

RUNDOWN

Time (GMT+7)	Duration	Agenda	PIC	
07.00 – 08.00	60'	Online Registration of Participants	Committee	
08.00 – 08.35	35'	Opening Ceremony	IT and Web Team	
08.00 – 08.05	5'	1. Opening		Muhammad Hafizh Athari and Alifiah Qodartin
08.05 – 08.07	2'	2. National Anthem		Nisa Budiharjo
08.07 – 08.10	3'	of Indonesia Raya		
08.10 – 08.20	10'	3. Hymn of		
08.20 – 08.30	10'	Airlangga		
		4. Committee	Dr. Khusnul Ain, S.T., M.Si	
		Chairman report		
08.30 – 08.35	5'	5. Welcome Speech	Prof. Dr. Miratul Khasanah, M.Si (Dean of Science and Technology Faculty, Universitas Airlangga)	
		6. Do'a	Fawwaz	
08.35 – 09.35	60'	Plenary Session I	Moderator: Prof. Dr. Retna Apsari, M.Si	Committee
08.35 – 08.20	45'	Keynote speaker I	Prof. Sulaiman W. Harun	
08.20 – 08.35	15'	QnA Keynote Speaker I	(Head of Department of Electrical Engineering, Faculty of Engineering, Faculty of Engineering)	
09.35 – 10.35	60'	Plenary Session II	Moderator: Andi Hamim Zaidan, M.Si, Ph.D	Committee
09.35 – 10.20	45'	Keynote speaker II	Dr. Suvitha A.	
10.20 – 10.35	15'	QnA Keynote Speaker II	(Associate Professor in Department of Physics, CMR Institute of Technology, Bangalore)	
10.35 – 10.45	10'	Break (Traditional Dance)		
10.45 – 11.40	55'	Plenary Session III	Moderator: Herri Trilaksana, S.Si., M.Si., Ph.D.	Committee
10.40 – 11.25	40'	Keynote speaker III	Dr. Paula Blanco Sanchez	
11.25 – 11.40	15'		(Senior lecturer in Chemical Engineering at Aston University)	

Time (GMT+7)	Duration	Agenda		PIC
		QnA Keynote Speaker III		
11.40 – 12.40 11.40 – 12.25 12.25 – 12.40	60' 45' 15'	Plenary Session IV Keynote speaker IV QnA Keynote Speaker IV	Moderator: Akif Rahmatillah, S.T., M.T. Dr. Rifai Chai (Senior Lecturer and Academic Director (Partnerships) in the School of Science, Computing and Engineering Technologies, Swinburne University of Technology)	Committee
12.40 – 13.00	20'	Break		Committee
13.00 – 17.00 15.30 – 16.45 (Break)	240'	Parallel Session @ 15 minutes (10 minutes presentation+ 5 minutes QnA)	Room 1: Dr. drg. Prihartini Widiyanti, M.Kes., Room 2: Inten Firdhausi Wardhani, S.T., M.Sc. Room 3: E. Edo Yunata, S.Si., M.Si., Ph.D. Room 4: Erwin Sutanto, S.T., M.Sc. Room 5: Endah Purwanti, S.Si., M.T.	Moderator Operator Timekeeper
17.00 – 17.05	5'	Announcement	MC: Muhammad Hafizh Athari and Alifiah Qodartin Nisa Budiharjo	Committee

PARALLEL SESSION ICPIAM

Room 1 (ICPIAM 1)	
Date and Time	24 October 2023 at 13.00 WIB (Western Indonesia Time)
Link	https://zoom.us/j/97030519236?pwd=U3BDTkNDZmgzMTBrMFo5MCswWkxWUT09
Category	Biomaterials 1
Moderator	Dr. drg. Prihartini Widiyanti, S.Bio., M.Kes., CCD.
Invited Speaker	Dra. Arry Yuariatun Nurhayati, M.Si.

