

# The 10<sup>th</sup> AUN/SEED-Net Regional Conference on Mechanical and Manufacturing Engineering



## Draft Conference Agenda

7-8<sup>th</sup> November, 2019

Sokha Phnom Penh Hotel, Phnom Penh Cambodia

### Day 1: 7<sup>th</sup> November 2019

#### Room: Raing Sap

Time	Activities	Responsible person
08h00-08h30	Registration	
08h30-08h35	National anthem of Cambodia	MC: Van Daro
08h35-08h45	Welcoming remarks by ITC	Dr. Thavarith Chunhieng, Deputy Director of ITC
08h45-08h55	Supporting remarks by JICA	Mr. Junichi Miura, Deputy Chief Representative, JICA Cambodia
08h55-09h05	Opening remarks	H.E. Yuok Ngoy, Secretary of State, Ministry of Education, Youth and Sports
09h05-09h10	Photo session	MC
09h10-09h30	Coffee break	

#### Room: Raing Sap

#### Keynote Lectures Session

09h30-09h35	Introduction of Biography of the Keynotes	MC
09h35-10h05	University industry linkage toward Industry 4.0: ITB Experience	Prof. Andi Isra Mahyuddin, Institut Teknologi Bandung, Indonesia
10h05-10h10	Introduction of Biography of the Keynotes	MC
10h10-10h40	Future Mechanized and Smart Farming	Prof. Mikio Umeda, Professor emeritus at Kyoto University, Japan
10h40-11h10	Q & A	Facilitator: Dr. Yi Liv

#### AUN/SEED-Net

11h10-11h30	AUN/SEED-Net presentation	Ms. Wanichar Sukprasertchai
11h30-11h50	ASEAN Engineering Journal (AEJ)	Prof. Andi Isra Mahyuddin
11h50-13h40	Lunch break	

**Day1****Parallel Session A: Materials and Structures**

<b>Room: Nakry, Session Chair: Dr. Yi Liv, Cochair: Assoc. Prof. Bambang Pramujati,</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
13h40-14h00	Geopolymers Derived from Philippine Coal Ash as Sustainable Alternative Low Heat Transmission and Fire Resistant Material for Building	Mr. Martin Ernesto Llanes Kalaw, DLSU, Philippines
14h00-14h20	The Crushing Characteristics of Environmentally Friendly Corrugated Cored Structures	Dr. Mohd Zuhri Mohamed Yusoff, UPM, Malaysia
14h20-14h40	Finite Element Analysis of Composite Plate Subject to Low Velocity Impact and Compression After Impact	Dr. Hendri Syamsudin, ITB, Indonesia
14h40-15h00	Temperature Variation of Rubber under Uniaxial Cyclic Tension	Mr. TAM HOAI LE, Tokyo Tech, Japan
15h00-15h20	<b>Coffee break</b>	
15h20-15h40	The Tensile Strength and Morphology of Fast Food Packaging from Cellulose Material	Mr. Irwan Suriaman, ITB, Indonesia
15h40-16h00	Stabilization in Longitude Elastic Modulus of Braided Synthetic Fiber Rope for Dynamic Loading	Dr. Sry Vannei, ITC, Cambodia
16h00-16h20	Solidification and Microstructure Characteristic in Unidirectional Solidification of Al-7 wt.% Si Alloy	Mr. Seab Piseth, ITC, Cambodia
16h20-16h40	Application of Electro-Mechanical Impedance Response for Damage Detection in Metal Structures	Assoc. Prof. Duc-Duy Ho, HCM-UT, Vietnam

**Day1****Parallel Session B Manufacturing Technology**

<b>Room: Room: Raing Sap, Session chair: Prof. Zulkiflle Leman, Cochair: Dr. Yos Phanny</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
13h40-14h00	Examination of Multimodal Transportation to Enhance the Logistics Efficiency in Thailand: A Case Study of Cassava Products	Assoc. Prof. Thanwadee Chinda, SIIT, Thailand
14h00-14h20	Implementing Lean for Improvement of Productivity and Efficiency of Some Garment Factories in Industrial Zones, Yangon Region	Prof. Yin Yin Tun, YTU, Myanmar
14h20-14h40	Analysis of Machine Availability at Surface-mount Technology (SMT) Line Using WITNESS Simulation	Dr. HASNIDA BINTI AB SAMAT, USM, Malaysia
14h40-15h00	Mixed Integer Linear Programming for Permutation Flow Shop	Dr. Banhan Lila, BUU, Thailand
15h00-15h20	<b>Coffee break</b>	
<b>Room: Room: Raing Sap, Session chair: - , Cochair: Dr. Kollika Ngoun</b>		
15h20-15h40	High-Speed Displacement Measurements Based on a High Frequency Modulated Interferometer	Dr. Vu Thanh Tung, HUST, Vietnam
15h40-16h00	Overdriven transmission System for Reducing Carbon Dioxide Emission from Vehicles	Prof. Harwin Saptoadi, UGM, Indonesia
16h00-16h20	Study the properties of Cambodian natural rubber latex foam by varying sulfur	Ms. Bunsreyneang KIM, ITC, Cambodia
16h20-16h40	The droplet characteristics on micropillar surface during the dewetting process	Dr. Bambang Arip Dwiyantoro
16h40-17h00	Design Optimization of Combined Expansion Tube-Axial Splitting as Impact Energy Absorber	Dr. Yuwono Budi Pratiknyo ITB, Indonesia

