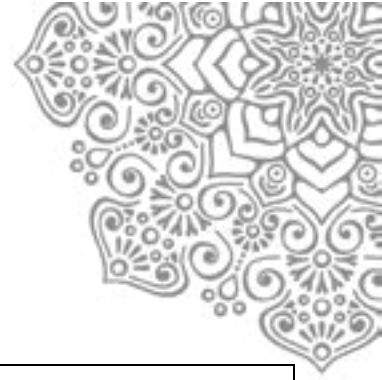




Mech 1A : Advanced Vehicle Engineering						
Tuesday, July 25, 2017 13.00-15.00						
Bandung Room 2nd fl						
Session Chair : Prof. Dr. Ir. R. Danardono						
No	Paper #	ID	Author	Title	Affiliation	Time
1	696	ME1A - 1	Fuad Zainuri, Danardono Sumarsono, Muhammad Adhitya and Rolan Siregar	Develpolment a New Generation of Synchromesh Mechanism to optimization Manual Transmission's Electric Vehicle	Universitas Indonesia, Indonesia	13.00-13.15
2	404	ME1A - 2	Danardono Agus Sumarsono and Mohammad Malawat	Optimization of Impact Energy Absorber Parameters for Automobile Crush Box Using Response Surface Method	Universitas Indonesia, Indonesia	13.15-13.30
3	381	ME1A - 3	Darjat Darjat, Sulistyo Sulistyo, Aris Triwiyatno and Humaid Thalib	Designing Solid Oxide Fuel Cell (SOFC) Integrated Grid Using The Three-Phase Inverter	Diponegoro University, Indonesia	13.30-13.45
4	435	ME1A - 4	Mohammad Adhitya, Muchamad Aditya Rachmanto, Danardono Agus Sumarsono and Sudirja Sudirja	Electric Car Conversion Components Layout Arrangement and Their Effects on Center of Gravity Location	Universitas Indonesia, Indonesia	13.45-14.00
5	436	ME1A - 5	Mohammad Adhitya, Mohammad Ikhsan and Danardono Agus Sumarsono	The Vehicle Longitudinal Dynamic Simulation to Select the Optimum Gear Ratio Combination of Electric Vehicle Conversion	Universitas Indonesia, Indonesia	14.00-14.15
6	530	ME1A - 6	Sonki Prasetya, Ghany Heryana, Yudan Whulanza, Mohammad Adhitya and Danardono Agus Sumarsono	A Preliminary Case Study of A Electric Commuter Bus in Universitas Indonesia	Universitas Indonesia, Indonesia	14.15-14.30
7	499	ME1A - 7	Didik Djoko Susilo, Achmad Widodo, Toni Prahasto and Muhammad Nizam	State of Health Estimation of Lithium-ion Batteries Based on Combination of Gaussian Distribution Data and Least Square Support Vector Machine Regression	Diponegoro University, Indonesia	14.30-14.45



8	95	ME1A - 8	Harinaldi Harinaldi, Ramon Trisno and Dewi Larasati	The effect of Excitation Modes of Synthetic Jet Actuator on The Aerodynamic Drag Component of The Reversed Ahmed Body Model	Universitas Indonesia, Indonesia	14.45-15.00
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Mech 1B : Naval Engineering						
Tuesday, July 25, 2017 13.00-15.00						
Surabaya Room 2nd fl						
Session Chair : Dr. Agus Sunjarianto Pamitran, ST., M.Eng						
No	Paper #	ID	Author	Title	Affiliation	Time
1	352	ME1B - 1	Dian Purnamasari, I Ketut Aria Pria Utama and I Ketut Suastika	Comparative Resistance Test Between Two Towing Tanks (A Case Study at ITS and IHL)	Agency For The Assessment and Application of Technology (BPPT), Indonesia	13.00-13.15
2	55	ME1B - 2	Ketut Suastika, Affan Hidayat and Soegeng Riyadi	Effects of Application of A Stern Foil on The Ship Resistance: A Case Study of Orela Crew Boat	Sepuluh Nopember Institute of Technology (ITS), Indonesia	13.15-13.30
3	625	ME1B - 3	Wiwin Sulistyawati and Prof Yanuar	An Investigation of Hull Form Pentamaran with Chine Model on the Resistance Characteristics	Universitas Indonesia, Indonesia	13.30-13.45
4	471	ME1B - 4	Muhammad Arif Budiyanto and Takeshi Shinoda	Stack Effects on the Power Consumption in the Refrigerated Container Storage Yard	Universitas Indonesia, Indonesia	13.45-14.00
5	767	ME1B - 5	Aldy Syahrihaddin, Sunaryo Sunaryo and Pradhana Imfianto	Design of Solar- Powered Electric Water Recreational and Sport Vessel	Universitas Indonesia, Indonesia	14.00-14.15
6	377	ME1B - 6	Ismail Ismail, Erlanda Pane, Damora Rhakasywi, Eko Prasetyo and Pekik Asmoro	Optimization of Open Channel Water Tunnel Design	Pancasila University, Indonesia	14.15-14.30
7	411	ME1B - 7	Fenti Suryadi, Sunaryo, Komarudin	Optimization of Container Terminal Operational Performance through Suppressing its Idle Time	Universitas Indonesia, Indonesia	14.30-14.45