No	Time (GMT+7)	ID	Title	Authors
1	13.00 – 13.15	35	The analysis of Semeru Volcanic Ash Erupted in December 2021 on the Growth of Legumes (Mungbean and Soybean) and Its Effect on the Resilience of People	Arry Yuariatun Nurhayati, Rista D Karisa and Yuda C Hariadi
2	13.15 – 13.30	7	Assessing the Antibacterial Potential of Honey Orange Peel Extract: Synthesis and Characterization	Iradisnayanti Sihombing, Evi Suaebah, Ersyzario Edo Yunata and Jan Ady
3	13.30 – 13.45	14	The Effect of Hydroxyapatite-Gelatin Coating Variations on 3D Printing Poly Lactic Acid (PLA) Scaffold with Rhombi-Truncated Cuboctahedron Models	Grace Constella Anastasya Firdauz, Dyah Hikmawati and Ersyzario Edo Yunata
4	13.45 – 14.00	18	Preparation and Characterizations for Barium Titanate Piezoelectric with Polyvinylpyrrolidone Effect	Jan Ady and Andhika Bangun Samudra

No	Time (GMT+7)	ID	Title	Authors
5	14.00 – 14.15	20	Effect of Pore Size Design of PLA (Polylactic Acid) Scaffold Hexagonal Pasteurized Geometry Using the 3D Printing Method on Mechanical Properties	Nabila Safitri, Dyah Hikmawati and Aniek Setiya Budiatin
6	14.15 – 14.30	26	Application of Polycaprolactone/Collagen Biocomposite Coated with Chitosan as Nanofiber for Skin Tissue Engineering in Burn Wounds	Djony Izak Rudyardjo
7	14.30 – 14.45	27	Effect of Addition of Collagen and Elastin to Polycaprolactone-Based Artificial Anterior Cruciate Ligament Scaffold	Nabila Meinisya Sahira, Andreas Charles Raharjo, Dyah Hikmawati, Sofijan Hadi and Aminatun Aminatun
8	14.45 – 15.00	28	Variation of Fiber Directions on The Surface of 3D-Printing Scaffold Based on Polylactic Acid and Polycaprolactone for Anterior Cruciate Ligament Reconstruction	Etik Wahyuni, Dyah Hikmawati, Sofijan Hadi and Aminatun Aminatun
9	15.00 – 15.15	33	Injectable Hydrogel Based of Hyaluronic Acid-Doxycycline for Joint Bearing of Osteoarthritis Case	Prihartini Widiyanti, Muhammad Fabian Daffa Mahendra and Djoni Izak Rudyardjo
10	15.15 – 15.30	41	Polycaprolactone-Polyaniline Alloy in 3D Printing Scaffold as Bone Implant	Fitriyatul Qulub, Arie Wibowo

No	Time (GMT+7)	ID	Title	Authors
11	15.30 – 15.45		Break (15')	
12	15.45-16.00	44	The Effect of TiO ₂ Addition on Improving the Performance of Zinc Oxide Nanoparticles (ZnO-NPs) as a Sunscreen Formulation	Siswanto Siswanto, Aminatun Aminatun, Ni Kadek Setiari and Vallery Ofelia Viannco Junico

Room 2 (ICPIAM 2)	
Date and Time	24 October 2023 at 13.00 WIB (Western Indonesia Time)
Link	https://zoom.us/j/97030519236?pwd=U3BDTkNDZmgzMTBrMFo5MCSwWkxWUT09
Category	Biomaterials 2
Moderator	Inten Firdhausi Wardhani, S.T., M.Sc.
Invited Speaker	Dr. M V Reddy

No	Time (GMT+7)	ID	Title	Authors
1	13.00 – 13.15	67	Advanced Materials for Energy and Sustainability	Dr. M V Reddy
2	13.15 – 13.30	47	Antibacterial Effect of Silver Nanoparticles Synthesized by Grape Seed Extract Against Staphylococcus aureus and Escherichia coli	Ahmad Khalil Yaqubi, Suryani Dyah Astuti and Andi Hamim Zaidan
3	13.30 – 13.45	48	Intensifying the characteristics and performance of hydrophobic zeolite produced from bamboo leaves for bioethanol purification	Misbahudin Alhanif, Arinda Yolanica Prastyo, Maulidah az Zahra and Alfian Fadilah Santoso
4	13.45 – 14.00	49	Characteristics of Rice Husk Briquettes with Taro Starch Adhesive (Colocasia esculenta L.)	Nova Anika, Muhammad Agung Ikhwanyah, Muh. Kusmali, Jabosar Ronggur Hamonangan Panjaitan, Harmiansyah and David Septian Sumanto Marpaung
5	14.00 – 14.15	52	Bacterial Cellulose Production from Banana Peel with Ethanol Addition	Jabosar Ronggur Hamonangan Panjaitan and Melinia Wulan Rahmawati

