

DAY 1, AUGUST 5, 2026						INESS-2026 CONFERENCE PROGRAM																	
Venue - NAZARBAYEV UNIVERSITY, Block C3 (entrance from Turan ave.)																							
8 ⁰⁰ –8 ⁵⁰		REGISTRATION				Location: Red hall (Block C3, First floor)																	
8 ⁵⁰ –9 ²⁰		OPENING CEREMONY				Location: Red hall (Block C3, First floor) Minister Sayasat Nurbek Prof. Waqar Ahmad (President of Nazarbayev University) Prof. Bjorn Birgisson (Vice Provost for Research of Nazarbayev University) Prof. Zhumabay Bakenov (General Director of Institute of New Materials and Energy Technologies (INMET), Nazarbayev University) Mr. Galymzhan Issabekov (Co-Founder and Vice President of QIST Association)																	
9 ²⁰ –9 ³⁰		GROUP PHOTO				Location: Red hall (Block C3, First floor)																	
KEYNOTE SESSION						Location: Red hall (Block C3, First floor); Chairman: Prof. Zhumabay Bakenov, Co-chairman: Dr. Aliya Mukanova																	
9 ³⁰ –10 ⁰⁰		Prof. Shinichi Komaba Tokyo University of Science (Japan)				Polytypes and Stoichiometry of Layered NaMnO ₂ & Na _{2/3} MnO ₂																	
10 ⁰⁰ –10 ³⁰		Prof. Seung-Taek Myung Sejong University (Korea)				Mn-Rich Layered Cathode Materials for Lithium and Sodium Intercalation																	
10 ³⁰ –11 ⁰⁰ COFFEE BREAK (Upper Atrium, M floor between blocks C3 and C4)																							
Red hall (Block C3, First floor)			PARALLEL SESSIONS			C3.1009 (Block C3, First floor)			PARALLEL SESSIONS			C3.2003 (Block C3, Second floor)			PARALLEL SESSIONS			C3.1010 (Block C3, First floor)					
HIGH-PERFORMANCE MATERIALS AND TECHNOLOGIES FOR NEXT -GENERATION ENERGY SYSTEMS Chairman: Prof. Ralf I Kaiser Co-Chairman: Dr. Arailym Nurpeissova				ADVANCED ELECTROCHEMICAL SYSTEMS AND FUNCTIONAL ENERGY IMPLEMENTATIONS Chairman: Prof. Xu Guobao; Co-Chairman: Dr. Nurzhan Umirov				ADVANCED MATERIALS FOR NUCLEAR AND EXTREME ENERGY ENVIRONMENTS Chairman: Prof. Popov Anatoli ; Co-Chairman: Dr. Gani Yergaliuly				MODERN TRENDS IN ENERGY STORAGE BATTERY ENGINEERING Chairman: Prof. Yong Min Lee; Co-Chairman: Dr. Fail Sultanov											
11 ⁰⁰ –11 ²⁵ INVITED (ONLINE)		Prof. Rachid Yazami KVI PTE LTD (Singapore)		Non-Linear Voltammetry (NLV): a multi-task battery technology for enhanced performances		11 ⁰⁰ –11 ²⁵ INVITED (ONLINE)		Prof. Desmond Adair Queen's University Belfast (UK)		Thermal Management to Enhance Proton Exchange Membrane Fuel Cell Efficiency		11 ⁰⁰ –11 ²⁵ INVITED (ONLINE)		Prof. Ismail Boztosun Akdeniz University (Turkey)		Present and Future: Turkish Accelerator and Radiation Laboratory		11 ⁰⁰ –11 ²⁵ INVITED		Prof. Yong Min Lee Yonsei University (Korea)		Digital Twin-Guided Microstructure Design of Battery Electrodes and Separators	
11 ²⁵ –11 ⁵⁰ INVITED		Prof. Yongcheng Jin Ocean University of China (China)		Study on Structural Design and Performance Tuning of Cobalt-free Lithium-rich Manganese-Based Cathode Materials		11 ²⁵ –11 ⁵⁰ INVITED		Prof. Guobao Xu Changchun Institute Of Applied Chemistry (China)		“Single” Electrode Electrochemiluminescence		11 ²⁵ –11 ⁵⁰ INVITED		Prof. Anatoli Popov University of Latvia (Latvia)		Radiation Defects and Functional Optical Materials for Extreme Radiation Environments		11 ²⁵ –11 ⁵⁰ INVITED		Dr. Mozaffar Abdollahifar Kiel University (Germany)		Beyond the Cathode: Engineering Next-Generation Circularity for Graphite and Solid-State Batteries	
