

SYMPOSIUM	TITLE	ROOM	TUESDAY, 11 AUGUST 2015			WEDNESDAY, 12 AUGUST 2015				
			1.00 - 3.00 p.m	3.30 - 5.00 p.m	POSTER SESSION	08.00 - 10.00 a.m	10.30 - 12.00 a.m	1.00 - 3.00 p.m	3.30 - 5.00 p.m	POSTER SESSION
A	Civil and Environmental Engineering	Pejanggik	A1. Construction Technology and Value Management	A2. Structure, Geotechnique and Construction Materials						A11. Poster Session For Civil Engineering
		Mataram				A3. Structure, Geotechnique and Construction Materials	A4. Transportation and Urban Design	A5. Transportation and Urban Design	A6. Transportation and Urban Design	
		Narmada				A7. Urban Innovation Management, Water Resources and Environmental Engineering	A8. Water Resources and Environmental Engineering	A9. Water Resources and Environmental Engineering	A10. Water Resources and Environmental Engineering	
B	Mechanical and Marine Engineering	Rinjani 3	B1. Manufacture	B2. Manufacture	B15. Poster Session for Mechanical and Marine Engineering	B3. Manufacture	B4. Manufacture	B5. Manufacture		B16. Poster Session for Mechanical and Marine Engineering
		Selaparang	B6. Applied Mechanical	B7. Marine Engineering		B8. ICSERA + Refrigeration	B9. ICSERA + Refrigeration	B10. ICSERA + Refrigeration		
		Rinjani 1						B11. Fluid	B12. Fluid	
		Rinjani 2						B13. Energy Conversion	B14. Energy Conversion	
C	Electrical and Computer Engineering	Gili Air	C1. Emwave: Radar, Antenna	C2. Emwave: Antenna, Microwave Propagations/ Circuits	C5. Poster Session For Electrical And Computer Engineering	C6. Computer: Computer Science	C7. Computer: Computer Science, Computer App	C7. Computer: Computer Science, Computer App	C9. Emwave: Microwave Propagation /Circuits, Electromagnetism, Photonics Propagation	C18. Poster Session for Electrical and Computer Engineering
		Gili Meno	C3. Electronics And Sensors: Nano Materials, Sensor	C4. Electronics And Sensors: Sensor, Nano Electronics Devices		C10. Energy: System	C11. Energy: Renewable	C12. Electronics And Sensors: Nano Electronics Devices, Electronics Circuits	C13. Electronics And Sensors: Photonics Devices Telecommunication: Wireless	
		Gili Trawangan				C14. Energy: System, Power Electronics	C15. Computer: Computer App – Telecommunication: Digital Signal Processing	C16. Telecommunication: Wireless –Control and Robot : Control System	C17. Control and Robot : Control System	

SYMPOSIUM	TITLE	ROOM	TUESDAY, 11 AUGUST 2015			WEDNESDAY, 12 AUGUST 2015				
			1.00 - 3.00 p.m	3.30 - 5.00 p.m	POSTER SESSION	08.00 - 10.00 a.m	10.30 - 12.00 a.m	1.00 - 3.00 p.m	3.30 - 5.00 p.m	POSTER SESSION
D	Metallurgy and Materials Engineering	Flamboyan	D1. Advanced and Energy Materials	D2. Polymer and Ceramic Materials	D12. Poster Session for Metallurgy and Materials	D3. Polymer and Ceramics Materials	D4. Advanced and Energy Materials	D5. Metals and Manufacture Process		D13. Poster Session for Metallurgy and Materials
		Alamanda	D6. Composite Materials	D7. Composite Materials		D8. Advanced and Energy Materials	D9. Corrosion and Degradation of Materials	D10. Korea-Indonesia Symposium (KIS) of Metals and Manufacture Process	D11. Composite Materials	
E	International Symposium of I-Dwell 2015 (Architecture)	Parigata	E1. Reconstruction Dwelling and Multiple Dwelling Scopes			E2. Situat(ing) Dwelling	E3. Dwelling (Im)materiality	E4. Dwelling (Im)materiality		
F	Chemical and Bioprocess Engineering	Rinjani 1	F1. Bio	F2. Energy		F5. Adsorption, Bio, Material/Simulation, Material	F6. Energy			F9. Poster Session for Chemical and Bioprocess Engineering
		Rinjani 2	F3. Material, Material/Simulation	F4. Energy, Extraction, Waste		F8. Material				
		Rinjani 3						F7. Bio, Energy (3.00-3.30)		
G	Industrial Engineering	Gili Trawangan	G1. Optimization and Distribution	G2. Design and Ergonomics	G8. Poster Session for Industrial Engineering					G9. Poster Session for Industrial Engineering
		Narmada	G6. Optimization and Distribution	G7. Optimization and Distribution						
		Edelweiss				G3. Production and Quality Engineering	G4. Production and Quality Engineering	G5. Production and Quality Engineering		
H	Community Development	Edelweiss	H1. Comdev							

## SYMPOSIUM A : CIVIL AND ENVIRONMENTAL ENGINEERING

### SESSION A1.

Chair : Prof. Dr. Ir. Sigit Pranowo Hadiwardoyo, DEA

Tuesday, 11 August 2015, 1.00 - 2.00 pm

Venue : Pejanggik

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	A1.1 (Invited)	Prof. Antonio Gomes Correira	University of Minho, Portugal	
1.30 - 2.00 pm	A1.2 (Invited)	Prof. Oliver Carsten	Institute for Transport Studies (ITS), University of Leeds	New Technology in Transportation and Safety

### SESSION A1. Construction Technology and Value Management

Chair : Prof. Dr. Ir. Sigit Pranowo Hadiwardoyo, DEA and Dr. Ing. Ir. Dwita Sutjningsih, Dipl. HE

Tuesday, 11 August 2015, 2.00 - 3.00 pm

Venue : Pejanggik

Time	No.	Authors	Affiliation	Title
2.00 - 2.15 pm	A1.3	Hanie Teki Tjendani	ITS	Risk Sharing Among Stakeholders to Implementing Performance Based Contract on Highway Project
2.15 - 2.30 pm	A1.4	Rahayu S. Arifin, Setyo S. Moersidik, Djoko M. Hartono, Yusuf Latief, Edhi T. Budhi Soesilo	University of Indonesia	Dynamics Project Interdependencies in optimizing Project Portfolio Management (PPM) Case Study: PDAM Tirtawening Bandung
2.30 - 2.45 pm	A1.5	Basuki Anondho	Tarumanagara University	Influence of External Factors Identification Analysis Model of Probabilistic Construction Project Duration in Jakarta
2.45 - 3.00 pm	A1.6	Afrizal Nursin, Yusuf Latif, Krishna Mochtar, Hari G. Soeparto	University of Indonesia	Collaboration of Parties to Reduce Construction Waste in Integrated Project
3.00 - 3.15 pm	A1.7	Mohammed Ali Berawi and Van Basten	University of Indonesia	Cost Optimization of Operational and Maintenance Green Building Using Life Cycle Assessment Method

### SESSION A2. Structure, Geotechnique and Construction Materials

Chair : Ir. Widjojo A. Prakoso, M.Sc., Ph.D and Dr. Ir. Wiwik Rahayu

Tuesday, 11 August 2015, 3.30 - 5.00 pm

Venue : Pejanggik

Time	No.	Authors	Affiliation	Title
3.30 - 3.45 pm	A7.3	David P. Thambiratnam	QUT	Structural Health Monitoring - Preserving What We Have
3.45 - 4.00 pm	A2.1	Dimas Langga Chandra Galuh	Sarjanawiyata Tamansiswa University	The Effectiveness of the Use of Wire Rope Flexural as the Negative Moment Reinforcement in T-Sectional Reinforced Concrete Beam
4.00 - 4.15 pm	A2.2	Yulian Firmans Arifin, Umi Baroroh Lili Utami, Tom Schanz	Lambung Mangkurat University	Physico-Hydro-Mechanical Properties of a Commercial Bentonite in Indonesia
4.15 - 4.30 pm	A2.3	Ni Nyoman Kencanawati, Mitsuhiro Shigeishi	Mataram University	Mechanical Properties Distribution of Strength and Reliability of Shotcrete
4.30 - 4.45 pm	A2.4	Widiarto Sutrisno	Sarjanawiyata Tamansiswa University	Water Absorption of Brick Wall Mortar With Glass Powder Added
4.45 - 5.00 pm	A2.5	Agus Setyo Muntohar, Siswoko Adi Saputro	University of Muhammadiyah Yogyakarta	The SiCC Column Improved the Expansive Clay

**SESSION A3. Structure, Geotechnique and Construction Materials****Chair : Dr.Eng. Agus Setyo Muntohar, S.T.,M.Eng.Sc. and Ir. Heddy R. Agah, MEng**

Wednesday, 12 August 2015, 8.00 - 10.00 am

Venue : Narmada

Time	No.	Authors	Affiliation	Title
08.00-08.15 am	A3.1	Gidion Turu'allo	Tadulako University	Using Ggbs as a Part of Cement Replacement in Concrete: Effect of Water-Binder Ratio and Ggbs Levels on Activation Energy
08.15-08.30 am	A3.2	Suryawan Murtiadi, Akmaluddin, Zaedar Gazalba, Sinarep	University of Mataram	In-Filled Light weight Concrete Frame Reinforced With Sisal Fiber Bars Subjected to Lateral Loading
08.30-08.45 am	A3.3	Anis Rosyidah, Fauzri Fahimuddin, I Ketut Sucita, Rahmi Dian	Jakarta State Polytechnic	The Bond Strength and the Development Length of Reinforcing Deform Bars of Precast Concrete Using Grouting
08.45-09.00 am	A3.4	Jauhar Fajrin, Yan Zhuge, Frank Bullen, Hao Wang	University of Mataram	Improving the Quality of Experimental Research in Civil Engineering by Employing Statistical Design of Experiment: A Case Study in Developing Composite Hybrid Sandwich Panel
09.00-09.15 am	A3.5	Wiwik Rahayu, Yustian Heri Suprpto	University of Indonesia	Preliminary Study of Correlation Between California Bearing Ratio and Dynamic Cone Penetrometer in Peat Soil
09.15-09.30 am	A3.6	Anas Puri, Hary C. Hardiyatmo, Bambang Suhendro, Ahmad Rifa'i	Islamic University of Riau	Pull out Test of Single Pile Row Nailed-slab System on Soft Clay
09.30-09.45 am	A3.7	Yustian Heri Suprpto, Budi Susilo Soepandji, Wiwik Rahayu, Hussein Mroueh	University of Indonesia	Effect of Bacillus subtilis as an Agent in Biological Treatment on the Shear Strength of Sand
09.45-10.00 am	A8.1	Budijanto Widjaja, Ignatius Tommy Pratama	Parahyangan Catholic University	Determination of the Viscosity Value Based on the Influence of the Sliding Plane by Using Flume Channel

**SESSION A4. Transportation and Urban Design****Chair : Ir. Tri Tjahjono, Ph.D and Dr. Ir. Jachrizal Sumabrata, MSi.**

Wednesday, 12 August 2015, 10.30 - 12.00 am

Venue : Narmada

Time	No.	Authors	Affiliation	Title
10.30-10.45 am	A5.5	Leksmono Suryo Putranto, Rostiana Nurjayadi	Universitas Tarumanegara	Factors Affecting Indonesian Motorcycle Rider Behaviour
10.45-11.00 am	A5.1	Martha Leni Siregar, Heddy R. Agah, Fadhiya Afifa Arifin	University of Indonesia	An Attempt to Produce Hazard-Driven Median-type Adjustment Factor for Road Capacity Calculation
11.00-11.15 am	A4.3	Martha Leni Siregar	University of Indonesia	Pedestrian Safety Profile in Indonesia
11.15-11.30 am	A4.4	Desvira Natasya, Tri Tjahjono, Martha Leni Siregar	University of Indonesia	Traffic Safety Analysis of Elementary School Children
11.30-11.45 am	A4.5	Pungkas Hendratmoko	University of Indonesia	Influence Determinants of Human Behaviour to Assessment Willingness to Pay for Road Safety Improvement
11.45-12.00 am	A4.6	Hamdi, Sigit P. Hadiwardoyo, A. Gomes Correia, Paulo Pereira	University of Indonesia	Road Deterioration Analysis for the National Roads of Indonesia

### SESSION A5. Transportation and Urban Design

Chair : Dr. Ir. Jachrizal Sumabrata, MSi. and Ir. Heddy R. Agah, MEng

Wednesday, 12 August 2015, 1.00 - 3.00 pm

Venue : Narmada

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	A4.2	Jachrizal Sumabrata	University of Indonesia	Understanding Pedestrian: Analysis of Student Perception on Pedestrian Facility of Universitas Indonesia Campus, Depok
1.30 - 2.00 pm	A5.2	Andri Irfan Rifai, Sigit Pranowo Hadiwardoyo, Antonio Gomes Correia, Paulo Pereira, Paulo Cortez	University of Indonesia	Data Mining Applied for the Prediction of Highway Roughness under Overload Traffic
2.00 - 2.15 pm	A5.3	Ferdinand Fassa	Pembangunan Jaya University	Increasing Bintaro Region Using TOD Concept As Solution of Traffic Congestion
2.15 - 2.30 pm	A5.4	Herry Trisaputra Zuna	University of Indonesia	Analyzing Service Quality of Toll Road and Its Relation with Customer Satisfaction in Indonesia Using Multivariate Analysis
2.30 - 2.45 pm	A4.1	Nahry Yusuf, Dea Meirina Sari, Heddy Rohandi Agah	Universitas Indonesia	The Analysis of Utilization and Feasibility of Pedestrian Facilities (Case Study: Lenteng Agung Street - North Direction, Jakarta)
2.45 - 3.00 pm	A5.6	Endang Widjajanti, Ismono Kusmaryono	BPPT	Development of Low Cost Vehicles for Rural Areas in Indonesia

### SESSION A6. Transportation and Urban Design

Chair : Ir. Martha Leni Siregar, MSc

Wednesday, 12 August 2015, 3.30 - 5.00 pm

Venue : Narmada

Time	No.	Authors	Affiliation	Title
3.30 - 3.45 pm	A6.1	Eny Yuliawati, Sigit Hadiwardoyo, Bambang Susantono, Tri Tjahjono	University of Indonesia	System Dynamics Model for Airport Investment Analyze in Hub and Spoke Network
3.45 - 4.00 pm	A6.2	Heddy Rohandi Agah, Siti Fatmawati	University of Indonesia	Analysis the Influence of Rob Water Immersion on the Characteristics of Hotmix Polymer Modified Asphalt
4.00 - 4.15 m	A6.3	Eva Azhra Latifa, Nuzul Barkah Prihutomo, Mulyono Sabrang	Jakarta State Polytechnic	How Asphalt Types Improve Resilient Modulus of Hot Mix Asphalt Concrete

**SESSION A7. Urban Innovation Management, Water Resources and Environmental Engineering****Chair : Ir. Martha Leni Siregar, MSc.**

Wednesday, 12 August 2015, 8.00 - 10.00 am

Venue : Mataram

Time	No.	Authors	Affiliation	Title
08.00-08.15 am	A7.1	Imam Sonny, Sigit P. Hadiwardoyo, Bambang Susantono, Tri Tjahjono	University of Indonesia	The Development of Freight Distribution Model for Connecting Interisland Freight Transport
08.15-08.30 am	A7.2	Aki Aapaoja, Pekka LeviÄrkkangas	VTT Technical Research Centre of Finland	The Evolution of Local Innovation System in Northern Finland - Case Renewable Energy Solutions Pilots in Oulu
08.30-08.45 am	A7.4	Lukas Beladi Sihombing, Yusuf Latief, Ayomi Dita Rarasati, Andreas Wibowo	University of Indonesia	State-of-the-art of Literature Reviews on Project Financing Models for Toll Road Investments
08.45-09.00 am	A7.5	Erni Setyowati, Gagoek Hardiman, Purwanto Khusnan	University of Diponegoro	Green Concept Mapping Researches of Natural Waste Based Materials

**SESSION A8. Water Resources and Environmental Engineering****Chair : Dr. Ing. Ir. Dwita Sutjiningsih, Dipl. HE**

Wednesday, 12 August 2015, 10.30 - 12.00 am

Venue : Mataram

Time	No.	Authors	Affiliation	Title
10.30-10.45 am	A8.2	Muhammad Islamy Rusyda	University of Mataram	Backwater Rise Due to Log Jam at an Arched Bridge during a Flood (A Flume Experiment)
10.45-11.00 am	A8.3	Indra Sati Hamonangan Harahap, Zainul Faizien Haza	Sarjanawiyata Tamansiswa University	On The Numerical Simulations of Drag Forces Exerted by Subaqueous Mudflow on Pipeline: A Laboratory Experiment Assessment
11.00-11.15 am	A8.4	Sigit Sutikno	University of Riau	Calibration of Numerical Model for Shoreline Change Prediction Using Satellite Imagery Data
11.15-11.30 am	A8.5	Olga Catherina Pattiwaj, Anugrah Putra	Maranatha Christian University	Stability and Placement Analysis of Geotube to Prevent Existing Shoreline at Pisangan Coastal Area in Karawang
11.30-11.45 am	A8.6	Max Rudolf Muskananfofa, Frida Aprilia Loinenak, Agus Hartoko	University of Diponegoro	A Study On Coastal Vulnerability As A Basis For Coastal Structural Planning And Development At Doreri Bay, Manokwari Regency, West Papua Province

**SESSION A9. Water Resources and Environmental Engineering**

**Chair : Dr. Nyoman Suwartha, ST., MT., MAgr.**

Wednesday, 12 August 2015, 1.00 - 3.00 pm

Venue : Mataram

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	A9.1	Maimun Rizalihadi	Syiah Kuala University	Project Irrigation Efficiency Assesment on Paddy Field of Pandrah Irrigation Project, Aceh
1.30 - 2.00 pm	A9.2	Heri Sulistiyono, Ida Bagus Giri Putra, I Dewa Gde Jaya Negara	University of Mataram	Development of A New Water Index Criterion for Water Balance Assessments
2.00 - 2.15 pm	A9.3	Ari Sandhyavitri	University of Riau	The Changes of Land Use Pattern Affect to the Availability of Water Resources in Siak Watershed, Riau Province, Indonesia
2.15 - 2.30 pm	A9.4	Dwita Sutjiningsih	University of Indonesia	Estimation of Sediment Yield in a Small Urban Ungaged Watershed Based on Schaffernak Approach at Sugutamu Watershed, Ciliwung, West Java
2.30 - 2.45 pm	A9.5	Pandu Dewanto, Setyo Sarwanto Moersidik, Sucipta	University of Indonesia, BPPT	Assessment of Radionuclides Release Scenario in Water and Soil at Demonstration Plant of Near Surface Disposal for Radioactive Waste
2.45 - 3.00 pm	A9.6	Dewi Fitria	IATPI	Study of Coagulant Aluminium Sulphate and Ferric Sulphate to Remove Organic Matter from Water

