

TENTATIVE AGENDA ICAMT 2022

Sessions	Time	(Day-1) Wednesday, December 14		Time	(Day-2) Thursday, December 15	
Morning Session (UTC+7)	08.30-08.35	Opening by Master of Ceremony		09.00-09.10	Opening by Master of Ceremony	
	08.35-08.45	Opening Remark Prof. Dr. rer. nat. Evvy Kartini <i>Founder of NBRI and President of MRS-INA</i>		09.10-09.50	Prof. Osvaldo Novais de Oliveira Junior <i>Vice President of International Union of Material Research Societies (IUMRS) and Professor of University of São Paulo, Brazil</i>	
	08.45-09.00	Opening Remark Drs. Nanan Soekarna <i>Chairman of Association of Indonesian Nickel Miners</i>		09.50-10.30	Prof. Dr. rer. nat. Evvy Kartini <i>Founder of National Battery Research Institute (NBRI) and President of Material Research Society Indonesia (MRS-INA)</i>	
	09.00-09.40	Prof. Neeraj Sharma <i>Director of Australian Battery Society (ABS) and Associate Professor of University of New South Wales, Australia</i>				
	09.40-10.20	Prof. Irwandy Arief <i>Special Staff of Ministry of Energy and Mineral Resources and Professor of Institute Technology of Bandung</i>		10.30-10.35	Room Transition	
	10.20-10.25	Room Transition		10.35-11.05	Keynote Sessions	
	10.25-10.55	Keynote Session			Prof. Stefan Adams <i>Associate Professor of Materials Science & Engineering, National University of Singapore</i>	Prof. Alexey Glushenkov <i>Associate Professor in the Research School of Chemistry, Australia National University, Australia</i>
		Dr. Jamie Schulz <i>Director of the Australian Centre for Neutron Scattering, ANSTO, Australia</i>	Prof. Arief S Budiman <i>Director of Oregon Renewable Energy Center, The United States of America</i>			
	10.55-12.30	YIC Final Presentation	Training of Trainers	11.05-12.30	Oral Session	Training of Trainers
	12.30-13.30	Break Session and Lunch				
Afternoon Session (UTC+7)	13.30-14.10	Dr. Yongkai Zhou <i>Senior Business Development Manager for Thermo Fisher Scientific in the APAC Region</i>		13.30-14.10	Prof. Tim J White <i>President of Material Research Society (MRS) Singapore and Professor of Nanyang Technological University (NTU), Singapore</i>	
	14.10-14.50	Prof. Alan J Drew <i>Co-Founder of National Battery Research Institute and Director of the Materials Research Institute, Queen Mary University of London (QMUL) United Kingdom</i>		14.10-14.50	Prof. Rodrigo Martins <i>President of International Union of Material Research Societies (IUMRS) and Professor of New University of Lisbon, Portugal</i>	
	14.50-14.55	Room Transition		14.50-14.55	Room Transition	
	14.55-15.25	Keynote Session		14.55-15.25	Keynote Session	
		Prof. Satish Patil <i>Professor of Solid State and Structural Chemistry Unit Indian Institute of Science, India</i>	Ir. Rizal Kasli, IPM, ASEAN Eng. <i>Chairman of Association of Indonesia Mining Professionals (PERHAPI)</i>		Oral Session	Adit Tri Wiguno, SE <i>Battery Consultant of National Battery Research Institute</i>
	15.25-17.00	Oral Session	Training of Trainers	15.25-16.30		Training of Trainers
			16.30-17.00	Closing Remarks & Award Ceremony		

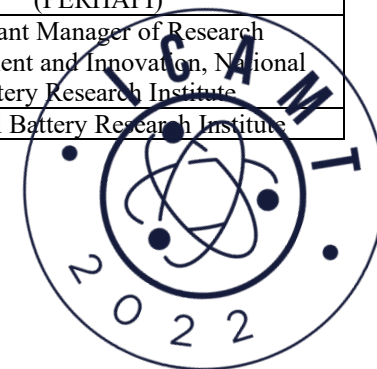
Day-1 (Wednesday, 14 December 2022)

