

**Program Overview**  
**Thursday June 23, 2016 - Friday June 24, 2016**

<b>Time</b>	<b>Thursday June 23</b>	<b>Time</b>	<b>Friday June 24</b>
08:00-9:00	Registration	09:00-10:00	Oral Presentation
			Poster Presentation
9:00-10:00	Opening Ceremony	10:00-10:15	Coffee Break
10:00-11:00	<b>Keynote I:</b> Prof. Michael Geoffrey Somekh The Hong Kong Polytechnic University, Hong Kong	10:15-11:55	Oral Presentation
11:00-12:00	<b>Keynote II:</b> Prof. Paresh Narayan Centre for Financial Econometrics, Faculty of Business and Law, Deakin University, Australia		Poster Presentation
12:00-13:00	Lunch Break	11:55-13:00	Lunch Break
13:00-14:25	Oral Presentation	13:00-14:00	Oral Presentation
	Poster Presentation		Poster Presentation
14:25-14:40	Coffee Break	14:00-14:15	Coffee Break
14:40-17:40	Oral Presentation	14:15- 16:30	Poster Presentation
	Poster Presentation		
18:00- 20:30	Welcome Reception	16:00-16:30	Awards, Closing Celebration and Welcome to 2017

**Thursday June 23**

<b>08:00-9:00</b>	<b>Registration</b>				
<b>9:00-10:00</b>	<b>Opening Ceremony</b>				
<b>Time/Place</b>					
<b>10:00-11:00</b>	<b>Optics in Healthcare</b> <b>Prof. Michael Geoffrey Somekh</b> Department of Electronic and Information Engineering, The Hong Kong Polytechnic University, Hong Kong				
<b>11:00-12:00</b>	<b>Technological Innovations and Stock Market Returns</b> <b>Prof. Paresh Narayan</b> Centre for Financial Econometrics, Faculty of Business and Law, Deakin University, Australia				
<b>12:00-13:00</b>	<b>Lunch Break</b>				
<b>Time/Place</b>	<b>Duangkamol</b>	<b>Kingkamol</b>	<b>Kamolruedi</b>	<b>Economic Modelling</b>	<b>2<sup>nd</sup> Floor</b>
<b>13:00--17:40</b>	<b>Session 1</b> <b>Sustainability Science</b> Chair: Assoc. Prof. Dr. Taweechai Amornsakchai Co-Chair: Dr. Suejit Pechprasarn	<b>Session 2</b> <b>Sustainability Science</b> Chair: Dr. Somchai Tancharakorn Co-Chair: Assoc. Prof. Dr. Naratip Vittayakorn	<b>Session 3</b> <b>Innovative Technology and Sustainability Engineering</b> Chair: Asst. Prof. Dr. Theerachai Bongkarn Co-Chair: Dr. Darren Albutt	<b>Session 4</b> <b>Innovation/technology, financial markets, and economic growth</b> Chair: Prof. Dr. Paresh Narayan	<b>Poster Session</b>
<b>13:00-13:45</b>	<b>Invited Speaker I:</b> PCONVERTING PINEAPPLE FIELD WASTE INTO A SUSTAINABLE RESOURCE  <b>Assoc. Prof. Dr. Taweechai Amornsakchai</b>	<b>Invited Speaker I:</b> AERIAL MONITORING OF LANDFILLS AND TEMPORARY WASTE STORAGE SITES WITH DRONE/ BALLOON  <b>Assoc. Prof. Hirofumi Nakayama</b>	<b>Invited Speaker:</b> NEW LEAD-FREE PIEZOELECTRIC CERAMIC BASED ON (1-x)BNKLLT-xBCTZ BINARY SOLID SOLUTIONS SYNTHESIZED BY THE SOLID STATE COMBUSTION TECHNIQUE <b>Asst. Prof. Dr. Theerachai Bongkarn</b>	<b>O-IFM1</b> CAN PRIVATE DOMESTIC INVESTMENT LEAD CHINESE TECHNOLOGICAL DEVELOPMENT: AN INVESTIGATION IN VIEW OF SPILLOVER EFFECTS FROM FDI INFLOWS AND CENTRAL GOVERNMENT'S <b>Baljeet Singh</b>	