**SESSION A10. Water Resources and Environmental Engineering**

**Chair : Dr. Nyoman Suwartha, ST., MT., MAgr.**

Wednesday, 12 August 2015, 3.30 - 5.00 pm

Venue : Mataram

Time	No.	Authors	Affiliation	Title
3.30 - 3.45 pm	A10.1	Djoko M. Hartono, Gabriel Andari Kristanto, Syaiful Amien	University of Indonesia	Study of Marketsâ€™ Solid Waste Generation and Composition to Determine Management Alternatives (Case Study: Pasar Pondok Bambu and Pasar Segar Cinere)
3.45 - 4.00 pm	A10.2	Yusup Setiawan	Center for Pulp and Paper (CPP), Ministry of Industry	Reject Waste Pellet of Paper Mill as Fuel and Its Contribution on Greenhouse Gas (GHG)

**SESSION A11. Poster Session For Civil Engineering****Chair**

Wednesday, 12 August 2015, 10.00 - 10.30 am; 12.00 - 1.00 pm; 3.00 - 3.30 pm; 5.00-7.00 pm

Venue : Pre- Function Hall

Time	No.	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00pm; 3.00- 3.30pm; 5.00-7.00pm	A11.1	Andri Irfan Rifai, Sigit Pranowo Hadiwardoyo, Antonio Gomes Correia, Paulo Pereira	University of Indonesia	A Conceptual Model Decision Support System for Maintenance Optimization of Overload Highway Pavements Under Financial Constraints
	A11.2	Ruly Irawan	Sarjanawiyata Tamansiswa University	Natural Frequencies of Semi-Rigidly Connected Frame with Axial Force Effects
	A11.3	Iskandar Yasin, Henricus Priyosulistyo, Suprpto Siswosukarto, Ashar Saputra	UGM	The Influence of Pressure to Mechanical Properties Dendrocalamus Asper Blade Bamboo
	A11.4	Budijanto Widjaja	Parahyangan Catholic University	Alternative Approach to Determine Yield Stress as a Rheology Parameter for Mudflow
	A11.5	Rendy Thamrin, Tetsuzo Kaku	Andalas University ; Toyohashi University of Technology	Effect of Stirrup on Bond and Shear Capacity of Concrete Beams Reinforced with Cfrp Bars
	A11.6	Ririt Aprilin Sumarsono	State University of Jakarta	Corroded Composite Column Evaluation as Single Compression Member



## SYMPOSIUM B: MECHANICAL AND MARINE ENGINEERING

### SESSION B1. Manufacture

Chair : Masaaki Otsu

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Rinjani 3

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.30 pm	B1.1 (invited)	Prof. Minyang	Tokyo Metropolitan University	Process convergence for fabrication of micro bioassay devices
1.30 - 1.45 pm	B1.2	Gandjar Kiswanto, Aida Mahmudah, Sugeng Supriadi, Ken-ichi Manabe	Universitas Indonesia	The Influence of Die Clearance and Punch Velocity in Micro-Blanking Process
1.45 - 2.00 pm	B1.3	Tomomi Shiratori, Shizuka Nakano, Yohei Suzuki, Masahito Katoh, Naoko Satoh, Takafumi Komatsu, Ming Yang	Komatuseiki Kosakusho Co. LTD, Tokyo Metropolitan University	Influence of Grain Size on Process Affected Zone in Micro Piercing
2.00 - 2.15 pm	B1.4	Keisuke Nagato, Yuki Yajima, Ken Takahashi, Tetsuya Hamaguchi, Masayuki Nakao	The University of Tokyo	Replication of Antireflection Structure for Solar Cells by Laser-assisted Imprinting
2.15 - 2.30 pm	B1.5	T. Aizawa, Istiloyah, Y. Sugita	Shibaura Institute of Technology, University of Brawijaya	Selective Pattern-hardening of Aisi-Sus420/Sus430 Molds For Micro-Texturing
2.30 - 2.45 pm	B1.6	Takuya Maetani, Junpei Sakurai, Mizue Mizoshiri, Seiichi Hata	School of Nagoya University	Evaluation of magnetization for cantilever sample using MEMS device
2.45 - 3.00 pm	B1.7	Satoshi Kishimoto and Yutaka Kagawa	National Institute for Materials Science	Fabrication Of Micro-Channel From The Powder By Pulse Electric Current Sintering Method And Marked Grafite Die

### SESSION B2. Manufacture

Chair : Yukio Miyashita

Tuesday, 11 August 2015, 3.30 – 5.00 pm

Venue : Rinjani 3

Time	No. ID	Authors	Affiliation	Title
3.00 – 3.45 pm	B2.1	Rendi Kurniawan, Sung Jae Won, Tae Jo Ko and Gandjar Kiswanto	Yeungnam University and Universitas Indonesia	Design and Optimal Frequency of a Bolt-Clamped Langevin Transducer for Actuator of Ultrasonic Elliptical Tool Holder
3.45 - 4.00 pm	B2.4	Wataru NAKAO	Yokohama National University	Technical Milestone to Apply Self-healing Ceramics
4.00 - 4.15 pm	B2.2	Sugeng Supriadi, Gunawan, Yanuar, Heri Sulistyio Budhi	Universitas Indonesia	Replication of micro-riblets on ship hull for drag reduction application
4.15 - 4.30 pm	B2.3	Tsuyoshi Furushima, Kenta Takahashi, Ken-ichi Manabe	Tokyo Metropolitan University	Numerical Study on Effects of Material Inhomogeneity and Grain Size on Necking and Wrinkling Behaviors in Micro Deep Drawing of Metal Foils
4.30 - 4.45 pm	B5.6	Shingo Isobe, Ikuro Ihara, Akira Kosugi	Nagaoka University of Technology	In-situ Noninvasive Heat Flux Evaluation by Ultrasound for High Temperature Materials Processes Monitoring
4.45 - 5.00 pm	B2.5	Shinta Virdhiana, Pujiyantob and Husen Taufiq	Metal Industries Development Centre,	Reverse Engineering of Complex Shaped Casting Product

**SESSION B3. Manufacture****Chair : Tsuyoshi Furushima**

Wednesday, 12 August 2015, 08.00 – 10.00 am

Venue :Rinjani 3

Time	No. ID	Authors	Affiliation	Title
8.00 - 8.15 am	B3.1	Tomohiro MURAKAMI, Ming YANG	Tokyo Metropolitan University	Fracture vibration and noise of different tensile strength materials in screw drive servo press blanking
8.15 - 8.30 am	B3.2	Takashi Nomura, Kazuhiko Kitamura, Keiichi Matsunaga	Nagoya Institute of Technology	Behavior of asymmetric deformation of rod in locally-lateral upsetting
8.30- 8.45 am	B3.3	Takehiko Makino, Yuya Yogo, Toshinari Michimoto, Yohei Takamori	Nagoya Institute of Technology	Direct Measurement of Friction Force during Forming
8.45 - 9.00 am	B3.4	Masato Okada, Masayoshi Shinya, Hidetake Tanaka, Naoki Asakawa, Masaaki Otsu	Nagaoka University of Technology	Measurement of Tool Temperature in Burnishing using Diamond Tip
9.15 - 9.30 am	B3.5	E.E. Yunata, K. Yamauchi, T. Aizawa	Shibaura Institute of Technology	High Density Oxygen Plasma Ashing Of Cvd-Diamond Coated End-Milling Tools
9.30 - 9.45 am	B3.6	Masaaki Otsu, Seiya Ichikawa, Takayuki Muranaka, Hidenori Yoshimura, Ryo Matsumoto, Masato Okada	University of Fukui, Kagawa University, Osaka University	Front and Rear Sides Simultaneous Forming by Friction Stir Incremental Forming
9.45-10.00 am	B3.7	Yuichi Otsuka, Yukio Miyashita, Yoshiharu Mutoh	Nagaoka University of Technology	In situ observations on fretting wear behavior of plasma-sprayed hydroxyapatite coating

**SESSION B4. Manufacture****Chair : Sinta Virdian**

Wednesday, 12 August 2015, 10.30 – 12.00 am

Venue :Rinjani 3

Time	No. ID	Authors	Affiliation	Title
<b>10.30 - 10.45 am</b>	<b>B4.1 (invited)</b>	<b>Invited Speaker ASMP</b>		
<b>10.45 - 11.00 am</b>				
11.00 - 11.15 am	B4.2	Gen Sasaki, Kunihiro Nakata, Kenjiro Sugio	Hiroshima University	Wetability Between Graphite And High Temperature Lead Free Solder Alloy
11.15 - 11.30 am	B4.3	D.J. Santjojo, T. Aizawa, Istiroyah	University of Brawijaya, Shibaura Institute of Technology	High Rate Plasma Nitriding Of Martensite Stainless Steel For Surface Treatment
11.30 - 11.45 am	B4.4	H. Asanuma, S. Yamaguchi, T. Mochizuki and T. Yanaseko	Chiba University	Development Of Titanium Fiber/Aluminum Multifunctional Composites
11.45 - 12.00 am	B4.5	Muslim Mahardika, Urip Agus Salim, Subarmono, Heru Santoso Budi Rochardjo, Muhammad Abduh Amrilhaq, Miftah Nur Rais, Bhramandhika Nalendra Ghupta	JTMI FT-UGM	Design and Analysis of Electrical Car Chassis Using Wire Model with Finite Element Method (F)

### SESSION B5. Manufacture

Chair : Hideshi Miura

Wednesday, 12 August 2015, 1.00 – 3.15 pm

Venue : Rinjani 3

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.15 pm	B5.1 (invited)	Kazunari Shinagawa	Kagawa University	Phase-filed simulation of elementary process in powder bed fusion
1.15 - 1.30 pm				
1.30 - 1.45 pm	B5.2	Sugeng Supriadi, Tito Winnerson Sitanggang, Bambang Irawan, Bambang Suharno, Gandjar Kiswanto, Tjokro Prasetyadi	Universitas Indonesia	Fabrication Orthodontic Bracket by Using Investment Casting Process
1.45 - 2.00 pm	B5.3	Kazuhiro Asai, Kazuhiko Kitamura	Nagoya Institute of Technology	Estimation of frictional performance of lubricants for hot forging of steel by calibration curves considering heat transfer in ring compression test
2.15 - 2.30 pm	B5.4	Ario Sunar Baskoro, Ahmad Fauzan	Universitas Indonesia	Effect of Pressure and Length of Lap Joint on Shear Load and Joint Clearance During Dissimilar Metal Joining Using Torch Brazing (AM)
2.30 - 2.45 pm	B5.5	Ario Sunar Baskoro, Edy Karyanta, Henky Suskito Nugroho	Universitas Indonesia	Tote Box Manufacturing Information Systems For 300 kCi Gamma Irradiators

### SESSION B6. Applied Mechanical

Chair : Gandjar Kiswanto

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Selaparang room

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.30 pm	B1.1 (invited)	Prof. Minyang	Tokyo Metropolitan University	Process convergence for fabrication of micro bioassay devices
1.30 - 1.45 pm	B6.1	Sugiharto Sugih, Danardono Agus Sumarsono	Universitas Indonesia	Suspended Coil Spring Suspension for Straddle Type Monorail: Spings and Dampers Selection Analysis
1.45 - 2.00 pm	B6.2	Katunori Takezawa, Noriyasu Oguma, Mai Fukami, and Masanori Kontan	University of Toyama, Engineer, Tohshin Seiki Co., Ltd	Development of high speed torsional fatigue testing machine for multiple specimens
2.00 - 2.15 pm	B6.3	Sudi Mungkasi, Andreas Prasetyadi, Franciscus Asisi Rusdi Sambada	Sanata Dharma University	A Finite Volume Method for Water Hammer Problems
2.15 - 2.30 pm	B6.4	Takuma Matsuo and Shunsuke Ozono	Meiji University	Guided Wave Propagation in Wire Cable under Tensile Stress
2.30 - 2.45 pm	B6.5	Sugeng Waluyo, Nanang Gunawan Wariyatno	Jenderal Soedirman University	Stress Dependent Relaxation Time in Finite Strain Viscoelasticity
2.45 - 3.00 pm	B6.6	Hirokomikado, Shingo Kawamura and Noriyasu Oguma	University of Toyama, Machinery and Engineering Group, YKK Corp.	Behavior on generation and propagation of fatigue crack for WC-Co cemented carbides

### SESSION B7. Marine Engineering

**Chair : Yanuar**

Tuesday, 11 August 2015, 03.00 – 05.00 pm

Venue :Selaparang room

Time	No. ID	Authors	Affiliation	Title
3.30 - 3.45 pm	B7.1	Syafiuddin Sodikin, I Made Ariana, Sutopo Purwono Fitri	Sepuluh Nopember Technology of Institute, Surabaya	Ship Energy Efficiency Management Plan Implementation on Anchor Handling Tug Supply Vessel
3.45 - 4.00 pm	B7.2	Budiarto Subroto, Sri Rahardjo Suwito	Graduate School of Sahid University Jakarta, Indonesia	Marine Highway a Concept Toward an Efficient Shipping and Port Operation in an Archipelagic State
4.00 - 4.15 pm	B7.3	Sunaryo, Antoni Arif Priadi And Tri Tjahyono	University of Indonesia	Implementation Of Traffic Separation Scheme For Preventing Accident On Sunda Strait
4.15 - 4.30 pm	B7.4	Budiarto Subroto, Sri Rahardjo Suwito	Graduate School of Sahid University Jakarta, Indonesia	Determining the Competitive Position of the Indonesian Main Port of Tanjung Priok as Central Issue
4.30 - 4.45 pm	B7.5	Sri Rahardjo Suwito, Budiarto Subroto	Graduate School of Sahid University	Privatization on Captive Market Port: Will Customer Satisfy with Quality of Service?
4.45 - 5.00 pm	B7.6	I K A P Utama, M Nawawi, T Putranto, SH Sujiantanti	Institute of Technology Sepuluh Nopember	CFD Investigation into the Use of Inclined Keel on Fishing Vessels to Reduce Fuel Consumption

**SESSION B8. ICSERA + Refrigeration****Chair : Agus Pamitran**

Wednesday, 12 August 2015, 08.00 – 10.00 am

Venue :Selaparang room

Time	No. ID	Authors	Affiliation	Title
8.00 - 8.15 am	B8.1 (invite d)	Prof. Hwataik Han	Kookmin University	Past, Present, and Future of Building Energy in Korea
8.15 - 8.30 am				
8.30 - 8.45 am	B8.2	I Nyoman Suamir, I Nyoman Gede Baliarta, Made Ery Arsana	Bali State Polytechnic	Condenser - Evaporator Approach Temperatures and their Influences on Energy Performance of Water Cooled Chillers
8.45 - 9.00 am	B8.3	JoonAhn, Hyejun Kim,	Kookmin University	Thermal Comfort at a Residential House Air-conditioned by Hybrid Desiccant Cooling System
9.15 - 9.30 am	B8.4	Jiyeon Jung, Donghoon Shin, Tae-yung Chung and Suengsic Hwang	Kookmin university	A study on effect of process variation for residential SOFC system
9.30 - 9.45 am	B8.5	Young Soo Chang, Tae Hyun Kim and Byung Ha Kang	Kookmin university	Regeneration performance of liquid desiccant on the surface of a plate type heat exchanger
9.45 - 10.00 am	B8.6	Nasruddin, M. Idrus Alhamid, Budihardjo and Ratiko	University of Indonesia, National Nuclear Energy Agency of Indonesia (BATAN),	Contaminant dispersion analysis in interim storage for spent nuclear fuel building

**SESSION B9. ICSERA + Refrigeration**
**Chair: Nasruddin**

Wednesday, 12 August 2015, 10.30 – 12.00 am

Venue : Selaparang room

Time	No. ID	Authors	Affiliation	Title
10.30 - 10.45 am	B9.1 (invite d)	Normah Mohd-Ghazali	Universiti Teknologi Malaysia	Environmentally Friendly Thermoacoustics Refrigeration: The ory and Applications
10.45 - 11.00 am				
11.00 - 11.15 am	B9.2	I Gusti Agung Bagus Wirajati	Bali State Polytechnic	The Simulation Performance of Three-Bed Silica Gel Conventional Re-Heat Combined Adsorption Cycle
11.15 - 11.30 am	B9.3	Normah mohd-Ghazali,Liewkim Fa And Nor Atiqah Zolpakar	UniversitiTeknologi Malaysia,	End Effects of a Thermoacoustic Stack Plate on the Flow Pattem
11.30 - 11.45 am	B9.4	Normah Mohd-Ghazali,Shazwan Fitri Razali and Hishamuddin Jamaludin	UniversitiTeknologi Malaysia	Investigation of the Minimized Pressure Drop of Four Refrigerants in a Small Channel with Genetic Algorithm
11.45 - 12.00	B9.5	Hajime Yabase,Kiyoshi Saito and Arnas, M. Idrus Alhamid and Nasruddin	Waseda University, University of Indonesia	Performance of Solar Air-conditioning System in Indonesia

**SESSION B10. ICSERA + Refrigeration**
**Chair: M. Idrus Alhamid**

Wednesday, 12 August 2015, 1.00 – 3.00 pm

Venue : Selaparang room

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.15 pm	B10.1 (invite d)	Prof. Sangkwon Jeong	Korea Advanced Institute of Science and Technology	Amr(Active Magnetic Regenerative) Refrigeration For Low Temperature
1.15 - 1.30 pm				
1.30 - 1.45 pm	B10.2	Lemington, Nasruddin	Universitas Indonesia	Numerical Simulation of two-bed Solar Driven Adsorption Chiller Based on Indonesian Climate
1.45 - 2.00 pm	B10.3	Ardiyansyah Yatim, Adam Adiwinata	University of Indonesia, Heat International, De RITZ Bld 3A fl	Hydrocarbon Refrigerant Applications in Indonesia
2.15 - 2.30 pm	B10.4	S.A. Adam, A.S. Pamitran, Nasruddin, M.I. Alhamid	Universitas Indonesia	Observation on Two-Phase Flowboiling of R-290 in Horizontal Circular Tube
2.30 - 2.45 pm	B10.5	Kyoo-Whan KIM, PHAM Quang Vu ,Kwang-IICHOI , Jonng-TaekOH	Chonnam National University,	An experimental study of condensation heat transfer of R-410A inside small hydraulic diameter multiport aluminum tubes.
2.45 - 3.00 pm	B10.6	Kyoo-Whan Kim,Nguyen-Ba Chien, Kwang-II Choi and Jong-Taek Oh	Chonnam National University	Two Phase Frictional Pressure Drop of R410a During Evaporation Inside Aluminum Multiport Minichannels
3.00 – 3.15 pm	B10.7	Ir. Nasruddin, M.Eng, Hotdian Sinambela	Universitas Indonesia	Design And Experimental Study Of Air Conditioning System Using Blde Compressor In Molina(Mobil Listrik Nasional/ National Electric Car)