8	415	ME1B - 8	Gafero Priapalla Rahim and Sunaryo	Container Ship Accident Analysis Due to Container Stacked on Deck as an Attempt to Improve Maritime Logistic System	Universitas Indonesia, Indonesia	14.45-15.00
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Mech Plenary

Tuesday, July 25, 2017 15.15-15.45

Surabaya Room 2nd fl

Invited Speaker : Prof. Dr. Rein Guillermo (Imperial College London), UK
Session Chair : Prof. Ir. Yulianto Sulisty Nugroho, M.Sc., Ph.D

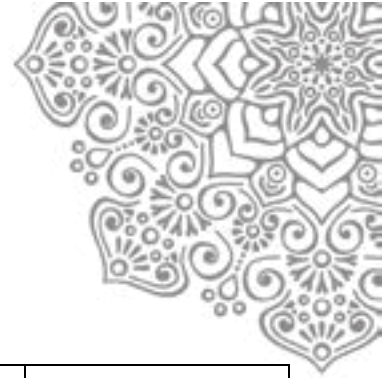
Mech 2A: Fluid Mechanics

Tuesday, July 25, 2017 15.45-18.00

Bandung Room 2nd fl

Session Chair : Prof. Dr. Ir. Budiarmo, M.Eng

No	Paper #	ID	Author	Title	Affiliation	Time
1	387	ME2A - 1	Fajri A. Rayhan, Agus S. Pamitran	Performance of Ice Slurry Generator with Mechanical Scraper Using R-22 and R-290	Universitas Indonesia, Indonesia	15.45-16.00
2	389	ME2A - 2	Sentot Novianto, Agus S. Pamitran, Raldi Koestoer, Kiyoshi Saito	Two-phase Frictional Pressure Drop of Propane with Prediction Methods of Viscosity and Density in 500 μ m Diameter Tube	Universitas Indonesia, Indonesia	16.00-16.15
3	493	ME2A - 3	Yanuar Anwas, Sealtial Mau, Kurniawan Teguh Waskito, Winda Wulandari and Marcus Alberth Talahatu	The Characteristic of Calcium Carbonate (CaCO ₃) Nanoparticles Flow Through the Pentagon Spiral Pipe	Universitas Indonesia, Indonesia	16.15-16.30
4	84	ME2A - 4	Warjito Warjito, Ahmad Indra Siswantara, Dendy Adanta, Mustafa Kamal and Reza Dianofitra	Simple Bucket Curvature for Designing A Low Head Turgo Turbine for Pico Hydro Application	Universitas Indonesia, Indonesia	16.30-16.45
5	88	ME2A - 5	Budiarmo Budiarmo, Ahmad Indra Warjito, Dendy Adanta, Riandhika Pradito and Reza Dianofitra	Blade Height Optimization of Undershot Banki Pico-hydro Waterwheel by Analytical and Numerical Methods	Universitas Indonesia, Indonesia	16.45-17.00



6	56	ME2A - 6	Syaiful Syaiful, Astrid Ayutasari, Myung-Whan Bae, Maria F. Soetanto and Ahmad Indra Siswantara	Thermo-Hydrodynamics Performance Analysis of Fluid Flow through Concave Delta Winglet Vortex Generator by Numerical Simulation	Diponegoro University, Indonesia	17.00-17.15
7	99	ME2A - 7	Michael Joevian, Christopher Susanto, Sheila Tobing and Harjadi Gunawan	Numerical Analysis of Plunging and Pitching Tandem Flapping Foil Power Generation	Atma Jaya Catholic University of Indonesia, Indonesia	17.15-17.30
8	402	ME2A - 8	Budi Setyahandana, Y.B. Lukiyanto and Rines	Pipes Outlet Directions and Diameter of Double U Pipes Configuration on Centrifugal Reaction Pump	Sanata Dharma University, Indonesia	17.30-17.45
9	89	ME2A - 9	Ahmad Indra Siswantara, Warjito Warjito, Dendy Adanta, Aji Putro Prakoso and Reza Dianofitra	Comparison Between Airfoil Profiled Blade and Ordinary Blade in Cross-flow Turbine Using Numerical Simulation	Universitas Indonesia, Indonesia	17.45-18.00