<p><b>13:45-14:05</b></p>	<p><b>Invited Speaker II:</b></p> <p>SURFACE WAVE ATTENUATION COEFFICIENT MEASUREMENT USING CONFOCAL SURFACE PLASMON MICROSCOPY</p> <p><b>Dr. Suejit Pechprasarn</b></p>	<p><b>Invited Speaker II:</b></p> <p><b>Dr. Somchai Tancharakorn</b></p>	<p><b>O-ISE1</b></p> <p>AN APPLICATION OF THE ANALYTICAL HIERARCHY PROCESS (AHP) FOR PERFORMANCE MEASUREMENT RUBBER REPLANTING AID FUND COOPERATIVES IN THE SOUTH OF THAILAND</p> <p><b>Chalakorn Udomraksasakul</b></p>	<p><b>O-IFM2</b></p> <p>INTERBANK FUNDING AS INSURANCE MECHANISM FOR (PERSISTENT) LIQUIDITY SHOCKS</p> <p><b>Marcel Bluhm</b></p>	<p><b>Poster Session</b></p>
<p><b>14:05-14:25</b></p>	<p><b>O-SS1</b></p> <p>PROPER CONCENTRATION OF ZnO NANOPARTICLES ENHANCED BIOMATERIAL SYNTHESIS AND PLANT CELL PROTECTION</p> <p><b>Wilailack Chayaprasert</b></p>	<p><b>O-SS10</b></p> <p>THE RELATIONSHIP BETWEEN CLOUD OPTICAL DEPTH AND CLOUD TOP ALTITUDE ON THE CLOUD RADIATIVE FORCING MODEL</p> <p><b>Ronnachai Nanthochot</b></p>	<p><b>O-ISE2</b></p> <p>INVENTORY LOT-SIZING PROBLEM WITH SUPPLIER SELECTION UNDER STORAGE SPACE, BUDGET AND LEAD-TIME CONSTRAINTS</p> <p><b>Sathaporn Suriyan</b></p>	<p><b>O-IFM3</b></p> <p>DOES INFORMATION TECHNOLOGY BOOST BANK'S PROFITABILITY IN DEVELOPING NATIONS? UNRAVELLING THRESHOLD EFFECTS</p> <p><b>Partha Gangopadhyay</b></p>	
<p><b>14:25-14:40</b></p>	<p><b>Coffee Break</b></p>				
<p><b>14:40-15:00</b></p>	<p><b>O-SS2</b></p> <p>BENEFICIAL EFFECTS OF ZINC OXIDE NANOPARTICLES ON PLANT REGENERATION OF VETIVER GRASS (VETIVERIA ZIZANIOIDES L. NASH)</p> <p><b>Chonnikarn Khunchuay</b></p>	<p><b>O-SS11</b></p> <p>INTERACTION BETWEEN LIFE AND ENVIRONMENT IN A ZERO-DIMENSIONAL DAISYWORLD MODEL</p> <p><b>Thanat Rueangphankun</b></p>	<p><b>O-ISE3</b></p> <p>DESIGN AND DEVELOPMENT OF AN AUTOMATED GUIDED VEHICLES BY USING ARDUINO MICROCONTROLLER FOR SMALL AND MEDIUM SCALE INDUSTRIES</p> <p><b>Watchara Songserm</b></p>	<p><b>O-IFM4</b></p> <p>TECHNOLOGICAL SHOCKS, BUSINESS CYCLE AND STOCK MARKET PERFORMANCE</p> <p><b>K.P. Prabheesh</b></p>	

<p><b>15:00-15:20</b></p>	<p><b>O-SS3</b></p> <p>ENHANCING BIOSYNTHESIS OF FLAVONOL PROTECTIVE BIOMATERIALS USING FLS TRANSGENIC</p> <p><b>Darin Dangrit</b></p>	<p><b>O-SS12</b></p> <p>CLIMATE PREDICTION OF DAILY RAINFALL FORECASTING IN THAILAND USING MCA ANALYSIS</p> <p><b>Patchalai Anuchaivong</b></p>	<p><b>O-ISE4</b></p> <p>DESIGN OF LOW COST SMART FARM SYSTEM BASED ON WIRELESS COMMUNICATION</p> <p><b>Watchara Songserm</b></p>	<p><b>O-IFM5</b></p> <p>THE MARKET VALUE OF TECHNOLOGICAL INNOVATION: EVIDENCE FROM EUROPEAN PATENTS</p> <p><b>Rekik Sabrine</b></p>	<p><b>Poster Session</b></p>	
<p><b>15:20-15:40</b></p>	<p><b>O-SS4</b></p> <p>SURFACE NANO- FEATURES OF AUSTENITIC STAINLESS STEEL FOR EFFECTIVE GROWTH OF CARBON NANOTUBES</p> <p><b>Udomdej Pakdee</b></p>	<p><b>O-SS13</b></p> <p>APPLICATIONS OF TRICYCLAZOLE AND BIOSOIL ON MICROBIAL REDUCTION</p> <p><b>Rattanaporn Boonthod</b></p>	<p><b>O-ISE5</b></p> <p>RADIATING NEAR-FIELD CHARACTERISTIC OF PRINTED DIPOLE ANTENNAS</p> <p><b>Parinya Phasook</b></p>	<p><b>O-IFM6</b></p> <p>ARE FINANCIAL DEVELOPMENT AND INNOVATION CAUSATIVE FACTORS IN ECONOMIC GROWTH? EVIDENCE FROM A PANEL GRANGER CAUSALITY TEST</p> <p><b>Rudra P. Pradhan</b></p>		
<p><b>15:40-16:00</b></p>	<p><b>O-SS5</b></p> <p>SYNTHESIS OF ENVIRONMENTALLY FRIENDLY SENSOR FOR THE DETECTION OF IRON (III) IN WATER</p> <p><b>Thanaporn Heedjan</b></p>	<p><b>O-SS14</b></p> <p>FORECASTING OF THE WAVE HEIGHT OVER THE GULF OF THAILAND DURING A TROPICAL PODUL STORM USING THE SWAN MODEL</p> <p><b>Sittisak Injan</b></p>	<p><b>O-ISE6</b></p> <p>EFFECTS OF AERATION RATE AND MSW SIZE ON BIODRYING PROCESS OF MUNICIPAL SOLID WASTES</p> <p><b>Wittawat Wulyapash</b></p>	<p><b>O-IFM7</b></p> <p>WHAT DRIVES INNOVATION IN CASE OF INDIAN MANUFACTURING SECTOR?</p> <p><b>K. Seenaiiah</b></p>		