**SESSION B11. Fluid****Chair : Warjito**

Wednesday, 12 August 2015, 1.00 – 3.00 pm

Venue :Rinjani 1

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.15 pm	B10.1 (invited)	Prof. Sangkwon Jeong	Korea Advanced Institute of Science and Technology	Amr(Active Magnetic Regenerative) Refrigeration For Low Temperature
1.15 - 1.30 pm				
1.30 - 1.45 pm	B11.1	Dedih Sapjah, Gunawan, Yanuar	Universitas Indonesia	Drag reduction of silica sand flowing in spiral pipe by varying ratio of pitch and diameter
1.45 - 2.00 pm	B11.2	Y B Lukiyanto	Sanata Dharma University, Yogyakarta	Double U Pipe Configuration of Centifugal Reaction Pump for Wind Pumping
2.15 - 2.30 pm	B11.3	Budiarso, Ahmad Indra Siswantara, Reza Dianofitra	Faculty of Engineering, Universitas Indonesia	Hydraulic Openflume Turbine Blade Angle Optimization with Numerical Method
2.30 - 2.45 pm	B11.4	PraptiMahandari Cokorda, Mohamad Yamin	Gunadarma University	Oil Spill in the Form of Tar Ball
2.45 - 3.00 pm	B11.5	Mirmanto	Mataram University	Local Pressure Measurements of Flow Boiling in a Microchannel

**SESSION B12. Fluid****Chair : Budiarso**

Wednesday, 12 August 2015, 3.00 – 4.45 pm

Venue :Rinjani 1

Time	No. ID	Authors	Affiliation	Title
3.30 - 3.45 pm	B12.1	Andrian Wicaksono, Warjito	Universitas Indonesia	Looped Gas Pipe Network Optimization using Genetic Algorithm
3.45 - 4.00 pm	B12.2	Harinaldi, Warjito, Manus Setyantono, and Antonio Nathan Bulangan Marpaung	Universitas Indonesia	Characteristics of Small-Bubble Generation by Single-Nozzle in Reagent and non-Reagent Liquid with Flow-Rate as Variant at Flotation System
4.00 - 4.15 pm	B12.3	Ahmad Indra Siswantara, Steven Darmawana, Asyari Daryus	University of Indonesia, University of Tarumanagara, Darma Persada University	Performance Analysis of Auxiliary Turbine of Proto X-3 Bioenergy Micro Gas Turbine
4.15 - 4.30 pm	B12.4	Adi Surjosatyo, Sigit Prasetyo N	Universitas Indonesia	Gasification Application Study On Ceramic And Pottery Industry: Flame Patten Study On Percentage Mixture Of Rice Husk And Coconut Shell As Fuel In A Downdraft Gasification System
4.30 - 4.45 pm	B12.5	Harinaldi, Budiarso James, Depri	Universitas Indonesia	Experimental Study Of A Plasma Actuators Utilization As One Of An Active Flow Control Method To Velocity Characteristics Profile On A Quiet Flow
4.45 – 5.00 pm	B12.6	Warjito, Harinaldi, Manus Setyantono, Sahala David Siregar	Universitas Indonesia	Characteristic of Small Bubble Generated by Single Nozzle on Flotation Process

**SESSION B13. Energy Conversion**

**Chair :I Made Kartika Dhiputra**

Wednesday, 12 August 2015, 1.00 – 3.00 pm

Venue :Rinjani 2

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.15 pm	B13.1	Sholahudin, Azimil Gani Alam, Chang-In Baek	Kookmin University	Heating Load Prediction Using Neural Network Method
1.15 - 1.30 pm	B13.2	Stefan Mardikus, Vinsensius Tiara Putra	Sanata Dharma University	Analysis Of Heat Transfer For Fin And Circular Tube Heat Exchanger Using Combined Vortex Generators
1.30 - 1.45 pm	B13.3	Syaiful, Widayat, Myung whan Bae	UNDIP, Gyeongsang National University	Performance and Smoke Emission Characteristics of Direct Injection Diesel Engine with Cooled and Hot EGR Systems Fueled by Diesel Fuel, Jatropa Oil and Wet Methanol Blends
1.45 - 2.00 pm	B13.4	Syahrul, Sukmawaty	University Mataram	Effect of Inlet Air Velocity in Desorption Characteristics of Sorption Material in Fluidized Bed with a Heating Pipe
2.15 - 2.30 pm	B13.5	Tutik Sriani	Universitas Muhammadiyah Yogyakarta	Waste Cooking Palm Oil: From Trash to Energy
2.30 - 2.45 pm	B13.7	Ahmad Syuhada ,Zahrul Fuadi, and Muhammad Ilham Maulana	Syiah Kuala University	Analysis of Wind Energy Potential for Agriculture Pump in Mountain Area Aceh Besar
2.45 - 3.00 pm	B15.2	Zahrul Fuadi, Koshi Adachi, Takanori Takeno	Syiah Kuala University	Tribological Behavior of Amorphous Carbon Coated Stainless Steel under Palm Methyl Ester Contained Diesel Oil
3.00 – 3.15 pm	B13.8	I Made Kartika Dhiputra, Ahmad Syihan Auzani and Mokhamad Is Subekti	Universitas Indonesia	Magnetic Field Variation Effects on LPG Diffusion Flame Characteristics

**SESSION B14. Energy Conversion**

**Chair : Nasruddin**

Wednesday, 12 August 2015, 3.30 – 5.00 pm

Venue :Rinjani 2

Time	No. ID	Authors	Affiliation	Title
3.30 - 3.45 pm	B14.1	Chonggun Choi, Woo Sung Choi, Tae-yong Chung, Seungsic Hwang, Donghoon Shin	Kookmin university	Effect Of Position And Direction Of Secondary Air On No Reduction
3.45 - 4.00 pm	B14.2	A Prasetyadi, Dian Artanto, Doddy Purwadianta, Rusdi Sambada	Universitas Sanata Dharma	Solar Tracker For Vertical Solar Distillation Apparatus
4.00 - 4.15 pm	B14.3	I Made Kartika Dhiputra, Ridho Ernandi	Faculty of Engineering, Universitas Indonesia	Analysis of Experimental Flame Stability on LPG Fuel on Bunsen Burner Modified with Variation Length of Barrel and Swirling Fan
4.15 - 4.30 pm	B14.4	I Kade Wiratama, I Nyoman w Satiawan,	Mataram University	Optimisation of Distribution Microtabs on Re-Design Blade Wind Turbine AWT-27
4.30 - 4.45 pm	B14.5	Bambang Sugiarto, Setia Abikusna and Dedi Suntuoro	University of Indonesia, Astra Manufacturing of Polytechnic	Optimization Of Low-Grade Bioethanolcompact Distillator Using Waste Heat Motorcycle
4.45 - 5.00 pm	B14.6	I Made Kartika Dhiputra, Johni Jonatan Numberi, Mario Melsadakh Bill Maryunan Christ, Arifia Ekayuliana	Universitas Indonesia	Oscillation Phenomenon in Laminar Jet Flame in Combustion of Metroxylon sago Dregs

**SESSION B15. Poster Session for Mechanical and Marine Engineering****Chair :**

Tuesday, 11 August 2015, 10.00 - 10.30 am; 12.00 -1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue :Pre-Function Hall

Time	No. ID	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 -1.00pm; 3.00- 3.30pm; 5.00-7.00pm	B15.1	Syahrul, Sukmawaty	University Mataram, Indonesia	A preliminary study of a new fluidized bed drying system for com material
	B15.2	Sigit Tri Atmaja , Yaaro Telaumbanua , Djoko Anggraito Nursigit, Heru Priyanto	BTMP-BPPT Serpong	Development Of Engine Simulator For Single Cylinder Common Rail Diesel Engine
	B15.3	Didik Sugiyanto	University 17 Agustus 1945 Jakarta	Analysis on Tearing Defect Simulation of The results of Oil Body Filters Production by Using Abaqus CAE program
	B15.4	Donghwa Lee, Chonggun Choi, Tæ-yong Chung, Seungsic Hwang, DonghoonShin	kookmin univ. newenergy lab	Visualization of OH radical in furnace having characteristics of flameless combustion by inversely injected air
	B15.5	wojin kim, Chonggun Choi, DonghoonShin, Seungsic Hwang, Tæ-yong Chung	kookmin univ, korea.	An experimental study on the optimization of LPG reforming reaction utilizing flameless combustion technology
	B15.6	Hiroki Mano, Mitsuo Notomi	Meiji University	The New Design for Measuring Transmission Rate and Storage Amount of Hydrogen Permeable Membranes'
	B15.7	Naohiro Okubo, Hiromu Ishii, Mitsuo Notomi	Meiji University	The Study of Variant Selection for Shape Memory Effect on Fe-Mn-Si Based Alloy with EBSD
	B15.8	Suprianto, Tugiman, Chandra Andrika, Nursuci Ade, Hiroshi Asanuma	University of Sumatera Utara	Characteristics Of Metal Matrix Composites Reinforced With Palm Oil Fly Ash Fabricated By Using Stir Casting And Centrifugal Casting Methods
	B15.9	Yutaro Suzuki, Junko Hieda, Naoto Ohtake, Hiroki Akasaka	Tokyo Inst. of Tech.,	Mechanical Properties Of Amorphous Carbon Films Deposited from Carbon Stable Isotope Materials
	B15.10	J. Hieda, M. Niinomi, M. Nakai, K. Cho	Tohoku University	Evaluation Of Adhesivestrength Between Ti-29nb-13ta-4.6zr Alloy And Sol-Gel Fabricated hydroxyapatite Films
	B15.11	Ruben Septianus, Murugesan Jayaprakash, Yukio Miyashita, Testuri Yamada, Kiyoshi Shirato	Nagaoka University of Technology	Adhesion Behavior of Mechanically Joined Parts of Aluminum Alloys



**SESSION B16. Poster Session for Mechanical and Marine Engineering**

**Chair :**

Wednesday , 12 August 2015, 10.00 - 10.30 am; 12.00 -1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue :Pre-Function Hall

Time	No. ID	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 -1.00pm; 3.00- 3.30pm; 5.00-7.00pm	B16.1	Naoki Maeda, Mitsuo Notomi	Meiji University	Development for Hydrogen Storage Mg-Ti Solid Solution by Mechanical Alloying
	B16.2	Hiroaki Ishii, Takuma Matsuo	Meiji University	Development of Damage Detection Technique for Sheet-type Lithium-Ion Batteries Using Acoustic Emissions
	B16.3	Yudai Yasumoto, Hikaru Masui, Mitsuo Notomi	Meiji University	Impact Resistance of the Glasses installed Nano-Laminated Film and Aramid Fiber Cloth
	B16.4	Hironu Ishii, Naohiro Okubo, Mitsuo Notomi	Meiji University	Influence of Annealing on Shape Memory Property in Fe-Mn-Si Based Alloy
	B16.5	Masaaki Otsu, Wei Jiang, Takayuki Muranaka, Ryo Matsumoto, Masato Okada	University of Fukui, Osaka University	Friction Stir Incremental Forming of Aluminum Alloy Sheets with Back Support Die
	B16.6	Shunsuke Watanabe, Mitsuo Notomi	Department of Mechanical Engineering, Ditto	The development of Cu-Sn Alloy with Mechanical Alloying
	B16.7	Makoto Nikawa, Hiroki Mori, Yuki Kitagawa, Masato Okada	Gifu University, University of Fukui	Fem Simulation For Two-Dimension Cutting Of Titanium-Alloy
	B16.8	Jumpei Nishikawa, Masayuki Nakano, Junko Hieda, Naoto Ohtake, Hiroki Akasaka	Tokyo Institute of Technology	Corrosion Resistance Of Si-Doped Amorphous Carbon Films Against Nitric Acid
	B16.9	Kazuyuki Furuya, Fumio Takeo, Hiroshi Yokoyama, Tomoharu Akagaki	Hachinohe National College of Technology	Tensile And Fatigue Behaviors For Lip-Seal Welds Of Liquid Lithium Pipes At Elevated Temperature
	B16.10	Fumio Takeo, Kazuyuki Furuya, Michitoshi Toyota, Hiroki Naomachi, Daiki Yamada, Syogo Sasaki, Tomoharu Akagaki, Hitoshi Soyama	Hachinohe National College of Technology	Effect Of Local Plastic Processing on Fatigue Strength of Steel Plate with a Hole
B13.6	Zainuddin Sajuri, Noradila Abdul Latif, Junaidi Syarif, Yukio Miyashita and Yoshiharu Mutoh	Universiti Kebangsaan Malaysia,	Elastic-Plastic Fracture Toughness Of Extruded Mg-Al-Zn Alloys	

## SYMPOSIUM C: ELECTRICAL AND COMPUTER ENGINEERING

### SESSION C1. EMWave: Radar, Antenna

Chair : Prof. Dr. Ir. Djoko Hartanto, M.Sc and Dr. Ir. Muhammad Asvial, M.Eng

Tuesday, 11 August 2015, 1.00 - 3.15 pm

Venue: Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	C1.1 (Invited)	Prof. Josaphat Tetuko Sri Sumantyo, PhD	Chiba University	Development of Microsatellites for Profiling Lithosphere & Atmosphere Characteristics to Support Human Life and Sustainable Environment
1.30 - 2.00 pm	C1.2 (Invited)	Prof. Michiharu Tabe	Shizuoka University	Recent Progress In Single-Dopant Atom Devices
2.00 - 2.15 pm	C1.3	Nur Aeni, Heroe Wijanto and Agus Dwi Prasetyo	Universitas Telkom	Design And Realization Chip Generator For Synthetic Aperture Radar (SAR)
2.15 - 2.30 pm	C1.4	Yomi Guno, Basari, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo	Universitas Indonesia	Microstrip Antenna Implementation On Small UAV
2.30 - 2.45 pm	C1.5	Rudy Yuwono, Erni Yudaningsy, Endah Budi Purnomowati, Gezadio Dhuha Sand Faisal Ramadhan	Universitas Brawijaya	The Additional Ellipse Shape on Star Patch microstrip antenna For uwb With Dual Band operating Frequency Of (1.759 Ghz-3.237 GHz) And (4.451 GHz-5.992 GHz)
2.45 - 3.00 pm	C1.6	Meta Herawati Haliem, Heroe Wijanto and Bambang Setia Nugroho	Universitas Telkom	Correction Of Radiation Pattern Measurement In Non-Anechoic Chamber At Frequency Range Of 2 To 3 GHz Using FFT -Based Method
3.00 - 3.15 pm	C1.7	Masaaki Nagatsu, Anchu Viswan, Enbo Yang, Ru Hui, Shubin Yang, Masaaki Nagatsu, Han Chou, Mihai A. Ciolan, Ru Hui, Shubin Yang, and Wang Xiangke	Shizuoka University	Plasma Surface Modification of Graphite-encapsulated Metal Nanoparticles Fabricated by DC Arc Discharge

### SESSION C2. EMWave: Antenna, Microwave Propagations/Circuits

Chair : Dr. Basari, M.Eng and Rudy Yuwono, S.T., M.Sc.

Tuesday, 11 August 2015, 3.30 - 5.00 pm

Venue: Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	C9.1	Basari, Arwan Priatna, Eko Tjipto Rahardjo and Fitri Yuli Zulkifli	Universitas Indonesia	Design Of RF Birdcage Coil Without Lumped Elements For MRI 3T System
3.45 - 4.00 pm	C2.2	Anggit Dwi Novella, Heroe Wijanto and Agus Dwi Prasetyo	Universitas Telkom	Dual-Feed Circularly Polarized Microstrip Antenna For S-Band Transmitter Of Synthetic Aperture Radar (Sar) System
4.00 - 4.15 m	C2.3	Nurul Hidayah, Heroe Wijanto and Agus Dwi Prasetyo	Universitas Telkom	Design And Realization Of Antenna Deployment Uhf For Ttc Downlink Application With Nanosatellite Structure As Groundplane
4.15 - 4.30 pm	C2.4	Erni Yudaningsy, Rudy Yuwono, Endah Budi Purnomowati, Gezadio Dhuha S, Faisal Ramadhan	Universitas Brawijaya	Star Patch Microstrip Antenna For Operating Frequency At 1.924 Ghz-3.009 Ghz
4.30 - 4.45 pm	C2.5	Ratih T. Prodoningrum, Heroe Wijanto and Agus D. Prasetyo	Universitas Telkom	Antenna Deployment For Automatic Packet Reporting System Of Nanosatellite Using Global Positioning System As A Height Sensor
4.45 - 5.00 pm	C2.6	Septian Wahyu Kusuma Wardhani, Basari, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo	Universitas Indonesia	Effect Of Human Head Phantom Models On The Performance Of Antennas In Ultra Wide-Band Frequency

**SESSION C3. ELECTRONICS AND SENSORS : Nano Materials, Sensor**

**Chair : Prof. Dr. Ir. Nji Raden Poespawati, MT and Prof. Yoshimasa Kawata**

Tuesday, 11 August 2015, 1.00 - 3.15 pm

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	<b>Invited Speaker Session in Gili Air Venue (Lombok Raya Hotel)</b>			
1.30 - 2.00 pm				
2.00 - 2.15 pm	C3.1	Tomy Abuzairi, Mitsuru Okada, Yohei Mochizuki, Masaaki Nagatsu, Nji Raden Poespawati <sup>2</sup> and Retno Wigajatri Purnamaningsih	Shizuoka University	Atmospheric Pressure Plasma Functionalization Of Carbon Nanotube Dot-Array With Two-Stage Plasma Treatments For The Development Of Bio-Chip Sensors
2.15 - 2.30 pm	C3.2	Yoshimasa Kawata, Taiki Nagashima and Wataru Inami	Shizuoka University	Optically Controllable Electrophoresis With A Photoconductive Substrate
2.30 - 2.45 pm	C3.3	Mochammad Rif'an, Nanang Sulistiyanto and Onny Setyawati	Universitas Brawijaya	Detection Of Tropical Tubers Using A Capacitive Sensor
2.45 - 3.00 pm	C3.4	Jun Kondoh and Noriyuki Ohashi	Shizuoka University	Measurements Of Blood Coagulation Using Digital Micro-Fluidic System Based On Surface Acoustic Wave Devices
3.00 - 3.15 pm	C3.5	Agus Naba, Muhammad Fadlil Khoironi and DJ Djoko Hery Santjojo	Universitas Brawijaya	Low Cost But Accurate Ultrasonic Distance Measurement Using Combined Method Of Threshold-Correlation

**SESSION C4. ELECTRONICS AND SENSORS : Sensor, Nano Electronics Devices**

**Chair : Prof. Dr. Hiroshi Inokawa and Dr. Eng. Arief Udhiarto, ST, MT.**

Tuesday, 11 August 2015, 3.30 - 5.00 pm

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	C4.1	Hiroshi Inokawa, Daiki Yamasaki and Hiroaki Satoh	Shizuoka University	Characterization Of Single-Electron Transistor At High Frequency
3.45 - 4.00 pm	C4.2	Ratno Nuryadi, Rina Dewi Mayasari, Lia Aprilia and Brian Yulianto	BPPT	Fabrication Of ZnO/Au/Prism-Based Surface Plasmon Resonance Device For Gas Detection
4.00 - 4.15 m	C4.3	Sang-Bum Kang, Chang-Ju Lee, Chul-Ho Won, Yi-Sak Koo, Jung-Hee Lee, Sung-Ho Hahm, Seul-Ki Hong and Byung-Jin Cho	Kyungpook National University	Double-Wavelength Sensitive Algan/Gan MISIM UV Sensor Using Multi-Layer Graphene As Schottky Electrodes
4.15 - 4.30 pm	C4.4	Ponky Ivo		Types Of Degradation Modes Of Algan/Gan High Electron Mobility Transistors (Hemts) In Dependence On Epitaxial Design And Buffer Quality
4.30 - 4.45 pm	C4.5	Hidenori Mimura, Yoichiro Neo, Toru Aoki and Takahiro Matsumoto	Shizuoka University	High Quantum Efficiency Photocathode Using Surface Plasmon Resonance
4.45 - 5.00 pm	C4.6	Anak Agung Ngurah Gde Sapteka, S. Purwiyanti, A. Udhiarto, H. Sudiby, D. Hartanto, H.N. Tan, R. Unno, D. Moraru and M. Tabe	Universitas Indonesia	I-V Characteristics Of Highly-Doped P-I-N Diodes