Session	Time	Code	Estimation	Speaker	Topic	Affiliation
Morning Session (UTC+7)	08.30-08.35	Opening by Master of Ceremony				
	08.35-08.50	OP	15'	Prof. Dr. rer. nat. Evvy Kartini		Founder of NBRI, President of MRS-INA and INSS, Indonesia
	08.50-09.00	OP	10'	Drs. Nanan Soekarna		Chairman of Association of Indonesia Nickel Miners (APNI), Indonesia
	09.00-09.40	PL	40'	Prof. Neeraj Sharma	Sustainability and lithium-ion/sodium-ion batteries	Director of Australian Battery Society (ABS) and Professor of University of New South Wales (UNSW), Australia
	09.40-10.20	PL	40'	Prof. Irwandy Arief	Policy and Regulation on Nickel Mining and Processing	Special Staff of Ministry of Energy and Mineral Resources and Professor of Institute Technology of Bandung
	10.20-10.25	Room Transition				
		Keynote Session				
		Youth Ideas Competition Final Presentation				
		KN	30'	Dr. Jamie Schulz	Neutron Scattering Application and Characterization	Director of the Australian Centre for Neutron Scattering, ANSTO
		SC	10'	Azis Sulaiman, Ahmad Ade Syabihis, Rizky Nuriyansah	Biomass-derived Carbon as an Environmentally Friendly Material for Supercapacitor Electrodes	Bandung Institute of Technology, Indonesia
		SC	10'	Muhammad Maulana Zarkasyi, Yosef Christian Riki Teluma, and Taufiq Zakly	Green Synthesis of Zinc Oxide Nanomaterial using Tectona grandis Leaf Extract	Kalimantan Institute of Technology, Indonesia
		SC	10'	I Wayan Wira Yuda, Faisal Maulana Malik Ibrahim, and Vita Valiana	The Influence of Concentration and Stirring Speed of Electrodeposition Method for Synthesis MnO ₂ /C Composite Supercapacitor From Polyethylene Plastic Waste	Brawijaya University, Indonesia
	10.25-12.30	SC	10'	Fathur Rahman Alhadi and Adinandra Caesar Fachrudin	Utilization of Rotten Carrot as a Source of Activated Carbon Prepared by Zinc Chloride-Chemical Activation for Supercapacitor Electrode Applications	Gadjah Mada University, Indonesia
		SC	10'	Andhirta Rukmarata Chaniago, Ali Sulton, and Dania Husna Huwaida	Determination of Design Parameters and Optimization of Operating Leaching Process (Lithium, Nickel, Manganese, Cobalt) from Crushing NMC Type Li-Ion Batteries Using Sulfuric Acid	Gadjah Mada University, Indonesia
	SC	10'	Adila Syifa Prayogi, In In Mustopa, and Tania Sonya Sihombing	The Effect of Differences in Electrolyte Concentration and Electric Current on Electrochemical Synthesis of Graphene Using a Solenoid Modified Reactor	Polytechnic State of Jakarta, Indonesia	
	SC	10'	Adnan Hasyim Wibowo, Stella Eulia Andoko, and Ilham Arya Satya	Potential Application of Carbon Quantum Dots (CQD) Synthesis from Rice Husk Waste Composite as Advanced Solar Cells to Increase	University of Indonesia, Indonesia	