No	Time (GMT+7)	ID	Title	Authors
6	14.15 – 14.30	53	CHARACTERISTICS TEST OF MECHANICAL PROPERTIES AND BIODEGRADATION OF BIOPLASTIC BANANA KEPOK PEEL STARCH AND POLYVINYL ALCOHOL BASED ON REINFORCEMENT CORN HUSK CELLULOSE	Harmiansyah Harmiansyah, Narti Liana, Eka Nurfani and Lathifa Putri Afisna
7	14.30 – 14.45	58	Green Synthesis of Silver Nanoparticles with Green Tea (<i>Camellia sinensis</i>) Extract Bioreductant and Antibacterial Activity Test Against <i>Escherichia Coli</i> and <i>Staphylococcus Aureus</i> Bacteria	Siprianus Somarwain, Aura Adinda, Umami Hanifah and Suryani Dyah Astuti
8	14.45 – 15.00	60	Green Synthesis Silver Nanoparticle – Senna Alexandrina (AGNPS-SA) Effect to <i>Staphylococcus aureus</i> Bacteria	Khouliya Zalda, Farah Restuadji, Reri Muhammad Ibadurrahman, Suryani Dyah Astuti, Andi Hamim Zaidan and Dezy Zahrotul Istiqomah Nurdin
9	15.00 – 15.15	61	Effect of Green Synthesis Silver Nanoparticle – Senna Alexandrina (AGNPS-SA) to <i>Escherichia Coli</i> Bacteria	Reri Muhammad Ibadurrahman, Farah Restuadji, Khouliya Zalda, Suryani Dyah Astuti, Andi Hamim Zaidan and Dezy Zahrotul Istiqomah Nurdin

No	Time (GMT+7)	ID	Title	Authors
10	15.15 – 15.30	62	Injectable Alginate/Polypyrrole Hydrogel as Therapeutic Candidate for Spinal Cord Injury	Ni Nyoman Ary Dewanthi, Khairun Nisa, Emmanuella Aurelia Rachel Passa, Maria Novi Limantoro and Prihartini Widiyanti
11	15.30 – 15.45	Break (15')		
12	15.45 – 16.00	63	Gelatin-Chitosan-Tannic Acid Composite as a Spring-loaded Silo for Gastroschisis Cases	Alinda Anggraini, Atin Asna Octavia, Muhammad Hafizh Athari, Tarrisa Diandra Putri Wibowo, Sayyidul Istighfar Ittaqillah and Prihartini Widiyanti
13	16.00 – 16.15	64	Biomaterial-Enhanced Hemostatic Sponge for Non-Compressible Bleeding Control	Lale Rozykulyyeva, Prihartini Widiyanti and Suryani Dyah Astuti

Room 3 (ICPIAM 3)	
Date and Time	24 October 2023 at 13.00 WIB (Western Indonesia Time)
Link	https://zoom.us/j/97030519236?pwd=U3BDTkNDZmgzMTBrMFo5MCSwWkxWUT09
Category	Advanced Materials
Moderator	Ersyzario Edo Yunata, S.Si., M.Si., Ph.D.
Invited Speaker	Hadi Teguh Yudistira, S.T., Ph.D.