**SESSION C5. Poster Session for Electrical and Computer Engineering****Chair: Dr. Ajib Setyo Arifin**

Tuesday, 11 August 2015, 10.00 - 10.30 am; 12.00 - 1.00 pm; 3.00 - 3.30 pm; 5.00-7.00 pm

Venue : Pre-Function Hall

Time	No	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00 pm; 3.00 - 3.30 pm; 5.00 - 7.00 pm	C5.1	Ferry Fachrizal, Darmeli Nasution, T.Henny Febriana Harumy and Julham	Universitas Pembangunan Pancabudi Medan	Neural Network Priority Assessment Derivative Products Aluminium For Optimizing Downstream In Developing Local Economy (PT.INALUM)
	C5.2	Desi Marlina and Tony Haryanto	STSN	Security In Digital Evidence: Implementation Visual Cryptography Scheme
	C5.3	Prima Dewi Purnamasari and Gandhi Arségi	Universitas Indonesia	Analysis Of Indoor Sensor Monitoring System Based On Intel Galileo And Thingspeak Web-Service
	C5.4	Rini Wisnu Wardhani and Arga Dhahana Pramudianto	National Crypto Institute	Openvpn – Nci On Single Board Computer (SBC) Raspberry Pi Model B+: A Stream Cipher Implementation On Personal Vpn Gateway Device
	C5.5	A. R. Utomo, F. Husnayain and PS. Priambodo	Universitas Indonesia	An Enhanced Analysis Of Lead-Acid Battery Operasional Based On Peukert™ Formula
	C5.6	Dewanto Indra Krisnadi, Rudy Setiabudy and Iwa Garniwa	Institut Teknologi Bandung	Monitoring Dissolved Gas At Transformer
	C5.7	Fahmi Rismawan Subarkah, S.S.T. TP and Magfirawaty .M.Si	Lembaga Sandi Negara	The Implementation Of T-020 Block Cipher Algorithm And Dongle Design On Field Programmable Array (FPGA)
	C5.8	Achmad Munir, Teguh Praludi	Institut Teknologi Bandung	Characteristic of Narrowband Hairpin BPF as Influence of Number of Its Elements

**SESSION C6. COMPUTER: Computer Science**

**Chair : Prof. Dr. Ir. Riri Fitri Sari, M.Sc., MM. and Teguh Bharata Adji, ST., MT., M.Eng., Ph.D**

Wednesday, 12 August 2015, 8.00 - 10.15 am

Venue : Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
8.00 - 8.15 am	C6.1	KZ Widhia Oktoeberza, Hanung Adi Nugroho and Teguh Bharata Adji	Universitas Gajah Mada	Comparative Study On Feature Selection And Classification Techniques For Diagnosis Of Heart Disease
8.15 - 8.30 am	C6.2	Misbahuddin and Riri Fitri Sari	Universitas Indonesia	Bayesian Mixture Model For Prediction Of Bus Arrival Time
8.30 - 8.45 am	C6.3	Anan Nugroho, Hanung Adi Nugroho and Lina Choridah	Universitas Gadjah Mada	Thyroid Nodule Segmentation Using Active Contour Bilateral Filtering on Ultrasound Images
8.45 - 9.00 am	C6.4	Prima Dewi Purnamasari, Puja Romulus, Yan Maraden and Anak Agung Putri Ratna	Universitas Indonesia	An Analysis Of Optical Character Recognition Implementation For Batak Ancient Characters Using K-Nearest Neighbour Principle.
9.00 - 9.15 am	C6.5	Tri Astuti, Hanung Adi Nugroho and Teguh Bharata Adji	STMIK Amikom Purwokerto	The Impact Of Different Fold For Cross Validation Of Missing Values Imputation Method On Hepatitis Dataset
9.15 - 9.30 am	C6.6	Magfirawaty, Suryadi and Kalamullah Ramli	Universitas Indonesia	On The Design Of True Random Number Generator Using Ring Oscillators and Chaotic System as Post-Processing
9.30 - 9.45 am	C6.7	Annisa Maulida Ningtyas, Teguh Bharata Adji and Silmi Fauziati	Universitas Gadjah Mada	The Influence Of Lexicon Mapping To Accuracy Improvement On Sentiment Analysis
9.45 - 10.00 am	C6.8	Bisyron Wahyudi Masduki, Kalamullah Ramli, Ferry Astika Saputra and Dedy Sugiarto	Universitas Indonesia	Study On Implementation Of Machine Learning Methods Combination For Improving Attacks Detection Accuracy On Intrusion Detection System (IDS)
10.00 - 10.15 am	C6.9	Zarka Lazuardi Putera, Bambang Hidayat, Nur Andini	Universitas Telkom	Remote Sensing Image Compression Using Dual Tree Complex Wavelet Transform In JPEG2000

**SESSION C7. COMPUTER: Computer Science, Computer App**

**Chair : Prima Dewi Purnamasari, ST, MT, M.Sc and Zulkifli Tahir, ST, M.Sc**

Wednesday, 12 August 2015, 10.30 am - 12.15 pm

Venue : Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
10.30 - 10.45 am	C7.1	Yohan Suryanto, Suryadi and Kalamullah Ramli	Universitas Indonesia	Chaos Properties of the Chaotic Permutation Generated by Multi Circular Shrinking and Expanding Movement
10.45 - 11.00 am	C7.2	Aswandi, S.Kom., M.Kom and Leni Marlina, S.Kom., M.Kom	Politeknik Negeri Lhokseumawe	The Effect Of Blog As A Learning Media For Muhammadiyah School Of Lhokseumawe City
11.00 - 11.15 am	C7.3	Asril Jarin, Kalamullah Ramli and Suryadi	Universitas Indonesia	Analytic Model Of Sentence Streaming Using TCP For Speech Recognition
11.15 - 11.30 am	C7.4	Zulkifli Tahir, Tsutomu Inamoto, Yoshinobu Higami and Shinya Kobayashi	Universitas Hasanuddin	An Automated HTML5 Offline Services (AHOS) A Case Study Of Web-Based Maintenance DSS In Smis
11.30 - 11.45 am	C7.5	Anak Agung Putri Ratna, Ilyas Taufiqurrohman, Ardiansyah, Boma Anantasatya Adhi and Dewi Purnamasari	Universitas Indonesia	Comparison Of OSSEC, Suricata, And Honeyd On Network Security System
11.45 am - 12.00 pm	C7.6	Desi Marlina and Bondan Estuwira S	STSN	Implementation Hash on Android Smartphone To Provide Digital Image Data Integrity
12.00 - 12.15 pm	C7.7	Achmad Munir and Edwar	Institut Teknologi Bandung	Computational Approach for Resonant Frequency Calculation of Coaxial Cavity Resonator Using Cylindrical Coordinate System-based FDTD Method

**SESSION C8. COMPUTER: Digital Image Processing****Chair : Hanung Adi Nugroho S.T., M. Eng., Ph.D and I Gede Pasek Suta Wijaya, S.T., M.T., D.Eng.**

Wednesday, 12 August 2015, 1.00 - 3.15 pm

Venue: Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	C8.1 (Invited)	Prof. Dr. Miora Manda	Centre National d'Etudes Spatiales, France	Contributions of Electrical Engineering on Future Geomagnetism
1.30 - 1.45 pm	C8.2	Nur Afny C. Andryan, Dodi Sudiana and Dadang Gunawan	Universitas Indonesia	Progress On Image Reconstruction Methods For Electrical Capacitance Based Tomography
1.45 - 2.00 pm	C8.3	Faisal Najamuddin, Hendra Marcos and Hanung Adi Nugroho	Universitas Gajah Mada	Rule Selection Based Using Rough Set Theory For Diagnosis Of Breast Cancer On Digital Mammogram Images
2.15 - 2.30 pm	C8.4	I Gede Pasek Suta Wijaya, IBK Widiartha, Keiichi Uchimura and Gou Koutaki	Universitas Mataram	Pornographic Image Rejection Using Eigenpom Feature Of Skin Rois Images
2.30 - 2.45 pm	C8.5	Prima Dewi Purnamasari, Jodhi Adhikaprana Sardjono, and Dean Zaka Hidayat	Universitas Indonesia	Color Code: An Innovative And Attractive Way To Differentiate Products
2.45 - 3.00 pm	C8.6	Febri Maspiyanti, Febri Maspiyanti and Aniat Murni Arymurthy	Universitas Pancasila	Paddy Growth Stages Classification Based On Hyperspectral Image Using Feature Selection Approach
3.00 - 3.15 pm	C8.7	Ibrahim Syuaib, Muhamad Asvial, Eko Tjipto Rahardjo	Universitas Indonesia	Ultra-Long Span Optical Transmission Using Bidirectional Raman Amplification

**SESSION C9. EMWave: Microwave Propagation/Circuits , Electromagnetism, Photonics Propagation****Chair : Prof. Dr.-Ing. Mudrik Alaydrus and Dr. rer. nat Teti Zubaidah, ST., MT.**

Wednesday, 12 August 2015, 3.30 - 5.00 pm

Venue: Gili Air (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	C2.1	Muhammad Fauzan Edy Pumomo, Rudy Yuwono and Basari	Universitas Brawijaya	The Effect Of Stub-Fed Equilateral Triangular Microstrip Patch Antenna For Mobile Satellite Communications
3.45 - 4.00 pm	C9.2	Said Attamimi, Subiyanto, and Mudrik Alaydrus	Universitas Mercu Buana	Designing Dual-Band Pass Filter By Coupled Resonators
4.00 - 4.15 m	C9.3	Denek Bini Tindih Ringubaya, Teti Zubaidah, and Agung Budi Muljono	Universitas Mataram	Factual Electromagnetic Field Exposure Under 150 Kv Power Transmission Line, Nusra Ii, Lombok
4.15 - 4.30 pm	C9.4	Bulkis Kanata, Teti Zubaidah	Universitas Mataram	Quiet Time Localization Of Geomagnetic Data For Japanese Regions
4.30 - 4.45 pm	C9.5	Ucuk Darusalam, Purnomo Sidi Priambodo and Eko Tjipto Rahardjo	Universitas Indonesia	Noise Suppression In Signal Spectral Of FSOC Induced By Turbulences Media
4.45 - 5.00 pm	C9.6	Made Sutha Yadnya and I Wayan Sudiarta	Universitas Mataram	Simulation Propagation Of Satellite Mobile Communications In Urban And Rural Areas Impact Rain Conditions

**SESSION C10. ENERGY: System**

**Chair : Prof. Ir. Rudy Setiabudy, M.Sc., Ph.D and Prof. Dr. Ir. Iwa Garniwa M K, MT.**

Wednesday, 12 August 2015, 8.00 - 10.00 am

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
8.00 - 8.15 am	C10.1	W. G. Ariastina, I N. S. Kumara, C. G. Indra Partha, I G. Dyana Arjana, I W. Arta Wijaya, A. A. N. Amrita, and I. A. D. Giriantari	Universitas Udayana	Frequency Response Measurement Of A Power Transformer
8.15 - 8.30 am	C10.2	I Made Wartana	Institut Teknologi Nasional Malang	A Multi-Objective Problems For Optimal Integration Of The Dg To The Grid Using The Nsga-Ii
8.30 - 8.45 am	C10.3	Henry Pariaman, Iwa Garniwa, Isti Surjandari, and Bambang Sugiarto	Universitas Indonesia	The Integrated Methodological Development Of Reliability, Risk And Condition -Based Maintenance In The Improvement Of The Thermal Power Plant Availability
8.45 - 9.00 am	C10.4	Isworo Pujotomo, and Retno Aita Diantari	Sekolah Tinggi Teknik- PLN	Dense Medium Cyclone Technology To Improve Quality Of Coal
9.00 - 9.15 am	C10.5	Nurul Hiron, Asep Andang, and Husni Mubarak	Universitas Siliwangi	Energy Information System (Eis) As Energy Mix Projections With Trend Analysis Approach For The Scenario Achievement Of The National Energy Policy In 2025
9.15 - 9.30 am	C10.6	Faiz Husnayain, M. Latif, and I. Garniwa	Universitas Indonesia	Transformer Oil Lifetime Prediction Using The Arrhenius Law Based On Physical And Electrical Characteristics
9.30 - 9.45 am	C10.7	Hartono BS, Rudy Setyabudy, Eko Adhi Setiawan, and Budiyanto	Politeknik Negeri Bandung Indonesia	Development Method For Paralleling Inverters On Microgrid When Islanding Condition Using Reconfiguration Of Pv Circuit
9.45 - 10.00 am	C10.8	Rudy Setyabudy, Hartono BS, and Budiyanto	Universitas Indonesia	Development Energy Management Strategy To Optimize Battery Operation In Islanding Microgrid Using Zero One Integer Programming

**SESSION C11. ENERGY: Renewable**

**Chair : Dr.-Ing. Eko Adhi Setiawan, S.T., MT. and Ir. Isworo Pujotomo, MT.**

Wednesday, 12 August 2015, 10.30 am - 12.00 pm

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
10.30 - 10.45 am	C11.1	Retno Aita Diantari and Isworo Pujotomo	Sekolah Tinggi Teknik PLN	Solar PV Power Plant Design For Optimal Production Of Electrical Energy
10.45 - 11.00 am	C11.7	Syahril Ardi, Mada Jimmy, Rian Agustono	Politeknik Manufaktur Astra	Design Of Pokayoke Sensor Systems In Engraving Machine To Overcome Upside Defect Production Using Programmable Logic Controller
11.00 - 11.15 am	C11.8	Cahya Edi Santosa and Achmad Munir	Center for Aeronautics Technology, National Institute of Aeronautics and Space (Lapan)	Interdigital Capacitor Structure-Based Conformal Traveling Wave Active Antenna For Experimental Rocket Communication
11.15 - 11.30 am	C11.4	Nor Zaihar Yahaya, Yee Kang Yung, Balbir S Mahinder Singh	Universiti Teknologi Petronas	Development Of Wireless Charging For Mobile Application Using PV Module
11.30 - 11.45 am	C11.5	Luh Krisnawati, Rudy Setiabudy, Eko Adhi Setiawan	Universitas Indonesia	The Application Of Feeds In Tariff On Renewable Energy Markets In Indonesia To Support The Achievement Of The Planned Energy Mix
11.45 am - 12.00 pm	C11.6	Heri Suyanto	Sekolah Tinggi Teknik PLN	The Causes and Countermeasures of Power Loss of Photovoltaic Modules



**SESSION C12. ELECTRONICS AND SENSORS : Nano Electronics Devices, Electronics Circuits****Chair : Dr. Daniel Moraru and Dr. Ratno Nuryadi, M. Eng.**

Wednesday, 12 August 2015, 1.00 - 3.15 pm

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
<b>1.00 - 1.30 pm</b>	<b>Invited Speaker in Gili Air Venue (Lombok Raya Hotel)</b>			
1.30 -1.45 pm	C12.1	Daniel Moraru, Krzysztof Tyszka, Yuki Takasu, Arup Samanta, Takeshi Mizuno, Ryszard Jablonski, and Michiharu Tabe	Shizuoka University	Physics Of Strongly-Coupled Dopant-Atoms In Nanodevices
1.45 - 2.00 pm	C12.2	Arief Udhiarto, Yefa Sister, Sandia Rini, Muhammad Asvial, Badrul Munir	Universitas Indonesia	Effect Of Hole Transport Layer And Electron Transport Layer On The Performance Of A Single Emissive Layer Organic Light Emitting Diode
2.15 - 2.30 pm	C12.3	Yoichiro Nakanishi, Hiroko Kominami and Kazuhiko Hara	Shizuoka University	Preparation Of SrGa <sub>2</sub> S <sub>4</sub> :Eu Thin Film Phosphors For LED Lighting By Laser Annealing
2.30 - 2.45 pm	C12.4	Catherine Olivia Sreati, Trio Adiono, Adang Suwandi Ahmad, and Arwin Datumaya Wahyudi Sumari	Institut Teknologi Bandung	Study Of Information Fusion Methodology And Knowledge Growing System Algorithm To Design Cognitive Processor
2.45 - 3.00 pm	C12.5	Nanang Sulistiyanto, Mochammad Rif'an, and Onny Setyawati	Universitas Brawijaya	Design And Prototype Of LED Driver Based On The Buck Converter Using A FPGA Module
3.00 - 3.15 pm	C12.6	Muhamad Asvial, Anak Agung Sagung Paramitha M.P	Universitas Indonesia	Analysis of High Order Dispersion and Non Linear Effects in Fiber Optic Transmission with Non Linear Schrodinger Equation model

**SESSION C13. Electronics and Sensors: Photonics Devices – TELECOMMUNICATION: Wireless****Chair : Dr. Muhammad Suryanegara, ST, M.Sc**

Wednesday, 12 August 2015, 3.30 - 5.00 pm

Venue: Gili Meno (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	C13.1	Purnomo Sidi Priambodo, Sasono Rahardjo, Gunawan Witjaksono, and Djoko Hartanto	Universitas Indonesia	Optimizing Coupling Region As Sensing Area In Optical Ring Resonator Sensor Applications
3.45 - 4.00 pm	C13.2	Lia Aprilia, Ratno Nuryadi, Rina Dewi Mayasari, Dwi Gustiono, Masmui, Jarot Raharjo, Yelvia Deni, Brian Yulianto, Muhammad Iqbal, and Djoko Hartanto	BPPT	Growth Of Zinc Oxide Sensitive Layer On Microcantilever Surface For Gas Sensor Application
4.00 - 4.15 m	C13.3	Dedy Septono Catur Putranto, Rini Wisnu Wardhani, Hiroaki Satoh, Atsushi Ono, Hiroshi Inokawa, Purnomo Sidi Priambodo, Djoko Hartanto, Kazuhiko Endo, and Meishoku Masahara	National Crypto Institute	Single Photon Detection By Fin-Type Field-Effect Transistors
4.15 - 4.30 pm	C13.4	Syahfrizal Tahcfullloh, and Fransiscus Sonda Toding	Universitas Borneo Tarakan	Path Loss Prediction For GSM 900 Signal Strength Measurements
4.30 - 4.45 pm	C13.5	Muhammad Suryanegara, Mukhammad Khalimudin, and Naufan Raharya	Universitas Indonesia	The Comparison between Asymmetric Turbo Code using $\Omega'$ QPP Interleaver and LTE Turbo Code
4.45 - 5.00 pm	C13.6	Muhammad Suryanegara, Achmad Nashirudin, and Naufan Raharya	Universitas Indonesia	The Interference Analysis Between Wireless Avionics Intra-Communications (WAIC) And EESS Systems At 22-23 Ghz



