Session Program for Education in Energy and Environment

Date: March 18th, 2014

Place: Meeting room (6F), Kambaikan, Muromachi Campus, Doshisha University

Chair: Prof. Saki ITONORI, Shiga University and Prof. Vojislav NOVAKOVIC, NTNU

Education for Sustainable Development

- 1. ESD (Education for Sustainable Development) and Disaster Prevention in Japan: after the 2011 off the Pacific coast of Tohoku Earthquake (Japan)
- 2. Project for outgoing information of environment studies at the Junior High School attached to Shiga University (Japan)
- 3. Water monitoring. Report from local school projects in Norway (Norway)
- 4. Japanese Norwegian School Network for environmental monitoring (Norway)

School Science Curricula

- 1. The science curriculum in Japan and in Norway. A presentation of key findings in study performed by Norwegian Master's students in 2012 (Norway)
- 2. Practical projects for technological understanding and sustainability: Examples from lower secondary school (Norway)
- 3. Classroom experiments visualizing the greenhouse effect (Norway)

Radiation Education

- 1. Radiation education for elementary/secondary school teachers (Japan)
- 2. Radiation education for university students in teacher education courses (Japan)
- 3. Radiation education for university students in faculty of engineering (Japan)
- 4. Simple cloud chamber using refreezable gel pack (Japan)

University and Teacher Education

- 1. Science education in teacher training program (Japan)
- 2. School-based professional development for science teachers: the SUN-project (Norway)
- 3. International Master Degree Program in Sustainable Energy at NTNU and possibility cooperation on Double Degrees (Norway)
- "Teknostart" An introduction short course for new master students of applied chemistry and biotechnology at NTNU (Norway)

Education in Energy and Environment

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09:00-09:15	 Welcome with presentation of participants Short overview of previous KIFEE cooperation on Education in E&E
09:15-09:35	 Education for Sustainable Development ESD (Education for Sustainable Development) and Disaster Prevention in Japan: after the 2011 off the Pacific coast of Tohoku Earthquake Tatsuya Fujioka, Shiga Univ.
09:35-09:55	 Project for Outgoing Information of Environment Studies at the Junior High School Attached to Shiga University Web-site for Environmental Monitoring of BIWAKO TIME (Integrated Study) Satoru Ohta and Syohei Tada, Shiga Univ. attached junior high school
09:55-10:15	 Water Monitoring . Report from Local School Projects in Norway Ellen Marie Andersson, NTNU
10:15-10:35	Japanese - Norwegian School Network for Environmental Monitoring - Peter van Marion, NTNU
10:35-10:50	Break
10:50-11:20	 School Science Curricula The Science Curriculum in Japan and in Norway. A Presentation of Key Findings in a Study Performed by Norwegian Master's Students in 2012 Peter van Marion, NTNU
11:20-11:50	 Practical Projects for Technological Understanding and Sustainability: Examples from Lower Secondary School Berit Bungum, NTNU
11:50-12:20	Classroom Demonstrations Visualizing the Greenhouse Effect - Per-Odd Eggen, NTNU
10:00 10:00	

	Radiation Education
13:20-13:40	Radiation Education for Elementary/Secondary School Teachers
	In Case of ASCeST, Tokyo Gakugei University
	- Nobutoshi Yoshihara, Tokyo Gakugei Univ.
13:40-14:00	Radiation Education for University Students in Teacher Education Courses:
	In Case of Tokyo Gakugei University
	- Akio Hirata, Tokyo Gakugei Univ.
14:00-14:20	Radiation Education for University Students in Faculty of Engineering:
	In Case of Tottori University
	- Masahiro Kamata, Tokyo Gakugei Univ.
14:20-14:40	Simple Cloud Chamber using Re-freezable Gel Pack
	For Junior/Senior High School Science
	- Miki Kubota and Masahiro Kamata, Tokyo Gakugei Univ.
14:40-15:00	Break
	University E & E and Teacher Education
15:00-15:20	Science Education in Teacher Training Program
	- Masamitsu Ohyama and Saki Itonori, Shiga Univ.
15:20-15:50	School-based Professional Development for Science Teachers: the SUN Project
	- Peter van Marion, NTNU
15:50-16:10	International Master Degree Program in Sustainable Energy at NTNU and Possibility for
	Cooperation on Double Degrees
	- Vojislav Novakovic, NTNU
16:10-16:30	"Teknostart" – An Introduction Short Course for New Master Students of Applied Chemistry
	and Biotechnology at NTNU
	- Geir Martin Haarberg, NTNU
16:30-16:45	Break
16:45-17:00	Final Discussions and Summing Up

- Saki Itonori, Shiga University and Vojislav Novakovic, NTNU