

**Program Overview**  
**The 9th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development:**  
**Challenges Towards the Digital Society**  
**Thursday June 21, 2018 - Friday June 22, 2018**

<b>Time</b>	<b>Thursday June 21</b>	<b>Time</b>	<b>Friday June 22</b>
08.00-09.00	Registration		
09.00-09.30	Opening Ceremony Air Chief Marshal Prajin Juntong, Deputy Prime Ministers, Thailand		
09.30-10.00	<b>Keynote speaker I:</b> Nick Guang Lu Senior Solution Manager Thailand Enterprise Business Department, Huawei Technologies (Thailand) Co., LTD. Topic: How innovation disrupt Education?	09:00-10:20	Oral Presentation & Poster Presentation
10.00-10.30	<b>Keynote speaker II:</b> Dr.Thomas J Roulet King's College, London, UK Topic: Digitalization and the New Ways of Working		
10.30-10.45	Coffee Break	10.20-10.40	Coffee Break
10.45-11.45	<b>Keynote speaker III:</b> Prof. Paresh Narayan Deakin University, Australia Co-Editor, Economic Modelling: The International Journal of Theoretical and Applied Papers on Economic Topic: Marketing Capability and Corporate Innovation		Oral Presentation & Poster Presentation
11.45-13.00	Lunch Break	11:40-13:00	Lunch Break
13.00-15.00	Oral Presentation & Poster Presentation	13:00-15:00	Oral Presentation & Poster Presentation
15.00-15.20	Coffee Break	15:00-15:20	Coffee Break
15.20-17.40	Poster Presentation	15:20-16:00	Poster Presentation
18.00- 20.00	Welcome Reception	16:00	Awards, Closing Celebration and Welcome to 2019

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11.45-13.00	<b>Lunch Break</b>				
Time/Place	Kingkamol	Duangkamol	Kamolruedi	Kornkamol 1	2 <sup>nd</sup> Floor
<b>13.00-17.40</b>	<b>Session 1 Sustainability Science</b>  Chair: Dr.Noppakun Sanpo Co-Chair: Dr.Apisit Kositchaiyong	<b>Session 2 Innovative Technology and Sustainability Engineering</b>  Chair: Dr.Amporn Poyai Co-Chair: Dr.Pinit Kidkhunthod	<b>Session 3 Textiles and Clothing Sustainability</b>  Chair: Assoc. Prof. Dr. Chi-wai Kan Co-Chair: Assoc. Prof. Dr. Sheila Shahidi	<b>Session 4 Economic modeling</b>  Chair: Prof. Dr. Paresh Narayan	<b>Poster Session</b>
<b>13.00-13.20</b>	OS001  DEVELOPMENT OF STRUCTURAL HEALTH MONITORING SYSTEM BY USING PIEZOELECTRIC SENSORS  Sumit Jirungnimitsakul	<b>Invite speaker 1</b>  Dr.Amporn Poyai	<b>Invite speaker 1</b>  “NON-AQUEOUS DYEING OF COTTON AND WOOL FABRICS”  Assoc. Prof. Dr. Chi-wai Kan		

Time/Place	Kingkamol	Duangkamol	Kamolruedi	Kornkamol 1	2 <sup>nd</sup> Floor
13.20-13.40	OS002 GRAIN SIZE EFFECT ON STRAIN CHARACTERISTIC IN BaTiO <sub>3</sub> CERAMICS  Narit Funsueb				<b>Economic Modelling</b>  <b>Poster Session</b> <b>Innovative Technology and Sustainability Engineering, Textiles and Clothing Sustainability, financial markets and economic growth</b>
13.40-14.00	OS003 DETERMINING THE CONCENTRATION OF SOLUBLE ETHYLENE IN WATER IMMERSION PLANT USING ACIDIFIED POTASSIUM MANGANATE METHOD  Wilailack Chayaprasert	OI001 EFFECT OF DIFFERENT TYPES OF WASHES ON THE FABRIC STRENGTH OF DENIM  Hina Gul			
14.00-14.20	OS004 A NOVEL SACHA INCHI (Plukenetia volubilis L.) SHELL AS A MODIFIED-POROUS ACTIVATED CARBON PRODUCT  Patsapon Silasalaisopisth	OI002 RESISTIVE SENSOR FOR VOC DETECTION  Naphat albutt	OT001 STUDY ON LOW TEMPERATURE DYEING OF ULTRASONICALLY TREATED WOOL  Qing Li		
14.20-14.40	OS005 BIOELECTRICITY PRODUCTION FROM RICE NOODLE WASTEWATER USING PLANT MICROBIAL FUEL CELL (PMFC)  Wanida Potawat	OI003 MATCHING IMPEDANCES LARGE SCALE FRESNEL EQUATION CALCULATION  Naphat albutt	OT002 GLOBAL SUSTAINABLE APPROACH TO MINIMIZE COST AND IMPROVE PRINTING PARAMETERS OF REACTIVE AND DISPERSE DYES BY USING MODIFIED THICKENER  Shrirang k. Chinta		
14.40-15.00	OS006 THE INVESTIGATION OF DIELECTRIC BARRIERS DISCHARGE PLASMA JET (DBDJ) FOR BACTERICIDAL IN WOUND HEALING  Pipath Poramapijitwat	OI004 MULTIPLE REFLECTIONS MODELING FOR MULTI-LAYER OPTICAL STRUCTURES  Suejit Pechprasarn	OT003 DESIGN AND DEVELOPMENT OF ELECTRO-CONDUCTIVE RECTANGULAR TEXTILE ANTENNA USING POLYPROPYLENE FABRIC  S. Gangopadhyay		
15.00-15.20	Coffee Break				

