将来を想像して、未来を創造しよう。

“2050年委員会”の起源

みなさん2050年を創造してください！

3

人がいる20%(北海道52%)が2050年人がいなくなる

人を増やそう！と短絡的には考えるが...
残したい地域・機能に対して、計画的に公共投資する...「減少を選択のチャンスと捉える」

2050年の人口減少
国交省国土計画局作成 2011年2月23日

大南信也(イン神山)
:創造的過疎

神山町を紹介する新聞記事

国交省国土計画局作成 2011年2月23日

4

人口減少地図:2040年若年女性の人口増減

日本経済新聞より:使用している数値
データは日本創成会議、国立社会保障・
問題研究所、総務省の資料に基づく

北海道の人口減少地図
(日本経済新聞ホームページより)

男女比が極端に違わない
はずだから、男性人口と
見なしても良いはず
(女性っていつのにか少々疑問)

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北海道大学大学院環境科学院
実践環境科学(Practical Science for Environment)コース
2011年4月設立

PractiSE

コースの理念:社会に何かを生み出す人材を育てる

実学の重視(Practical Learning)→北海道大学の4つの基本理念
Think Globally, Act Locally, and Step-by-Step!!

6

2010年12月30日
実践環境科学コース設立を紹介する記事

7

PractiSE:「実践することと論ずること」を学ぶ

合格発表の日(今年9月2日)、Facebookに書いた文章:
不合格になってしまった方、ごめんなさい。みなさんの現時点での基礎学力では、2年間で修了させることが難しいと判断いたしました。
実践環境科学コースでは、2年間に、学外の方々にも御願することが数多くあります。その方々にとって「学生さんは何故会いたいに来たのか?私たちが何をすれば良いのか?」が分からなければ、「学生さんのために何かをしてあげようという温かい気持ちを持っていた」としても力を貸すことが出来ません。学生さんとしては、相手に分かるように「自分たちの思い、御願したいこと、協力したことがどのような修士論文研究につながるのか」などを言葉にして(文章にして)説明していかねばなりません。自分の考えをまとめ伝える論理性が問われます。また、そのなかで、「相手の気持ちを察する」(想像する)力が育まれていきます。
修士課程の2年間は、就職活動も含まれ、大変短い期間です。もちろん、20歳代という大人としての旅立つ重要な時期に、2年間あれば、修士論文研究という形あるものを生み出せるとされてきたわけです。私たちは、それを踏まえ、入学時点で必要なレベルを見るために、入学試験として、A4サイズの紙1ページ分解答する小論文2問を課しています。1問は事前出題しています。小論文では、解答する分野の知識、および、論理的記述を見ている。(以下省略)