Mech 2B: Fire, Combustion and Power Generation

Tuesday, July 25, 2017 15.45-18.00

Surabaya Room 2nd fl

Session Chair : Prof. Ir. Yulianto Sulisty Nugroho, M.Sc., Ph.D

No	Paper #	ID	Author	Title	Affiliation	Time
1	526	ME2B - 1	Pither Palamba, Mohamad Lutfi Ramadhan, Engkos Achmad Kosasih and Yulianto Sulisty Nugroho	Drying Phenomena of Indonesian Peat	Universitas Indonesia, Indonesia	15.45-16.00
2	717	ME2B - 2	Beline Alianto, Benedictus Darendra Nareshwara, Nabila Astari and Yulianto Sulisty Nugroho	Modelling of Smoke Control in Underground Car-park Fire	Universitas Indonesia, Indonesia	16.00-16.15
3	638	ME2B - 3	Supriyadi, Nasruddin, Engkos A. Kosasih, I. A. Zulkarnain, Budhy Kurniawan	How Appropriate are Pyridinic Carbon Nitride Nanotubes for Hydrogen Storage? Molecular Thermodynamics Analysis	Trisakti University, Indonesia	16.15-16.30
4	799	ME2B - 4	Apri Wiyono, Titi Puspita, Cindy Rianti and Adi Surjosatyo	Investigation of Co-gasification Characteristics of WC Pellet and Rice Husk Mixtures in A Downdraft Fixed Bed Gasifier	Universitas Indonesia, Indonesia	16.30-16.45



5	505	ME2B - 5	Nasruddin A. Abdullah, Nandy Putra, Imansyah Ibnu Hakim and Raldi A.Koestoer	An Overview On Liquids Collection System Improvement Process For Producing Liquid Smoke	Universitas Indonesia, Indonesia	16.45-17.00
6	815	ME2B - 6	Cahyo Setyo Wibowo	The Comparison Performance Of Dual Fuel System Dimethyl Ether and Diesel Fuel With B-20 On Diesel Engine Dirrect Injection System	Research and Development Centre for Oils and Gas Technology (Lemigas), Indonesia	17.00-17.15
7	7	ME2B - 7	Bakhrul Ulum, Ervan Ambarita, Nurrohman and Yogi Sirodz Gaos	Energy And Exergy Analyses of Mount Salak Geothermal Power Plant Unit 1-2-3	Indonesia Power, Indonesia	17.15-17.30
8	811	ME2B - 8	Asyari Daryus, Ahmad Indra Siswantara, Budiarmo Budiarmo, Gun Gun R. Gunadi, Hariyotejo Pujowidodo and Candra Damis Widiawaty	Effect of the Air Mass Flow Rate on the Distribution of Solids in the Circulating Fluidized Bed Boiler Using CFD Simulations	Udayana University, Indonesia	17.30-17.45
9	887	ME2B - 9	Ahmad Indra Siswantara, Hariyotejo Pujowidodo, Asyari Darius and Gun Gun Ramdhan Gunadi	Mathematical Modeling – The Impact of Cooling Water Temperature Upsurge on Combined Cycle Power Plant Performance and Operation	Universitas Indonesia, Indonesia	17.45-18.00
10	792	ME2B - 10	Made Suarda, Wijaya Kusuma, Made Sucipta and Ainul Ghurri	Visualization of Water Flow Phenomenon in Hydraulic Ram Pump Working Cycle by Different Color Dyes Injection	Udayana University, Indonesia	18.00-18.15

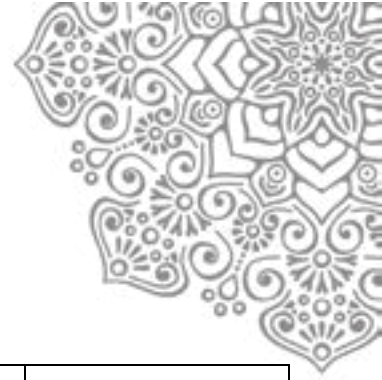
Mech 3: Mechanical Design and Manufacture

