

ICAME Conference Program



Day 1. Sunday – September 7, 2025

Room: AMSTERDAM

09:00-18:00	Registration		
TUTORIAL LECTURES			
14:30-15:15	T1	J. Juraszek	^{57}Fe Mössbauer Spectroscopy: Principles, Methodology and Advanced Applications in Material Science
15:15-16:00	T2	S.M. Dubiel	Mössbauer Spectroscopy in Investigation of Harmonically Modulated Spin and Charge Structures
16:00-16:30	Coffee break		
16:30-17:15	T3	E. Kuzmann	History of Industrial Applications of Mössbauer Spectroscopy
17:15-18:00	T4	P. Butkiewicz	Determination of the Components of the Electric Field Gradient Tensor in Mössbauer Spectroscopy Using the Velocity Moments Formalism
19:00-21:00	Welcome party		

Day 2. Monday – September 8, 2025

Rooms: AMSTERDAM + GDAŃSK + KOPENHAGA

08:00-18:00	Registration		
08:00-08:30	Opening ceremony		
KEYNOTE LECTURES			
08:30-09:15	K1	F.J. Litterst	Quantum Spin Liquids: What Can We Learn From Mössbauer Spectroscopy and Muon Spin Rotation/Relaxation?
09:15-10:00	K2	W.A. MacFarlane	Ion-implanted β -NMR as a Probe of Materials
10:00-10:30	Coffee break		
AWARDED LECTURES			
10:30-11:00	A1	A. Chumakov	Forty-five Year Pleasure of Nuclear Resonance Scattering
11:00-11:30	A2	J.M. Greneche	Local Order in Micro- up to Nanostructures Studied by ^{57}Fe Mössbauer Spectrometry
11:30-12:00	A3	M. Gracheva	The Role of Root Exudates in Iron Metabolism of Plants
12:00-12:15	Coffee break		

SYNCHROTRON SESSION			
12:15-13:00	T5	E.E. Alp	Nuclear Resonant Scattering Beamline Capabilities Worldwide
13:00-14:45	Lunch		
14:45-15:30	T6	S. Yaroslavtsev	Synchrotron Applications of Mössbauer Techniques (ID14 ESRF)
15:30-15:45	Y1	M.H. Hock	Nuclear Forward Scattering and Density Functional Theory Studies of Photo- and Catalytically Active Iridium Complexes
15:45-16:00	O1	M. Sikora	Research Opportunities at SOLARIS Synchrotron
16:00-16:30	Coffee break		
16:30-17:30	Commemorative session		
18:00-19:30	IBAME meeting (room GDAŃSK)		

Day 3. Tuesday – September 9, 2025
Rooms: GDAŃSK + KOPENHAGA

08:00-08:45	K3	M.T. Sougrati	Spent LiFePO ₄ Batteries Management: Towards Direct Recycling Strategies
08:45-09:15	I1	K. Liu	Mössbauer Studies on Catalysts for H ₂ Storage Using Dibenzyltoluene
09:15-09:45	I2	Y. Guo	Spectroscopic and Computational Studies of Unique Spin States in Biological Iron-Sulfur Clusters and Their Synthetic Congeners
09:45-10:00	O2	S. Farid	Real-Time Insights into Amorphous NiFeB Catalysts for Water Oxidation: An operando Mössbauer Study
10:00-10:30	Coffee break		
10:30-11:15	K4	Z. Klencsár	Data and Model Description Framework Developed for Laboratory Mössbauer Spectroscopy
11:15-11:30	O3	J.M. Byrne	MinSight: Web-based Fitting for Mössbauer Spectroscopy
11:30-11:45	O4	T. Pikula	PolMoss: A User-friendly Software for ⁵⁷ Fe Mössbauer Spectra Smulation and Fitting
11:45-12:00	Coffee break		
12:00-12:30	I3	S. Stankov	Lattice Dynamics of Ultrathin Films and Nanostructures from in situ Nuclear Inelastic Scattering and ab initio Theory