No	Time (GMT+7)	ID	Title	Authors
1	13.00 – 13.15	39	Study of Metamaterial as Controlling Electromagnetic Wave Material	Hadi Teguh Yudistira
2	13.15 – 13.30	13	Understanding Corrosion in Coal-Biomass Co-firing with Biomass Ratio through Embedded Corrosion Tests	Silvia Mutimmatus Syaadah, Hubby Izzuddin, Agus Sukarto Wismogroho, Eni Sugiarti, Ahmad Afandi, Wahyu Bambang Widayatno, Jayadi, Didik Aryanto, Jonathan Dian, Ardi Nugroho, Teguh Widjajanto, Agung Purniawan and Sigit Tri Wicaksono
3	13.30 – 13.45	17	Experimental and Numerical Study on Cold-Formed Steel Built-Up Closed C-Section Beams Subjected to Three-Point Flexural Loading	Imam Taufik, Tri Widya Swastika, Sarah Fatihah Nugroho and Heru Purnomo

No	Time (GMT+7)	ID	Title	Authors
4	13.45 – 14.00	25	Bibliometric Analysis of Materials for Railway Brake Blocks	Fahmi Imanullah, Eko Surojo, Aditya Rio Prabowo, Ubaidillah, Zainal Arifin and Kacuk Cikal Nugroho
5	14.00 – 14.15	29	Glass Fiber-Reinforced Polymer packaged Singlemode – Multimode – Singlemode Fiber Structure Sensors for Load/Strain Measurement	I Made Manik Wiradhana, Agus Muhamad Hatta and Doty Dewi Risanti
6	14.15 – 14.30	34	Slowing Down Energy and Food Crises with Agricultural Waste: Briquetting for Enhancing Plant Growth and Energy Harvest	Arry Y Nurhayati, Muhamad Hasan, Alfian F Hadi and Yuda C Hariadi
7	14.30 – 14.45	43	Effect of ZnO Sputtering Time as Photoanode ITO-PEN/TiO ₂ /ZnO On Microstructure and Optical Properties For Flexible DSSC	Anjar Nur Ramadhani, Markus Diantoro, Herlin Pujiarti and Arif Nur Afandi
8	14.45 – 15.00	45	A Comprehensive Study of Iron Ores from the Area Around Kupang, East Nusa Tenggara	Albert Zicko Johannes, Zakarias Seba Ngara, Jonshon Tarigan and Minsyahril Bukit
9	15.00 – 15.15	46	Quantitative Analysis of Crystalline phase from XRD Charaterization of Kolbano Sand with Profex	Minsyahril Bukit, Jonshon Tarigan and Albert Zicko Johannes
10	15.15 – 15.30	51	Enhancing the Physical and Mechanical Properties of Ply-Bamboo: The Impact of Steam	Alex Kaban, Wahyu Sipahutar, Tarmizi Taher, Fajar Paundra, Rahma

No	Time (GMT+7)	ID	Title	Authors
			Pre-Treatment on Black Bamboo Strips	Komariah, Muhammad Lubis and Sena Maulana
11	15.30 – 15.45		Break (15')	
12	15.45 – 16.00	59	The Effect of Differences in Intercritical Annealing Temperatures on the Microstructure, Hardness and Tensile Strength of AISI 1020 Steel	Eko Pujiyulianto, Fransisco Dino, Abdul Muhyi, Kardo Rajaguguk and Fajar Paundra

Room 4 (ICPIAM 4)	
Date and Time	24 October 2023 at 13.00 WIB (Western Indonesia Time)
Link	https://zoom.us/j/97030519236?pwd=U3BDTkNDZmgzMTBrMFo5MCSwWkxWUT09
Category	Instrumentation
Moderator	Erwin Sutanto, S.T., M.Sc.
Invited Speaker	Agus Muhamad Hatta, S.T., M.Si, Ph.D

No	Time (GMT+7)	ID	Title	Authors
1	13.00 – 13.15		Low-Cost Imaging System: Design and Testing for Laboratory-Based Food Security Applications	Agus Muhamad Hatta, S.T., M.Si, Ph.D
2	13.15 – 13.30	1	Integrated Continuous Emission Monitoring System for Environmental Compliance at a Coal-Fueled Steam Turbine Generator Plant	Angata Rismana and Bhakti Yudho S.
3	13.30 – 13.45	4	Development of Photoplethysmography (PPG) as a Non-Invasive Medical Device for Blood Glucose Detection	Yellena Bunga Casimira, Khusnul Ain, Alfian Pramudita, Nuril Ukhrowiyah, Imam Sapuan and Radhite Majid Sukardi
4	13.45 – 14.00	8	Identification Bone Fractures Using Analog Discovery 2-Based Electrical Impedance Spectroscopy	Bayu Ariwanto, Nuril Ukhrowiyah, Amelia Amelia, Inas Amira, Khusnul Ain and Syevana Dita Musvika
5	14.00 – 14.15	9	Fiber Optic Application For Gasoline Density Sensor Using Fiber Taper Structure	Rahmad Reynaldi Kurniawan, Erwin Sutanto and Herri Trilaksana

