

# ■ The 10th International Symposium of Advanced Energy Science – Beyond the Decade of Zero Emission Energy –

Timetable September 4th, 2019

Start	Period	End	Venue	Speakers	Field	Univ./Institute	Title
9:00	0:30	9:30	Kihada Hall,Obaku Plaza	Registration			
9:30	0:15	9:45		(Opening) Yasuaki KISHIMOTO(Director of IAE,Kyoto University)			
				Session 1			Chair: Yasuaki KISHIMOTO
9:45	0:50	10:35		(Plenary) Akira FUJISHIMA	Photocatalysis, Photofunctional Material	Tokyo University of Science	Active Approach Forward for Comfortable World
10:35	0:25	11:00		Toshiyuki NOHIRA	Electrochemistry	IAE,Kyoto University	Sodium Secondary Batteries Using Ionic Liquid Electrolytes for Energy Storage
11:00	0:20	11:20	Coffee Break Venue :Kihada Hybrid Space				
			Kihada Hall,Obaku Plaza	Session 2			Chair: Yasuaki KISHIMOTO
11:20	0:25	11:45		Keigo AKIMOTO	Energy systems engineering	Research Institute of Innovative Technology for the Earth	Current policies and issues, and strategies in the future on energy and climate change response
11:45	0:10	11:55		Xiaohong HAN	Refrigeration	Zhejiang University	Introduction to the Institute of Refrigeration and Cryogenics, and our group's research
11:55	0:15	12:10		(Group photo)			
12:10	1:00	13:10	Lunch				
			Kihada Hall,Obaku Plaza	Session 3			Chair: Toshiyuki NOHIRA
13:10	0:30	13:40		Sang-Yong JU	Nanoscience	Yonsei University	Optical anisotropy of handed carbon nanotubes assembled with chiral flavin helix and its application for Hg(II) sensor
13:40	0:25	14:05		Koji AMEZAWA	Solid State Ionics	Tohoku University	Solid State Ionics Devices for Use of Renewable Energy ~ Device Development Based on Synchrotron X-Ray Operand Measurements ~
14:05	0:25	14:30		Hisayoshi MATSUSHIMA	Electrochemistry	Hokkaido University	Novel Application of Hydrogen Energy Devices for Hydrogen Isotope Separation
14:30	0:25	14:55		Haruyuki ATOMI	Extremophiles and their physiology	Kyoto University	Unique metabolism of the Archaea
14:55	0:20	15:15	Coffee Break Venue :Kihada Hybrid Space				
			Kihada Hall,Obaku Plaza	Session 4			Chair: Takashi MINAMI
15:15	0:30	15:45		Filippo SCOTTI	Plasma physics	Lawrence Livermore National Laboratory	Transport and turbulence in the scrape-off layer and divertor of the National Spherical Torus Experiment
15:45	0:25	16:10		Suguru MASUZAKI	Edge/divertor plasma physics, plasma-wall interactions	National Institute for Fusion Science	Progress of research on edge/divertor plasmas and plasma-wall interactions in fusion experimental devices
16:10	0:25	16:35		Masayuki YOSHIKAWA	Plasma and Fusion Research, Plasma Diagnostics and Fueling	University of Tsukuba	Progress of the divertor-relevant experiments in the tandem mirror GAMMA 10/PDX
16:35	0:20	16:55	Coffee Break Venue :Kihada Hybrid Space				
16:55	1:00	17:55	Kihada Hall,Obaku Plaza	Panel Discussion			
17:55	0:10	18:05		Break			
18:05	2:00	20:05	Reception Venue :Kihada Hybrid Space				

Timetable September 5th, 2019

Start	Period	End	Venue	Speakers	Field	Univ./Institute	Title
			Kihada Hall,Obaku Plaza	Session 5			Chair: Takashi NAGATA
9:30	0:30	10:00		Jean-Guy BERRIN	Biotechnology and Second-Generation Biofuels	INRA - Biodiversity and Biotechnology of Fungi	Fungal biodiversity as a source of enzymes for the conversion of biomass into biofuels
10:00	0:25	10:25		Kenji YOKOTA	Biological control for plant diseases	Tokyo University of Agriculture	Function of cyclic lipopeptides derived from Bacillus spp. in biological control against plant diseases
10:25	1:15	11:40	Poster Session Venue : Kihada Hybrid Space				
11:40	1:20	13:00	Lunch				
			Kihada Hall,Obaku Plaza	Session 6			Chair: Kazunori MORISHITA
13:00	0:30	13:30		Naoto SEKIMURA	Science and Technology for Nuclear Energy and Nuclear Safety	The University of Tokyo	Roles of Nuclear Technology for Future Global Society
13:30	0:30	14:00		Konstantina LAMBRINO	Materials Science & Engineering	SCK•CEN	Development and qualification of accident - tolerant fuel cladding materials: the H2020 IL TROVATORE approach
14:00	0:25	14:25		Ken-ichi FUKUMOTO	Nuclear Materials, Radiation damage in inorganic materials	University of Fukui	Barrier strength factor of irradiation defects in metals and alloys from dynamic deformation process using in-situ TEM observation in tensile test
14:25	0:20	14:45	Coffee Break Venue : Kihada Hybrid Space				
			Kihada Hall,Obaku Plaza	Session 7			Chair: Hideaki OHGAKI
14:45	0:30	15:15		T. P. Radhakrishnan	Materials Chemistry	University of Hyderabad	In situ Fabricated Polymer-Metal/Semiconductor Nanocomposite Thin Films and their Multifaceted Applications
15:15	0:25	15:40		Kosei UENO	Photochemistry, Analytical Chemistry	Hokkaido University	Plasmon-enhanced photochemistry; nanoprocesing and energy conversion
15:40	0:25	16:05		Mamoru KITAURA	Solid state physics	Yamagata University	Visualizing defect complexes in multicomponent oxide scintillators using MIR-FEL and LCS γ-ray pulses
16:05	0:10	16:15		(Closing) Toshiyuki NOHIRA			

Timetable September 6th, 2019

Start	Period	End	Venue	Parallel Seminar	Title
10:00	6:30	16:30	North Bldg. No.4 4F	Parallel Seminar I	Topical Seminar on "Physics, Diagnostics and Analysis of Magnetic Fusion Divertor Plasmas"
10:00	2:00	12:00	Main Bldg. 2F: N-273E	Parallel Seminar II	Discovery of fungal carbohydrate-active enzymes to unlock the deconstruction of lignocellulosic biomass
13:00	3:00	16:00	Main Bldg. 5F: N-571E	Parallel Seminar III	Symposium on Exploring Broadband Energy Science 2019