12:30-12:45	O5	A. Panchwancee	Stabilizing Non-collinear Spin Structures in Thin Flms: A Novel Approach Using Oblique Incidence Deposition for Precise Control and Detection via NFS
12:45-13:00	O6	L. Bocklage	Nuclear GISAXS on Self-assembled Magneto-resistive Multilayer Nanowires
13:00-14:30	Lunch		
YOUNG SESSION			
14:30-14:45	Y2	K. Podgórska	¹⁵¹ Eu Mössbauer Spectroscopy and Magnetic Studies of EuSnP Single Crystals
14:45-15:00	Y3	X. Li	Solvent-Dependent Two-Step Spin Crossover Behavior in 3D Coordination Frameworks
15:00-15:15	Y4	T. Samuel	Preparation and Physico-Chemical Characterization of AISI 304 Stainless Steel Film Deposited by DC Magnetron Sputtering
15:15-15:30	Y5	A. Sławek	Mössbauer Investigations of FeCoNiZn _x System
15:30-15:45	Y6	M. Hausner	Interactions of Gamma Photons with Ensemble of Nuclei Described by Quantum Mechanical Model
16:00-16:30	Coffee break		
16:30-17:00	I4	K.R. Szymański	Velocity Moments and Tensor Properties of Mössbauer Spectra
17:00-17:15	O7	D. Nagy	Remote Control and Alarm Monitoring of Mössbauer Laboratories
17:15-17:30	O8	A. Stejskal	Flexible Intensity Control of Resonantly Scattered Gamma-Rays Using Multi-Frequency Vibrating Resonant Absorber
18:30-21:00	Poster session		

Day 4. Wednesday – September 10, 2025

Room: GDAŃSK

08:00-08:45	K5	T. Nishida	Local Distortion of Highly Conducting Glass and Glass Ceramics
08:45-09:15	I5	M. Saito	Collective Atomic Dynamics in Glass Revealed by Mössbauer Time-Domain Interferometry
09:15-09:30	O9	P. Bruna	Mössbauer Spectroscopy Investigation of Crystallization in (FeCoCrNi)-(B,Si) High-Entropy Metallic Glasses

09:30-10:00	I6	D. Malczewski	Application Of Mössbauer Spectroscopy To Study Metamict Minerals And Their Thermally-Induced Recrystallization Process
10:00-10:30	Coffee break		
10:30-11:00	I7	D.H. Ryan	Exploring Valence and Magnetic Order Using ¹⁵¹ Eu Mössbauer Spectroscopy
11:00-11:15	O10	S. Kitao	Eu-Activated SiAlON Studied by Synchrotron-Radiation-Based ¹⁵¹ Eu Mössbauer Spectroscopy
11:15-11:30	O11	R. Masuda	Synchrotron-radiation-based Mössbauer Spectroscopy for Europium Hydrides under Hydrogen Pressure up to 80 GPa
11:30-11:45	O12	Z. Homonnay	Influence of Eu-doping on the Magnetic Structure of Goethite: A Mössbauer Study
11:45-12:00	Coffee break		
12:00-12:30	I8	D. Kubániová	Mössbauer Spectroscopy of Nanoparticle Suspensions
12:30-12:45	O13	V. Schünemann	Magnetic and Vibrational Properties of a Molecular Fe ₁₈ Dy ₆ Wheel
12:45-13:00	O14	C. Dong	Unraveling the Sodium Storage Mechanism of Atomically Dispersed Sn on Hard Carbon via Mössbauer Spectroscopy
13:00-14:30	Lunch		
14:30-14:45	Conference photo		
15:00	Excursion		

Day 4. Wednesday – September 10, 2025

Room: KOPENHAGA

08:00-08:45	K6	Y. Huang	Mössbauer Spectroscopy: Unlocking the Structural and Mechanistic Insights of Single-Atom Catalysts
08:45-09:15	I9	T. Zhang	Study of Single-Atom Catalysts with in-situ/operando Mössbauer Spectroscopy
09:15-09:45	I10	E. Tabor	Iron-Based Zeolite Heterogeneous Catalysts: Insights into Active Centers and Reaction Pathways through Mössbauer Spectroscopy
09:45-10:00	O15	Y.A. Abdu	Mössbauer Characterization of Low Temperature Iron-based Fischer-Tropsch Catalysts
10:00-10:30	Coffee break		
10:30-11:00	I11	L. Kubíčková	Mössbauer Study of Iron Nitrides: Exploring Biomedical and Thermoelectric Applications