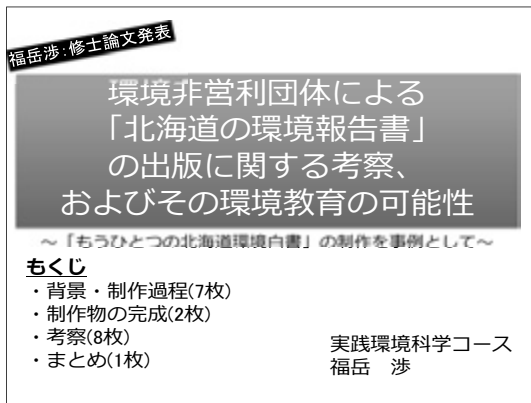
8



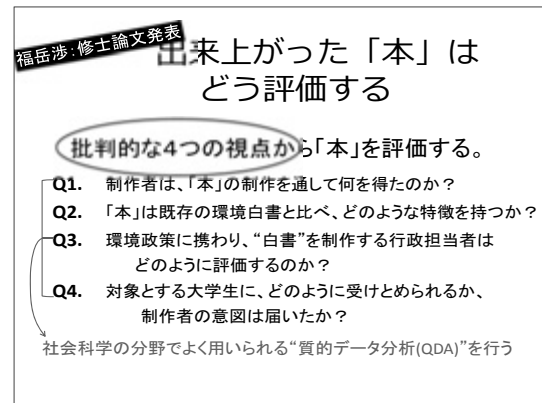
9



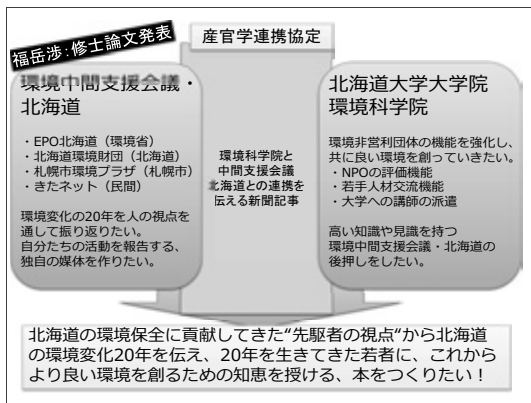
10



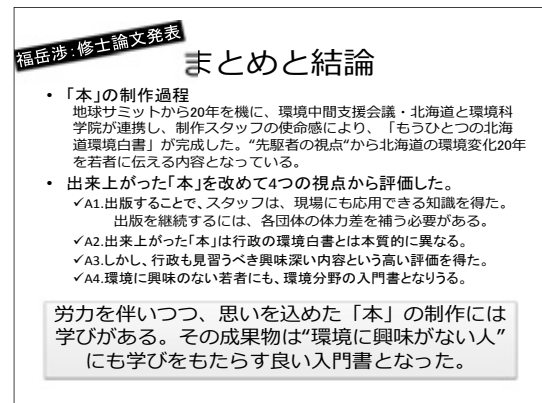
11



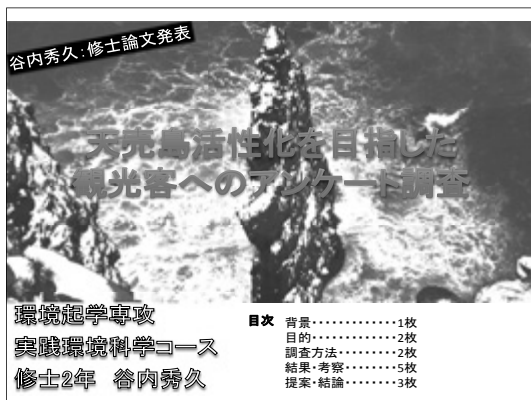
12



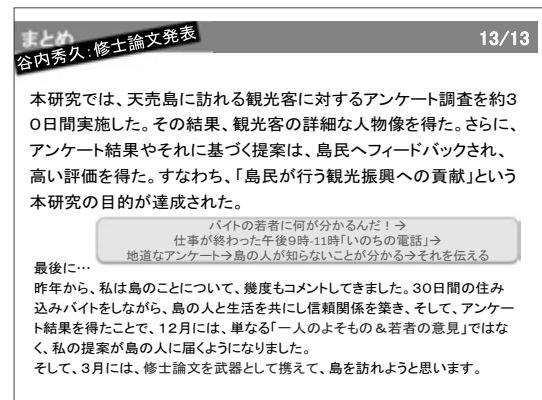
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武田尚太：修士論文発表 2014年02月04日（火）

石狩浜における海岸保全に向けた 交流・情報共有の場の創造

武田尚太
実践環境科学コース 修士2年

<目次>

- 背景 3枚
- 研究目的・内容 2枚
- STEP 1 3枚
- STEP 2 3枚
- STEP 3 2枚
- まとめ 1枚

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STEP2 石狩 武田尚太：修士論文発表 ラム

参加者に、石狩海岸の魅力の大切さを実感してもらい、次世代に残し引き継いでいく石狩海岸の理想の姿に向けた取り組みについて考えてもらう

【参加者】
29名（石狩市13名、札幌市15名、小樽市1名）

【第1部：講演会】
①「石狩海岸の紹介」
北海道大学大学院農学研究院講師 松島 肇
②「3つの活動団体による石狩海岸における取り組み事例の紹介」
いしかり海辺ファンクラブ
石狩ウォーターパトロール
NPO法人北海道海浜美化をすすめる会

【第2部：ワールド・カフェ（ワークショップ）】
第1ラウンド 問い：石狩海岸の魅力を一言で伝えたとすれば
第2ラウンド 問い：次の世代にどのような石狩海岸を贈りたいですか
第3ラウンド 問い：私たちはこれから新たにどのような取り組みをしていけばいいでしょうか

