

TENTATIVE AGENDA OF ICB-REV 2022

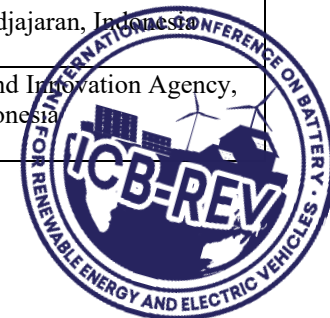
Sessions	Time	(Day-1) Tuesday, June 21	Time	(Day-2) Wednesday, June 22	Time	(Day-3) Thursday, June 23			
Morning Session (UTC+7)	08.00-08.10	Opening by Master of Ceremony	08.20-08.30	Opening by Master of Ceremony	08.20-08.30	Opening by Master of Ceremony			
	08.10-08.20	Prof. Dr. rer. nat. Evvy Kartini <i>(Founder of NBRI and President of MRS-INA)</i>	08.30-09.10	Toto Nugroho Pranatyasto <i>(President Director of Indonesia Battery Corporation, Indonesia)</i>	08.30-09.10	Prof. Roberto M. Torresi <i>(Professor of University of São Paulo)</i>			
	08.20-08.30	Dr. Laksana Tri Handoko <i>(Chairman of National Research and Innovation Agency (BRIN), Indonesia)</i>	09.10-09.50	Dr. Agus Gumiwang Kartasasmita* <i>(Minister of Industry Republic of Indonesia, Indonesia)</i>	09.10-09.50	Danny Kennedy <i>(Chief Energy Officer at New Energy Nexus, USA)</i>			
	08.30-09.10	Dr. M. V. Reddy <i>(Senior Researcher of Institute of Research Hydro-Québec, Canada)</i>	09.50-10.30	Prof. Satish Patil <i>(Professor of Solid State and Structural Chemistry, Indian Institute of Science, India)</i>	09.50-10.30	Prof. Dr. rer. nat. Evvy Kartini <i>(Founder of National Battery Research Institute and President of MRS-INA)</i>			
	09.10-10.00	Prof. Neeraj Sharma <i>(Director of Australian Battery Society, Australia)</i>	10.30-10.35	Room Transition		10.30-10.35	Room Transition		
	10.00-10.30	Keynote Session		10.35-11.05	Parallel Session		Parallel Sessions		
		Prof. Arief Budiman <i>(Director of Oregon Renewable Energy Center), United States of America</i>			Muhammad Fakhrudin, ST <i>(Assistant Manager of RDI, NBRI)</i>	Drs. Nanan Soekarna <i>(Chairman of Indonesian Nickel Miners Association (APNI), Indonesia)</i>	10.35-11.05	Prof. Giichiro Uchida <i>(Professor at Faculty of Science and Technology, Meijo University, Japan)</i>	M. Firmansyah, S.E. <i>(CEO of PT Infiniti Energi Indonesia)</i>
	10.30-12.00	YIC Final Presentation		11.05-12.00	Oral Session			11.05-12.00	Oral Session
	12.00-13.00	Break Session							
Afternoon Session (UTC+7)	13.00-13.15	Opening Remark Prof. Colin Grant <i>(Vice Principal of Queen Mary University of London (QMUL), United Kingdom)</i>	13.00-13.45	Prof. Rodrigo Martins <i>(President of International Union of Material Research Societies (IUMRS) and European Academy of Science (EurASc), Portugal)</i>	13.00-13.45	Prof. Jacqui Murray <i>(Deputy Director of Faraday Battery Challenge Innovate UK, United Kingdom)</i>			
	13.15-14.00	Rene Schroeder <i>(Executive Director of European Automotive and Industrial Battery Manufacturers (EUROBAT), Belgium)</i>							
	14.00-14.45	Prof. Alan J. Drew <i>(Professor & Director of the Materials Research Institute, QMUL United Kingdom)</i>	13.45-14.30	Prof. Ayi Bahtiar <i>(Head of Advanced Materials Laboratory at University of Padjadjaran, Indonesia)</i>	13.45-14.30	Dr. Kim Jong Yeon <i>(CEO of TAOS Company, South Korea)</i>			
	14.45-15.20	Keynote Session		14.30-15.00	Keynote Session		Keynote Session		
		Prof. Worawat Meevasana <i>(Assistant Professor of Suranaree Institute of Technology, Thailand)</i>			Dr. Haznan Abimanyu <i>(Chairman of Research Organization for Energy and Manufacture, BRIN)</i>	14.30-15.00	Dr. Eng. Budi Prawara <i>(Chairman of Research Organization for Electronics and Informatics, BRIN)</i>		
15.20-17.15	Oral Session		15.00-16.30	Oral Session		15.00-16.00	Oral Session		
					16.00-17.00	Closing Remarks & Announcement			