11:00-11:15	O16	K. Burda	Hypertension Development May Be Impacted by Gold, Silver, and Titanium Oxide Nanoparticles
11:15-11:30	O17	K. Dziedzic-Kocurek	Exploring the Magnetic Moment of Iron in Oxyhaemoglobin - A Story Still Unfolding
11:30-11:45	O18	M. Kądziołka-Gaweł	Identification of Heme and Non-heme Iron in Foods: Mössbauer Spectroscopy Study
11:45-12:00	Coffee break		
12:00-12:30	I12	J. Okabayashi	Operando Mössbauer Spectroscopy Under Reversible Strain for Magneto-Strictive Materials
12:30-12:45	O19	H.H. Klauss	Quasi-two-dimensional Magnetism and Antiferromagnetic Ground State in $\text{Li}_2\text{FeSiO}_4$
12:45-13:00	O20	K. Komędera	High-entropy Magnetism of Murunskites
13:00-14:30	Lunch		
14:30-14:45	Conference photo		
15:00	Excursion		

Day 5. Thursday – September 11, 2025

Rooms: GDAŃSK + KOPENHAGA

08:00-08:45	K7	P. de Souza	A Global Mössbauer Spectrum for Martian Soil
08:45-09:00	O21	F. Renz	Two-Dimensional Mössbauer Spectroscopy – New Horizons in Molecular Magnetism and Space Exploration
09:00-09:30	I13	M. Roskosz	Use of Nuclear Resonance in Studies of Space Returned Samples from Ryugu and Bennu Asteroids
09:30-09:45	O22	M. Jakubowska	Classification Method of Ordinary Chondrites Based on Mössbauer Spectroscopy - What Can It Tell Us About Meteorites?
09:45-10:00	O23	M. Wang	Aromatic Substituent Effects on the Spin Crossover Properties of $[\text{Fe}(\text{H}_2\text{Bpz})_2(\text{bipy-R})]$ Complexes
10:00-10:30	Coffee break		
10:30-11:00	I14	B. Kalska-Szostko	How Do the Synthesis Conditions Influence the Final Properties of Nanoparticles
11:00-11:15	O24	S. Krehula	Mössbauer Spectroscopy Study of Sn-doped α - Fe_2O_3 Nanoparticles
11:15-11:30	O25	D. Peddis	New Insights into the Crystal and Magnetic Structure of Hematite

11:30-11:45	O26	S. Slimani	Magnetic Structure of Hollow Nanoarchitectures
11:45-12:00	Coffee break		
12:00-12:30	I15	X. Li	Interplay between Structural, Electronic, and Magnetic Properties of Iron Oxides at Extreme Conditions
12:30-12:45	O27	P. Adler	Pressure-Induced Electronic and Magnetic Transitions in the Iron(IV) Oxide Sr_2FeO_4
12:45-13:00	O28	E.C. Passamani	Hybrid Iron-based Nanoadsorbents: Morphological, Structural, Magnetic and Hyperfine Properties
13:00-14:30	Lunch		
14:30-15:00	I16	C. Bartha	Complex Structural, Mössbauer Spectroscopy and Magnetic Investigations of Rare-Earth Iron Garnets Obtained by Different Processing Routes
15:00-15:15	O29	R. Röhlberger	A Mobile Mini-beamline for Mössbauer Spectroscopy at the European X-ray Free-Electron Laser
15:15-15:30	O30	J. Evers	Single-shot Mössbauer Spectroscopy at X-ray Free-electron Lasers
15:30-15:45	O31	I. Sergeev	Recent Results and Development at the P01 Beamline, PETRA III, DESY
15:45-16:00	O32	N. Nagasawa	Nuclear Resonant Scattering in Public Beamline of SPring-8
16:00-16:30	Coffee break		
16:30-16:45	O33	S. Sadashivaiah	Ultrafast Control of Coherence in Nuclear Resonant X-rays
16:45-17:00	O34	D. Bessas	Nuclear Resonance Scattering Beamline ID14 at the European Synchrotron Radiation Facility
17:00-17:15	O41	M.Y. Hu	NRIXS and Atomic Dynamics Simulations
17:15-17:30	O43	J. Zhao	Application of Nuclear Resonant Scattering at High Pressure and High Temperature at Advanced Photon Source
17:30-19:00	IBAME meeting (room HAMBURG)		
19:00-23:00	Conference dinner		

