

Program ISIAMÉ 2024

Kitakyushu International Conference Center, Sep. 1-5, 2024

T: tutorial, K: keynote, I: invited, C: contributed, S: sponsor

Date	Code	Speaker	Title of Paper
September 1st (Sun)			<i>Registration desk open 13:00-19:00</i>
Chairperson T. Nishida			
14:00-14:50	T 1	L. Machala (Czech Republic)	Iron oxide and oxyhydroxide nanoparticles and their industrial applications
Chairperson 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
Chairperson S.M. Dubiel			
16:00-16:50	T 3	E. Kuzmann (Hungary)	The history of industrial applications of Mössbauer spectroscopy
17:00-19:00 Welcome Party (<i>Sea Lounge</i> in the Conf. Bldg./ catering)			

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)			
Chairperson V. Schünemann			
9:30-10:10	K 1	R. Röhlberger (Germany)	Synchrotron Mössbauer polarimetry for non-iron isotopes
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>Sub-foyer</i>)			
Chairperson 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 or Sub-foyer / delivery</i>)			
Chairperson 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)	Nanosecond dynamics study of soft matter opened up by synchrotron radiation Mössbauer gamma rays
15:30-16:00 Coffee break (<i>Sub-foyer</i>)			
Chairperson S.M. Dubiel			
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
16:30-17:10	K 3	Y. Garcia (Belgium)	Design of colorimetric sensors for the food industry
17:10-17:40	I 6	A.A. Kamnev (Russia)	Bioanalytical applications of Mössbauer spectroscopy
17:40-18:10	I 7	S. Nakashima (Japan)	Application of iron oxide and its composites containing carbon nanoparticles to the solution of environmental problem
18:20-19:20 <i>SEC Meeting</i> (1 h)			

September 3rd (Tue)		<i>Registration desk open 8:30-18:00</i>	
Chairperson Y. Garcia			
9:00-9:40	K 4	V. Schünemann (Germany)	Mössbauer spectroscopy on iron based catalysts
9:40-10:20	K 5	J.M. Greneche (France)	Contribution of Mössbauer spectrometry to the study of industrial nanostructured materials containing Fe
10:20-10:50	I 8	S. Krehula (Croatia)	Doped iron oxide nanoparticles: synthesis, properties and applications
11:00-11:30 Coffee break (<i>Sub-foyer</i>)			
Chairperson J.M. Greneche			
11:30-12:00	I 9	J.F. Marco (Spain)	Controlling the pelletizing and hydrogen reduction processes of mill scale: a Mössbauer study
12:00-12:30	I 10	J. 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
12:30-13:00	I 11	K. Nomura (Japan)	Mössbauer spectrometric study on functional materials developed by chemical methods
13:00-14:00 Japanese food Lunch (<i>Sea Lounge or Sub-foyer / delivery</i>)			
Chairperson L. Machala			
14:00-14:30	I 12	Z. Homonnay (Hungary)	Quantitative analysis of ferrate(VI) and its degradation products in electrochemically produced potassium ferrate 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
15:00-15:10	S 1	J. Navařík (Czech Republic)	Iron Analytics, A world leader in Mössbauer Spectroscopy Innovations (<i>Commercial talk</i>)
15:10-15:20	S 2	I. Burianenko (Russia)	Challenges of manufacturing Mössbauer sources in modern reality (<i>Commercial talk</i>)
15:30-16:00 Coffee break (<i>Sub-foyer</i>)			
16:00-18:00 Poster session* <i>Conference Room No.22 . Drinks and snacks will be served.</i>			

September 4th (Wed)		<i>Registration desk open 8:30-12:30</i>	
Chairperson Z. Homonnay			
9:00-9:40	K 6	S.M. Dubiel (Poland)	Microscopic phenomena in Fe-Cr alloys pertained to macroscopic properties of stainless steels
9:40-10:00	C 3	J. Cieslak (Poland)	Mössbauer and magnetization measurements of multicomponent iron garnets
10:00-10:20	C 4	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>Sub-foyer</i>)			
Chairperson 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)	Mössbauer spectroscopy in studying industrial catalysts and processes in recycling
12:10-12:30	C 5	X. Li (China)	Probing Single-Atom Catalysts by <i>in-situ/operando</i> Mössbauer Spectroscopy
<i>Excursion and Conference Dinner <Be sure to get together by 12:50 at the Entrance of the Conference Bldg.></i>			
13:00-18:30 Excursion (<i>Lunch and Sightseeing in Mojiko-Retro Port Area with 1 h-Boat Cruising</i>)			
19:00-21:00 Conference Dinner (<i>Art Hotel Kokura New Tagawa / no dress code</i>)			

September 5th (Thur)		<i>Registration desk open 8:30-18:00</i>	
Chairperson		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	N. Kojima (Japan)	Progress of multifunctional phenomena induced by spin, charge and photon for iron mixed-valence system
10:40-11:00	C 6	K. Liu (China)	Mössbauer study of PtFe/Al ₂ O ₃ for H ₂ storage using dibenzyltoluene
11:00-11:30		Coffee break (<i>Sub-foyer</i>)	
Chairperson		P.-E. Lippens	
11:30-12:00	I 17	P. Bingham (UK)	Applications of Mössbauer Spectroscopy to understand composition-structure-property relations in glasses for energy applications
12:00-12:30	I 18	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
12:30-12:50	C 7	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 or Sub-foyer / delivery</i>)	
Chairperson		J.F. Marco	
14:00-14:30	I 19	M. Kaneko (Japan)	Density functional study on Mössbauer spectroscopic parameters applied to noble metal coordination chemistry
14:30-14:50	C 8	A. Mulaba (South Africa)	Chromite classification and possible traceability using Mössbauer spectroscopy
14:50-15:10	C 9	J. Pechoušek (Czech Republic)	ISIAME Material Testing Standardization Committee
15:10-15:25		G. Langouche (Belgium)	Proceedings journal from <i>Hyperfine Interactions</i> to <i>Interactions</i>
15:30-16:00		Coffee break (<i>Sub-foyer</i>)	
Chairperson		S. Kubuki	
16:00-16:15		Z. Homonnay (Hungary)	<i>Closing Remarks (Summary)</i>
16:15-16:45		Closing Ceremony (T. Nishida, N. Oka, E. Kuzmann, S. Dubiel) < <i>Young Scientist Best Paper Awards</i> >	

Allocated for **3** tutorials, **8** keynotes, **19** invited, **9** contributed, **2** sponsors, and **34** posters.

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