Time/Place	Kingkamol	Duangkamol	Kamolruedi	Kornkamol 1	2 <sup>nd</sup> Floor
15.20-15.40	OS007 A LOW PRESSURE PLASMA TREATMENT FOR STERILITATION AND QUALITY IMPROVEMENT OF RICE FLOUR Kantamard Lamasai	OI005 OPTICAL DEVICE ADAPTED TO SMARTPHONE FOR DIRECT IMAGING RETINAL BLOOD VESSELS Naphat albutt	OT004 A STUDY ON LOW STRESS MECHANICAL PROPERTIES OF DENIM FABRIC FOR HAND EVALUATION P.O. Laddha	<b>Economic Modelling</b>	<b>Poster Presentation</b> Innovative Technology and Sustainability Engineering, Textiles and Clothing Sustainability, financial markets and economic growth
15.40-16.00	OS008 EFFECT OF Fe <sup>3+</sup> ON BaTiO <sub>3</sub> PEROVSKITE MAGNETIC PROPERTIES Naphat albutt	OI006 PARALLEL COMPUTING SOFTWARE DESIGN FOR LARGE SCALE ELECTROMAGNETIC SIMULATION Nattha Pensupa	OT005 STUDIES ON NATURAL AND SYNTHETIC ANTIMICROBIAL FINISHING OF TEXTILES Arun K Patra		
16.00-16.20	OS009 MAGNETIC PROPERTIES IN Ba <sub>2</sub> FeMoO <sub>6</sub> DOUBLE PEROVSKITES PREPARED BY SOLID STATE METHOD Naphat albutt	OI007 SURFACE PLASMON RESONANCE ANALYSIS USING TRANSMISSION LINE MODEL Naphat albutt			
16.20-16.40	OS010 CORRELATION AND PATH COEFFICIENT FOR ECONOMIC TRAITS OF FRUIT MULBERRY (Morus sp) BASED ON CRITERIA MULBERRY SELECTION Sujaree Nonthakod	OI008 FLUORESCENCE DETECTION OF HYDRAZINE HYDRATE USING CARBON NANODOTS SYNTHESIZED FROM MANDARIN RIND Naphat albutt			
16.40-17.00	OS011 AMPEROMETRIC BIOSENSORS USING DIFFERENT ALCOHOL OXIDASES Manatsapon Tipmanee	OI009 BIOSENSOR IN FOOD TECHNOLOGY Naphat albutt			
17.00-17.20	OS012 COMPARISON OF INDUSTRIAL MICROWAVE DRYING AND FLUIDIZED BED DRYING TECHNIQUES ON THE QUALITY OF JASMINE INSTANT RICE Patsakul Phukasmas	OI010 FOOD WASTE UTILISATION: CASE STUDY IN THAILAND Naphat albutt			
18.00-20.00	Welcome Reception				