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武田尚太：修士論文発表

「交流の場」は、勉強会やフォーラムという形で、石狩浜の関係者に対する「情報共有・交流の場」を創造する長い道のりの第一歩となった。

すなわち、(1)新しい人との出会う機会、(2)次に向けた行動を起こす1つのきっかけを提供することが出来た。しかし、「情報共有・交流の場」の具体的な必要性は共有化されていない。「海岸保全を進めていく際の海岸管理者に関する認識」の違い、具体的な「情報共有・交流の場」の必要性の違いにつながっている。例えば、市民団体は海岸管理者として参加を望み、行政は市民団体主体で場を作って欲しいと考えている。

10年かかって行政の協議会が出来たよ...学生1年間で何が出来るの？
or 今さら石狩浜の魅力なの？当たり前じゃないの...→第2回今年11月8日

長い道のりの次の一歩は？

第一歩として、「石狩海岸の魅力」を中心にして意識共有を図った。石狩浜の関係者は、それぞれが持っている「石狩海岸の魅力」や「活動への想い」が、勉強会やフォーラムの参加者ごとに異なることを知った。また上で述べたように「情報共有・交流の場」の具体的な必要性は異なっている。

従って、いきなり「市民と行政が出会う場を創造する」ということではなく、一歩一歩、今回の共有出来なかった具体的な必要性などを、関係者間で徐々に共有していく必要がある。継続することが最も重要である。

宿題：私は卒業しますが、参加した関係者の方々によって運営して欲しいと思っています。3月までにはまだ時間がありますので修論の結果をその方々へフィードバックさせたいと思っています

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古川雄大：修士論文発表
平成25年度修士論文発表

雲海テラスを訪れる5万人のお客さまに自然を 伝えたツール開発：雲海カード

<目次>
はじめに(3枚)
目的(1枚)
作成の枠組み(4枚)
内容と評価(7枚)
まとめ(1枚) 計16枚

実践環境科学コース
古川 雄大

20

雲海カード 古川雄大：修士論文発表 人々の様子 7/16

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古川雄大：修士論文発表 16/16

雲海カードは、お客さまやスタッフからの意見や評価を参考にして数多くの改良を行い、28種40ページ作成された。

その結果、

- 雲海テラスを訪れる約半数の5万人の人に見てもらえるものとなり(アンケート回答数2251組より)、スタッフからも雲海テラスに不可欠なものと判断されるようになった。
- 聞き取り調査より、雲海カードを読んだお客さまは、今まで「漠然と見ていた雲海」を、どのタイプの雲海が見えているか、その見られる可能性も含めて、実感するようになった。また、「雲海テラスを訪れた全員が見られるわけではない貴重な瞬間を見られた」とや「見られなかったけど仕方がない。雲海を見に来た来よう。」といったことを自ら判断するようになった。
- 雲海カードについても、「雲海テラスに必要なもの」、「わかりやすく、面白い」という多数の意見を得た。

といったもの、作りっぱなしではない。自分が作ったものが5万人に読まれている実感

以上より、数多くのお客さまに「雲海テラスで自然を感じてもらう」雲海カードを作成する当初の目的が達成されたと考える。

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尹春英：修士論文発表

星野リゾート・トマムを訪れる人々への 自然という観光資源に関する意識調査

実践環境科学コース
山中康裕研究室 修士課程2年
尹春英

目次：
(1)国際化 . . . 11枚
i 背景 . . . 4枚
ii 目的と進め方 . . . 1枚
iii 試み . . . 1枚
iv 結果と考察 . . . 5枚
(2)雲海テラスでの動向調査(ハイライトのみ) . . . 2枚
(3)まとめ . . . 1枚

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尹春英：修士論文発表 14/14

本研究では、星野リゾート・トマム長期滞在を通じて、展示翻訳(英語・中国語(繁体字・簡体字))・オリジナル展示作成、および、外国人観光客の意識調査(聞き取り・アンケート)を繰り返しながら、北大環境科学院の「自然を伝える活動」等に関する国際化を試行しました。

試行内容：外国人観光客に聞き取り調査、および、
(1)基本案内の必要に応じた翻訳(STEP 1)：例：チケット販売機ではなくコンダラの乗降等(言語行動による)
(2)海外の観光客にとっての星野リゾート・トマム：観光客の意識調査(聞き取り・アンケート)を繰り返しながら、北大環境科学院の「自然を伝える活動」等に関する国際化を試行しました。
(3)外国人観光客の興味に基づいた対応(STEP 3)：例：台湾人観光客にとっての「水の教会」

