

Oral Session

Keynote-25分/Invited-20分/一般-15分の場合

Keynote/Invited	Presentation NO	Presentation date	Time to start	Time to finish	Account: First name	Account: Middle name	Account: FAMILY	Account: Affiliation	Abstract title
Chairperson: (Name, Affiliation)									
Keynote		25 Sep.	10:30	10:55	Kohmei		Halada	NIMS	Necessity and the horizon of international research collaboration on Critical Metals
Invited		25 Sep.	10:55	11:15	Tetsuya		YAMAMOTO	Kochi University of Technology	Key Ingredients of ZnO in the Recipe for Replacement of ITO: from Rare metal to Common Metal
		25 Sep.	11:15	11:30	Yoshitomo		HARADA	NIMS	Ubiquitous Resistive Random Access Memory (ReRAM) device composed of Al and O elements
		25 Sep.	11:30	11:45	An-Pang		TSAI	Tohoku University	Full replacement of a metallic element by an intermetallic in catalysis
		25 Sep.	11:45	12:00	Tomoko		AKAI	National Institute of Advanced Industrial Science and Technology, AIST	Luminescent silica glass for the purpose of reducing rare earth used in lighting
Lunch		25 Sep.	12:00	13:30					
Chairperson: (Name, Affiliation)									
		25 Sep.	13:30	13:45	Yoshiyuki		KAWAZOE	Tohoku University	Origin of magnetism
		25 Sep.	13:45	14:00	Kohshiro		TAMAOKI	Osaka Prefecture University	Eco-Friendly Recycling of Precious Metals Based upon Biotechnology
		25 Sep.	14:00	14:15	Shigehiro		NISHIJIMA	Osaka University	Rare Earth Phosphor Recycling with Magneto-Archimedes Method
		25 Sep.	14:15	14:30	Satoshi		SHIMANO	Sumitomo Chemical Co., Ltd.	Direct recycling of the Cathode Materials from Used Lithium-ion Secondary Batteries
		25 Sep.	14:30	14:45	Hidehiro		SEKIMOTO	Iwate University	Feasibility Study on a New Recycle Process of the Rare Earth Elements from the Neodymium Magnet
Coffee break		25 Sep.	14:45	15:00					
Chairperson: (Name, Affiliation)									
		25 Sep.	15:00	15:15	Hideaki		ITOH	Rare Metal Recovery Institute, Inc.	Conception for Rare Metal Recovery Complex and Global Recycle Network
		25 Sep.	15:15	15:30	Masaru		YAMASHITA	National Institute of Advanced Industrial Science and Technology, AIST	Recycling of waste phosphors by high gradient magnetic separation method
		25 Sep.	15:30	15:45	Etsuro		SHIBATA	Tohoku University	Separation and Purification of Sintered Tantalum Compact from Waste Tantalum Capacitor
		25 Sep.	15:45	16:00	Katsuhiko		NOSE	The University of Tokyo	Development of environmentally sound recycling process for platinum group metals
		25 Sep.	16:00	16:15	Kenji		TODA	Niigata University	Rare earth-free Ba-Ti-P-O system phosphor for lighting application
		25 Sep.	16:15	16:30	Tsuyoshi		YOSHITAKE	Kyushu University	Ecologically Friendly Semiconductors: Iron Disilicides and Ultrananocrystalline Diamond/Hydrogenated
Chairperson: (Name, Affiliation)									
		25 Sep.	16:35	16:50	Sherif	A.	EL-SAFY	National Institute for Materials Science	Visual Removal of Heavy Metals from Water Based on Mesoporous Aluminosilica Monoliths
		25 Sep.	16:50	17:05	Chikashi		NISHIMURA	National Institute for Materials Science	Development of vanadium alloy membranes for hydrogen separation with a high hydrogen flux and the
		25 Sep.	17:05	17:20	Shigeki		HARA	AIST	Quantitative Evaluation of Hysteresis in Hydrogen Permeability through Palladium Membranes
		25 Sep.	17:20	17:35	Nobuo		HARA	National Institute of Advanced Industrial Science and Technology (AIST)	Poly(arylene ether) anion exchange membranes for alkaline fuel cells based on phenolphthalein derivatives
		25 Sep.	17:35	17:50	Mitsuhiro		ITAKURA	Japan Atomic Energy Agency	An atomistic study on the interaction of hydrogen atoms and a screw dislocation in BCC iron
overview		25 Sep.	17:50	18:00					
Chairperson: (Name, Affiliation)									
Remarks		27 Sep.	10:30	10:40	Masanori		Nagai	Office for Materials Science and Nanotechnology Development, MEXT	
Remarks		27 Sep.	10:40	10:50	Masakuni		Inoue	Nonferrous Metals Division, METI	
Keynote		27 Sep.	10:50	11:15	Diana	J	BAUER	U.S. Department of Energy	U.S. DOE's 2011 Critical materials Strategy
Keynote		27 Sep.	11:15	11:40	Arnold		TUKKER	TNO, Netherlands and NTNU, Norway	Towards a global stock and flow model for critical materials
		27 Sep.	11:40	11:55	Koichi		TSUCHIYA	National Institute for Materials Science	Structural Materials Research for Elemental Strategy
Lunch		27 Sep.	11:55	13:30					
Chairperson: (Name, Affiliation)									
		27 Sep.	13:30	13:45	Tadashi		FURUHARA	Tohoku University	Alloy Design in Surface Hardening of Steels Based on Element Strategy
		27 Sep.	13:45	14:00	Takahito		OHMURA	National Institute for Materials Science	Indentation-induced plasticity of metals with various lattice defects
		27 Sep.	14:00	14:15	Motohiro		YUASA	National Institute of Advanced Industrial Science and Technology	Molecular dynamics and first-principles study of grain boundary sliding in metals
		27 Sep.	14:15	14:30	Toshiyuki		KOYAMA	Nagoya Institute of Technology	Phase-Field Simulation of Segregation Behavior at Grain Boundary and Interphase Boundary
		27 Sep.	14:30	14:45	Takeshi		KOBAYASHI	SHIBaura INSTITUTE OF TECHNOLOGY	Ab initio prediction for activation energy of magnesium hydride catalyzed with multiple addition of transition
Coffee break		27 Sep.	14:45	15:00					
Chairperson: (Name, Affiliation)									
		27 Sep.	15:00	15:15	Shigeto		Okada	Kyushu University	Alternative Answers to Li-Ion Battery
		27 Sep.	15:15	15:30	Nagasaka		Tetsuya	Tohoku University	Flow of Non-ferrous metals through steel cycle
		27 Sep.	15:30	15:45	Hideaki		KITAZAWA	National Institute for Materials Science	Neutron Scattering Study toward Development of Energy-efficient Environment-friendly Refrigeration
		27 Sep.	15:45	16:00	Taizo		SASAKI	National Institute for Materials Science	First-principles Study of the Oxygen-ion Conduction in Solid Oxides for the Mid-temperature Fuel Cell
		27 Sep.	16:00	16:15	Tadashi		ISHIGAKI	Niigata University	Synthesis of Rare Earth Free Phosphor - Vanadate Phosphors
Chairperson: (Name, Affiliation)									
		27 Sep.	16:25	16:40	Shuichi		IWATA	The Graduate School of Project Design	Global Data Commons for Materials Utilization
		27 Sep.	16:40	16:55	Shnji		TSUNEYUKI	The University of Tokyo	Computational Materials Science Initiative and Elements Strategic Science in Japan
		27 Sep.	16:55	17:10	Toshihiro		ASHINO	Toyo University	Electronic Data Exchange for Materials Science and Engineering
		27 Sep.	17:10	17:25	Youichi		MURAKAMI	High Energy Accelerator Research Organization (KEK)	Complementary Use of Quantum Beams for Materials Science
		27 Sep.	17:25	17:40	Andrew		PRATT	National Institute for Materials Science	Tailoring the spin polarization at the surface of Fe3O4
		27 Sep.	17:40	17:55	Masao		KAMIKO	The University of Tokyo	Novel Fabrication Process for Epitaxial Ag Nanostructure via Ti Seed Layer Mediated Bi-Layer Agglomeration
overview		27 Sep.	17:55	18:00					