## Friday June 22

Time/Place	Kingkamol	Duangkamol	Kamolruedi	Kornkamol 1	2 <sup>nd</sup> Floor	
09.00-14.00	<b>Session 1 Sustainability Science</b>  Chair: Assoc. Prof. Dr.Suejit Co-Chair: Dr. Noppakun Sanpo	<b>Session 2 Sustainability Science and Innovative Technology and Sustainability Engineering</b>  Chair: Dr.Pinit Kidkhunthod Co-Chair: Dr.Anurat Wisitsoraat	<b>Session 3 Innovative Technology and Sustainability Engineering</b>  Chair: Assoc. Prof. Dr. Chi-wai Kan Co-Chair: Assoc. Prof. Dr. Sheila Shahidi	<b>Economic Modelling</b>	<b>Poster Session</b> Sustainability Science	
09.00-09.20	<b>Invite speaker 2</b>  Dr.Pinit Kidkhunthod	<b>Invite speaker 3</b>  Dr.Anurat Wisitsoraat	OT006 UP CYCLING FOR PRODUCT DESIGN OF JEANS WASTES WITH AN ECONOMIC AND ENVIRONMENTAL APPROACH Zahra Ahmadi			
09.20-09.40			OT007 APPLICATION OF LASER TREATMENT FOR IMPOROVING THE DYE AND CHEMICAL ADSORPTION ON POLYESTER FABRIC Sheila Shahidi			
09.40-10.00	OS013 PREPARATION OF Al- 5Ti-1B MASTER ALLOY AND ITS INFLUENCE ON MECHANICAL PROPERTIES OF A 356 ALLOY Thee Chowwanonthapunya	OI011 SYNTHESIS AND CHARACTERISATIONS OF Y-DOPED BACEO3 CERAMIC FOR USE AS SOLID ELECTROLYTE IN SOLID OXIDE FUEL CELL Wiset Somkhuan	OT006 UP CYCLING FOR PRODUCT DESIGN OF JEANS WASTES WITH AN ECONOMIC AND ENVIRONMENTAL APPROACH Zahra Ahmadi			
10.00-10.20	<b>Coffee Break</b>					
10.20-10.40	OS014 COMPARISON OF CONVENTIONAL AND ULTRASOUND-ASSISTED EXTRACTION TECHNIQUES FOR EXTRACTION OF PHENOLIC COMPOUNDS FROM COCONUT HUSK FIBER Attapon Nitiwattananon	OI012 ANALYSIS OF THE DENSITY DISTRIBUTION OF CERAMIC ARMOR PLATES BY FINITE ELEMENT METHOD Prakorb Chartpuk	OT008 IR AND UV PROTECTION FUNTION OF WOVEN FABRICS Polona Dobnik Dubrovski			

Time/Place	Kingkamol	Duangkamol	Kamolruedi	Kornkamol 1	2 <sup>nd</sup> Floor
10.40-11.00	OS015 EFFECT OF LATEX RUBBER AND RUBBER POWDER AS AN ADMIXTURE ON BENDING STRENGTH OF CEMENT MORTARS Santi Rattanaveeranon	OS013 DESIGN AND WEIGHT OPTIMIZATION OF RUN - FLAT WHEEL FOR THE ARMORED SMALL TRUCK BY FINITE ELEMENT METHOD Prakorb Chartpuk	OT009 UV PROTECTION AND ANTIBACTERIAL PROPERTIES OF NATURAL DYED COTTON WITH SAFRAN, CURCUMA AND CINNAMON Sheila Shahidi	<b>Economic Modelling</b>	<b>Poster Session</b> Sustainability Science
11.00-11.20	OS016 EFFECTS OF INITIAL MOISTURE CONTENT, INFRARED TEMPERATURE AND PUFFING TIME ON QUALITY OF PUFFED PORK RINDS IN A CONTINUOUS INFRARED-MICROWAVE OVEN Boonjira Bunlangpattama	OS014 COMPARISON OF IEEE 802.11N AND IEEE 802.11AC WIRELESS TECHNOLOGY PERFORMANCES ON 2.4GHZ AND 5GHZ FREQUENCIES Kittipoom Intaraauksorn	OT010 A STUDY OF SUITABILITY OF BAMBOO DENDROCALMUS ASPER PULP APPLICATION AS FILLER MATERIAL IN SANITARY PAD MAKING Alice Waithaka		
11.20-11.40	<b>Invite speaker 4</b>  Assoc. Prof. Dr. Somsak Dangtip	OS015 WEATHER REALATED-HEAT ILLNESS EVENT OVER CHIANGMAI USING AUTOMATIC WEATHER STATION OBSERVED DATA Parwapath Phunthirawuthi	OT011 APPLICATION OF MICROENCAPSULATED NATURAL ESSENCES OILS IN THE DEVELOPMENT OF FUNCTIONALIZED SUSTAINABLE CLOTHING Nuno José Ramos Belino		
11.40-12.00		OS016 DEVELOPMENT OF READING ACTIVITIES FOR KINDERGARTEN 2 STUDENTS Variya Yenporng			
12:00-13:00	<b>Lunch Break</b>				
13:00-15:00	<b>Poster presentation</b> (Sustainability Science)				
15:00-15:20	<b>Coffee Break</b>				
15:00-16:00	<b>Poster presentation</b> (Sustainability Science)				
16:00	<b>Awards, Closing Celebration and Welcome to ICONSci 2019</b>				