そこから、国際化として
(1) 外国人観光客への詳しい聞き取り調査、および、それにもとづく
(2) 外国人観光客に対する(翻訳だけではなく)展示や対応
を行うことが重要だと分かりました。
本研究の試みは、他の観光地にも展開できると考えます(早急な対応を迫ら
れると、外国人観光客の要望とはズレるかも知れません)。

儲け関係なく、お客さまに地道に聞いていく(翻訳だけではなく)当たり前の国際化
また、大規模アンケート(回答数：日本人2683組、外国人197組)から、観光客の雲海テラスの動向を初めて定量的に知ることが出来ました。

今後の課題：展示物等の翻訳を行ったが、「水の教会」のミニツアーなどを実施したり、さらに、他の施設(ミナミナビなど)への展開が考えられます。また、本研究は星野リゾート・トマムだけの試みなので、他の観光地等での国際化についての調査比較検討を行う必要があると思います。

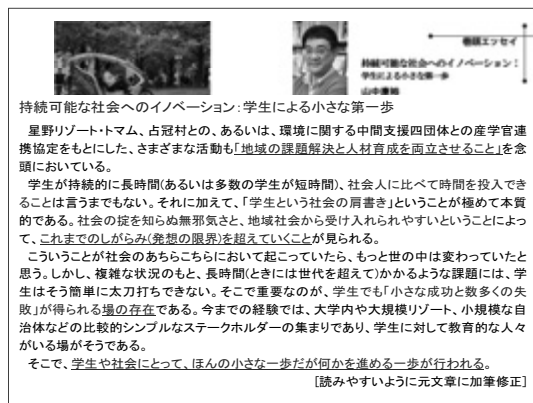
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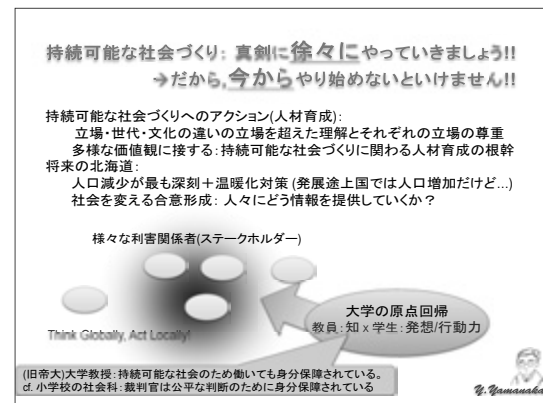
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Progress toward the Development of a Regional Centre of Expertise (RCE) on ESD in Hokkaido 北海道における ESD 推進拠点・ESD-RCE 設立に向けた動き

北海道における ESD 推進拠点・ ESD-RCE 設立に向けた動き

酪農学園大学 環境共生学類
金子正美
KANEKO@RAKUNO.AC.JP

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本日のトピック

ESDとは？
RCEとは？
RCE北海道道央圏の設立に向けての提案

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ESDとは？ : EDUCATION FOR SUSTAINABLE DEVELOPMENT

持続可能な開発のための教育

ESDは持続可能な社会づくりの
担い手を育む教育

環境、平和や人権等のESDの
対象となる様々な課題への取組を
ベースにしつつ、環境、経済、社会、
文化の各側面から学際的かつ
総合的に取り組む



文部科学省 日本ユネスコ国内委員会 HPより

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ESDの目標

- 全ての人が質の高い教育の恩恵を享受すること
- 持続可能な開発のために求められる原則、価値観及び行動が、あらゆる教育や学びの場に取り込まれること
- 環境、経済、社会の面において持続可能な将来が実現できるような価値観と行動の変革をもたらすこと

文部科学省 日本ユネスコ国内委員会 HPより

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育みたい力

- 持続可能な開発に関する価値観(人間の尊重、多様性の尊重、非排他性、機会均等、環境の尊重等)
- 体系的な思考力(問題や現象の背景の理解、多面的かつ総合的なものの見方)
- 代替案の思考力(批判力)
- データや情報の分析能力
- コミュニケーション能力
- リーダーシップの向ト