					Photon Energy Absorption in Maximizing Solar Panels Power Output Production		
		Training of Trainers on Battery Technology					
		TOT	40'	Prof. Arief S Budiman	Innovative Photovoltaics Configuration Arrays on Farm Land to Enhance Both Agricultural and Solar Energy Production on the Same Soil	Director of Oregon Renewable Energy Center, the United States of America	
		TOT	40'	Rulan Dinary	Nickel Processing on Pyrometallurgy and Hydrometallurgy route (from ore to sulphate)	Vice President of Technology, PT. Hydrotech Metal Indonesia	
Afternoon Session (UTC +7)	12.30-13.30	Break Session					
	13.30-14.10	PL	40'	Dr. Yongkai Zhou	Laboratory Analysis and Characterization Solutions from Thermo Fisher Scientific for Battery Research	Senior Business Development Manager for Thermo Fisher Scientific in the APAC Region, Singapore	
	14.10-14.50	PL	40'	Prof. Alan J Drew	Electrification and Energy Storage System	Co-founder of NBRI and Director of the Materials Research Institute, Queen Mary University of London (QMUL), United Kingdom	
	14.50-14.55	Room Transition					
	14.55-17.30	Keynote Session					
		Minerals & Mining, Battery, Hydrogen, Magnetic, Superconductor, & Structural Materials, and Polymer, Bio, Soft, and Carbon Materials					
		KN	30'	Prof. Satish Patil	Redox flow batteries: a new frontier on energy storage	Professor of Solid State and Structural Chemistry Unit, Indian Institute of Science, India	
		INV	25'	Christin Rina Ratri, Tamara Tri Utami, Sotya Astutiningsih, Mochamad Chalid and Adam Febriyanto Nugraha	Electrochemical Characterizations of Green Solid Polymer Electrolyte Based on PVA-Chitosan Blend	National Research and Innovation Agency (BRIN), Indonesia	
		OR	15'	Sutinah Sutinah, Himawan Tri Bayu Murti Petrus and Moh Fahrurrozi	Effect of Ph on Lithium Extraction from Geothermal Brine using Nanofiltration Membrane	University of Gadjah Mada, Indonesia	
		OR	15'	Fiona Angellinnov, Achmad Subhan, Anne Zulfia and Alan Drew	Characteristics of Sn-doped and Rice Husk Activated Carbon-coated NMC 811 as Lithium-ion Battery Cathode	University of Indonesia, Indonesia	
		OR	15'	Wafin Heriyanto, Abrar Ridhollah and Cynthia Wardhana	Energy Storage Embedded Solar Panel as Second Life Repurposing Alternative for VRLA Battery Waste	PT Chakra Giri Energi Indonesia	
OR		15'	Annisaa Hayya Arundati, Christin Rina Ratri, Mochamad Chalid, Havid Aqoma and Adam F. Nugraha	A Combined Nonsolvent and Thermally Induced Phase Separation (N-TIPS) Method for Preparation of Highly Porous Cellulose Acetate Membrane as Lithium-Ion Battery Separator	University of Indonesia, Indonesia		
OR		15'	Diva Almira, Syahrul Humaidi, Nurdin Siregar and Doli Bonardo	Effect of Dopant Magnesium Dioxide on Physical and Tribological Behavior of Polyester-Based Composite	University of Sumatera Utara, Indonesia		
OR	15'	Fadel Muhammad, Abrar Ridhollah and Cynthia Wardhana	Utilisation of Waste Heat from Metallurgical Furnaces as Charging Mechanism for Gravity	PT Chakra Giri Energi Indonesia			

					Battery in Smelting Industry	
	OR	15'	Pascal Muam Mah		Integration of Sensors and predictive analysis with machine learning as a modern tool for Economic activities and a major step to fight against climate change	AGH University of Science and Technology Krakow, Poland
	OR	15'	Vineet Bhatia, Sumati Sidharth and Kavi Kousy		Patent Landscaping of Additive Manufacturing for Aerospace Domain	Defence Institute of Advance Technology, Pune, India
	OR	15'	Nano Sujani and Ade Utami Hapsarihapsari		Analysis of Black Powder Material Structure as Intermediate Product of Nickel Metal Hydride (NiMH) Batteries	Defense University, Indonesia
	OR	15'	Cynthia Wardhana, Bima Faqih Ramadhan and Abrar Ridhollah		Wollastonite from Tin Slag for Coral Reef Planting Media as Novel Carbon Capture Technology	PT Chakra Giri Energi Indonesia
	Training of Trainers on Battery Technology					
14.55-15.40	TOT	40'	Ir. Rizal Kasli, IPM, ASEAN Eng.		Critical Mineral for Battery	Chairman of The Association of Indonesian Mining Professional (PERHAPI)
15.40-16.00	TOT	20'	Muhammad Fakhruddin, ST.		Nickel Based Precursor & Cathode Production for Battery	Assistant Manager of Research Development and Innovation, National Battery Research Institute
16.00-16.20	TOT	20'	NBRI Team		Demo	National Battery Research Institute