11 ⁵⁰ –12 ¹⁵ INVITED		Prof. Ralf I Kaiser University of Hawaii at Manoa (USA)		Molecular Mass Growth Processes in Extreme Environments – from Polycyclic Aromatic Hydrocarbons via Nanobowls to Buckyballs		11 ⁵⁰ –12 ¹⁵		Mr. Igor Nikitin ITMO University (Russia)		Electrochemiluminescence of Luminol for Heavy Metal Ions Detection		11 ⁵⁰ –12 ¹⁵ INVITED		Dr. Marina Konuhova University of Latvia (Latvia)		Structure-Guided Understanding of Self-Trapped Hole Delocalization in Binary and Complex Halides		11 ⁵⁰ –12 ¹⁵ INVITED		Prof. Sang-Young Lee Yonsei University (Korea)		Beyond Materials: Scalable Thick Electrode Engineering for Cell-Level Energy Density	
12 ¹⁵ –12 ³⁵ SPONSOR		Askhat Zhumabayev CLL "Martuk Brothers“ (Kazakhstan)		The future of Kazakhstan Science with MartukBrothers		12 ¹⁵ –12 ³⁵		Mr. Alisher Zhumabayev L.N. Gumilyov Eurasian National University (Kazakhstan)		Development of Gel Polymer Electrolytes Based on Graphene Oxide-Doped Track-Etched Membranes for All-Solid-State Supercapacitors		12 ¹⁵ –12 ³⁵		Mr. Yerzhan Kabdylkakov Branch Institute of Atomic Energy of the National Nuclear Center of the RK (Kazakhstan)		Numerical Simulation of the Thermal State of an Electroslag Remelting Mold During the Processing of Solid Radioactive Waste		12 ¹⁵ –12 ³⁵		Dr. Muhammad Awais Jamali INMET, Nazarbayev University (Kazakhstan)		Elucidating the Mechanisms and Optimizing ElectrodeChemistry for Advanced Sodium Ion Batteries (SIBs)	
12 ⁴⁰ –13 ⁰⁰		Ms. Damira Rakhman INMET, Nazarbayev University (Kazakhstan)		Surface Engineering of Current Collector for Stable High-Mass-Loading Cathodes in Aqueous Zn-LiFePO ₄ Batteries		12 ⁴⁰ –13 ⁰⁰		Dr. Nursultan Mussakhanuly INMET, Nazarbayev University (Kazakhstan)		Tribromide-assisted low-dimensional/3D heterojunction for efficient and stable wide-bandgap perovskite solar cells		12 ⁴⁰ –13 ⁰⁰		Mr. Abylay Tangirbergen INMET, Nazarbayev University (Kazakhstan)		First-Principles Study of Y-Doped FeCrAl Alloys: Linking Mechanical Properties with H ₂ and O ₂ Surface Interactions		12 ⁴⁰ –13 ⁰⁰		Mr. Adil Zhetpis Toraighyrov University (Kazakhstan)		Nanostructured Electrode Materials for High-Performance Hydrogen Storage in Subsurface Energy Systems	
13 ⁰⁰ –14 ⁰⁰ LUNCH BREAK (Block C2, 3 rd floor, Ballroom right)																							
KEYNOTE SESSION																							
Location: Red hall (Block C3, First floor); Chairman: Dr. Aliya Mukanova, Co-chairman: Dr. Natalya Khan																							
14 ⁰⁰ –14 ³⁰		Prof. Sung-Soo Kim Chungnam National University (Korea)						Microstructure-Driven Electro-Chemo-Mechanical Behavior and Degradation Pathways in Si-Al Alloy Anodes with Different Al Contents															
14 ³⁰ –15 ⁰⁰		Prof. Sarbajit Banerjee ETH Zürich and Paul Scherrer Institute (Switzerland)						Designing and Architecting Battery Electrode Materials Across Length Scales															
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HIGH-PERFORMANCE MATERIALS AND TECHNOLOGIES FOR NEXT -GENERATION ENERGY SYSTEMS Chairman: Prof. Sarbajit Banerjee; Co-Chairman: Dr. Nurzhan Baikalov				SUSTAINABLE TECHNOLOGIES FOR EFFICIENT ENERGY CONVERSION Chairman: Prof. Zulkhair Mansurov; Co-Chairman: Dr. Baglan Bakbolat				NOVEL CATALYTIC SYSTEMS FOR CLEAN ENERGY CONVERSION Chairman: Prof. Ewa Mijowska; Co-Chairman: Dr. Akbar Dauletbay				MODERN TRENDS IN ENERGY STORAGE BATTERY ENGINEERING Chairman: Prof. Kazuhiko Matsumoto Co-Chairman: Dr. Nazerke Zhumasheva											