文部科学省 日本ユネスコ国内委員会 HPより

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学び方・教え方

- 「関心の喚起 → 理解の深化 → 参加する態度や問題解決能力の育成」を通じて「具体的な行動」を促すという一連の流れの中に位置付けること
- 単に知識の伝達にとどまらず、体験、体感を重視して、探求や実践を重視する参加型アプローチをとること
- 活動の場で学習者の自発的な行動を上手に引き出すこと

文部科学省 日本ユネスコ国内委員会 HPより

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我が国が優先的に取り組むべき課題

先進国が取り組むべき環境保全を中心とした課題を入り口として、環境、経済、社会の統合的な発展について取り組みつつ、開発途上国を含む世界規模の持続可能な開発につながる諸課題を視野に入れた取組を進めていく。

(「我が国における「国連持続可能な開発のための教育の10年」実施計画」より)

文部科学省 日本ユネスコ国内委員会 HPより

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ESDに関するグローバル・アクション・プログラム

5つの優先行動分野

- 政策的支援
- 教育・トレーニングの場に持続可能性の概念を取り入れる(機関包括型アプローチ)
- 教員やトレーナーの能力向上
- ユースの役割支援と動員
- 地域コミュニティや地方政府にコミュニティ・レベルのESDプログラム策定を推奨

文部科学省 日本ユネスコ国内委員会 HPより

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ESDの10年)の目的

第57回国連総会で「ESDの10年」の国際的な推進機関として指名されたユネスコ(国連教育科学文化機関)は、2004年の第59回国連総会の場で「ESDの10年国際実施計画案」を発表しました。この計画案にはESDの10年の目的として、以下の5つが明記されています。

- 持続可能な開発の実現を人類が協力して追い求める中で、教育・学習が中心的な役割を果たすということについて、幅広い理解を得ること
- ESD に関係する様々な機関・団体・人々の間でネットワークや交流を推進すること
- あらゆる学習や啓発活動を通じて、持続可能な開発のあり方を考え、その実現を推進するための場や機会を提供すること
- ESDにおける指導と学習の質を向上すること
- ESDにおける能力を強化するため、各段階で戦略を策定すること

認定NPO法人「持続可能な開発のための教育の10年」推進会議(ESD-J)HPより

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ESD-RCEとは？

- ESD - RCE :
Regional Center of Expertise on Education for Sustainable Development
- 「国連 ESDの10年」を推進するための先進的な取組事例として、その活動内容を世界に発信し、ESDを広めていくための地域の拠点。
- 推進機関は国連大学サステナビリティ高等研究所(UNU-IAS)

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世界のESD-RCE 129の拠点

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RCEの目的

- 地域において、ESDに関わりのある組織、団体等のネットワークをつくり、関係者が連携・協力しESDをより効果的に実践していこうとするもの
- RCEの取組は国連大学の認定方式によるESD推進の仕組み。地域レベルに発言権を与え、地域の優れた実践を促そうとするもの

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RCEの仕組み

<RCEを支える機関・組織>
地方自治体、高等教育機関、NGO、民間部門、市民団体など既存の関係者や専門家

<プラットフォーム>
ESDのために複数のセクターをまたがって学際的な情報共有、対話、協力、実践を行うためのプラットフォーム

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RCE認定のためには？

RCE認定に必要な4つの要件

- ガバナンス:**
しっかりとした事務局体制が整えられるか
- コラボレーション:**
あらゆるレベルの公的・非公的教育の関係者が参加しているか
- 研究開発:**
研究開発の役割及びRCE活動における活用と、RCE間協力を含む様々な協働活動の戦略設計に貢献するための取組がなされるか
- 変化をもたらす教育:**
持続可能な生活と暮らしに関する地域の抱負を達成するための現在の教育・研修システムの変革への貢献できるか

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日本国内のESD-RCE

- 2013年9月1日現在、日本国内のRCE-ESDは、仙台広域圏、横浜、中部、神戸、岡山、北九州の6地域
- ※EPOの管轄でいうと、北海道と四国にはない
- 事務局を担っているのは、横浜及び岡山は行政機関、その他は大学が中心