OP= Opening Remarks, PL= Plenary Session, KN= Keynote Session, INV= Invited Speaker,
OR= Oral Contributor, SC= Student Competition, TOT=Training of Trainers



Day-2 (Thursday, 15 December 2022)

Session	Time	Code	Estimation	Speaker	Topic	Affiliation	
Morning Session (UTC+7)	09.00-09.10	Opening by Master of Ceremony					
	09.10-09.50	PL	40'	Prof. Osvaldo Novais de Oliveira Junior	Materials Sciences in the Era of Artificial Intelligence	Vice President of International Union of Material Research Societies (IUMRS) and Professor of University of São Paulo, Brazil	
	09.50-10.20	PL	40'	Prof. Dr. rer. nat. Evvy Kartini	The Development of Battery Technology from Local Mineral Resources: An Introduction	Founder of NBRI, President of MRS-INA and INSS, Indonesia	
	10.30-10.35	Room Transition					
	10.35-12.30	Materials Application for Energy, Defense, Medical, Electronics, etc.					
		KN	30'	Prof. Stefan Adams	Rapid screening of high-rate capability battery materials and interfaces	Associate Professor of Materials Science & Engineering, National University of Singapore	
		INV	25'	Muhammad Alfin Imanputera and Eko Adhi Setiawan	Control System Design of Virtual Power Plant	University of Indonesia	
		OR	15'	Mariya Al Qibtiya, Budi Mulyanti, Fadjar Fathurrahman, Chandra Wulandari, Roer Eka Pawinanto, Nurhidayatulloh Nurhidayatulloh, Lilik Hasanah, Ida Hamidah and Burhanuddin Yeop Majlis	Optical properties of Ta-doped TiO ₂ as a solar cell active layer using first-principles calculation	Universitas Pendidikan Indonesia	
		OR	15'	Abrar Ridhollah and Cynthia Wardhana	Utilising an Electric Arc Furnace with a Solid Carbon Reductor from CCUS as a Decarbonisation Solution for the Copper Smelting Industry	PT Chakra Giri Energi Indonesia	
		OR	15'	Yohanes Galih Adhiyoga, Margono Sugeng and Eko Tjipto Rahardjo	Computational Analysis for Electric and Magnetic Properties Characterization on Magneto-dielectric Materials	Universitas Dian Nusantara, Indonesia	
		OR	15'	Cynthia Wardhana and Abrar Ridhollah	Application of Olivine as Fertiliser to Increase Crop Yield and Reduce Agricultural Carbon Footprint	PT Chakra Giri Energi Indonesia	
		OR	15'	Boy Attaurraq, Sri Harjanto, Agung Setiawan and Nur Ikhvani	Simultaneous Carbothermic Reduction Using Uncarbonized Palm Kernel Shells (PKS) as the Reductant to Recover Iron (Fe) and Rutile (TiO ₂) from Ilmenite (FeTiO ₃)	University of Indonesia	
OR		15'	Aulia Achmad, Abrar Ridhollah and Cynthia Wardhana	Alternative Utilization of Tesla Turbine as Flywheel Energy Storage System	PT Chakra Giri Energi Indonesia		
OR	15'	Raden Dadan Ramdan, Hendry Roesma Wardhana, Budi Prawara, Erie Martides, Irma Pratiwi and Andi Isra Mahyudin	High Temperature Oxidation Behavior of NiCrAlY Coating by HVOF Thermal Spray Method: Powder Size and Composition Variation	Institute Technology of Bandung			