No	Time (GMT+7)	ID	Title	Authors
6	14.15 – 14.30	10	A Preliminary Study of Meat Type Detection Using Analog Discovery 2-Based Electrical Impedance Spectroscopy	Ade Agung Harnawan, Reri Muhammad Ibadurrahman, Bayu Ariwanto, Imam Sapuan, Farah Restuadji, Khouliya Zalda and Khusnul Ain
7	14.30 – 14.45	19	Modification of Electrical Interconnection System at PT. Pupuk Sriwidjaja Palembang	Ferian Saddhusilza Putra and Bhakti Yudho Suprpto
8	14.45 – 15.00	21	Comparative Analysis of Differential Pressure and Ultrasonic Flow Meter Devices for Exhaust Gas Velocity Measurement in Steam Turbine Generator Chimneys	Angata Risma, Qiqi Asmara and Bhakti Yudho S.
9	15.00 – 15.15	22	MOVEMENT-RELATED POTENTIAL IN THE EEG SIGNALS AS THE COMPENSATOR IN THE ROLLATORS FOR ASSISTING HUMAN MOBILITY	Khouliya Zalda, Osmalina Nur Rahma, Akif Rahmatillah, Maydiana Nurul Kurniawati, Khusnul Ain and Rifai Chai
10	15.15 – 15.30	23	Control System Design for Lower Limb Robotic Exoskeleton using PID Tuning Fuzzy	Akif Rahmatillah, Aura Adinda, Ummi Hanifah, Muhammad Hafid Fadilah, Riries Rulaningtyas and Harry Septanto
11	15.30 – 15.45	Break (15')		
12	15.45 – 16.00	31	Short Circuit Analysis Due to Reconfiguration of AC To DC	Adi Kurniawan, Muhammad Raihan Rosulan Indni

No	Time (GMT+7)	ID	Title	Authors
			Electrical Distribution System on Trailing Suction Hopper Dredger (TSHD) Vessel	Kesuma and Indra Ranu Kusuma
13	16.00 – 16.15	36	Fiber Optic Acoustic Sensor for the measurement of amplitude and frequency of Sound Signals with SMS Structure	Frans Rizal Agustiyanto, Agus Muhamad Hatta, Dhany Arifianto, Maulana Putra Santoso and Fadli Ama
14	16.15 – 16.30	37	Analysis of Calf Muscle Contractions in Various Foot Positions Using Accelerometer Sensor on a Mobile Phone	Fadli Ama, Agus Muhamad Hatta, Katherin Indriawati and Frans Rizal Agustiyanto
15	16.30 – 16.45	38	E-Nose Technology for Catfish Identification Based on Aquaculture Environments	Winarno Winarno, Akif Rahmatillah, Erinka Nur Rohmatillah and Suryani Dyah Astuti
16	16.45 – 17.00	50	Utilization of DAQ module and Accelerometer Sensors for Horizontal to Vertical Spectral Ratio (HVSR) Analysis	Risky Martin Antosia, Yudha Styawan, Alhada Farduwin, Intan Andriani Putri and Reza Rizki
17	17.00 – 17.15	54	Smart Comfort: IoT implementation in classroom comfort, E204, ITERA (case study)	Nike Dwi Grevika Drantantiyas, Devi Triana, Muhammad Akbar Deardo and Ahmad Suaif

Room 5 (ICPIAM 5)	
Date and Time	24 October 2023 at 13.00 WIB (Western Indonesia Time)
Link	https://zoom.us/j/97030519236?pwd=U3BDTkNDZmgzMTBrMFo5MCswWkxWUT09
Category	Computation
Moderator	Endah Purwanti, S.Si., M.T.
Invited Speaker	Dr. Riries Rulaningtyas, M.T.