Day 6. Friday – September 12, 2025
Rooms: AMSTERDAM + GDAŃSK + KOPENHAGA

08:00-08:45	K8	H. Kobayashi	Mössbauer Study of a Critical Charge Mode in a Strange Metal
08:45-09:15	I17	H.H. Klauss	Altermagnetism: A Conceptional Overview and What We Learn with Mössbauer Spectroscopy and Other Local Probes
09:15-09:30	O35	S. Tsutsui	Successive Transitions in $\text{Ca}_5\text{Ir}_3\text{O}_{12}$ Revealed by ^{193}Ir Synchrotron-Radiation-Based Mössbauer Spectroscopy
09:30-09:45	O36	S. Kubuki	Relationships among Structure, Photocatalytic and Electrical Properties of Lanthanide-Substituted Goethite Nanoparticles
09:45-10:00	O37	E.E. Alp	High Throughput Nuclear Resonant Time Domain Interferometry: NR-TDI
10:00-10:30	Coffee break		
10:30-10:40	J. Navařík - Iron Analytics		
10:40-10:50	Z. Nemeth - LynXes		
10:50-11:00	A. Dan - WissEL		
11:00-11:15	O38	J.M. Michalik	Structure, Microstructure, and Hyperfine Interactions in Hf- and Ni-Substituted TiFe Alloy for Hydrogen Storage
11:15-11:30	O39	T. Szumiata	Quality Inspection of 3D Printed Steel Elements, Marine Engine Crankshafts, Wind Turbine Shafts and Nanomagnetic Ferrofluids with Mössbauer Spectrometry
11:30-11:45	O40	M. Hayashi	Effect of Partial Pressures of Oxygen on Oxidation States and Coordination Structures of Iron Ions and on Iron Oxide Activity Coefficients in Silicate Slags
11:45-12:00	Coffee break		
12:00-13:00	Closing ceremony		
13:00-14:30	Lunch		

HYPERFINE Conference Program



Day 1. Sunday – September 7, 2025

Room: AMSTERDAM

09:00-18:00	Registration		
TUTORIAL LECTURES			
14:30-15:15	T1	J. Juraszek	^{57}Fe Mössbauer Spectroscopy: Principles, Methodology and Advanced Applications in Material Science
15:15-16:00	T2	S.M. Dubiel	Mössbauer Spectroscopy in Investigation of Harmonically Modulated Spin and Charge Structures
16:00-16:30	Coffee break		
16:30-17:15	T3	E. Kuzmann	History of Industrial Applications of Mössbauer Spectroscopy
17:15-18:00	T4	P. Butkiewicz	Determination of the Components of the Electric Field Gradient Tensor in Mössbauer Spectroscopy Using the Velocity Moments Formalism
19:00-21:00	Welcome party		