Training of Trainers on Battery Technology							
		TOT	40'	Prof. Alexey Glushenkov	Power Characteristic of Lithium-ion Capacitors	Professor of Australian National University	
		TOT	40'	Hermawan Wijaya	Battery Manufacture in Indonesia and its current state	Lithium Marketing Director of PT. International Chemical Industry (INTERCALLIN - ABC Battery)	
	12.30-13.30	Break Session					
Afternoon Session (UTC+7)	13.30-14.10	PL	40'	Prof. Tim J White	EdTech for Accelerated Training in Crystal Chemistry for Materials Scientists & Engineers	President of Material Research Society (MRS) Singapore and Professor of Nanyang Technological University (NTU), Singapore	
	14.10-14.50	PL	40'	Prof. Rodrigo Martins	Sustainable Digitalization with Endless Power	President of International Union of Material Research Societies (IUMRS) and Professor of New University of Lisbon, Portugal	
	14.55-16.30	Keynote Session					
		Nuclear Material, Nano Material & Technology, Computational Materials, Modelling, & Simulation, and Material Processing & Characterization					
		INV	25'	Fatima Zohra Zeggai, Fouzia Touahra, Zakaria Cherifi, Redouane Chebout, Samia Mahouche-Chergui, Benjamin Carbonnier and Khaldoun Bachari	Diazonium Cation-Exchanged Clay: Synthesis, Characterization, and Reinforcing Properties of Clay/Polymer Nanocomposites	Centre de Recherche Scientifique et Technique en Analyses Physico-chimiques (CRAPC), BP 384-Bou-Ismaïl-RP 42004, Tipaza, Algeria	
		OR	15'	William Harrison Winnetouw, Akhmad Herman Yuwono, Nofrijon Sofyan and Donanta Dhaneswara	Recent Development of Cesium Doping in Perovskite Active Layer and Transport Layer Towards High-Efficiency and Stability	University of Indonesia	
		OR	15'	Dhita Ariyanti, Sidik Permana and Deni Swantomo	Effect of Cobalt Gamma Irradiation Exposure on Carbon Material's Characteristics	Institut Teknologi Bandung and National Research and Innovation Agency	
		OR	15'	Iwan Purwanto, Aris Puji Widodo and Rizal Isnanto	Identification of Financial Technology Issues with Lending Platforms in Indonesia	Doctoral Program of Information Systems, Diponegoro University, Semarang, Indonesia	
		OR	15'	Muhammad Fakhruddin and Evvy Kartini	Ambient temperature and atmosphere co-precipitation of Ni _{0.9} Co _{0.1} (OH) ₂ as precursor of Cathode active material in Lithium-ion Battery	National Battery Research Institute	
		OR	15'	Gessica Aurel Khoman, Muhammad Harza Arbaha Kalijaga, Nuning Aisah, Riastuti Fidyarningsih, Jarot Raharjo, Oka P. Arjasa and Ekavianty Prajateljista	PMMA Bone Cement with L-Arginine/Nano Fish Bone Nanocomplex to Generate Apatite Formation	Institute Technology of Bandung	
OR	15'	Revina Dea Nanda, Muhammad Fakhruddin, and Evvy Kartini	The Effect of Stirring Time in the Synthesis of NMC-721 using Oxalate Co-precipitation	National Battery Research Institute			

		OR	15'	Moh. Wahyu Syafi'ul Mubarak and Evvy Kartini	Understanding lay-public perceptions of battery technology in Indonesia	National Battery Research Institute
		Training of Trainers on Battery Technology				
		TOT	40'	Adit Tri Wiguno, SE.	Market Prospect on Nickel to Battery	Battery Consultant of National Battery Research Institute
		TOT	40'	NBRI Team	Demo on Battery Application	National Battery Research Institute
	16.30-17.00	Closing Remarks and Award Ceremony				

PL= Plenary Session, KN= Keynote Session, INV= Invited Speaker, OR= Oral Contributor, TOT= Training of Trainers

