

Program ISIAME 2024*Kitakyushu International Conference Center, Sep. 1-5, 2024*

Time	Code	Speaker	
September 1st (Sun)		<i>Registration desk open 13:00-19:00</i>	
Chair Person		T. Nishida	
14:00-14:50	T 1	L. Machala (Czech Republic)	Iron oxide and oxyhydroxide nanoparticles and their industrial applications
Chair Person		T. Zhang	
15:00-15:50	T 2	J. Wang (China)	<i>In-Situ/Operando</i> Mössbauer Spectroscopy of Prussian Blue Cathode Materials for Sodium Ion Batteries
Chair Person		S.M. Dubiel	
16:00-16:50	T 3	E.Kuzmann (Hungary)	History of the industrial applications of the Mössbauer spectroscopy
17:00-19:00	Welcome Party (<i>Sea Lounge</i> in the Conf. Bldg.)		
September 2nd (Mon)		<i>Registration desk open 8:30-18:00</i>	
9:00-9:30	Opening Ceremony (T. Nishida, N. Oka, E. Kuzmann, T. Zhang, L. Machala, P.E. Lippens, and J.F. Marco)		
Chair Person		V. Schünemann	
9:30-10:10	K 1	R. Röhlberger (Germany)	New opportunities for materials research with synchrotrons and X-ray lasers
10:10-10:50	K 2	P. de Souza (Australia)	Lessons learned from establishing and running a Mössbauer laboratory in industry
11:00-11:30	Coffee break (<i>Foyer</i>)		
Chair Person		N. Kojima	
11:30-12:00	I 1	T. Mitsui (Japan)	Synchrotron Based Conversion Electron Mössbauer Spectroscopy

12:00-12:30	I 2	S. Nakamura (Japan)	Development of synchrotron Mössbauer diffractometer and its possible application to industry
12:30-12:50	C 1	J. Okabayashi (Japan)	<i>Operando</i> Mössbauer study in strain-induced multiferroic devices
13:00-14:00			Japanese food Lunch (<i>Sea Lounge / catering</i>)
Chair Person		R. Röhlberger	
14:00-14:30	I 3	K. Schlage (Germany)	Non-collinear spin profiling in thin film and multilayer devices via oblique incidence deposition
14:30-15:00	I 4	R. Masuda (Japan)	Energy domain Mössbauer spectra of rare-earth nuclides using synchrotron radiation
15:00-15:20	C 2	M. Saito (Japan)	New microscopic dynamics study of soft matter made possible by Mössbauer gamma rays
15:30-16:00			Coffee break (<i>Foyer</i>)
Chair Person		Y. Garcia	
16:00-16:30	I 5	S. Kitao (Japan)	Developments of Measurement System for Time- and Energy-Resolved Synchrotron-Radiation-based Mössbauer Spectroscopy and ¹⁶⁶ Er Reference Compound
16:30-17:00	I 6	A.A. Kamnev (Russia)	Bioanalytical applications of Mössbauer spectroscopy
17:00-17:30	I 7	César A. Barrero (Colombia)	Effect of antimalarials on the β -hematin formation elucidated by Mössbauer spectroscopy
17:30-18:00	I 8	S. Begin (France)	Design of nanoparticles for theranostics: synthesis strategy and positive impact of combining characterization techniques including Mössbauer spectrometry
18:00-19:00			SEC Meeting (1 h)
September 3rd (Tue)			<i>Registration desk open 8:30-18:00</i>
Chair Person		S.M. Dubiel	
9:00-9:40	K 3	V. Schünemann (Germany)	Mössbauer spectroscopy on iron based catalysts
9:40-10:20	K 4	J.M. Greneche (France)	Contribution of Mössbauer spectrometry to the study of industrial nanostructured materials containing Fe

10:20-10:50	I 9	S. Krehula (Croatia)	Doped iron oxide nanoparticles: synthesis, properties and applications
11:00-11:30	Coffee break (<i>Foyer</i>)		
Chair Person	J.M. Greneche		
11:30-12:00	I 10	J.F. Marco (Spain)	Controlling the pelletizing and hydrogen reduction processes of mill scale: a Mössbauer study
12:00-12:30	I 11	Jiří Pechoušek (Czech Republic)	Application of Mössbauer spectroscopy in (1) Determination of austenite in bearing steel, and (2) Inspection of 3D printed metallic elements, engine crankshafts and wind turbine shaft
12:30-12:50	C 3	Karen E. García (Colombia)	Adsorption of Pb, Sb, Hg, and As ions in water using akaganeite
13:00-14:00	Japanese food Lunch (<i>Sea Lounge / catering</i>)		
Chair Person	L. Machala		
14:00-14:30	I 12	Z. Homonnay (Hungary)	Challenges in the accurate quantitative determination of ferrate(VI) content in industrial ferrate products for waste water treatment
14:30-15:00	I 13	K. Mlekodaj (Czech Republic)	Unveiling iron active centers in zeolite catalysts: a synergistic approach with Mössbauer, XAS, and FTIR spectroscopies for atomic-level insights
15:00-15:20	S 1	Jakub Navařík (Czech Republic)	Iron Analytics, A world leader in Mössbauer Spectroscopy Innovations
15:30-16:00	Coffee break (<i>Foyer</i>)		
16:00-18:00	Poster session*	Conference Room No.22 . Drinks and snacks available	
September 4th (Wed)		<i>Registration desk open 8:30-12:30</i>	
Chair Person	Z. Homonnay		
8:30-9:10	K 5	S.M. Dubiel (Poland)	Mössbauer spectroscopic insight into industrial importance of Fe-Cr alloys
9:10-9:50	K 6	Y. Garcia (Belgium)	Iron sensors for domestic applications
9:50-10:10	C 4	Jakub Cieslak (Poland)	Mössbauer and magnetization measurements of multicomponent iron garnets