Day-1 (Tuesday, 21 June 2022)

Session	Time	Code	Estimation	Speaker	Topic	Affiliation	
Morning Session (UTC+7)	08.00-08.10	Opening by Master of Ceremony					
	08.10-08.20	OP	10'	Prof. Dr. rer. nat. Evvy Kartini		Founder of NBRI, President of MRS-INA and INSS, Indonesia	
	08.20-08.30	OP	10'	Dr. Laksana Tri Handoko		Chairman of National Research and Innovation Agency (BRIN), Indonesia	
	08.30-09.10	PL	40'	Dr. M.V. Reddy	Recent Advances in Materials for Energy Storage and Sustainability	Senior Researcher of Institute of Research Hydro-Québec, Canada	
	09.10-10.00	PL	50'	Prof. Neeraj Sharma	A brief snapshot of Australia's battery-based research and industry	Director of Australian Battery Society, Australia	
	10.00-12.15	Keynote Session					
		Youth Ideas Competition Final Presentation					
		KN	30'	Prof. Arief S Budiman	Renewable Energy Prospect for Accelerating Energy Transition	Director of Oregon Renewable Energy Center), United States of America	
		SC	10'	Fadhillah Raka Pratama, Alfi Gymnastiar Pratama, and Beta Maisaroh	Self-Sufficiency Of Seawater Battery Electricity Empowerment Using NiHCF + C Cathode with Wind Turbine As A Power Plant That Is Free Of Air Exposure In The 3T Area for Residential Scale	Diponegoro University, Indonesia	
		SC	10'	Anggi Supriyono, Evira Bella Yustiani, Nurfauziah Sucipto	Green-charge Station : Electric Vehicle Charging Station using TiO2 for Perovskite Solar Cell and Al-ion Batteries from Bioleaching Red Mud	Bandung Institute of Technology, Indonesia	
		SC	10'	Jofrian Adriel, M. Fahrizal Himawan, M. Syaifuddin Imansyah	Potential Optimization of Nickel Based Components For EV Batteries With Nanotechnology in Indonesia	University of Airlangga, Indonesia	
		SC	10'	Muhammad Nuril Islam, Izzuddin Ar Rofi	Application of LiFePO4 Battery Using Cell to Pack Method on DSSC Made from Lichenes Extract in Accelerating Energy Transformation	Sepuluh Nopember Institute of Technology, Indonesia	
		SC	10'	Atanasius Tora Rangga K., Muhammad Arifin Ilham	Utilization of Renewable Energy Environment with Smart Grids, Smart Meters and Wireless Power Transmission Based on Artificial Intelligence to Solve the Problem of Poverty in Remote Coastal Areas	Gadjah Mada University, Indonesia	
		SC	10'	Rahmad Hendrawan	The Impact of Digitalization on ASEAN's Renewable Energy Transition: A Taxonomy of Innovative Business Models	Gadjah Mada University, Indonesia	
		SC	10'	Baihaqi Muhammad, Nur Annisa Kusumawardani	Synthesis Polymer Blend PEO/PVA/NaClO4 with Nano-SiO2 from Sugarcane Bagasse Burning Ash PT. PG Candi Baru Sidoarjo as Battery Filler	Sepuluh Nopember Institute of Technology, Indonesia	
SC	10'	Salma Aridha Muflihah, Albani Zhillan Abdullah, Siti Zahrotul Jannah	Analysis of Potential and Capacity of Lithium-ion Batteries Using Density-Functional Theory for Electric Vehicle Applications	Bandung Institute of Technology, Indonesia			
SC	10'	Felix Cahyadi, Leonardo Valentino Kosasih	Optimization of EV Battery Switching Stations with Inventory System Using Agent-Based	Bandung Institute of Technology, Indonesia			