Wednesday, July 26, 2017 08.00-10.15

Bandung Room 2nd fl

Session Chair : Dr. Ario Sunar Baskoro, St, MT, M.Eng

No	Paper #	ID	Author	Title	Affiliation	Time
1	666	ME3 - 1	Hendri Ds Budiono	Development of the Complete Model for Calculating CNC Machining Process Complexity Based on Rotational and Non-Rotational Feature Classification	Universitas Indonesia, Indonesia	08.00-08.15



2	640	ME3 - 2	Ario Sunar Baskoro, Andreas Edyanto and Hakam Muzakki	Study on Nugget Growth in Resistance Spot Welding of Thin Aluminum A1100 Using Welding Simulation	Universitas Indonesia, Indonesia	08.15-08.30
3	648	ME3 - 3	Ario Sunar Baskoro, Hakam Muzakki, Gandjar Kiswanto and Winarto Winarto	Effects of Micro Resistance Spot Welding Parameters to Weld Joint Quality on Aluminum Thin Plate A1100	Universitas Indonesia, Indonesia	08.30-08.45
4	299	ME3 - 4	Dedison Gasni, Ismet Hari Mulyadi, Jon Affi and Andre Yulanda Miswar	Investigation of Abrasive Wear on Ball Bearings by Using Bio-lubricant	Andalas University, Indonesia	08.45-09.00
5	726	ME3 - 5	Danardono Agus Sumarsono, Fera Ibrahim, Haris Setiawan, Satria Putra Santoso and Gema Puspa Sari	The Delivery of DNA Vaccine: Development of Gene Gun Using Converging-diverging Nozzle to Increase Thrust Force of Mass Coated Particles	Universitas Indonesia, Indonesia	09.00-09.15
6	924	ME3 - 6	Triyono, Joko Riyono, Nur Fadhl, Daisman P.B. Aji	The Effects of Dielectric Fluid Viscosity on Chips Formation Rate and Electrode Wear Rate in Electrical Discharged Machining of SKD 61 Steel	Trisakti University, Indonesia	09.15-09.30
7	523	ME3 - 7	Dadan Ramdan	Influence of Number of Mold Cavity Vents on Wire Sweep in PBGA Encapsulation: FSI-MpCCI Simulation	Medan Area University, Indonesia	09.30-09.45
8	927	ME3 - 8	Gandjar Kiswanto, Himawan Hadi Sutrisno, Jos Istiyanto	The Compensation Method for Tool Orientation Change to Avoid Collision in 5-axis Roughing of Faceted Models	Universitas Indonesia, Indonesia	09.45-10.00
9	914	ME3 - 9	Gandjar Kiswanto, Aida Mahmudah and Dedi Priadi	Punch Force Behavior During Micro V-bending Process of the Copper Foil	Universitas Indonesia, Indonesia	10.00-10.15



Mech Plenary-Joint Session with ICSERA

Wednesday, July 26, 2017 10.15-10.45

Bandung Room 2nd fl

Invited Speaker : Jae Dong Chung (SAREK), South Korea

Mech Plenary-Joint Session with ICSERA

Wednesday, July 26, 2017 10.45-10.11.15

Bandung Room 2nd fl

Invited Speaker : Peter Simmonds (ASHRAE Distinguished Lecturer), USA

ICSERA1/Mech 4: Fluid Mechanics and Heat Transfer

Wednesday, July 26, 2017 11.15-12.00

Bandung Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	712	ME4 - 1 / ICSERA1 - 1	Stefan Mardikus and Gregorius Riyanto	Single Phase Steam Ejector Investigation: Effect Different Area Ratio Throat to Entrainment Ratio	Sanata Dharma University, Indonesia	11.15-11.30
2	898	ME4 - 2 / ICSERA1 - 2	Ting Chen, Kyungjin Bae, Dongan Cha and Ohkyung Kwon	Mass Flow Characteristics Analysis of R245FA in EEV	Korea Institute of Industrial Technology, South Korea	11.30-11.45
3	784	ME4 - 3 / ICSERA1 - 3	Nengah Suarnadwipa, I Gusti Bagus Wijaya Kusuma and Tangkesalu Aprianto	Numerical Investigation on Cooler Tank of FASSIP-01	Udayana University, Indonesia	11.45-12.00