Tentative Program ver. 2

ZERO CARBON ENERGY KYOTO 2009 – Parallel Session 21st August 2009

Scenario/Socio-Economics Session (Meeting Room 4)		
Chairman: Satoshi Konishi (Professor, Institute of Advanced Energy, Kyoto University)		
10:00 - 10:30	Invited Speaker	
	Shinichi Ichikawa (Chief Market Strategist of Credit Suisse Securities. Limited, Japan)	
10:30 - 11:00	Seiji Ikkatai (Professor, Institute of Economic Research, Kyoto University)	
	A Study on Factors to Approach Low Carbon Society	
11:00 - 11:30	Invited Speaker	
	Rinaldy Dalimi (Professor IVD/Member of national Energy Council, The Republic of Indonesia)	
11:30 - 12:00	Invited Speaker	
	Soonil Lee (Director, Division of energy System Research, Graduate School, Ajou University, Korea)	
	"Application of the Nanotechnology to the Next-Generation Solar Cell Development"	
12:00 - 13:30	Lunch	
	Scenario/Socio-Economics Session	
C	hairperson: Tetsuo Tezuka (Professor, Graduate School of Energy Science, Kyoto University)	
13:30 - 14:00	Invited Speaker	
	Suduk Kim (Associate Professor, Department of Energy Studies, Graduate School, Ajou University,	
	Korea)	
	Energy Economics Model	
14:00 – 14:10	Keiichi N. Ishihara (Professor, Graduate School of Energy Science, Kyoto University)	
	Brief Introduction of Activities on Research and Planning Zero CO2 Emission Scenarios	
14:10 - 14:40	Zhan Qi (G-COE P. D., Graduate School of Energy Science, Kyoto University)	
	Study on a Long-term Scenario Analysis Model for Zero CO2 Energy System	
	and It's Tentative Application for Japan	
14:40 - 14:50	Coffee Break	
14:50 - 15:20	Nuki Agya Utama (JST P. D., Graduate School of energy Science, Kyoto University)	
	2050 ASEAN electricity demand: Income-electricity causality test as a reference information	
15:20 - 15:50	Yoshiyuki Watanabe (G-COE P. D. Graduate School of Energy Science, Kyoto University)	
	Modeling for CO2 emission and absorption in local region in Japan	
15:50 -16:00	Discussion	

Solar Energy Session 1 (International Exchange hall 1)		
10:00 - 10:30	Yoshikazu Suzuki (Assist. Professor, Institute of Advanced Energy, Kyoto University)	
	Morphology Control of TiO ₂ -Based Nanomaterials for Sustainable Energy Applications	
	- A Short Review	
10:30 - 10:50	Taro Sonobe (G-COE Assist. Professor, Graduate School of Energy Science, Kyoto University)	
	Investigation of the Effects of MIR-FEL Irradiation on the Optical Properties	
	in Titanium Dioxides	
10:50 - 11:20	Mitsuhiro Hibino (Assoc. Professor, Graduate School of Energy Science, Kyoto University)	
	γ-Ferric Oxide/Carbon Composite Synthesized by Aqueous Solution Method	
	as a Cathode for Lithium-Ion Batteries	
11:20 - 12:00	Invited Speaker	
	Minoru Taya (Director, Boeing Pennell Professor of Engineering Center for Intelligent Materials	
	and Systems, University of Washington, USA)	
	Energy harvesting and storage system(EHSS) for future airplanes	
12:00 - 13:30	Lunch	
13:30 - 13:50	Masatora Fukuda (G-COE Assist. Professor, Graduate School of Energy Science, Kyoto University)	
	Construction of the functional biomolecules with the covalently linked ribonucleopeptide	
	complexes	
13:50 - 14:20	Toshiyuki Nohira (Assoc. Professor, Graduate School of Energy Science, Kyoto University)	
	Electrolytic reduction of SiO ₂ in molten CaCl ₂ for the production of solar-grade silicon	
14:20 - 14:50	Hideo Ohkita (Professor, Graduate School of Engineering, Kyoto University, Kyoto, Japan	
	Near-IR Dye Modification and Spectroscopic Study of Polymer-Based Solar Cells	
14:50 - 15:00	Break	
15:00 - 15:30	Tetsuo Sakka (Assoc. Professor, Institute of Advanced Energy, Kyoto University)	
	Fabrication and characterization of solid surfaces modified for the application to photo-energy	
	conversion processes	
15:30 - 16:00	Tomokazu Umeyama (Professor, Graduate School of Engineering, Kyoto University)	
	Photoelectrochemical Devices Using Composite Materials of Functionalized Carbon Nanotubes	
	and Fullerenes	