					Simulation	
12.15-13.00	Break Session					
13.00-13.15	OP	15'	Prof. Colin Grant			Vice Principal of Queen Mary University of London (QMUL), United Kingdom
13.15-14.00	PL	45'	Rene Schroeder	Battery policy framework in Europe and the latest developments		Executive Director of European Automotive and Industrial Battery Manufacturers (EUROBAT), Belgium
14.00-14.45	PL	45'	Prof. Alan J Drew	Dual ion battery for Accelerating Energy Transition		Co-founder of NBRI and Director of the Materials Research Institute, Queen Mary University of London (QMUL), United Kingdom
14.45-17.15	Keynote Session					
	Battery					
	KN	35'	Prof. Worawat Meevasana	A journey to decentralize renewable energy in Thailand		Assistant Professor of Suranaree Institute of Technology, Thailand
	INV	25'	Putu Suwarta, Bagus Alifah Hasyim, Daffa Satriyo, Habib Saifuddin Fathoni, Achmad Subhan, Ika Dewi Wijayanti, Suwarno, Sutikno, Fahmi Mubarak and Yatim Lailun Nimah	Understanding The Role of Glass Fabric Separators on the Performance of Structural Composite Battery		Institute Technology of Sepuluh Nopember, Indonesia
	INV	25'	Abyan Panjaitan, Ramses Siregar, Bambang Priyono and Achmad Subhan	Effect of Addition Level of Activated Carbon from Plastic Waste Recycling on LTO/Carbon Anode Composites for Lithium-Ion Batteries		University of Indonesia, Indonesia
	OR	15'	Moh. Wahyu Syafi'ul Mubarak, Muhammad Fakhruddin, and Evvy Kartini	The Effect of Lithium Excess on NMC 811 Synthesis for Cathode Material		National Battery Research Institute, Indonesia
	OR	15'	Muhammad Dzulqornain, Bambang Priyono, Muhammad Rauf, Anne Zulfia Syahrial, Achmad Subhan and Alfian Noviyanto	The Effect Of Percentage Variations Of Ammonium Polycarbonate In The Synthesis Of Sodium Lithium Titanate Oxide (Na ₂ Li ₂ Ti ₅ ,9Zr ₀ ,1O ₁₄) On Its Performance Test Results As An Active Anode In Lithium-Ion Batteries		University of Indonesia, Indonesia
	OR	15'	Sahrul Hidayat, Sarifah Mudaim and Risdi Risdiana	Study of Chemical Structure and Electrical Properties of Nitrogen-Doped Activated Carbon from Candlenut Shell (Aleurites moluccana)		University of Padjajaran, Indonesia
OR	15'	Indra Gunawan, Deswita and Bambang Sugeng	The Influence of Polylactide Addition to the Performance of LiFePO ₄ /C Composite as Cathode Materials		National Research and Innovation Agency, Indonesia	

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



Day-2 (Wednesday, 22 June 2022)

Session	Time	Code	Estimation	Speaker	Topic	Affiliation
	08.20-08.30	Opening by Master of Ceremony				
	08.30-09.10	PL	40'	Toto Nugroho Pranatyasto	Indonesia as global player for battery technology	President Director of Indonesia Battery Corporation, Indonesia
	09.10-09.50	PL	40'	Dr. Agus Gumiwang Kartasasmita	The value chain of Indonesia electric vehicles ecosystem	Minister of Industry Republic of Indonesia, Indonesia
	09.50-10.30	PL	40'	Prof. Satish Patil	Chemistry for Redox Flow Battery	Indian Institute of Science, India
	10.30-10.35	Room Transition				
Morning Session (UTC+7)	10.35-12.00	Battery				
		KN	30'	Muhammad Fakhruddin, ST	Hydroxide co-precipitation of layered oxide cathode: A mini review	Assistant Manager of RDI, National Battery Research Institute
		INV	20'	A.A.N. Perwira Redi, Muhammad Asrol, Ryo Geoffrey Widjaja and Iwan Agustono	A Review On The Application Of Machine Learning To Predict The Battery State That Enables A Smart, Low-Cost, Self-Sufficient Drying And Storage System For Agricultural Purposes	BINUS University
		OR	15'	Adinandra Caesar Fachrudin, Baihaqi Muhammad, Evvy Kartini and Muhammad Fakhruddin	Rice Husk-Derived Graphene as a Conductive Additive for LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathodes in Lithium-Ion Batteries	National Battery Research Institute
		OR	15'	Muhammad Abdul Razak, Anne Zulfia and Yustinus Purwamargapratala	Synthesis Optimization of Cathode Precursor Ni _{0.5} Mn _{0.4} Co _{0.1} (OH) with Coprecipitation Method	University of Indonesia, Indonesia
		OR	15'	Revina Dea Nanda, Sigit Aryo Kristianto, Evvy Kartini, Muhammad Fakhruddin	Study of Synthesis NMC 721 using Oxalate Co-Precipitation	National Battery Research Institute, Indonesia
		OR	15'	Markus Diantoro, Nasikhuddin, Ishmah Luthfiyah, Santi Maensiri, Worawat Meevesana, Agus Purwantu, and Agus Subagyo	Optimizing Performance of Supercapbatteries Modification Cathode Based AC Mesoporous and Anode MXene Ti ₃ C ₂ T _x with High Energy-and Rate Capability	State University of Malang, Indonesia
		Electric Vehicles				
		KN	30'	Commissioner General of Police (Ret) Nanan Soekarna	Nickel Indonesia for global battery manufactures	Chairman of Indonesian Nickel Miners Association (APNI), Indonesia
		INV	20'	Ganesha Tri Chandrasa, Barman Tambunan and Soedibyo	Design And Testing Lightweight Electric Trike Vehicle Hybrid With Lithium Battery, Flywheel, and PEM Fuel cell	Institute Technology of Sepuluh Nopember, Indonesia
		OR	15'	Ardhy Yuliawan Norma Sakti, Djarwadi Djarwadi, Miranti Budi Kusumawati, Ira Nurhayati Djarot and Pradipta Sangga Wiyasa	Upstream Bottleneck Detection on Electric Vehicle Industry: A Case Study of Indonesian Electric Scooter	Sustainable Energy and Resources Engineering, Thammasat University, Thailand
		OR	15'	Henri Firdaus, Bravel Sigalingging and Wahyu Ahadi Rouzi	Mobile Electric Rice Huller (MERU) for Electrifying Agriculture in Indonesia	PT. PLN, Indonesia
		OR	15'	Dewi Rianti Mandasari, Lia	Reducing of Cogging Torque in Segmented	National Research and Innovation Agency,