Day 2. Monday – September 8, 2025

Rooms: AMSTERDAM + GDAŃSK + KOPENHAGA

08:00-18:00	Registration		
08:00-08:30	Opening ceremony		
KEYNOTE LECTURES			
08:30-09:15	K1	F.J. Litterst	Quantum Spin Liquids: What Can We Learn From Mössbauer Spectroscopy and Muon Spin Rotation/Relaxation?
09:15-10:00	K2	W.A. MacFarlane	Ion-implanted β -NMR as a Probe of Materials
10:00-10:30	Coffee break		
AWARDED LECTURES			
10:30-11:00	A1	A. Chumakov	Forty-five Year Pleasure of Nuclear Resonance Scattering
11:00-11:30	A2	J.M. Greneche	Local Order in Micro- up to Nanostructures Studied by ^{57}Fe Mössbauer Spectrometry
11:30-12:00	A3	M. Gracheva	The Role of Root Exudates in Iron Metabolism of Plants
12:00-12:15	Coffee break		

SYNCHROTRON SESSION			
12:15-13:00	T5	E.E. Alp	Nuclear Resonant Scattering Beamline Capabilities Worldwide
13:00-14:45	Lunch		
14:45-15:30	T6	S. Yaroslavtsev	Synchrotron Applications of Mössbauer Techniques (ID14 ESRF)
15:30-15:45	Y1	M.H. Hock	Nuclear Forward Scattering and Density Functional Theory Studies of Photo- and Catalytically Active Iridium Complexes
15:45-16:00	O1	M. Sikora	Research Opportunities at SOLARIS Synchrotron
16:00-16:30	Coffee break		
16:30-17:30	Commemorative session		

Day 3. Tuesday – September 9, 2025

Room: AMSTERDAM

08:00-08:45	HI1	S. Cottenier	Teaching Hyperfine Interactions to the World: From the Good Old Internet to Artificial Intelligence (www.hyperfinecourse.org)
08:45-09:15	HI2	F. Pratt	Measuring Spin Dynamics and Quantum Entanglement in Frustrated Spin Systems using μ SR
09:15-09:30	HO1	T. Prokscha	Muon Spectroscopy at the Swiss Muon Source $S\mu S$
09:30-09:45	HO2	H.A Torii	Hyperfine Spectroscopy of Muonium and Muonic Atoms for Precise Determination of the Muon Magnetic Moment
09:45-10:00	HO3	S. Nishimura	Transient μ SR with High-Field μ SR Spectrometer at J-PARC
10:00-10:30	Coffee break		
10:30-11:00	HI3	W. Higemoto	Quantum Critical Behavior in Heavy Fermion Superconductor Studied by μ SR
11:00-11:30	HI4	H. Ariga-Miwa	μ +SR Investigations of Microporous Aluminosilicates: Probing Interactions with Pd Nanoparticles in Catalysis
11:30-11:45	HO4	M. Mihara	Performance Evaluation of Improved Muon Spin Imaging Device Using Charged Particle Trackers in μ -e Decay Process
11:45-12:00	Coffee break		
12:00-12:15	HO5	S. Takeshita	Hyperfine Field Measurement and Local Structure of Muonic Organic Materials

12:15-12:30	HO6	K. Yokoyama	Muonium as a Probe of Point Defects in Type-Ib Diamond
12:30-12:45	HO7	A.D Pant	Muon Spin Rotation and Relaxation Study in Albumin and Hemoglobin Derivatives
12:45-13:00	O42	V. Raghavendra Reddy	Structural Modifications across Dielectric Maxima in Lead-free BaTiO ₃ -based Relaxors: ¹¹⁹ Sn Hyperfine Interaction Study
13:00-14:30	Lunch		
14:30-15:00	HI5	X. Yang	Recent Studies of Exotic Nuclei Using High-Resolution Laser Spectroscopy
15:00-15:30	HI6	K. Stoychev	Towards High-Precision g-Factor Measurements on Stable and Radioactive Beams with the TDRIV Method
15:30-15:45	HO9	Y. Mizoi	Enhancement of Spin Polarized RI and Muon Beam Imaging via Machine Learning Techniques
15:45-16:00	HO10	M. Priyadarsini	Interface Resolved Magnetism of Metal-Organic (Fe ⁵⁷ / C ₄₂ H ₂₈) Thin Films; Studies under X-ray Standing Waves
16:00-16:30	Coffee break		
16:30-17:30	IAC meeting (room HAMBURG)		
18:30-21:00	Poster session		