Bioenergy Session (International Exchange Hall 2)		
10:00 - 10:40	Shiro Saka (Graduate School of Energy Science, Kyoto University)	
	Bioenergy research in the Global COE program on second generation biofuels technologies	
10:40 - 11:10	Tsutomu Kodaki (Institute of Advanced Energy, Kyoto University)	
	Development of highly efficient bioethanol production yeast using protein engineering	
11:10 - 11:55	Invited Speaker	
	Luis F. Razon (Department of Chemical Engineering, De La Salle University, the Philippines) Alternative crops for biodiesel feedstock:	
	A review of recent progress and recommendations for future research	
11:55 – 13:30	Lunch	
13:30 – 14:15	Invited Speaker	
	Masato Kouzu (Research Center of Fine Particle Science and Technology, Doshisha University) Eco-friendly production of biodiesel by utilizing solid base catalysis of calcium oxide for reaction to convert vegetable oil into its methyl esters	
14:15 – 14:45	Masahiro Shioji (Graduate School of Energy Science, Kyoto University)	
	Ignition and combustion characteristics in various kinds of biodiesel fuels	
14:45 – 15:00	Break	
15:00 - 15:30	Haruo Kawamoto (Graduate School of Energy Science, Kyoto University)	
	Production of biofuels and biomaterials by pyrolysis	
15:30 – 16:00	Hisashi Miyafuji (Graduate School of Energy Science, Kyoto University)	
	Biofuels and biomaterial production by ionic liquid treatment	
16:00 – 16:30	Tetsuo Tezuka (Graduate School of Energy Science, Kyoto University) Autonomous decentralized energy supply-demand system with renewable energy introduction	
16:30 – 16:40	Masahiro Shioji	
	Closing	

Advanced Nuclear Energy (International Exchange hall 3)		
10:00 -10:20	Ken Nakajima (Professor, Research Reactor Institute, Kyoto University)	
	Outline of Advanced Nuclear Energy Research: K. Nakajima (Kyoto Univ.)	
10:20-11:20	Invited Speaker	
	Masakazu Murakami (Director, Office of Strategy Research, Policy Planning and Administration	
	Department, Japan Atomic Energy Agency)	
11:20-12:00	Satoshi Konishi (Professor, Institute of Advanced Energy, Kyoto University)	
	Comments on "Nuclear Energy Vision 2100": S. Konishi (Kyoto Univ.)	
12:00 - 13:30	Lunch	
13:30-14:30	Invited Speaker	
	Alexander Stanculescu (IAEA Scientific Head, the Department of Nuclear Energy, IAEA)	
	International Status of Research and Technology Development in the Field of Accelerator Driven	
	Systems (ADS): A. Stanculescu (IAEA)	
14:30-15:20	Invited Speaker	
	Kenji Nishihara (Engineering researcher, Japan Atomic Energy Agency (Integration of institutes))	
	JAEA's Activity on the Accelerator-Driven System: K. Nishihara (JAEA)	
15:20-16:00	Jae Yong Lim (G-COE Assist. Professor, Research Reactor Institute, Kyoto University)	
	Current Status of Accelerator-Driven System with High-Energy Protons in Kyoto University	
	Critical Assembly	