**SESSION C14. ENERGY: System, Power Electronics**

**Chair : Dr. Ir. Ridwan Gunawan, MT. and I Kade Wiratama, ST., M.Sc., Ph.D**

Wednesday, 12 August 2015, 8.00 - 10.15 am

Venue: Gili Trawagan (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
8.00 - 8.15 am	C14.1	Rina Irawati	Ministry of Energy and Mineral Resources Republic of Indonesia	Reliability Analysis Of Isolated Alternating Current Smart Microgrids System
8.15 - 8.30 am	C14.2	Karel Octavianus, Bambang Anggoro, Adang Suwandi Ahmad	Institut Teknologi Bandung	Power Transformer Condition Monitoring And Performance Calculation Method Based On Information Fusion
8.30 - 8.45 am	C14.3	Aryunto Soetedjo, Abraham Lomi and Yusuf Ismail Nakhoda	ITN Malang	Simulation Of Smart Grid Using SCADA Software
8.45 - 9.00 am	C14.4	Ainil Syafitri, Prof. Dr. Ir. Iwa Garniwa M. K., M.T., Dr. Ir. Ridwan Gunawan, M.T., and Ir. I Made Ardita Y, M.T.	Universitas Indonesia	Simulation Of Braking And Variations Of Load In Switched Reluctance Linear Motor
9.00 - 9.15 am	C14.5	Isworo Pujotomo, Iwa G., Ridwan G., Uno B.S.	Sekolah Tinggi Teknik PLN	Comparison Analysis And Simulation Of Power System Stability 500 Kv Java Bali Using Methods Of Runge Kutta Lower Order And Higher Order
9.15 - 9.30 am	C14.6	Budiyanto, Hartono BS, Rudy Setiabudy, and Leonardo	Universitas Muhammadiyah Jakarta	The Development Of Grid-Tie Inverter As Bidirectional Dc/Ac Converter In The Dc Microgrid Network
9.30 - 9.45 am	C14.7	I Nyoman Wahyu Satiawan, and I Kade Wiratama	Universitas Mataram	Analysis Of Voltage Space Vectors Utilization Of Various PWM Schemes In The Dual-Inverter Fed Five-Phase Motor Drives With Equal DC-Link Voltage
9.45 - 10.00 am	C14.8	Supriono, Syafaruddin, M. Budi Sukmadana, and S Mariyanto Al Sasongko	Universitas Mataram	Controlling Of Vgs Voltage At Power Mosfet To Control Rotation Speed Of DC Motor
10.00 - 10.15 am	C14.9	Herlina, Uno Bintang Sudiby and Ridwan Gunawan	Universitas Indonesia	Permanent Magnet Generator Design For Wind Turbine Application

**SESSION C15. COMPUTER: Computer App – TELECOMMUNICATION: Digital Signal Processing**

**Chair : Dr. Hugeng, ST., MT and Endra Oey S.Kom, MT.**

Wednesday, 12 August 2015, 10.30 am - 12.15 pm

Venue: Gili Trawagan (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
10.30 - 10.45 am	C15.1	Desi Marlana, and Bondan Estuwira S	STSN	Implementation $\Sigma$ - Hash on Android Smartphone To Provide Digital Image Data Integrity
10.45 - 11.00 am	C15.2	Edmond Febrinicko Armay, Heni Rachmawati, Ewi Ismaredah, and Eki Saputra	State Islamic University of Sultan Syarif Kasim Riau	Implementation Of Parallel Processing In Graph Coloring To Build A Software Of Courses Timetabling
11.00 - 11.15 am	C15.3	Hugeng, Febryan Laya, Wahidin Wahab, and Dadang Gunawan	Universitas Multimedia Nusantara	Implementation of HRTF Interpolations On DSP Board TMS320C5535 eZdsp™
11.15 - 11.30 am	C15.4	Puji Hidayati Sari, Bulkis Kanata, Teti Zubaidah	Universitas Mataram	Geomagnetic Signal Processing Using Differentiation And Moving Average As Earthquake Precursor In Lombok Region
11.30 - 11.45 am	C15.5	Endra Oey, Darman Justio, Rudy Susanto	Universitas Indonesia	Implementation Of Compressive Sensing In Embedded Hardware Device
11.45 am - 12.00 pm	C15.6	Endra Oey, and Dadang Gunawan	Universitas Indonesia	Comparison Of Synthesis-Based And Analysis-Based Compressive Sensing
12.00 - 12.15 pm	C15.7	Wahidin Wahab, M. Ridwan, and Benyamin Kusumoputro	Universitas Indonesia	Design and Implementation of an Automatic Face-Image Data Acquisition System using IP based Multi Camera

**SESSION C16. TELECOMMUNICATION: Wireless – CONTROL AND ROBOT: Control System****Chair: Ir. Gunawan Wibisono, M.Sc., Ph.D and Dr. Ajib Setyo Arifin**

Wednesday, 12 August 2015, 1.00 - 3.00 pm

Venue: Gili Trawagan (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	<b>Invited Speaker in Gili Air Venue (Lombok Raya Hotel)</b>			
1.30 -1.45 pm	C16.1	Ari Sadewa Yogapratama, Uke Kurniawan Usman, Tody Ariefianto Wibowo	Universitas Telkom	Planning Analysis About The Performance Of Backhaul Based On Wi-Fi 802.11n For LTE Network On Rural Area
1.45 - 2.00 pm	C16.2	Gunawan Wibisono and Rinto Hariwijaya	Universitas Indonesia	Fms Performance Improvement In Fiber Optic Network Operator Using Markov Chain And Fault Tree Analysis
2.15 - 2.30 pm	C16.3	Ajib Setyo Arifin	Universitas Indonesia	A Survey On Full Duplex Wireless Communications
2.30 - 2.45 pm	C16.4	Ni Putu Dewi Pusparini Pinatih and Magfirawaty	Lembaga Sandi Negara	Implementation Of Pseudo Random Number Generator Algorithms Based On Chaotic Logistic Map On An AVR Microcontroller By Utilizing A Temperature Sensor As A Key Sequence Generator
2.45 - 3.00 pm	C16.5	Wike Handini, Herlina, and Rudy Setiabudy	Universitas Indonesia	Torque Ripple On Permanent Magnet Generator For Wind Turbine Applications

**SESSION C17. CONTROL AND ROBOT: Control System, Robotics****Chair: Ir. Wahidin Wahab, M.Sc., Ph.D and Prof. Dr. Kenji Murakami**

Wednesday, 12 August 2015, 3.30 - 5.00 pm

Venue: Gili Trawagan (Lombok Raya Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	C17.1	Ane Prasetyowati, Vector Anggit P, and Gunady Haryanto	Universitas Pancasila	Infrared Heater Controller On Drier Cocoa Beans Machine Based On Fuzzy Logic
3.45 - 4.00 pm	C17.2	Muhammad Firdaus Syawaludin Lubis and Abdul Muis	Universitas Indonesia	Fast Shadow Removal System For River Garbage Pollution Monitoring
4.00 - 4.15 m	C17.3	Ridwan Gunawan and Feri Yusivar	Universitas Indonesia	Comparison Of Simulation Design Between The Hollow And Solid Rotor Core Of The Permanent Magnet Synchronous Generator
4.15 - 4.30 pm	C17.4	I Wayan Widhiada and Endra Pitowarno	Universitas Udayana	An Integrated Functional Design Process Applied To A Multifunctional Three Fingered Gripper
4.30 - 4.45 pm	C17.5	R.A.D.M. Ranasinghe, R.M.G. Rajapakse, O.A. Illeperuma and K. Murakami	Shizuoka University	Properties of Low Temperature Synthesized Mechanoluminescent Material
4.45 - 5.00 pm	C17.6	Ajith Bandara, Devinda Liyanage, R.M.G. Rajapakse and Kenji Murakami	Shizuoka University	Application of New Spray Pyrolysis Technique to Formation of Transparent Conducting Oxide Layer

**SESSION C18. Poster Session for Electrical and Computer Engineering**

**Chair : Ir. Purnomo Sidi Priambodo, M.Sc., Ph.D**

Wednesday, 12 August 2015, 10.00 - 10.30 am; 12.00-1.00 pm; 3.00- 3.30 pm; 5.00-7.00 pm

Venue : Pre-Function Hall

Time	No	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00 pm; 3.00 - 3.30 pm; 5.00 - 7.00 pm.	C18.1	Jumail Jumail Soba and Achmad Munir	Institut Teknologi Bandung	Dual-band Printed Antenna Composed of Square Patch and SRR for GPS and WLAN Application
	C18.2	Subuh Pramono and Sugihartono	Politeknik Negeri Semarang	Multiuser MIMO Downlink Precoding : Performance Results
	C18.3	Kamoliddin Mavlonov	Ehime University of Japan	Non-relational Column-based Storage System for Web Services
	C18.4	Ni Wayan Parwati Septiani, Mei Lestari	Universitas Indraprasta	Breast Cancer Detection using Naive Bayes and C3.5 Algorithms
	C18.5	Fitri Yuli Zulkifli, Triprijoetomo, Basari and Eko Tjipto Rahardjo	Universitas Indonesia	Ultra-Wideband Bandpass Filter with 5-6 GHz Rejection Band using Microstrip CRLH Metamaterial
	C18.6	Dita Tessa Parastika, Ubay M. Noor, M. Erfinza, Angga Hilman Hizrian, Fitri Yuli Zulkifli	Universitas Indonesia	Ultra Wideband Monopole Antenna Construction Using Coplanar Waveguide for High Speed Data Transfer
	C18.7	Rika Yuliana and Budi Rahardjo	Ar-Raniry Islamic State University	Designing Business Architecture For Mining Company By Using TOGAF Framework And Business Process Methodology
	C18.8	Siti Aminah Herawati	Universitas Kristen Maranatha	Optimal Simulation Network With Energy Go Green, New Quadruple And Newton-Raphson To Minimize Losses

## SYMPOSIUM D: METALLURGY AND MATERIALS ENGINEERING

### SESSION D1. Advanced and Energy Materials

Chair : Prof. Dr. Ir. Akhmad Herman Yuwono

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Flamboy an (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	D1.1 (Invited)	Prof. dr. Ir. Hero Jan Heeres	Rijksuniversiteit Groningen, Germany	Mobile Technology for Indonesian Biofuel
1.30 - 2.00 pm	D1.2 (Invited)	Prof. dr. K.U. (Katja) Loos	University of Groningen, The Netherlands	Enzymatic Polymerizations – Novel Ways to (New) Polymer Systems
2.00 - 2.15 pm	D1.3	Fitri Yuli Zulkifli, Nugroho Adi Saputro, Basari	Universitas Indonesia	Left Handed Metamaterial Structure Stacked on Two Element Array Microstrip Antenna
2.15 - 2.30 pm	D1.4	Miftahul Anwar	Department of Mechanical Engineering, Faculty of Engineering, Sebelas Maret University	Electrical Current Dependence on Carbon Nanomaterial Structure Produced by Arc Discharge in Liquid Medium
2.30 - 2.45 pm	D1.5	Novizal	Institut Sains dan Teknologi Nasional Jakarta	Effect of Induced Magnetic Anisotropy on the Hysteresis Parameters of Nano Ba(0.7)Sr(0.30)Fe <sub>12</sub> O <sub>19</sub> Prepared by Mechanical Alloying and Sonication
2.45 - 3.00 pm	B.1.005	Yuma Suzuki, Ewelina Pabjańczyk-Wlazlo, Tetsuhide Shimizu, Ming Yang	Graduate School of System Design, Tokyo Metropolitan University	Fabrication and evaluation of micro-structured reaction field with vertically aligned carbon nanotubes for micro bio-analysis device
3.00 – 3.15 pm	D1.6	Azwar Manaf, Ageng Bimantoro, Mas Yu Elita Hafizah, Andreas	Universitas Indonesia	Synthesis and Microwave Characterization of Conductive PANI Prepared by Continues Polymerization Process

### SESSION D2. Polymer and Ceramic Materials

Chair : Dr.M. Chalid M.Sc

Tuesday, 11 August 2015, 3.30 – 5.00 pm

Venue : Flamboy an (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	D2.1	Adi Surya Pradipta, Wiwiek Eka Mulyani, Bambang Sunendar Purwasasmita	Institute of Technology Bandung, Indonesia	Synthesis of Hydrophobic Viscose Rayon Fiber by Application of Nanorod Silica and Chitosan
3.45 -4.00 pm	D2.2	Riesca Ayu Kusuma Wardhani, Lia Asri, Muhammad Nasir	Engineering Physics Department, Institut Teknologi Bandung, Indonesia	Electrospun Chitosan-Polyethylene Oxide Nanofiber Containing Botanical Collagen for Wound Dressing Application
4.00 - 4.15 pm	D2.3	Hendry Izaac Elim	Nanomaterials for Photonics Nanotech. Lab. (Lab. N4PN), Phys. Dept., FMIPA, Pattimura Univ., Ambon, Indonesia	A novel simple technique to study Mie scattering imaging with photon counts of nanohybrid polymer materials
4.15 - 4.30 pm	D2.4	Ghiska Ramahdita	Metallurgy and Materials Engineering, Universitas Indonesia	Study of Chemical Pre-Treatments of Sorghum Fiber
4.30 - 4.45 pm	D2.5	Aris Doyan, Susilawati	fellowship	Synthesis and Characterisation of Poly(Acrylamide-Co-Methacrylamide) Gels Material Using Raman Spectroscopy)
4.45 - 5.00 pm	B.2.033	Tae Sung Kim, Kaoru Sugano, Atsushi Hosoi, Hiroyuki Kawada	Department of applied Mechanics and Aerospace Engineering, Waseda University,	Improvement of mechanical properties in untwisted CNT yam by PAA/DMSO densification treatment
5.00 – 5.15 pm	D13.8	Heru Sukanto, Eko Prasetya Budiana	Mechanical Engineering of Sebelas Maret University Surakarta	Investigation Of Coating Materials On Recycled Polypropilene and Rubber Composite Under Weather Exposure

### SESSION D3. Polymer and Ceramics Materials

Chair : Dr.M. Chalid M.Sc

Wednesday, 12 August 2015, 08.00 – 10.00 am

Venue : Flamboy an (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
08.00-08.15 am	D3.1	Made Ganesh Darmaya	Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, University of Mataram	Kappa-Carrageenan as an Attractive Green Substitute for Polyacrylamide in Enhanced Oil Recovery Application
08.15-08.30 am	D3.2	Sugiman	Department of Mechanical Engineering, Faculty of Engineering, University of Mataram	Water Absorption and Desorption Behaviour and their effect on the tensile properties of FM 73M Film Adhesive
08.30-08.45 am	D3.3	Susilawati Hambali, Aris Doyan	Fellowship	The Effect of Temperature on The Conductivity of Polymer Films
08.45-09.00 am	D3.4	H. Aripin	Faculty of Learning Teacher and Education Science, Siliwangi University	Densification behavior of a new glass ceramic developed from the incorporation of silica xerogel and SnO <sub>2</sub>
09.00-09.15 am	D3.5	Donanta Dhaneswara, Nofrijon Sofyan	Department of Materials & Metallurgy Engineering	Effect of Different Pluronic P123 Triblock Copolymer Surfactant Concentration on SBA-15 Pores Formation
09.15 - 09.30 am	B.2.034	Daiki Tanabe, Kazuaki Nishiyabu, Tetsusei Kurashiki	Dept. of Management of Industry and technology	Effects of Processing Conditions in Unidirectional Carbon Fiber Thermoplastic Prepreg Tape Laying Using Near Infrared heater
<b>09.30-10.00 am</b>	<b>D3.6 (Invited)</b>	<b>Prof. dr. Francesco Picchioni</b>	<b>Rijksuniversiteit Groningen, Germany</b>	<b>Biomass based-Polymers</b>

### SESSION D4. Advanced and Energy Materials

Chair : Prof. Dr. Ir.Akhmad Herman Yuwono

Wednesday, 12 August 2015, 10.30 – 12.15 am

Venue : Flamboy an (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
10.30-10.45 am	D4.1	Kristofer Haliansyah, Nandy Putra, Erwin Prawiro, Andrew Yohanes	Universitas Indonesia	Heat Loss Reduction of Tube Solar Collector Based on Dual Heat Pipes
10.45-11.00 am	D4.2	Nji Raden Poespawati	Department of Electrical Engineering Faculty of Engineering Universitas Indonesia	Design And Fabrication Of The Solar Power System For The Active RFID Tag
11.00-11.15 am	D4.3	Sri Bimo Pratomo	Metal Industries Development Center, Ministry of Industry of Republic of Indonesia	Effects of water quenching before hydrogenation, disproportionation, desorption and recombination process on magnetic properties of Nd-Fe-B powder
11.15-11.30 am	D4.4	Daniel Kurniawan	Departement of Materials & Metallurgy Engineering	Effect of Pressure in Post-Hydrothermal Treatment on the Nanostructural Characteristics of ZnO Nanoparticles
11.30-11.45 am	D4.5	Bambang Priyono	Material for Energy Nano Technology	Effect of Lithium Carbonate (Li <sub>2</sub> CO <sub>3</sub> ) Addition in Titanium Dioxide (TiO <sub>2</sub> ) Xerogel for Manufacturing Lithium Titanate (Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> )
11.45-12.00 am	B.2.009	Kenjiro Sugio, Nariaki Kawano, Takaaki Hirose, Yong-Bum Choi and Gen Sasaki	Hiroshima University	Estimation of electrical conductivity of TiB <sub>2</sub> /Al composites with image analysis
12.00-12.15 am	D4.6	Dwi Nanto, Seong-Cho Yu	Refrigerant capacity of La <sub>0.7</sub> Ca <sub>0.3</sub> Mn <sub>1-x</sub> Cu <sub>x</sub> O <sub>3</sub> (0.0 ≤ x ≤ 0.03)	Syarif Hidayatullah State Islamic University