Day 4. Wednesday – September 10, 2025

Room: AMSTERDAM

08:30-09:00	HI7	V. Polytimos	Exploring Nuclear Structure in Even-Even Er-W Isotopes in the Framework of IBM-1 with Intrinsic Triaxial Deformation
09:00-09:30	HI8	S. Go	Nuclear Gamma-Ray Polarimetry Based on Multi-Layer Semiconductor Compton Cameras
09:30-09:45	HO11	M. Fukutome	Measurement of Charge Radii in Neutron-Rich Regions Using Charge-Changing Cross Sections
09:45-10:00	HO12	G. Georgiev	Nuclear Moments of Isomeric States around ¹³² Sn
10:00-10:30	Coffee break		
10:30-11:00	HI9	M. Mukai	β-decay Spectroscopy of ¹⁸⁷ Ta and Recent Results at KISS
11:00-11:30	HI10	L. Bocklage	Nuclear Quantum Memory for Hard X Ray Photons
11:30-11:45	HO13	J. Suh	Precision Measurements of the Ground State Hyperfine Splitting of Antihydrogen

11:45-12:00	Coffee break		
12:00-12:15	HO14	T.T. Dang	Local Order-Disorder Phase Transition in Complex Perovskite Relaxor Lead Iron Tungstate $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3$
12:15-12:30	HO15	M.J. Zai	Critical Temperature and Phonon Evaluation in Hydride Systems Using Computational Methods
13:00-14:30	Lunch		
14:30-14:45	Conference photo		
15:00	Excursion		

Day 5. Thursday – September 11, 2025

Room: AMSTERDAM

08:30-09:00	HI11	T.E. Lellinger	Exploring New Nuclear Magic Numbers with Continuous Beam Collinear Laser Spectroscopy at COLLAPS
09:00-09:30	HI12	T. Schumm	Laser Mössbauer spectroscopy on Thorium-229
09:30-09:45	HO18	Y.F. Guo	High-Resolution and High-Sensitivity Collinear Resonance Ionization Spectroscopy of Rb and Cs Isotopes
09:45-10:00	HO19	Y. Hirayama	Laser Resonant Ionization Spectroscopy at Kiss
10:00-10:30	Coffee break		
10:30-11:00	HI13	B. Jasińska	Positron Annihilation Lifetime Spectroscopy – Assumptions and Applications
11:00-11:30	HI14	P. Rocha-Rodrigues	Local Probing of Structural Phase Transitions in Ferroelectric Layered Perovskite Systems Using PAC Spectroscopy
11:30-11:45	HO20	R.P. Moreira	First Principles and Experimental Local Probe Study of Ge-based Clinopyroxene Series
11:45-12:00	Coffee break		
12:00-12:15	HO21	P.A. Sousa	Phase Transitions and Uniaxial Negative Thermal Expansion in $\text{CsNdNb}_2\text{O}_7$: Combined Local Probe and Diffraction Study
12:15-12:30	HO22	J. Schell	The Solid State Physics Programme at ISOLDE-CERN
12:30-12:45	HO23	A. Neves Cesário	Local Structural Order in Layered Perovskite Solid Solutions

12:45-13:00	HO24	B. Feng	Evaluation of Local Chemical Environment via PAC Spectroscopy Using ¹¹¹ In-Labeled Radiotracers: From Quantification to Cell-Based Validation
13:00-14:30	Lunch		
14:30-15:00	HI15	A. Zarzycki	New Frontiers of Mössbauer Spectroscopy – Phase Transitions of FePd Thin Alloy Films
15:00-15:30	HI16	W. Sato	Enhancement of Electrical Conductivity by Controlling the Chemical States of Impurity In in ZnO
15:30-15:45	HO25	M. Uenomachi	Development of a Novel Nuclear Medicine Imaging Method with Local Microenvironment Sensing Based on Ultrasound- Guided Double-Photon Angular Correlation
15:45-16:00	HO26	K. Okai	Controlling the Isomeric State of Thorium-229 using X-rays
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