				Amelia, Arga Iman Malakani, Agus Krisnowo and Cuk Supriyadi Ali Nandar	Permanent Magnet BLDC Motor IPM V-Shape by Skewing Stator	Indonesia	
		OR	15'	Moh. Wahyu Syafi'ul Mubarak and Evvy Kartini	Bolstering Domestic Electric Vehicles Ecosystem through Human Resources Development	National Battery Research Institute, Indonesia	
	12.00-13.00	Break Session					
Afternoon Session (UTC+7)	13.00-13.45	PL	45'	Prof. Rodrigo Martins	Green Energy: A Future Global Challenge	President of International Union of Material Research Societies (IUMRS) and Director of European Academy of Science (EurASc), Portugal	
	13.45-14.30	PL	45'	Prof. Ayi Bahtiar	Research and Developments of Solar Cells in Indonesia: Problems and Challenges as a Source of Charging Batteries for Electric Vehicles	Head of Advanced Materials Laboratory at University of Padjadjaran, Indonesia	
	14.30-16.30	Keynote Session					
		Renewable Energy					
		KN	35'	Dr. Haznan Abimanyu	Renewable Energy & Electric Vehicle Research Ecosystem in Complying Net-Zero Carbon Emission 2050	Chairman of Research Organization for Energy and Manufacture, BRIN	
		INV	25'	Wilman Septina and Nicolas Gaillard	Solar Hydrogen Production from Low Temperature Ink-Based CuInS ₂ /In ₂ S ₃ Heterojunction Photoelectrochemical Cell	National Research and Innovation Agency, Indonesia	
		OR	15'	Mellin Hasna Nurfadhila	Green bonds of Supranational Financial Institutions as Potential Ophelimity Funding for Hydrogen Energy Development in Indonesia	University of Indonesia, Indonesia	
		OR	15'	Satria Anugerah Suhendra, Dwi Resa Lamandau, Siti Fatimah, Aulia Rahma and Muthia Elma	Reverse Electrodialysis (RED) Membrane for Harvesting Salinity Gradient Energy with and without Spacer under Natural Wetland Saline Water	Lambung Mangkurat University, Indonesia	
OR	15'	Jelita Permatasari and Feri Yusivar	Modelling and Simulation of Hybrid Light Railway Vehicle Drive System	University of Indonesia, Indonesia			

PL= Plenary Session
KN= Keynote Session
INV= Invited Speaker
OR= Oral Contributor



Day-3 (Thursday, 23 June 2022)