**SESSION D5. Metals and Manufacture Process****Chair : Dr. Ir. Myrna Ariati**

Wednesday, 12 August 2015, 1.00 – 3.15 pm

Venue : Flamboyan (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.15 pm	D5.1	Yudha Pratesa	Universitas Indonesia-Department of Metallurgy and Material Engineering	Copper Foam with Interconnected Open Cell Structure Fabrication
1.15 - 1.30 pm	D5.2	Soesaptri Oediyani, Kustiama Wilyandhika, Suharto	Fakultas Teknik Universitas Sultan Ageng Tirtayasa	The Effect Of Reduction Time And Size Distribution Of Mixed Iron Ore Lampung With Coconut Shell Charcoal To Metallization Of Sponge Iron By Using Rotary Kiln At UPT BPML LIPI
1.30 -1.45 pm	D5.3	Akhmad Ardian Korda, Rizky Hidayat, Setiadi Suriana	Department of Metallurgical Engineering, Bandung Institute of Technology	Kinetics of Strain Aging Behavior of API 5L X65 and API 5L B Steels on Long-term Operation
1.45 - 2.00 pm	D5.4	Triyono	Jurusan Teknik Mesin Fakultas Teknologi Industri Universitas Trisakti	Performance of Jatropa Curcas as Dielectric Fluid for Surface Treatment of SKD 61 By Using EDM/EDC
2.00 - 2.15 pm	D5.5	Ahmad Ali Alhamidi, Kaveh Edalati, Zenji Horita	Sultan Ageng Tirtayasa University	Influence of High-Pressure Torsion on Formation/Destruction of Nano-sized Spinodal Structures
2.15 - 2.30 pm	D5.6	Akhmad Ardian Korda, Dini Nurhayani	Department of Metallurgical Engineering, Bandung Institute of Technology	Effect of Ni Content and Heat Treatment on Antimicrobial Activity and Hardness of Cu-Ni Alloys
2.30 - 2.45 pm	D5.7	Oknovia Susanti, Sri Harjanto, Myrna A. Mochtar, R. Diantika	Department of Metallurgical and Materials Engineering, Faculty of Engineering	Microstructure and Mechanical Properties of Hot Rolled Mg-1.6Gd
2.45 - 3.00 pm	D5.8	I Nyoman Budiarsa, I Gede Oka Pujihadi	Mechanical Engineering. University of Udayana. Bali. Indonesia	Determination Of Strain Hardening Exponent Base Of Indentation Size Effect (ISE) Of Vickers Hardness
3.00 - 3.15 pm	D5.9	Suryadi	PhD student of Metallurgy and Material Engineering Department - University of Indonesia	Effect of Annealing Temperature on Microstructure and Mechanical Properties of Ultrafine Grained Brass Produced by Equal Channel Angular Pressing

**SESSION D6. Composite Materials****Chair : Prof. Dr. Ir. Anne Zulfia**

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	<b>D1.1 (Invited)</b>	<b>Prof. dr. Ir. Hero Jan Heeres</b>	<b>Rijksuniversiteit Groningen, Germany</b>	<b>Mobile Technology for Indonesian Biofuel</b>
1.30 - 2.00 pm	<b>D1.2 (Invited)</b>	<b>Prof. dr. K.U. (Katja) Loos</b>	<b>University of Groningen, The Netherlands</b>	<b>Macromolecular Chemistry and New Polymeric Materials</b>
2.00 - 2.15 pm	D6.3	Sudarsono Soemarlan	IST AKPRIND Yogyakarta	Development of Natural Composite from Aren (Arenca pinnata) Fiber
2.15 - 2.30 pm	B.2.021	Iriani, E.S, Fahma, F, Sunarti, T and Subyakto	Faculty of Agricultural Technology, Bogor Agricultural University, Center for Biomaterial Research, Indonesian Institute of Science, Cibinong Science Center	Physical and Mechanical Properties of PVA Nanocomposite Reinforced with Sorghum Bagasse Nanocellulose
2.30 - 2.45 pm	D6.5	Sukmaji Indro Cahyono	Sebelas Maret University	The Effect of Alkali Treatment Toward Mechanical Properties of Polypropylene/Kenaf Composite

### SESSION D7. Composite Materials

Chair: Prof. Dr. Ir. Anne Zulfia

Tuesday, 11 August 2015, 3.30 – 4.45 pm

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	D7.1	Kirman Muhammad Talib	Metallurgy and Materials Engineering Department, Faculty of Engineering, Universitas Indonesia	Effects of Magnesium on Properties of AlZrCe-Mg-Al <sub>2</sub> O <sub>3</sub> Nanocomposite
3.45 -4.00 pm	D7.2	Hilton Ahmad	Department of Structures and Materials Engineering, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, MALAYSIA	XFEM Modelling of Notched Cross-Ply Woven GFRP Composite Plates
4.00 - 4.15 pm	D7.3	Paryanto Dwi Setyawan	University of Mataram, Departement of Mechanical Engineering	Mechanical Properties of Cogon Grass ( <i>Imperata Cylindrica</i> ) Fiber-Reinforced Unsaturated Polyester Composites
4.15 - 4.30 pm	D7.4	Foliatini	Department of Chemistry, Universitas Indonesia	A simple and effective route for the synthesis of Ag/alginate/thiol based-ligands nanocomposites and their potency as stabilizer for Pickering emulsion
4.30 - 4.45 pm	B.2.001	Yongbum Choi, Zhefeng Xu, Kenjiro Sugio, Kazuhiro Matsugi and Gen Sasaki	Division of Materials and Manufacturing, Graduate School of Engineering,, Hiroshima University	New manufacturing method of particle intermetallic compound reinforced composites

### SESSION D8. Advanced and Energy Materials

Chair : Dr. Badrul Munir S.T, M.Eng.Sc

Wednesday, 12 August 2015, 08.00 – 10.00 am

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
08.00-08.15 am	D8.1	Aniek Sri Handayani, Mochamad Chalid, Emil Budianta, Dedi Priadi	Department of Chemical Engineering Institute Technology of Indonesia	Synthesis and Characterization of New Copolymer Hexyl Methacrylate grafted on Amylopectin as a Biodegradable Agent of Polymer Hybrid.
08.15-08.30 am	D8.2	Eka Cahya Prima, Beni Rama, Romi Nugraha	Advanced Functional Material Laboratory, Engineering Physics Department, Faculty of Industrial Technology, Institut Teknologi Bandung, Indonesia	Extending Anthocyanin Dye's Absorbance through Designing NIR Dye as Functional Material for TiO <sub>2</sub> Solar Cell
08.30-08.45 am	D8.3	Dwi Nanto, Wen-Zhe Nan, Sukh-Kun Oh, Seong-Cho Yu	Syarif Hidayatullah State Islamic University	Influence of Sn-doping on magnetocaloric properties of La <sub>0.7</sub> Ca <sub>0.3</sub> Mn <sub>1-x</sub> Sn <sub>x</sub> O <sub>3</sub> (x = 0.02 and x = 0.04) compounds
08.45-09.00 am	D8.4	Khotimatul Fauziah, Arief Udhiarto, Daniel Moraru, Takeshi Mizuno, Djoko Harjanto, Michiharu Tabe	Universitas Indonesia	Impact of Co-Doped And Intrinsic Region Length on Subthreshold Swing (SS) in Si Nanoscale Lateral p-n and p-i-n Devices
09.00-09.15 am	D8.5	Imam Akbar	Department of Metallurgical and Materials Engineering, Faculty of Engineering, University of Indonesia	The Effect of Citric Acid Addition upon Precipitation Process on the Nanostructural Characteristic ZnO nanoparticles
09.15 - 09.30 am	B.1.022	Iriani, E.S.Sjarief, R, Suyatma, N.E.. and Rahmatunisa	Indonesian Center for Agricultural Postharves Research and Development, Faculty of Agricultural Technology, Bogor Agricultural University	Antimicrobial, Physical and Mechanical Properties of Cassava Starch Based Foams Incorporated with Nano ZnO
09.30-10.00 am	<b>D3.6 (Invited)</b>	<b>Prof. dr. Francesco Picchioni</b>	<b>Rijksuniversiteit Groningen, Germany</b>	<b>Biomass based-Polymers</b>



**SESSION D9. Corrosion and Degradation of Materials****Chair : Dr. Ir. Sri Harjanto**

Wednesday, 12 August 2015, 10.30 – 12.00 am

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
10.30-10.45 am	D9.1	Yudha Pratesa	Universitas Indonesia-Department of Metallurgy and Material Engineering	Corrosion Behaviour of Porous Metal Fe-Mn-C Alloy Fabricated Using Sintering and Dissolution Process (SDP) of Potassium Carbonate
10.45-11.00 am	D9.2	Kemal Gibran, Andi Rustandi, M. Akbar Barrinaya	Departement of Metallurgy and Materials Engineering Universitas Indonesia	Case Study of Upgrading Design For Impressed Current Cathodic Protection For Bottom Tank As External Corrosion Control Method
11.00-11.15 am	D9.3	Andi Rustandi, Yepi Yarmani Yosa	Department of Metallurgical and Materials Engineering, Faculty of Engineering, University of Indonesia	Modified CO <sub>2</sub> Corrosion Rate Calculation Model for Carbon Steel in Aqueous Environment and Its Mitigation Recommendation for Oil and Gas Processing Facilities Application
11.15-11.30 am	D9.4	Alfirano	Sultan Ageng Tirtayasa University Metallurgy Engineering Department	Precipitates in Biomedical Co-Cr-Mo Alloys and Its Corrosion Behavior
11.30-11.45 am	D9.5	Rini Riastuti	University of Indonesia	Studies of Pitting Corrosion Rate of Hyper-Duplex Stainless Steel 3207 in 6% FeCl <sub>3</sub> using Weight Loss, Potentiodynamic Polarization Methods and Electrochemical Impedance Spectroscopy (EIS) Analysis
11.45-12.00 am	B.2.004	Kazuma Hashimoto, Kenjiro Sugio, Gen Sasaki, Asep Ridwan, Aditianto Ramelan	Hiroshima University, Institute of Technology Bandung	The effect of ZrO <sub>2</sub> addition on the electrochemical behavior of low-carbon steels in CrO <sub>3</sub> -H <sub>2</sub> SO <sub>4</sub> electrolyte

**SESSION D10. Korea-Indonesia Symposium (KIS) of Metals and Manufacture Process****Chair : Prof. Dr. Ir. Bondan Tiara Sofyan, M.Si**

Wednesday, 12 August 2015, 1.00 – 3.15 pm

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
1.00 - 1.15 pm	D10.1	Rianti Dewi Sulamet-Ariobimo	Mechanical Engineering Department Faculty of Industrial Technology Universitas Trisakti	Effect of Plate Thickness and Casting Position to Skin Effect Formation in Thin Wall Ductile Iron Plate
1.15 - 1.30 pm	D10.2	Myrna Ariati Mochtar	Universitas Indonesia	Effect of Double Shot Peening And Nitriding To Die Soldering Behaviour of H13 and Cr-Mo-V Tool Steel on Die Casting Process
1.30 -1.45 pm	D10.3	Kontan Tarigan, Sebayang D. Yu S.C.	Universitas Mercu Buana	Effect of Annealing Temperature on Magnetic and Structural Properties of the Nanocrystalline Fe-Mn-Al Alloys
1.45 - 2.00 pm	D10.4	Young Gun Ko	School of Materials Science and Engineering, Yeungnam University, Gyeongsan 712-749, South Korea	A New Pathway to Fabricate Advanced Structure Materials
2.00 - 2.15 pm	D10.5	Joo Hyun Park, Kotiba Hamad, Yong HwanLee, Young Gun Ko	School of Materials Science and Engineering, Yeungnam University, Gyeongsan 712-749, South Korea	Microstructure Evolution and Mechanical Properties of Deep Cryogenically treated High Carbon Steel
2.15 - 2.30 pm	D10.6	Prisla Kamil, Mosab Kaseem, Byung Ho Park, Young Gun Ko	School of Materials Science and Engineering, Yeungnam University, Gyeongsan 712-749, South Korea	Surface Treatment of 6061 Al-Alloy using Plasma Electrolytic Oxidation
2.30 - 2.45 pm	D10.7	Kotiba Hamad, I Putu Widiantara, HaeWoong Yang, Young Gun Ko	School of Materials Science and Engineering, Yeungnam University, Gyeongsan 712-749, South Korea	Shear and Rolling Textures Stability in Al Alloy during Annealing Treatment
2.45 - 3.00 pm	D10.8	I Putu Widiantara, Kotiba Hamad, JeongHyeonKwon, Young Gun Ko	School of Materials Science and Engineering, Yeungnam University, Gyeongsan 712-749, South Korea	Grain Refinement Mechanism of AZ31 Mg Alloy during Differential Speed Rolling
3.00 - 3.15 pm	B.2.027	Shuichi Mashino , Takuji Okabe	Department of Mechanical Systems Engineering, Hiroshima Institute of Technology	Production and characteristic improvement of sintered porous titanium by capsule-free HIP method



**SESSION D11. Composite Materials**

**Chair : Nofrijon Sofyan Ph.d**

Wednesday, 12 August 2015, 3.30 – 5.00 pm

Venue : Alamanda (Lombok Garden Hotel)

Time	No	Authors	Affiliation	Title
3.30 - 3.45 pm	D11.1	Irfan Gustian	Chemistry Dept. Universitas Bengkulu	Physico-chemical characteristics of composites membranes based on sulfonated cyclone fibre cellulose and benzotriazole
3.45 - 4.00 pm	D11.2	Desi Heltina	Chemical Engineering (International Symposium on Materials and Metallurgy)	Synthesis and Characterization of Titania nanotube-Carbon nanotube composite for degradation of phenol
4.00 - 4.15 pm	D11.3	Jariyavadee Sirichantra, Tanittha Pullawan, Phornthip Lamo, Narit Kocharit	Department of Science Service, Ministry of Science and Technology, Thailand	Effect of nano rubber particle additions to carbon fibre reinforced epoxy resin on mechanical properties
4.15 - 4.30 pm	D11.4	Winarto Winarto, Dedi Priadi, Nofrijon Sofyan, Aji Wicaksono	Department of Materials & Metallurgy Engineering	Wear Resistance and Hardness Properties of Aluminum AC4B Cast after Cold Sprayed by Carbon Nanotubes Reinforced Alumina Nanocomposite
4.30 - 4.45 pm	B.2.038	T. Yamashita, Y. Kurabe, Y. Miyashita, Y. Otsuka, H. Hori	Nagaoka University of Technology, Ishikawa National College of Technology	Proposal for New Fabrication Method of Green Composite by using Friction Stir Process

**SESSION D12. Poster Session for Metallurgy and Materials****Chair :**

Tuesday, 11 August 2015, 10.00 - 10.30 am; 12.00 - 1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue : Pre-Function Hall

Time	No	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00pm; 3.00- 3.30pm; 5.00-7.00pm	D12.1	Vika Rizkia	Department of Mechanical Engineering, Jakarta State Polytechnic, Depok 16424, Indonesia	Corrosion Resistance Enhancement of Anodic Layer on Aluminum Matrix Composite by Cerium Sealing
	D12.2	Rina Dewi Mayasari, Winda Rianti, Retna Deca Pravitasari	Center for Material Technology, Agency for the Assessment and Application of Technology (BPPT)	Grain Size Distribution Analysis of Multi-crystalline Si Ingot Produced by Directional Solidification Technology
	D12.3	Witri Wahyu Lestari	Chemistry Department, Sebelas Maret University, Surakarta, Central Java Indonesia.	Metal-Organic Frameworks: Chemistry, Properties, and Prospective Applications in Sustainable Energy Development
	D12.4	I Nyoman Jujur, Joni Sah, Agustanhakri Bakri	Center for Materials Technology BPPT	Effects of the Oxide Inclusions on The Mechanical Strength of Medical Grade of 316L Stainless Steel Using Local Raw Materials
	D12.5	Erni Setyowati	University of Diponegoro	The Acoustical Characteristics Of Polymer Mortar As A Green Concrete Material
	D12.6	Winda Rianti, Nendar Herdianto, Dwi Gustiono, Agus Hadi Santosa Wargadipura, Lukmana	Agency for Assessment and Application of Technology	Synthesis and Characterization of Nanocrystalline Hydroxyapatite Derived From Indonesian Limestone
	D12.7	Dody Andi Winarto, Sri Rahayu, Novita Amie Lestari, Sefnie Septiva, Lukmana	Agency for Assessment and Application of Technology	Mixing time effect on rheological behavior of natural rubber compounds filled with nano carbon black
	D12.8	Agus Edy Pramono	Department Of Mechanical Engineering, Politeknik Negeri Jakarta	Impact Strength Properties of Bamboo Fiber Reinforced Polymer Composite in Uni and 2 Direction
	D12.9	Adel Fisli, Ridwan, Yuni Krisyuningsih Krisnardi, Jarnuzi Gunlazuardi	Advanced Materials Science Division National Nuclear Energy Agency of Indonesia (BATAN)	Preparation And Characterization Of Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> /TiO <sub>2</sub> Composite For Methylene Blue Removal in Water
	D12.10	Frederik Palallo	Lecturer	Resistance Mechanical Properties Of Material Katinting Boats Effect On Environment
	D12.11	Yunasfi	Center for Science and Technology of Advanced Materials, National Nuclear Energy Agency	Structure and Magnetic Properties of Ni-C Nanocomposite for Sensor Material Application
	D12.12	Didin Sahidin Winatapura	Center for Science and Technology of Advanced Materials, National Nuclear Energy Agency	Synthesize, Characterization and Photo-Catalytic Activity of Fe <sub>3</sub> O <sub>4</sub> @ZnO Nanocomposite
	D12.13	HongJoo Kim	Department of Physics, Kyungpook National University	Development Of New Elpasolite Crystal Scintillators For Medical Imaging And Radiation Detection
	D9.6	Rini Riasuti	University of Indonesia	Crevice Corrosion Study of 3207 Hyperduplex Stainless Steel in FeCl <sub>3</sub> 6% Solution Using Polarization, Weight Loss, and Electrochemical Impedance Spectroscopy Methods
D12.14	Johny Wahyuadi Soedarsono, Andi Rustandi, Felix Liyono, Antonius Herry Cahyana	Dept of Metallurgy ang Materials, Faculty of Engineering, University of Indonesia	Study Of The Mixing Of Sweet Potato (Ipomoea Batatas) Extract And Melinjo (Gnetum Gnemon) Extract As Green Corrosion Inhibitors For API 5L Steel Pipe In NaCl 3,5% Solution.	