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事例 中部ESD拠点

<活動内容>

- プロジェクトの推進**
例)CBD-COP10後の生物多様性に関する国際的な対話事業
- 教育システムの構築**
初等・中等・高等教育でのESDの実践に加え、なごや環境大学の幅広い市民講座を活用したファシリテーターの育成などを実施
- 「ツールボックス」の開発**
国内外の関係者がESD促進のための情報や技術、システムを構築し、ストックし、その開発・発展を目指す

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事例 中部ESD拠点

代表	飯田 厚夫 (中部大学 理事長・総長)
共同代表	瀧口 達成 (名古屋大学 総長)
委員長	竹内 恒夫 (名古屋大学 教授)
副委員長	千原 聡 (名古屋大学 客員理事)
	今村 光章 (岐阜大学 准教授)
	新藤 洋子 (中部環境・パートナーシップオフィス(EPO)中部) チーフプロデューサー)
	市野 弘樹 (中部大学 教授)
	高山 達 (三重大学 教授)
	羽後 静子 (中部ESD拠点推進会議 代表) (企業側)
	別所 良美 (名古屋大学 教授)
	長川 秀雄 (中部大学 教授)
	浅田 益孝 (アドバイザー) スマート環境社会研究所
	丸尾 徳典 (アドバイザー) 智識家、富山県立大学教授
	黒野 恵 (企業担当)
	西宮 洋 (アドバイザー) テクノ中部
	北井 昌雄 (アドバイザー) 中部大学 特任教授
	武者小路 公秀 (国際協働担当)
	武蔵 一郎 (アドバイザー) アジア協会特別研究員
事務局	古澤 礼太 (中部大学 准教授)
	影山 陽子 (中部大学 事務員)
	松野 正太郎 (名古屋大学 特任講師)
事務局顧問	飯田 厚夫 (EPO) パートナーシップオフィス(EPO)中部) コーディネーター)
	海井 朝彦 (中部大学 学務部)

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事例 仙台広域圏ESD

<活動方針>

- 各地域の活動を相互につなぐ
構成地域: 仙台市、気仙沼市、大崎・田尻地域、白石・七ヶ宿地域
宮城教育大学(分野: 持続発展教育の教員養成)
東北大学(分野: エネルギー、環境教育)
- 学びあいセミナー
例) 未来づくりESDセミナー(ほぼ月ペースで開催)
- 共通テーマ
1) 里山・里地・里海の生態系サービスを守る
2) 持続可能な農業・食糧を創ろう
3) 持続発展教育の学校のネットワークづくり

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事例 仙台広域圏ESD

地域の範囲	機関	所属	氏名
仙台広域圏全体	宮城教育大学	RCE推進委員会(環境教育センター長) RCE推進委員会(学長特別補佐) RCE推進委員会副委員長	村松 一幸 堀上 一幸 小倉 孝昭
	気仙沼市	環境推進部部長	佐藤 隆一
	仙台市	環境推進部部長	小林 隆一
	環境大学	東北地方環境事務所長	佐藤 隆一
	東北グローバルセミナー +NPO	みやぎ環境・エネルギー協会 みやぎ環境・エネルギー協会(事務局) 仙台市・早稲・若しくはん実行委員会 宮城	東川 忠雄 小野 正之 (経理担当) 西村 美和子
	東北新報社	編集局長	西川 隆夫
	TEC	東北支局長	中野 直樹
	東北EPO		白田 泰子
仙台市	EPO 仙台 (市の都市市民環境教育・学習推進 会議)	EPO 仙台・副委員長 事務局(環境都市推進課長)	佐藤 隆一 佐藤 隆一
気仙沼市	気仙沼RCE推進委員会	副委員長(スローフード気仙沼) 推進委員会事務局(教育委員会)	佐藤 隆一 佐藤 隆一
大崎・田尻	田尻地域RCE推進委員会(予定)	大崎市田尻部会各所長兼推進課 NPO法人 田尻理事長 日本橋を保 護する会	佐藤 隆一 佐藤 隆一
事務局	宮城教育大学	環境主幹 環境主幹研究協力	佐藤 隆一 佐藤 隆一

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今後のRCEは...?

- ・国連大学としては、現在のRCEの数を倍増させたいと考えている。300か所程度。
- ・これまでも、今後も、RCEの維持などに関わる行政からの予算的支援はない。
- ・今年11月4日～7日、「グローバルRCE会議」が岡山市で開催される

金沢大学の鈴木克徳教授(元国連大学高等研究所 国連大学;
シニアフェロー)にヒアリング(EPO北海道 有坂さん)



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他のRCEの予算は?