Poster Session

Presentation NO	Presentation date	Time to start	Time to finish	Account: First name	Account: Middle name	Account: FAMILY	Account: Affiliation	Abstract title
	25 Sep.			Sherif	A.	EL-SAFY	National Institute for	HOM Mesoporous Monoliths for Cost-cutting Edge Techniques of Rare Metal
	25 Sep.			Kiyoshi		HIRATSUKA	Iwate University	Development of the switchable mirrors
	25 Sep.			Alessio		CARAVELLA	National Institute of	Influence of the Non-ideal Behaviour of Palladium on Hydrogen Permeation
	25 Sep.			Shotaro		KUDO	Iwate University	Diffusion of hydrogen in metal thin film
	25 Sep.			Seisuke		NIGO	National Institute for	Development of rare-metal-free Resistive Random Access Memory using high-
	25 Sep.			Masahiko		KATAGIRI	National Institute for	Characteristics of New Approach for Aluminum Hydrogen Storage Materials
	25 Sep.			Atsushi		NARA	Iwate University	Gasochromic properties of yttrium films covered by metal-ceramics composite
	25 Sep.			Hiroto		MORI	Ochanomizu University	An ab initio molecular orbital/molecular dynamics study on the palladium binding
	25 Sep.			Daisuke		NAKAMURA	Iwate University	Hydrogen permeability of metal foil coated by nano composite layers
	25 Sep.			Shunsuke		MAKI	Iwate University	Development of highly selective hydrogen sensor laminated with nano composite
	25 Sep.			Akira		YAMAGUCHI	Iwate University	Structural, Optical and Hydrogenation Properties of Tungsten Oxide Films
	25 Sep.			Takeshi		INOSHITA	National Institute for	Computational Electronic Structure Database: a Powerful Tool for Materials
	25 Sep.			Asaya		FUJITA	Tohoku University	Exploring Attempts for New Magnetic Phase Transition as Functional Materials