**SESSION D13. Poster Session for Metallurgy and Materials**
**Chair :**

Wednesday, 12 August 2015, 10.00 - 10.30 am; 12.00 -1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue : Pre-Function Hall

Time	No	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 -1.00pm; 3.00 - 3.30pm; 5.00-7.00pm	D13.1	Gunawan Setia Prihandana	Department of Mechanical Engineering, Universitas Muhammadiyah Yogyakarta	Surface modification of nano porous polyethersulfone membrane as a filtration membrane in dialysis system: A comparison of coatings material
	D13.2	Romario Aldrian Wicaksono	Departement of Mechanical Engineering, Yogyakarta Muhammadiyah University (UMY)	Design and fabrication of microfilter employing nanoporous polyethersulfone membrane for dialysis applications
	D13.3	Satriawan Dini Hariyanto	Department of Mechanical Engineering, Muhammadiyah University of Yogyakarta	High water permeability of nanoporous polyethersulfone (PES) membrane for ultrafiltration purposes
	D13.4	Tuti Indah Sari, Asep Handaya Saputra, Setijo Bismo, Dadi R. Maspanger	Universitas Indonesia	The Effect of Styrene Monomer in The Graft Copolymerization of Acrylonitrile onto Deproteinized Natural Rubber
	D13.5	Sukmaji Indro Cahyono	Sebelas Maret University	The cost-effective of light-weight sandwich panel honeycomb core with hybrid carbon-glass fiber composite skin for electric vehicle application
	D13.6	Edy Sarwani, Riria Zandy Mirahati, Siti Khodijah Chaerun	Institut Teknologi Bandung	Use of biosurfactant-producing bacteria as biofrother and depressant for sulfide copper minerals
	D13.7	Masaru Shimomura	Shizuoka University	Surface Treatment by Sulfur Containing Molecules for Dye-sensitized Solar Cells
	D13.9	Husaini	Department of Mechanical Engineering, Syiah Kuala University, Darussalam, Banda Aceh 23111, INDONESIA	Fracture Behavior of Aluminum Alloy A6061-T6 Investigated By Using CTSSpecimens
	D13.10	Retno Rahmawati, Brian Yulianto, Suyatman, Deddy Kurniadi	Engineering Physics study program, Faculty of Industrial Technology, ITB Bandung	Synthesis Of Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) Nanoparticles From Iron Sand With Sonochemical Methods And Their Magnetism Characterization
	D13.11	Samsudi Raharjo	FT Universitas Muhammadiyah Semarang	CaCO <sub>3</sub> Scale Formation in Copper Pipes: Effect of flow rates on Induction Time and Mineral Phases
	D13.12	Nofrijon Sofyan	Departement of Materials & Metallurgy Engineering	Optimization Of Silicon Isolation From Tanjung Tiram Asahan Natural Sand Through Magnesiothermic Reduction
	D6.4	Ika Maria Ulfah, Nendar Herdianto, Dwi Gustiono	Center for Materials Technology, Agency for the Assessment and Application of Technology	Synthesis and Characterization of Hydroxyapatite-Biopolymer Composites
	D13.13	Johny Wahyuadi Soedarsono, Andi Rustandi, Felix Liyono, Antonius Herry Cahyana	Dept of Metallurgy and Materials, Faculty of Engineering, University of Indonesia	Study Of Mixing Purple Sweet Potato And Turmeric Extract As Green Corrosion Inhibitor For API-5L Steel Pipe In NaCl 3,5% Environment

## SYMPOSIUM E: INTERNATIONAL SYMPOSIUM OF I-DWELL 2015 (ARCHITECTURE)

### SESSION E1. Reconstruction Dwelling and Multiple Dwelling Scopes

Chair : Kristanti Dewi Paramita

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Parigata

Time	No	Authors	Affiliation	Title
1.00 - 1.30 pm	E1.1	Paramita Atmodiwirjo, M. Mirza Y. Harahap, Yandi Andri Yatmo	Department of Architecture, Faculty of Engineering, Universitas Indonesia	Dwelling Spatial Arrangement, Active Body Movement, And Health
1.30 - 1.45 pm	E1.2	Dyah Kusuma Wardhani	Interior Architecture Lecturer, Department of Interior Architecture, Universitas Ciputra	Site Planning Of Pottery Craftmen's Settlement With Community Based Development Approach
1.45 - 2.00 pm	E1.3	Feni Kurniati, Bunga Sakina Adrian Immanuel	Graduate Student, School of Architecture, Planning and Policy Development, ITB	Adaptation Pattern Of Social Interaction From Horizontal To Vertical Housing Study Case In Industri Dalam And Cigugur Tengah Flat
2.00 - 2.15 pm	E1.4	Boedi Darma Sidi	Institut Teknologi Bandung	Integrated Subsidized Infrastructure In Informal Housing Development For Sustainable City In Bandung
2.15 - 2.30 pm	E1.5	Nurul Nadjmi, Wiendu Nuryanti, Budi Prayitno	Department of Architecture, Faculty of Engineering, Gajah Mada University	Concept Of Tourism Destination Network Metropolitan Islands In Batam, Bintan, And Karimun
2.30 - 2.45 pm	E1.6	Kennedy Rosemary	Centre for Subtropical Design, School of Design, Creative Industries Faculty, QUT, GPO Box 2434 Brisbane, 4001, Australia	The Path Less Travelled: Vertical Circulation Spaces In Apartment Buildings In The Subtropics
2.45 - 3.00 pm	E1.7	Evawani Ellisa, Gita Andriani	Lecturer, Department of Architecture, Universitas Indonesia	The Route And Journey Of Tree Houses

### SESSION E2. Situat(ing) Dwelling

Chair : Yandi Andriyatmo

Wednesday, 12 August 2015, 8.00 – 10.15 am

Venue : Parigata

Time	No	Authors	Affiliation	Title
08.00-08.15 am	E2.1	Bintang Noor Prabowo, Arnis Rochma Harani, Resza Riskiyanto	Architecture Department of Diponegoro University	Revitalizing Old City Heritage Area: Mental-Mapping Urban Image Of Semarang Old City
08.15-08.30 am	E2.2	Elita Nuraeny	Universitas Indonesia	Reducing Causes Of Women's Fear Of Crime In Underground Station: The Importance Of Good Surveillance And Wayfinding
08.30-08.45 am	E2.3	Vania Dwi Amanda Surya, Rossa Turpuk Gabe	Universitas Indonesia	In Dwelling: The Tradition Of Eating Activities On Urban Minangnese
08.45-09.00 am	E2.4	Ade Amalia, Albertus Bobby Widagdo	Department of Architecture, Faculty of Engineering, Universitas Indonesia	Development Of Sea Dwelling : Bajau Tribe
09.00-09.15am	E2.5	Ima Rachima, Maulina Dian	Institut Sains dan Teknologi Nasional	Traditional Architecture Local Wisdom Case Study : Penglipuran Village , Bali
09.15-09.30 am	E2.6	I Nyoman Gede Maha Putra	Joint Centre for Urban Design, Department of Planning, Oxford Brookes University	Place Identity Of Denpasar In A Rapidly Developing Urban Environment
09.30-09.45 am	E2.7	Sri Wulandari, Annisa Dienfitriah	Architecture Student, Department of Architecture, Universitas Indonesia	Where Is House? Urban Dwelling, Dwelling In Urban?
09.45-10.00 am	E2.8	Ivan Nasution	Centre for Sustainable Asian Cities, Department of Architecture, National University of Singapore	Dwelling A Public Space
10.00 - 10.15 am	E2.9	Enira Arvanda, Nevine Rafa Kusuma, Rini Suryantini	Lecturer, Department of Architecture, Universitas Indonesia	Temporary Inhabitation As A Strategy To Alleviate Negative Perception Of Underground Transit Spaces

**SESSION E3. Dwelling (Im)materiality**

**Chair: Evawani Ellisa**

Wednesday, 12 August 2015, 10.30 – 11.45 am

Venue : Parigata

Time	No	Authors	Affiliation	Title
10.30-10.45 am	E3.1	Bambang Soemardiono, Achmad Maksum, Defry Agatha Ardianta	Department Of Architecture, Institut Teknologi Sepuluh Nopember (ITS)	City Park As Sustainable Urban Open Space By Considering Community Based Analysis
10.45-11.00 am	E3.2	Rossa Turpuk Gabe, Gregorius Gegana	Department Of Architecture, Faculty Of Engineering, Universitas Indonesia	The Potential Of Traditional Modular Prefabricated Housing For Indonesian Dwelling Culture
11.00-11.15 am	E3.3	Yuni Sri Wahyuni, Dewi Larasati Zr, Siswanti Zuraida	Graduate School Of Architecture, Institut Teknologi Bandung	Model Of Embodied Energy Calculation For Low Cost Housing In Indonesia
11.15-11.30 am	E3.4	Azizi Bahaudin, Aldrin Abdullah	School Of Housing, Building & Planning, Universiti Sains Malaysia, Malaysia	The Materiality Of The Rungus Longhouse – In Harmony With Nature
11.30-11.45 am	E3.5	KristantiDewiParamita	Department Of Architecture, Faculty Of Engineering, Universitas Indonesia	Indeterminate Boundaries: Dwelling In Neighbourhood Facing Recurring Flooding

**SESSION E4. Dwelling (Im)materiality**

**Chair: Paramita Atmodiwirjo**

Wednesday, 12 August 2015, 1.00 – 3.00 pm

Venue : Parigata

Time	No	Authors	Affiliation	Title
<b>1.00 - 1.30 pm</b>	<b>E4.1 (Invited)</b>	<b>Professor Veronica Soebarto, Ph.D.</b>	<b>Architecture &amp; Sustainability</b>	<b>Seventy one shades of green: Which green is a ‘green architecture’?</b>
1.30 -1.45 pm	E4.2	Bambang Soemardiono, Eko Budi Santoso, Defry Agatha Ardianta	Jurusan Arsitektur FTSP ITS	Model Of Sustainable City Based On Interrelationship Of Modality Aspects In Surabaya
1.45 - 2.00 pm	E4.3	Diane Valerie Wildsmith	University Of Indonesia Department Of Architecture	I-Dwell: Transforming Heritage To Eco-Sustainability
2.00 - 2.15 pm	E4.4	Yasmin Suriasyah	Architecture Department Faculty Of Engineering Universitas Katolik Parahyangan Bandung Indonesia	Correlation Between Architectural Designs With Thermal Ambient On Residential Units In Mass Public Housing (MPH) Sarijadi In Bandung Indonesia
2.15 - 2.30 pm	E4.5	Irma Novrianty Nasution, Syahreza Alvan	Universitas Negeri Medan	A Sustainable Construction Planning Model For Housing In The City Of Medan
2.30 - 2.45 pm	E4.6	Verry Lahamendu	University Of Sam Ratulangi Manado	Suitability Analysis Of Sustainable Land Use On The Island Of Bunaken Manado
2.45 - 3.00 pm	E4.7	Sahid, DewiLarasatiZr, Prinka Victoria	Graduate School Of Architecture, Institutteknologi Bandung (ITB)	Towards Implementation Of Green Criteria In Indonesia; Needs And Reality

## SYMPOSIUM F : CHEMICAL AND BIOPROCESS ENGINEERING

### SESSION F1. Bio

Chair : Mahidin A. Taleb

Tuesday, 11 August 2015, 1.00 - 3.00 pm

Venue : Rinjani I

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	F1.1	Shen Long Tsai, Yuana Elly Agustin	University of Surabaya	The Effect of Storage Temperature for the Detection of Silver Nanoparticles via Engineered Biomolecules
1.30 - 2.00 pm	F1.2	Mulawarman	University of Sriwijaya	Heterorhabditis Bacteriophora as Promised Biopesticide to Control Insect Pest Oryctes Rhinoceros in Indonesia
2.00 - 2.15 pm	F1.3	Sri Bandiati Komar	Padjajaran University	Increased of Lamb Production on Padjajaran Sheep Through the Application of Synchronization Estrus and Artificial Insemination Innovation
2.15 - 2.30 pm	F1.4	Lie Hwa	University of Surabaya	Zero Order Degradation Rate of Vitamin C in Fresh Orange and Strawberry Juices without Any Preservatives During Storage
2.30 - 2.45 pm	F1.5	Ahmad Saufi	Ministry of Research Technology and Higher Education, Indonesia	Research Consortium to Improve the Productivity and the Relevance of Science and Technology

### SESSION F2. Energy

Chair : Mulawarman

Tuesday, 11 August 2015, 3.30 - 5.00 pm

Venue : Rinjani I

Time	No.	Authors	Affiliation	Title
3.30 - 3.45 pm	F2.1	Anies Mutiari, Supomo	Center for Material and Technical Product	Mathematical Modelling in CO <sub>2</sub> Adsorption Using Strong Base Anion Exchange Resin as Adsorbent for Biogas Purification
3.45 - 4.00 pm	F2.2	Mahidin A. Taleb	Syiah Kuala University	Reduce the Energy Consumption and Greenhouse Gas Emission by Flare and Vented Gas Recovery: an Experience in Arun LNG Plant
4.00 - 4.15 m	F2.3	Mahidin A. Taleb	Syiah Kuala University	Possibility Use of Green Mussels Shell as a Desulfurizer in Combustion of Low Rank Coal-Biomass Briquette

### SESSION F3. Material, Material/Simulation

Chair : Misri Gozan, Riezqa Andika

Tuesday, 11 August 2015, 1.00 - 3.00 pm

Venue : Rinjani 2

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	F3.1 (Invited)	Prof. Masafumi Yohda	Tokyo University	Advancement of Next generation DNA Sequencers and Its Application
1.30 - 2.00 pm	F3.6 (Invited)	Misri Gozan	University of Indonesia	The Prospect of POME-based Biogas Power Plant in Indonesia
2.00 - 2.15 pm	F3.3	Natalia Suseno	University of Surabaya	Study of Different Operating Conditions During Carboxymethyl Chitosan Synthesis
2.15 - 2.30 pm	F3.4	Galuh Yuliani, Kartiko Laksono	University of Education	Adsorption of Cr, Fe, Cd, Co Ions onto Raw and Treated Indonesian Sub-bituminous Coal
2.30 - 2.45 pm	F3.5	Erry Purnomo	University of Borneo	Application of Low Input Technology for Sustainable Rice Industry in Tropical Tidal Swampland in Kalimantan Indonesia

### SESSION F4. Energy, Extraction, Waste

Chair : Mahmud Sudibandriyo

Tuesday, 11 August 2015, 3.30 - 5.00 pm

Venue : Rinjani 2

Time	No.	Authors	Affiliation	Title
3.30 - 3.45 pm	F4.1	Riezqa Andika	Yeungnam University	Simulation of Syngas Treatment Process in an IGCC Power Plant
3.45 - 4.00 pm	F4.2	Herawati Budiastuti, P. Pullamman Pappallil, R. Cord-Ruwisch	State Polytechnic of Bandung, University of Florida, Murdoch University	Addition of Granular Rubber Tire Carriers in Enhancing Performance of Anaerobic Moving Bed Reactors
4.00 - 4.15 pm	F4.3	Ahmad Tawfiequrrahman Yuliansyah	UGM	Pyrolysis of Plastic Waste to Produce Pyrolytic Oil as an Alternative Fuel
4.15 - 4.30 pm	F4.4	Sarwono Mulyono Mulyoprayitno	King Saud University	Desulfurization Using Lactic Acid Based Deep Eutectic Solvents
4.30 - 4.45 pm	F4.5	Wiratni Budhijanto, Deen Darlianto, Heppy Kristiyani, Dodi Satriawan	UGM	Enhancement of Aerobic Waste Water Treatment by the Application of Attached Growth Microorganisms and Micro Bubble Generator
4.45 - 5.00 pm	F4.6	Galuh Yuliani, Ratna Agustiniingsih	University of Education	Application of a Simple Electrocoagulation (EC) Apparatus using Aluminum (Al) Electrodes for Colour Removal from Aqueous Solution

**SESSION F5. Adsorption, Bio, Material/Simulation****Chair : Heri Hermansyah**

Wednesday, 12 August 2015, 8.00 - 10.00 am

Venue : Rinjani 1

Time	No.	Authors	Affiliation	Title
08.00-08.15 am	F5.1	Mahmud Sudibandriyo	University of Indonesia	Adsorption Capacity and Its Dynamic Behavior of the Hydrogen Storage on Nanotube Carbon
08.15-08.30 am	F5.2	Misri Gozan	University of Indonesia	Simulation of Vapor Permeation and Distillation-Adsorption for Ethanol Purification
08.30-08.45 am	F5.4	Heri Hermansyah	University of Indonesia	Cultivation of <i>Saccharomyces cerevisiae</i> using Lignocellulosic Hydrolysate from Empty Fruit Bunch
08.45-09.00 am	F5.5	Muhamad Sahlan	University of Indonesia	Encapsulation of Indonesian Herbs by Casein Micelle
09.00-09.15 am	F5.6	Misri Gozan	University of Indonesia	Simulation of Levulinic Acid Production Plant from Sorghum bicolor
09.15-09.30 am	F5.7	Yuswan Muharam	University of Indonesia	Mathematical Model of Controlled Potassium Chloride Release Systems from Chitosan Microspheres
09.30-09.45 am	F5.8	Yoki Yulizar	Universitas Indonesia	Deaggregation Process of Wax in Crude Oil Model with Ester Oxirane Copolymer

**SESSION F6. Energy****Chair : Yuswan Muharam**

Wednesday, 12 August 2015, 10.30 - 12.00 am

Venue : Rinjani 1

Time	No.	Authors	Affiliation	Title
10.30-10.45 am	F6.1	Bambang Heru Susanto	University of Indonesia	Analytical Representations of Experimental Palm Oil Hydrodeoxygenation for Renewable Diesel Production
10.45-11.00 am	F6.2	Abdul Wahid	University of Indonesia	Compressor and Steam Reformer Control in Biohydrogen from Biomass Plant Using Model Predictive Control Based on System Re-Identification
11.00-11.15 am	F6.3	Widodo Wahyu Purwanto, Dijan Supramono, Rahma Muthia, Muhamad Fakri Firdaus	University of Indonesia	Effect of Biomass Types on Bio-oil Characteristics in Fast Pyrolysis Process with Ni/ZSM-5 Catalyst
11.15-11.30 am	F6.4	Tania Surya Utami, Rita Arbianti	University of Indonesia	Sea Water Desalination Using <i>Debaryomyces hansenii</i> with Microbial Desalination Cell Technology
11.30-11.45 am	F6.5	Eny Kusriani, Dijan Supramono, Yoki Yulizar, Saeful Pranata	University of Indonesia	Effect of Mass Ratio of Biomass and Plastic Waste on the Yield and Composition of Biooil Production



### SESSION F7. Bio, Energy

Chair : Abdul Wahid

Wednesday, 12 August 2015, 3.00 - 3.30 pm

Venue : Rinjani 3

Time	No.	Authors	Affiliation	Title
3.00 - 3.15 pm	F7.1	Dewi Tristantini, Gracia Caroline Franswijaya	University of Indonesia	An Activity Test of Butterfly Pea ( <i>Clitoria tematea</i> L.) Aqueous Extract to Decay Sodium and Calcium Ions in Cortical Cataract Model
3.15 - 3.30 pm	F7.2	Dijan Supramono	University of Indonesia	The Effect of Heating Rate of Torrefaction of Sugarcane Bagasse on its Physical Characteristics

### SESSION F8. Material

Chair : Sutrasno Kartohardjono, Asep Handaya Saputra

Wednesday, 12 August 2015, 8.00 - 10.00 am

Venue : Rinjani 2

Time	No.	Authors	Affiliation	Title
08.00-08.15 am	F8.1	Tuti Indah Sari, Asep Handaya Saputra, Setijo Bismo, Dadi R. Maspanger, Adi Cifriadi	University of Indonesia	The Effect of Styrene Monomer in The Graft Copolymerization of Acrylonitrile onto Deproteinized Natural Rubber
08.15-08.30 am	F8.2	Asep Handaya Saputra, Muhammad Shohibi	University of Indonesia	Effect of Fly Ash Fortification in the Manufacture Process of Making Concrete Towards Characteristics of Concrete in Sulfuric Acid Solution
08.30-08.45 am	F8.3	Asep Handaya Saputra, Gabriella Andini, Hana Nabila Anindita	University of Indonesia	Synthesis of Nata de Coco Fiber Composite With Conductive Filler as An Eco-Friendly Semiconductor Material
08.45-09.00 am	F8.4	Praswasti PDK Wulan, Widodo Wahyu Purwanto, Mahmud Sudibandiryo	University of Indonesia	Synthesis of Aligned Carbon Nanotube (ACNT) through Catalytic Decomposition of Methane by Water-Assisted Chemical Vapor Deposition (WA-CVD)
09.00-09.15 am	F8.5	Nelson Saksono, Ratih Tien Seratri, Setijo Bismo, Rahma Muthia	University of Indonesia	Phenol Degradation in Waste Water by Contact Glow Discharge Electrolysis (Cgde) Method Using Na <sub>2</sub> so <sub>4</sub> Solution
09.15-09.30 am	F8.6	Sutrasno Kartohardjono	University of Indonesia	Ammonia Removal form Wastewater through Polypropylene Hollow Fiber Membrane Contactor
09.30-09.45 am	F8.7	Desi Heltina, Praswasti PDK Wulan, Prof. Slamet	University of Indonesia	Synthesis and Characterization of Titania Nanotube-Carbon Nanotube Composite for Degradation of Phenol
09.45-10.00 am	F8.8	Eva Fathul Karamah, Shinta Leonita, Setijo Bismo	University of Indonesia	Phenols Removal Using Ozonation-Adsorption with Granular Activated Carbon (Gac) in Rotating Packed Bed Reactor