15 ⁰⁰ –15 ²⁵ INVITED (ONLINE)		Prof. Michael Metzger Dalhousie University (Canada)		A Novel Multi-Channel Online Electrochemical Mass Spectrometer for Battery Gas Analysis Applied to Electrolyte Additive Screening		15 ¹⁰ –15 ³⁵ INVITED		Prof. Zulkhair Mansurov Institute of Combustion Problems (Kazakhstan)		Sustainable Nanomaterials from Combustion and Biomass Valorization		15 ⁰⁰ –15 ²⁵ INVITED		Prof. Qunjie Xu Shanghai University of Electric Power (China)		Defect Engineering Strategy of Non-Noble Metals for Enhancing Oxygen Evolution Reaction Performance		15 ¹⁰ –15 ³⁵ INVITED		Prof. Kazuhiko Matsumoto Kyoto University (Japan)		Sodium metal batteries: Positive, Negative, and Counter Electrodes	
15 ²⁵ –15 ⁵⁰ INVITED		Prof. Fu-Ming Wang National Taiwan University of Science and Technology (Taiwan)		An Investigation of Prelithiated Effects of SiO _x : the Effects Lithiated Organic Coverages on the Interaction of Surface Si-O-Si Bond		15 ³⁵ –15 ⁵⁵		Dr. Olzat Toktarbaiuly NLA, INMET, Nazarbayev University (Kazakhstan)		Nano-Engineered Superhydrophobic Materials and Surfaces: Durable Solutions for Waterproofing, Self-Cleaning, and Environmental Remediation		15 ²⁵ –15 ⁴⁵		Prof. Ewa Mijowska West Pomeranian University of Technology in Szczecin (Poland)		Role of Alkaline Metals in Promotion of Hydrogen Evolution in Electrocatalytic Water Decomposition		15 ³⁵ –15 ⁵⁰		Dr. Rodion Panin Lomonosov Moscow State University (Russia)		An Intergrowth of anti-NASICON and NASICON Frameworks in “Empty” M _{0.5} Nb _{1.5} (PO ₄) ₃ (M = Al, Cr, Sc) Phosphates with the Nb ⁺⁵ /Nb ⁺⁴ /Nb ⁺³ Multi -Electron Redox Activity	
15 ⁵⁰ –16 ¹⁵ INVITED		Prof. Tomooki Hosaka Tokyo University of Science (Japan)		Stabilizing Prussian Blue Analogue Cathodes through Cation-Selective Intercalation for Long-Cycle Sodium-Ion Batteries		15 ⁵⁵ –16 ¹⁰		Mr. Muhammad Ibrahim Khalili Nazarbayev University (Kazakhstan)		Enhanced Oil Recovery and CO ₂ Storage Using Polymer Enhanced CO ₂ Foam: Foam Strength and Mobility Control		15 ⁴⁵ –16 ⁰⁰		Ms. Alina Agatanova “Institute of Atomic Energy” Branch RSE NNC RK (Kazakhstan)		Plasma-Catalytic Conversion of Methane in Microwave Discharge		15 ⁵⁰ –16 ⁰⁰ SPONSOR		Mr. Albert Koldarov MN Labtech (Kazakhstan)		Latest generation of table-top SEM Phenom -enabling the advanced applications	
16 ¹⁵ –16 ³⁵		Dr. Rustam Sharipov Kazakh-British Technical University (Kazakhstan)		Recovery of Battery-Grade Nickel Sulfate from Chrysotile-Asbestos Waste		16 ¹⁰ –16 ³⁰		Mr. Suleimen Bakytov Institute of Batteries (Kazakhstan)		Upcycled PET-Derived Porous Carbon as a High-Capacity Anode for Low-Temperature Sodium–Selenium Batteries		16 ⁰⁰ –16 ¹⁵		Ms. Aizhan Koishybekova Institute of Batteries (Kazakhstan)		TiO ₂ - Decorated AgCl Visible-Light-Responsive Photocatalyst for Microplastic Degradation		16 ⁰⁰ –16 ¹⁵		Dr. Nazerke Zhumasheva NLA, Nazarbayev University (Kazakhstan)		Composite Polymer Electrolytes Incorporating LATP Nanoparticles for Enhanced Interfacial Stability in All-Solid-State Lithium Batteries	
																		16 ¹⁵ –16 ³⁰		Ms. Farizat Aidyn SSH, Nazarbayev University (Kazakhstan)		PIM-Based Electrolytes with Intrinsic Microporosity for Next-Generation Energy Storage	
16 ³⁰ –17 ⁰⁰ COFFEE BREAK (Upper Atrium, M floor between blocks C3 and C4)																							
17 ⁰⁰ –18 ³⁰ POSTER SESSION and LAB-TOUR Location: Upper Atrium, M floor between blocks C3 and C4 Chairman: Dr. Amanzhol Turlybekuly; Co-chairman: Dr. Aizhan Rakhmanova; Dr. Sapar Tugelbay; Lab-tour: Dr. Dauren Batyrbekuly; Dr. Baglan Bakbolat; Dr. Nazerke Zhumasheva.																							