Session	Time	Code	Estimation	Speaker	Topic	Affiliation	
Morning Session (UTC+7)	08.20-08.30	Opening by Master of Ceremony					
	08.30-09.10	PL	40'	Prof. Roberto M. Torresi	Ionic liquid as electrolytes for high-performance positive and negative electrode materials for LIBs	Professor of University of São Paulo, Brazil	
	09.10-09.50	PL	40'	Danny Kennedy	Innovating the battery supply chain and the future demand for advanced batteries	Chief Energy Officer at New Energy Nexus, USA	
	09.50-10.30	PL	40'	Prof. Dr. rer. nat. Evvy Kartini	Development of battery technology from upstream to downstream based on local mineral resources	Founder of National Battery Research Institute, President of MRS-INA and INSS	
	10.30-10.35	Room Transition					
	10.35-12.00	Battery					
		KN	30'	Prof. Giichiro Uchida	High-capacity Li ion battery with nanostructured Ge and GeSn anode fabricated in the low temperature plasma process	Professor at Faculty of Science and Technology, Meijo University, Japan)	
		INV	20'	Adinandra Caesar Fachrudin, Evvy Kartini, Muhammad Fakhrudin and Alan J. Drew	Effect of NaOH Treatment on Rice Husk-Derived Graphene on the Presence of Crystalline Silica	National Battery Research Institute, Indonesia	
		OR	15'	Ida Hamidah, Andriwo Rusydi, Brian Yulianto, Markus Diantoro, Ishmah Luthfiyah, and Nuviya Illa Muthi Aturroifah	Effect of Chemical Activator Concentration on Microstructure and Electrochemical Performance of Cassava Tubers Activated Carbon-Based Supercapacitor Electrodes	State University of Malang, Indonesia	
		OR	15'	Muhammad Ridho Nugraha and Evvy Kartini	Understanding the commercial lithium ion battery 18650: Analysis of each component inside	National Battery Research Institute	
		Renewable Energy					
		KN	30'	Muhammad Firmansyah, SE.	Optimizing Solar Rooftop and Residential for Accelerating Energy Transition	PT. Infiniti Energi Indonesia	
		INV	20'	Hartono, Lantip Pramono, Niko Arfana Usti and Yusraini Muharni	Coreless Generator Permanent Magnet Axial Flux 500 Watt for Wind Turbine	Sultan Ageng Tirtayasa University, Indonesia	
		OR	15'	Dafit Bagus Maha Bekti and A.A.N. Perwira Redi	Factor Analysis on Customer Intention to Use Rooftop Solar Panel in Indonesia	BINUS University, Indonesia	
	OR	15'	Moh. Wahyu Syafi'ul Mubarak and Evvy Kartini	Analysis of Renewable Energy as Export Commodity (Study Case: Indonesia-Singapore)	National Battery Research Institute, Indonesia		
12.00-13.00	Break Session						
Afternoon Session (GMT+7)	13.00-13.45	PL	45'	Prof. Jacqui Murray	Engineering Change – the Faraday Battery Challenge and the UK journey towards net zero	Deputy Director of Faraday Battery Challenge Innovate UK, United Kingdom	
	13.45-14.30	PL	45'	Dr. Kim Jong Yeon	Electric Vehicle Policy Trends by Country and How to use the Battery after Use	CEO of TAOS Company, South Korea	
	14.30-16.00	Keynote Session					
Electric Vehicles							
	KN	35'	Dr. Eng. Budi Prawara	Autonomous System of Electric Vehicle	Chairman of Research Organization for		

						Electronics and Informatics, BRIN
	INV	25'	Marsalya, Fandy Septian Nugroho, Achmad Ridho Mubarak, Cuk Supriyadi Ali Nandar, Katri Yulianto, Lambert Hotma and Nur Cholis Majid	Design and Analysis of 2 kW Induction Motor for Electric Motorcycle Application		National Research and Innovation Agency (BRIN)
	OR	15'	Zulfia Hanum Alfi Syahr and Sri Gilang Muhammad Sultan Rahma Putra	Zulfia Hanum Alfi Syahr and Sri Gilang Muhammad Sultan Rahma Putra		National Research and Innovation Agency (BRIN)
	OR	15'	Indra Gunawan, Ahmad Arif Santosa and A.A.N. Perwira Redi	Factor Analysis on Customer Intention to Use Electric Vehicle in Indonesia		BINUS University, Indonesia
	OR	15'	Naufal Fachruly Winanta and Evyv Kartini	Design and Construction of Protection and Monitoring Battery Management System (BMS) on Electric Motorcycle Based on ESP32		STTN BATAN, Indonesia
16.00-16.30	Youth Ideas Competition Announcement					
16.30-17.00	Closing Remarks					

PL= Plenary Session
KN= Keynote Session
INV= Invited Speaker
OR= Oral Contributor