RCE横浜の場合(事務局: 横浜市)

予算の出所: 横浜市 予算額: 10万円程度
使途: 国内RCE会議に参加するための旅費

REC中部の場合(事務局: 中部大学)

予算の出所: 中部大学 予算額: 200万円(十中部大職員の人件費一部)
使途: 物品、旅費、会場費、レンタル料、印刷代など
※その他、プロジェクト経費は助成金等の外部資金を獲得。直近の3年間で約1000万円。

REC北九州の場合(事務局: 金沢市)

予算の出所: 北九州市 予算額: 1400万円

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RCE認定の申請書づくりのために

- ・連携相手と体制について合意がとれているか
- ・RCEを担うにふさわしい実績はあるか
- ・グローバルRCE会議に出席したことはあるか
- ・申請書(英文100ページ程度)を作成できる労力(UNUとの英文でのやり取り?)は確保されているか

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RCE北海道道央圏の設立に向けて

〇設立に向けたこれまでの流れ

第7回アジア太平洋RCE会議 7th RCE Asia Pacific Meeting and International への出席(出席者: 金子)

2014年8月26～28日、マレーシアバナン島

・第1回 北海道におけるESD-RCE設立のための意見交換会

2014年9月1日、北海道環境サポートセンター

・第2回 北海道におけるESD-RCE設立のための意見交換会

2014年10月7日 北海道環境サポートセンター

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RCE北海道道央圏の設立に向けて

〇北海道道央圏の範囲

石狩、後志、空知、日高、胆振振興局管内



- 将来
- ・道南圏(渡島、樺山)
 - ・道北圏(上川、空知、網走、知床半島)
 - ・オホーツク圏(網走、知床半島)
 - ・十勝圏(十勝)
 - ・釧路・根室圏(釧路、根室)

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北海道道央圏の特徴

○ 環境

- ・雄大な北方的景観と豊かな動植物が生息・生育する良好な自然環境
- ・急速な開発による生物多様性の低下

○ 社会文化

- ・アイヌ民族の歴史と文化
- ・明治以降の急速な開発による地域社会の変容。

○ 人口

- ・北海道人口約550万人、低い人口密度
- ・道央圏には、北海道の全人口のうち6割にあたる約340万人、札幌に190万人と一極集中
- ・高齢化および過疎化が深刻な問題

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北海道道央圏の特徴

○ 経済

- ・北海道経済は一次産業と三次産業の割合が全国に比べて高い。
- ・農業に関しては、食料自給率200%、日本全体における12%の生産量
- ・世界有数のスキーリゾートでもあり、自然を活かした観光、エコツーリズムが盛ん

○ 教育:

- ・都市部のすぐ近くに自然などを体験できるフィールド
- ・場所の利点を活かして、森のようちえんなどの子どもに対する環境学習の場が多く展開
- ・先住民であるアイヌに関する教育は必要不可欠

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RCE北海道道央圏の課題

1. 生物多様性の低下
2. 気候変動
3. 再生可能エネルギー
4. 人口減少・少子高齢化・グローバル化
5. 食と暮らしの安心安全
6. 先住民

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課題解決と人材育成・教育の視点

○ 課題を解決する視点

1. 国際的な視点
2. 地域的な視点
3. 環境保全、エネルギーの視点
4. 経済的視点
5. 文化的視点

○ 人材育成、教育の視点

1. 実践、体験
2. 小さな成功と失敗
3. 多様な価値観
4. 強みを活かす

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RCE北海道道央圏ESDの目指す姿

○ 方向

北海道道央圏特有の課題を様々な視点から分析し、これに関連した事業を様々な団体が協働して実施することにより、道央圏の持続可能な地域づくりに取り組む。

○ 目指す姿

世界の地域とつながる国際的領域
野生生物と共生する地域
自然エネルギーを活用した地域
安心・安全な食を産み出し、安心して暮らせる地域
豊かな自然環境を活かした国際的観光地域
平和・人権・福祉が実現する地域
先住民の人権・文化が守られる地域

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組織

教育機関:

酪農学園大学、北海道大学大学院環境科学院、
道央圏の大学、高校等

行政機関:

道央圏の国、道、市町村の行政機関、JICA

NPO、NGO機関:

環境、福祉、人権、教育等の団体

民間企業:

道央圏で活動する企業

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今後のスケジュール

1. 道央圏RCE-ESDづくりのための事務局メンバー(たたき台づくり)、ESD-RCE設立運営委員会のメンバーを決定
2. 2014年11月に岡山で開催されるグローバルRCE会議にて、RCE北海道道央圏の設立構想を発表
3. 2015年4月までに国連大学認定のための申請書類を完成させるべく検討



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ご清聴ありがとうございました。

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Report of Wrap-up Session

By Akito Kawaguchi, Professor, Faculty of Education, Hokkaido University

5th International ESD Symposium: Strategic ESD in the Next Generation

Moderated by HU Faculty of Education Dean Toru Onai, the symposium's Wrap-up Session featured presentations summarizing discussions held at the Parallel Sessions based on those at the Plenary Session. These were delivered by Korea University Professor Seung Hyun Son for Parallel Session 1, Associate Professor Takashi Nomura of Hokkaido University of Education's Kushiro Campus ESD Promotion Center for Parallel Session 2, HU School of Education student and ESD Campus Asia Project participant Hiroki Akiyama for Parallel Session 3, and Professor Masami Kaneko of Rakuno Gakuen University's College of Agriculture, Food and Environment Sciences for Parallel Session 4. The presentations were followed by overall discussions on the significance and achievements of the symposium, including comments by the three Plenary Session lecturers, in order to establish a common understanding of the discussions held at the Parallel Sessions (based on those at the Plenary Session) and other event content transcending attendees' varying positions and viewpoints.

The symposium attendees recognized that ESD was still in a transitional state as the mainstream of education despite producing certain positive results over the past decade. While issues concerning the initiatives of UNESCO and collaboration with regions and educational institutions among other matters were discussed, it was also reaffirmed that the progress and development of ESD as a core of education will require networking in all respects regardless of level and generation. Accordingly, event participants recognized the importance of international collaboration by educational institutions (Parallel Session 1), the collaboration of elementary and secondary schools in practical ESD activities (Parallel Session 2), related collaboration with institutions of higher education (Parallel Sessions 1, 2 and 3) and collaboration with the initiative to establish a Regional Center of Expertise (RCE) in Hokkaido (Parallel Session 4). Attendees reaffirmed their commitment to the expansion and quality improvement of ESD for future generations to ensure that the outcomes of this symposium would be fruitful for the future.

Coordinator



Toru Onai

Dean, Faculty of Education,
Hokkaido University



総括セッションの報告

報告者：北海道大学大学院教育学研究院教授 河口 明人

5th International ESD Symposium: Strategic ESD in the Next Generation

本シンポジウムの締めくくりとしての総括セッションでは、小内透教育学研究院長による司会のもと、全体セッションを踏まえた議論について、分科会1では高麗大学の孫丞賢(ソン・スンヒュン)教授から、分科会2は北海道教育大学釧路校ESD推進センターの野村卓准教授から、分科会3はESDキャンパスアジアプロジェクト参加学生である北大教育学部の秋山拓輝君から、分科会4からは酪農学園大学農食環境学群の金子正美教授からそれぞれの議論の概要について報告があった。全体セッションの講演者三人からのコメントを含め、プレナリー・セッションのあとを受けて行われたそれぞれの分科会の議論を踏まえ互いの立場や視点をこえて共通の認識を得るために、本シンポジウムの意義と成果についての総括的な議論が行われた。

ESDがこの10年で一定の成果を上げているものの、教育の主潮流としては依然として過渡的状態であること、ユネスコの取組と各地方、教育機関との連携に関する課題なども話題とされたが、とくに教育の核心としてのESDの進展・開発のためには、レベルや世代を問わず、あらゆる側面でのネットワークが不可欠であること、したがって教育機関の国際的連携(分科会1)はもとより、小中高校でのESDの実践的活動の互いの連携(分科会2)と高等教育機関との連携(分科会1, 2, 3)、さらには地方のRCE(Regional Center of Expertise)を目指す北海道の取組(分科会4)との連携などの重要性が認識された。本シンポジウムを将来に向かって実りあるものにするために、新たな次世代のESDの拡大と質的向上を目指し、互いに努力していくことが確認された。

座長



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