**Day 2: 8th November 2019**

Time	Activities	Responsible person
08h00-08h30	Registration	

**Day2 Parallel Session C: Materials and Structures**

<b>Room: Nekry,</b> Session Chair: Prof. Alvin Yu Chua, Cochair: Dr. Chhith Saosometh		
Time	Topic	Speaker
08h30-08h50	Fatigue Analysis of The Bogie in Automated People Mover	Dr. Satrio Wicaksono, ITB, Indonesia
08h50-09h10	Sound Transmission Loss of Multiple Layer Car Dash Panel Insulators	Assoc. Prof. Nawal Aswan Abdul Jalil, UPM, Malaysia
09h10-09h30	Performance Evaluation of A Light Rail Vehicle on Curve with Track Twist Irregularities	Dr. Yunendar Aryo Handoko, ITB, Indonesia
09h30-09h50	Experimental determination of tensile properties of ABS 3D printed material with varying infill percentages	Ms. Po Leangpor, ITC, Cambodia
09h50-10h10	The Behavior of Cylindrical Natural Bamboo Structures Under Axial Loading Compression	Prof. Bambang Kismono Hadi, ITB, Indonesia
10h10-10h30	Coffee break	
<b>Room: Nekry,</b> Session Chair: Prof. Alvin Yu Chua, Cochair: Dr. Vannei Sry		
10h30-10h50	Head Injury Analysis of Bus Passenger due to Frontal Crash: Effect of Seat Cushion	Assoc. Prof. Sandro Miharadi, ITB, Indonesia
10h50-11h10	On-line detection of fretting fatigue crack initiation with a perpendicular cylinder contact	Dr. Chhith Saosometh, ITC, Cambodia
11h10-11h30	Industrial Application of Exoskeleton Current and Future Research: A Malaysian Context	Dr. Raja Ariffin Raja Ghazilla, UM, Malaysia
11h30-11h50	Mirror-Like Surface of the Workpiece by Using Diamond and Polymer Slurry as a Polishing Agent	Mr. Valerio de Sousa GAMA, UNTL, Timor Leste
11h50-12h10	The implementation of Single-Input Single-Output Auto Regressive Moving Average with exogenous Input (ARMAX) Modeling in Modal Analysis	Assoc. Prof. Ignatius Pulung Nurprasetio, ITB, Indonesia
12h10-13h40	Lunch break	

**Day2 Parallel Session D: Energy Technology**

<b>Room: Raing Sap,</b> Session Chair: Dr. Sarin CHAN, Co-chair: Assoc. Prof. Nobumasa SEKISHITA		
Time	Topic	Speaker
08h30-08h50	Design of a Residential Residual Waste Disposal and Energy Generation via Pyrolyzer and Stream Rankine Cycle	Mr. Paolo Yves Lazaro De Silos, UPD, Philippines
08h50-09h10	Development of Gasification and Catalyst Technologies to Convert Biomass Resources into Liquid Fuel, a Report for Gasification Performance	Assoc. Prof. Kanit Wattanavichien, CU, Thailand

09h10-09h30	Thermodynamic Analysis of Supercritical Organic Rankine Cycle with Propane (R-290) as a Working Fluid	Prof. Dr. Ari Pasek, ITB, Indonesia
<b>Room: Raing Sap</b> , Session Chair: Dr. Sarin CHAN, Co-chair: Assoc. Prof. Nobumasa SEKISHITA		
Time	Topic	Speaker
09h30-09h50	Wind Tunnel Experiments on Smoke Structure Dispersed from a Chimney in a Cross Flow	Mr. Xangpueuk Inthavideth, TUT, Japan
09h50-10h10	Rotary Magnetic Refrigeration Prototype with Active Magnetic Regeneration System: Initiative Research and Prototype Developments in Thailand	Assoc. Prof. Ratchatee Techapiesancharoenkij KU, THAILAND
10h10-10h30	Coffee break	
<b>Room: Raing Sap</b> , Session Chair: Assoc. Prof. Ratchatee Techapiesancharoenkij, Co-chair: Prof. Dr. Ari Pasek		
10h30-10h50	Investigate of Using Fish Oil to be a Bind of Biomass Briquettes	Mr. Latin HEANG, ITC, Cambodia
10h50-11h10	Effect Strategy of Modeling Helmholtz Equation of State	Mr. KAN Koemleng, ITC, Cambodia
11h10-11h30	Analysis of Bus Passenger Head Injury using Finite Element Method	Dr. Satrio Wicaksono
11h30-11h50	Investigation on Physical Properties and Measurement of Bulk Modulus of Water Plastic Diesel	Mr. ZinThu Aung, KMITL, Thailand
11h50-12h10	Threshold Current for Arc Free and Short-duration Arc in Hybrid DC Switch	Mr. Chomrong Ou Tokyo Tech, Japan
12h10-13h30	Lunch break	

**Room: Raing Sap**

**Keynote Lectures Session**

13h30-13h35	Introduction Biography of the Keynotes	MC
13h35-14h05	Initiatives to build support platform for Research and Innovation and the readiness for IR 4.0 by ITC	Dr. Seingheng Hul, Director of Research Innovation Center, ITC, Cambodia
14h05-14h10	Introduction of Biography of the Keynotes	MC
14h10-14h40	Preparing for the Fourth Industrial Revolution (Industry 4.0): Are we ready?	Prof. Archie B. Maglaya De La Salle University (DLSU), Manila, Philippines
14h40-15h00	Coffee break	
15h00-15h05	Introduction of Biography of the Keynotes	MC
15h05-15h35	3D Printed Composites: Current Status and Future	Prof Akira Todoroki, Tokyo Institute of Technology, Japan
15h35-16h15	Q & A	Facilitator: Dr. Sarin CHAN

**Acknowledgement and closing remark**

16h15-16h30	Acknowledgement	Dr. Kinnaeth VONGCHANH Conference Chair
16h30-16h45	Closing remarks	Dr. Seingheng Hul, Director of Research Innovation Center, ITC

**Note: The agenda is subjected to change.**