10:10-10:30	C 5	K.A. Béres (Hungary)	Synthesis of controlled nanoscale catalysts from complex transition metal salts by quasi-intramolecular redox reactions
10:30-11:00	Coffee break (<i>Foyer</i>)		
Chair Person	J. Okabayashi		
11:00-11:40	K 7	T. Zhang (China)	Application of Mössbauer Spectroscopy in Single-Atom Catalysis: Opportunities and Challenges
11:40-12:10	I 14	K. Lázár (Hungary)	Faces of Mössbauer spectroscopy in studying industrial catalysts and processes in recycling
12:10-12:30	C 6	X. Li (China)	Probing Single-Atom Catalysts by <i>in-situ/operando</i> Mössbauer Spectroscopy
<i>Excursion and Conference Dinner</i> <Be sure to get on the sightseeing Bus by 12:50 at the Entrance of the Conference Bldg.>			
13:00-18:30	Excursion (<i>Lunch and Sightseeing in Mojiko-Retro area including 1 h-Boat Cruising</i>)		
19:00-21:00	Conference Dinner (<i>Art Hotel Kokura New Tagawa</i>) / <i>no dress code</i>		
September 5th (Thur)		<i>Registration desk open 8:30-18:00</i>	
Chair Person	N. Oka		
9:00-9:40	K 8	P.E. Lippens (France)	How Mössbauer spectroscopy improves battery performance: from past to future
9:40-10:10	I 15	M. Okubo (Japan)	Iron-based catholytes for redox-flow batteries
10:10-10:40	I 16	K. Nomura (Japan)	Mössbauer spectrometric study on functional material developed by chemical methods
10:40-11:00	C 7	K. Liu (China)	Mössbauer study of PtFe/Al ₂ O ₃ for H ₂ storage using dibenzyltoluene
11:00-11:30	Coffee break (<i>Foyer</i>)		
Chair Person	P.E. Lippens		
11:30-12:00	I 17	M. Sougrati (France)	Spectroscopic characterization of energy storage and conversion materials

12:00-12:30	I 18	N. Kojima (Japan)	Progress of multifunctional phenomena induced by spin, charge and photon for iron mixed-valence system
12:30-12:50	C 8	N. Oka (Japan)	Development of iron vanadate glasses for Li-ion battery and metal-air battery
13:00-14:00 Japanese food Lunch (<i>Sea Lounge / catering</i>)			
Chair Person		S. Kubuki	
14:00-14:30	I 19	P. Bingham (UK)	Applications of Mössbauer Spectroscopy to understanding composition-structure-property relations in glasses for energy applications
14:30-15:00	I 20	S. Nakashima (Japan)	Application of iron oxide and its composites containing carbon nanoparticles to the solution of environmental problem
15:00-15:20	C 9	A. Mulaba (South Africa)	Chromite classification and possible traceability using Mössbauer spectroscopy
15:30-16:00 Coffee break (<i>Foyer</i>)			
Chair Person		J.F. Marco	
16:00-16:30	I 21	S. Kubuki (Japan)	⁵⁷ Fe-Mössbauer study of highly covalent Fe-O bond found in iron oxide nanoparticles of photocatalyst prepared from domestic waste molten slag
16:30-17:00	I 22	M. Kaneko (Japan)	Density functional study on Mössbauer spectroscopic parameters applied to rare metal coordination chemistry
17:00-17:15	C 10	Jiří Pechoušek (Czech Republic)	ISIAME Material Testing Standardization Committee
17:15-17:30	C 11	G. Langouche (Belgium)	From <i>Hyperfine Interactions</i> to <i>Interactions</i>
17:30-17:45		Z. Homonnay (Hungary)	Closing Remarks (Summary)
17:45-18:00		Closing Ceremony (T. Nishida, N. Oka, E. Kuzmann, S. Dubiel) < <i>Young Scientist Best Paper Awards</i> >	

T, K, I, C, and S refer to **t**utorial, **k**eynote, **i**nvited, **c**ontributed, and **s**ponsor, respectively.

Allocated for **3** tutorials, **8** keynotes, **22** invited, **11** contributed, and **1** sponsor talk.

***All the posters** are to be displayed in the **Conference Room No. 22** from the morning of **September 2nd (Mon)** to the afternoon of **September 4th (Wed)**.