**SESSION F9. Poster Session for Chemical Engineering****Chair**

Wednesday, 12 August 2015 10.00 - 10.30 am; 12.00 - 1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue : Pre-Function Hall

Time	No.	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00pm; 3.00 - 3.30pm; 5.00-7.00pm	F9.1	Jenny N.M. Tan-Soetedjo, Carolus B. Rasrendra, Hero J. Heeres	Parahyangan University ; University of Groningen ; ITB	The Effect of Inorganic Salts in the Hydrolysis of Xylose to Furfural
	F9.2	Yuliusman	University of Indonesia	Preparation of Activated Carbon from Oil Palm Shell by Activating KOH as CO Gas Adsorbent and Purification of Fire Smoke
	F9.3	Didin Mujahidin	ITB	Chemical Synthesis as a Crucial Tool in a Sustainable High Value Added Economy: ETBE Synthesis
	F9.4	Mohammad Nasikin	University of Indonesia	Extraction CaCO <sub>3</sub> on Asbuton with Acidic Brine Water Solution Using CO <sub>2</sub> Gas Cycle Method
	F9.5	Edy Sanwani, Tri Wahyuningsih, Siti Khodijah Chaerun	ITB	Role of Biosurfactant-Producing Bacteria in Biomodification of Sulfide Copper Minerals: Implications for Sulfide Bioflotation Processes
	F9.6	Kamarza Mulia	University of Indonesia	Selective Polarity-Guided Extraction and Purification of Acetogenins in Soursop Leaves ( <i>Annona muricata</i> L.)
	F9.7	Elsa Krisanti	University of Indonesia	Natural Deep Eutectic Solvent (NADES) as Green Solvent for Extraction of $\pm$ -Mangostin from <i>Garcinia mangostana</i> L. Pericarp
	F5.3	Nelson Saksono, Marcella Septya Meidiana, Dimas Riskalrawan, Setijo Bismo	University of Indonesia	Effect of Selective Membrane Utilization to Produce Chlorine by Plasma Electrolysis Method

## SYMPOSIUM G: INDUSTRIAL ENGINEERING

### SESSION G1. Optimization and Distribution

Chair : Armand Omar Moeis, ST.MSc

Tuesday, 11 August 2015, 1.00 – 3.00 pm

Venue : Gili Trawangan

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.30 pm	G1.1 (invited)	Prof. Hirano	Shibaura Institute of Technology	Innovation for Sustainable Development based on ICT Platform
1.30 - 1.45 pm	G1.2	Agustina Christiani, Helena Juliana Kristina, Ryanto Hartono, Petrick Halim	Universitas Pelita Harapan	A Framework for Sustainable Manufacturing in Indonesia
1.45 - 2.00 pm	G1.3	Akhmad Hidayatno, Irvanu Rahman, and Ricki Muliadi	Universitas Indonesia	System Dynamics Modeling for Sustainability Assessment of Green House Gases Impacts on Jakarta's Urban Development: Options for Policy Makers
2.00 - 2.15 pm	G1.4	Akhmad Hidayatno, Aziiz Sutrisno, Arry Rahmawan, Hasna Afifah	Universitas Indonesia	Risk Model on Business Model of Mobile Refuelling Unit (MRU) for Natural Gas Vehicle
2.15 - 2.30 pm	G1.5	Armand Omar Moeis, Irvanu Rahman, and Wulan Maulidiah	Universitas Indonesia	Risk Impact Analysis on Investment of Drinking Water Supply System Development Towards Financial Value Using Project Risk Management
2.30 - 2.45 pm	G1.6	Armand Omar Moeis, Komarudin, and Ramadhianto Agung Wibowo	Universitas Indonesia	Simulating Implementation Result of Port Expansion Plan Using Agent Based Modelling
2.45 - 3.00 pm	G4.4	Dian Retno Sari Dewi, Sianto, Martinus Edy	Unika Widya Mandala Surabaya	Production Assembly Line Balancing by considering The Performance Rating of the Operator

### SESSION G2. Design and Ergonomics

Chair : Dr. Ing. Amalia Suzaianti, ST.MSc

Tuesday, 11 August 2015, 3.00 – 5.00 pm

Venue : Gili Trawangan

Time	No. ID	Authors	Affiliation	Title
3.30 - 3.45 pm	G2.1 (invited)	Prof. Umemuro	Tokyo Institute of Technology	Affective quality: Products, services, and management that provide with affective experiences
3.45 - 4.00 pm				
4.00 - 4.15 pm	G2.2	Linda Studiyantri, Yassierli	Institut Teknologi Bandung, Indonesia	Usability Issues in Designing Al-Qurâ€™an Application of Touch Screen Device for Low Vision People
4.15 - 4.30 pm	G2.3	Desinta Rahayu Ningtyas, Yassierli	Institut Teknologi Bandung	Design of Fatigue Monitoring Apparatus Based On Critical Flicker Fusion Frequency
4.30 - 4.45 pm	G2.4	Chia-Fen Chi, Shabila Anjani, Dong-Yu Hsieh	National Taiwan University of Science and Technology	Evaluation of Car Icons Using a Decision Tree
4.45 - 5.00 pm	G2.5	Amalia Suzaianti, Nurza Dwi Prisca Faradilla	Universitas Indonesia	Consumer Preference Analysis on Fashion Online Shop Using Kano Model and Conjoint Analysis

**SESSION G3. Production and Quality Engineering****Chair : Arry Rahmawan , ST.MT**

Wednesday, 12 August 2015, 8.00 – 10.00 am

Venue : Edelweiss

Time	No. ID	Authors	Affiliation	Title
8.00 - 8.15 am	G3.1	Akhmad Hidayatno, Irvanu Rahman, Benita Dian Purnamasari	Universitas Indonesia	Risk Impact Analysis on Investment for Drinking Water Supply System Development Project in Bekasi Using Project Risk Management
8.15 - 8.30 am	G3.2	Hendry Sakke Tira, Yesung Allo Padang, Mirmanto, Tri Rachmantol, d, Made Wirawan, I Made Nuarsa, and Muhammad Irwan	University of Mataram	Reducing CO2 and H2S Content in Biogas through Improved Circulated Water Scrubbing Method
8.30- 8.45 am	G3.3	Akhmad Hidayatno, Arry Rahmawan and Aqmayrina	Universitas Indonesia	The Design of MRT Jakarta Smart Card Ticketing System using System Engineering Methods – ISO 15288
8.45 - 9.00 am	G3.4	Hennie Husniah, Bermawi. P. Iskandar	Langlangbuana University	Performance-Based Maintenance Contract With Dynamic Environment For Two Dimensional Warranty Product
9.15 - 9.30 am	G3.5	Hennie Husniah, Bermawi. P. Iskandar	Langlangbuana University	Maintenance Contract With Dynamic Environment For Two Dimensional Service Contract
9.30 - 9.45 am	G3.6	Erna Styani, Noviar Dja'var, Nur Hasanah, Arie Pratama Putra	Academy of Cheical Analysis Bogor	Prototype Waste Water Processing Equipment Based on Ozone and UV-C for Home and Small Industries
9.45-10.00 am	G3.7	Yadrifill, Rama Raditya, and Tatria Ariesta	Departemen Teknik Industri UI, Kampus Baru UI Depok	The Design of Performance Measurement System in Supply Chain Aspect of Oil and Gas Company Using Balanced Scorecard and Analytic Network Process Method

**SESSION G4. Production and Quality Engineering****Chair : Prof. T. Yuri M Zagloel**

Wednesday, 12 August 2015, 10.30 – 12.00 am

Venue : Edelweiss

Time	No. ID	Authors	Affiliation	Title
<b>10.30 - 10.45 am</b>	<b>G4.1 (invited)</b>	<b>Prof. Leisten</b>	<b>University of Duisburg-Essen</b>	<b>Production Systems and Sustainability</b>
<b>10.45 - 11.00 am</b>				
11.00 - 11.15 am	G4.2	Nunung Nurhasanah, Faikar Ridwan Harimansyah	Universitas Al Azhar Indonesia	Designing Production Scheduling with Fuzzy PERT to Solve Resource Constraints through Langâ€™s Algorithm at CV. Mulia
11.15 - 11.30 am	G4.3	Teuku Yuri M. Zagloel, Andina Rahmasari, Amalia Suzianti	Universitas Indonesia	Design of Inspection Plan and Work Measurement of Packaging Material Inspection Activity in a Baby Milk Industry
11.30 - 11.45 am	G4.5	Difana Meilani, Dicky Fatrias, Anggita Prima Alda	Andalas University	Improving Service Quality towards Patientsâ€™ Satisfaction at Stroke Hospitals in West Sumatera

**SESSION G5. Production and Quality Engineering**

**Chair : Ir. Djoko Sihono Gabriel, MT**

Wednesday, 12 August 2015, 1.00 – 2.45 pm

Venue : Edelweiss

Time	No. ID	Authors	Affiliation	Title
1.00 - 1.15 pm	G5.1	Nika Awalistyanningrum , Jumeri, Wahyu Supartono	Universitas Gadjah Mada	Optimization Of Skipjack Tuna (Katsuwonus Pelamis) Quality Factors In Chilled Box Storage Using Taguchi Method
1.15 - 1.30 pm	G5.2	Djoko Sihono Gabriel	University of Indonesia	Development of Recycled Plastic Producer's Capability Indicator Using Material Testing Results and Radar Chart
1.30 - 1.45 pm	G5.3	Markus Hartono	University of Surabaya INDONESIA	The extended integrated model of Kansei Engineering, Kano and TRIZ incorporating cultural differences in services
1.45 - 2.00 pm	G5.4	Aldrich Zuriel, Laurence, Eric Jobiliong	University of Pelita Harapan	Optimize Parameters Using Moving Average, Turtle And Awesome Oscillator
2.15 - 2.30 pm	G5.5	Ardy Wibowo Haryanto, Yustinus Eko Soelistio, Adhi Kusnadi	Universitas Multimedi Nusantara	Warehouse Layout Method Based on Ant Colony and Backtracking Algorithm
2.30 - 2.45 pm	G5.6	Anis Septiani, Yassierli	Istitute Taknologi Bandung	The Prevalence of Musculoskeletal Complaints Among Workers in Oil Palm Plantation

**SESSION G6. Optimization and Distribution**

**Chair : Dr. Hennie Husniah**

Tuesday, 11 August 2015, 1.00 – 2.45 pm

Venue : Narmada

Time	No. ID	Authors	Affiliation	Title
<b>1.00 - 1.30 pm</b>	<b>G1.1 (invited)</b>	<b>Prof. Hirano</b>	<b>Shibaura Institute of Technology</b>	
1.30 - 1.45 pm	G6.1	Hennie Husniah, A K Supriatna	Langlangbuana University	Optimal Fleet of Leased Equipment with Preventive Maintenance
1.45 - 2.00 pm	G6.2	Farizal, Wenty	Universitas Indonesia	Factors Affecting Consumers Choosing A Gas Station Determination With Factor Analysis Method
2.00 - 2.15 pm	G6.3	Hafid Abdullah	Metal Industries Development Centre (MIDC) Ministry of Industry	Analysys of the workplace culture 5S for continuous improvement on foundry industries in Indonesia
2.15 - 2.30 pm	G6.4	Rahmat Nurcahyo, Tumbur Agustin Hutagaol, Djoko S.Gabriel, Alan Dwi Wibowo	Industrial Engineering Dept, Faculty of Engineering, Universitas Indonesia	Business Process Reengineering (BPR) implementation in Automotive SPARE Parts Trading Company
2.30 - 2.45 pm	G6.5	Alfian, Henry Susanto, Yogi Yusuf Wibisono	Universitas Katolik Parahyangan	Service Quality Measurement and Improvement for Restaurant X Using Dineserve

**SESSION G7. Optimization and Distribution****Chair : Irvanu Rahman, ST.MT**

Tuesday, 11 August 2015, 3.30 – 5.00 pm

Venue : Narmada

Time	No. ID	Authors	Affiliation	Title
3.30 - 3.45 pm	G2.1 (invited)	Prof. Umemuro	Tokyo Institute of Technology	Affective quality: Products, services, and management that provide with affective experiences
3.45 - 4.00 pm				
4.00 - 4.15 pm	G7.1	Anastasia Lidya Maukar, Veronika	President University	Application of Response Surface Methodology of Experimental Designs on Welding Operation Settings to Reduce the Defects of Miniature Circuit Breaker Rating 2 Ampere
4.15 - 4.30 pm	G7.2	Andira, Anastasia L. Maukar, Tara Septiana	President University	Reduction of Bubble Defect Using Two-level Full Factorial Design in Rotocast Area of PT. Xi
4.30 - 4.45 pm	G7.3	Chia-Fen Chi, Ratna Sari Dewi, Yopie Yutama Surbakti, Min-Hua Huang, Budi Hartono	UGM and NTUST	Ergonomic Evaluation of Interior Car Sound
4.45 - 5.00 pm	G7.4	Chia-Fen Chi, Ratna Sari Dewi, Aliza Ardana, Wu-Yi Lin, and Anna Maria Sri Asih	National Taiwan University of Science and Technology, Universitas Gadjah Mada	Fraud Development in Taiwan & Indonesia: How to get the victim

**SESSION G8. Poster Session for Industrial Engineering****Chair : Inaki Maulida Hakim, ST.MT**

Tuesday, 11 August 2015, 10.00 - 10.30 am; 12.00 - 1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue : Pre-Function Hall

Time	No. ID	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 - 1.00pm; 3.00 - 3.30pm; 5.00-7.00pm	G8.1	Boy Nurtjahyo Moch, Erlinda Muslim, Maya Arlini Puspasari, Frita Afrianty Triswara	Universitas Indonesia	Subtitle Design of Parental Guidance Movie Program on Indonesian Television
	G8.2	Maya Arlini Puspasari, Erlinda Muslim, Boy Nurtjahyo Moch, Andreas Aristides	Universitas Indonesia	Fatigue Measurement in Car Driving Activity using Physiological, Cognitive, and Subjective Approaches
	G8.3	Erlinda Muslim, Boy Nurtjahyo Moch, Maya Arlini Puspasari, Raja Alfredo Siregar	Universitas Indonesia	Fatigue Measurement of Driving Activity on Male Motorcycle Driver based on Cognitive, Psychophysical, and Subjective Approach
	G8.4	Isti Surjandari, Arian Dhini, Archangela Puteri Andreyanti, Maya Arlini Puspasari	Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia	Comparative Analysis of Artificial Neural Network and Lognormal Distribution Methods for Designing Predictive Maintenance Scheduling

**SESSION G9. Poster Session for Industrial Engineering**

**Chair:**

Tuesday, 11 August 2015, 10.00 - 10.30 am; 12.00 -1.00pm; 3.00 - 3.30pm; 5.00-7.00pm

Venue :Pre-Function Hall

Time	No. ID	Authors	Affiliation	Title
10.00 - 10.30 am; 12.00 -1.00pm; 3.00- 3.30pm; 5.00-7.00pm	G9.1	Arian Dhini, Isti Surjandari, Muhammad Riefqi, Maya Arlini Puspasari	Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia	Forecasting Analysis of Consumer Goods Demands Using Neural Networks and ARIMA
	G9.2	Inaki Maulida Hakim , Vidyahningtyas Istiyanti	Departemen Teknik Industri, Fakultas Teknik, Universitas Indonesia	Improvement Of Facility Planning Re-Layout For Secondary Packaging Area Of A Pharmaceutical Company In Indonesia Using Corelap Method
	G9.3	Alfian, Verina Stephanie Juliana, and Yogi Yusuf Wibisono	Universitas Katolik Parahyangan	Implementation of Analytic Network Process for Selecting Supplier of Aluminum at PT X
	G9.4	Farizal, Ignasia Tuning MP	Universitas Indonesia	Steel Warehouse Location Determination For JABODETABEK and Jawa Barat Distriburion Areas

## SYMPOSIUM H: COMMUNITY DEVELOPMENT

### SESSION H1. COMDEV

Chair :Dr. Muhammad Suryanegara, ST, M.Sc

Tuesday, 11 August 2015, 1.00 – 3.45 pm

Venue : Edelweiss (Lombok Garden Hotel)

Time	No.	Authors	Affiliation	Title
1.00 - 1.30 pm	H1.1 (Invited)	Rokiah Omar, BOptom., PhD.	Universiti Kebangsaan Malaysia, Malaysia	Institutionalization and Mainstreaming of Community Engagement in High Education Institutions
1.30 - 1.45 pm	H1.2	Rosalita Agustini, Yusinta Natalia Fina, and Junus J Beliu	Universitas Terbuka	Implementation Of Local Cultural Policy Management Wisdom (Rate Lom) In District Bangka Belitung Islands
1.45 - 2.00 pm	H1.3	Nyoman Suwartha, and Erly Bahsan	Universitas Indonesia	Toward a Green Sustainable Campus: Lessons Learned from Conserving Water in the Faculty of Engineering, Universitas Indonesia
2.00 - 2.15 pm	H1.4	Ahmad Zuhdi, Anna SN Dasril, and Sri Yani Kusumastuti	Universitas Trisakti	Analysis and Design of Knowledge Management System for Agribusiness Community Development,
2.15 - 2.30 pm	H1.5	Teti Zubaidah, Bulkis Kanata, and Made Sutha Yadnya	Universitas Mataram	Originally Antipathy Turn into Care for Disaster Preparedness
2.30 - 2.45 pm	H1.6	Budiarto Subroto, and Oscar Tiku	Sahid University Jakarta	The Influence of Economic, Socia-cultural, and Environmental of Tourism Toward Pro-poor Tourism Initiatives in Bunaken National Marine Park
2.45 - 3.00 pm	H1.7	Achmad Hery Fuad	Universitas Indonesia	Behind The Bars, Opportunity for Local People. Lesson From Cikini Jakarta
3.00 - 3.15 pm	H1.8	Wahyuni Ilham	Universitas Lambung Mangkurat South Kalimantan	Building A Satellite Imagery Supported Land Inventory System As A Base Model To Prepare An Biodiversity Approach For Mine Closure Program In Wetland Area
3.15 – 3.30 pm	H1.9	Agustino Zulys	Universitas Indonesia	Iron Fortification on Soy-Based Food to Overcome Anemia Diseases in Indonesia
3.30 – 3.45 pm	H1.10	Rossa Turpuk Gabe	Universitas Indonesia	Educative Playroom in Public Housing