No	Time (GMT+7)	ID	Title	Authors
1	13.00 – 13.15		Digital Pathology Virtual Microscope	Dr. Riries Rulaningtyas, M.T.
2	13.15 – 13.30	2	Musculoskeletal Modeling of Walking Gait in Children with Spina Bifida Using OpenSim	Melyna Wahyudi, Alfian Pramudita Putra, Pujiyanto Pujiyanto and Esti Andarini
3	13.30 – 13.45	3	Design of Artificial Intelligence Learning System (AILS) in Data Processing for Complex Engineering Systems in Schools Towards Independent Learning	Soegianto Soelistiono and Wahidin Wahidin
4	13.45 – 14.00	5	Feature Extraction from Brain Mapping Electroencephalogram Signals Using Low-Resolution Electromagnetic Tomography (LORETA)	Osmalina Nur Rahma, Khusnul Ain, Fadli Ama, Alfian Pramudita Putra, Nafisa Rahmatul Laili Alami, Nita Lutfiyah and Khouliya Zalda
5	14.00 – 14.15	6	Artificial Neural Network Performance In PCR Temperature Control Systems	Dewi Anggraeni, Setyawan Purnomo Sakti, Agus Naba and Sugeng Rianto

No	Time (GMT+7)	ID	Title	Authors
6	14.15 – 14.30	11	Squat Posture Recognition System Design For Physical Activity Monitoring	Irfaan Bahardika Daffa Musyafa, Ruries Rulaningtyas and Alfian Pramudita Putra
7	14.30 – 14.45	12	Diabetes Detection from Iris Image Using k-Nearest Neighbor Based on Texture Features	Farah Restuadji, Ruries Rulaningtyas, Soegianto Soelistiono and Fitriyatul Qulub
8	14.45 – 15.00	24	Finite Element Analysis of Modified Fixation Plates Adjusting Clavicle Morphology	Nathasya Reinelda Noviyadi, Dita Ayu Mayasari, Menik Dwi Kurniatie, Dinda Syaqla Andryani and Talitha Asmaria
9	15.00 – 15.15	30	Urban Heat Island Analysis Based on Landsat 8 OLI/TIRS Data in Jember City Area	Bowo Eko Cahyono, Nyu Herdiyanto Adi Luhur Winasis and Sutisna Sutisna
10	15.15 – 15.30	32	Glaucoma Detection Using Extreme Learning Machine Based on Histogram and Fractal Features from Retina Fundus Images	Endah Purwanti, Mustikaningrum Mustikaningrum and Soegianto Soelistryono
11	15.30 – 15.45	Break (15')		
12	15.45 – 16.00	42	Computer Vision with Convolutional Neural Network for Product Inspection with Edge Impulse Studio and ESP32-Cam Microcontroller	Ahmad Suaif
13	16.00 – 16.15	55	Inter-Layered Interaction of the Polymeric HCOOH a Density Functional Studies	Septia Eka Marsha Putra, Vera Khoirunisa, Fathan

No	Time (GMT+7)	ID	Title	Authors
				Akbar Nur Habibi and Indah Gumala Andirasdini
14	16.15 – 16.30	56	Thermal Analysis on Heatsink with Variation of 5 Materials Using ANSYS CFD Simulation	Denis Pramudia Putra, Amira Fadhila Khairunnisa, Rusni Khaira Ummah, Rudi Setiawan and Doni Bowo Nugroho
15	16.30 – 16.45	57	Calibration of Sound Processing in BATTLE ROYALE Game Sound Effect and It's Influences on Player's Perception of Direction (Case Study: Player Unknown Battle Ground Mobile)	Sefrani Siregar
16	16.45 – 17.00	65	Heart Attack Risk Detection using the C5.0 Decision Tree Algorithm	Franky Chandra Satria Arisgraha, Khusnul Ain and Sulaiman Syah Alif Permana