<p><b>16:00-16:20</b></p>	<p><b>O-SS6</b>  Ti-MCM-41 SYNTHESIZED FROM RICE HUSK SILICA VIA MICROWAVE RADIATION FOR PHOTOCATALYTIC DECOLORIZATION OF DYE  <b>Samangsri Suwapee</b></p>	<p><b>O-SS15</b>  THE INFLUENCE OF PHYSICO-CHEMICAL FACTORS ON SOLUBILITY OF TRIBUTYL TIN IN SONGKHLA LAKE  <b>Thiwari Ophithakorn</b></p>	<p><b>O-ISE7</b>  THE STUDY OF TURBULENT NUTRIENT SOLUTION FLOWS IN DIFFERENCE HYDROPONICS SYSTEM ARRANGMENTS  <b>Anchasa Pramuanjaroenkij</b></p>	<p><b>O-IFM8</b>  HAPPY-LIFE-YEARS: ANALYSIS OF ITS INFLUENCING FACTORS  <b>Kwanruetai Boonyasana</b></p>	<p style="text-align: center;"><b>Poster Session</b></p>
<p><b>16:20-16:40</b></p>	<p><b>O-SS7</b>  IMPROVING THE RESULT OF SEA SURFACE TEMPERATURE ANOMALY FOR AN INTERMEDIATE COUPLED MODEL USING BIAS CORRECTION METHOD  <b>Rati Sawangwattanaphaibun</b></p>	<p><b>O-SS16</b>  INFLUENCE OF PROCESS PARAMETERS ON WEDM OF WC-12%Co COMPOSITE  <b>Chaiya Praneetpongung</b></p>	<p><b>O-ISE8</b>  VERTICAL ADJUSTTABLE ELECTRIC WHEELCHAIR  <b>Songwut Mongkonlerdmanee</b></p>	<p><b>O-IFM9</b>  THE INFLUENCE OF GROSS DOMESTIC PRODUCT ON HAPPY PLANET INDEX  <b>Kantikar Sittithai</b></p>	
<p><b>16:40-17:00</b></p>	<p><b>O-SS8</b>  BACK FOCAL PLANE CONFOCAL PTYCHOGRAPHY  <b>Pakapron Pimonsakonwong</b></p>	<p><b>O-SS17</b>  A STUDY ON TEMPERATURE PROPERTY OF DIFFERENT MATERIALRESISTOR  <b>Nattapong Phanthuna</b></p>	<p><b>O-ISE9</b>  OIL ADSORPTION IN VACUUM FRYING OF FISH TOFU  <b>Thiwari Ophithakorn</b></p>	<p><b>O-IFM10</b>  RECYCLED CONCRETE AGGREGATE (RCA) A THAI REVERSE LOGISTICS PERSPECTIVE ON THE SUSTAINABLE SUPPLY CHAIN  <b>Hermann Gruenwald</b></p>	

<b>17:00-17:20</b>	<p align="center"><b>O-SS9</b></p> <p align="center">HIGH SPEED SCANNING V(Z) CONFOCAL SURFACE PLASMONS MICROSCOPE USING DIGITAL MICROMIRROR DEVICE (DMD)</p> <p align="center"><b>Kodchakorn Ittipornnuson</b></p>	<p align="center"><b>O-SS18</b></p> <p align="center">NUMERICAL SIMULATION OF MOISTURE AND TEMPERATURE IN STORED GRAINS</p> <p align="center"><b>Nut Khuttiyamart</b></p>	<p align="center"><b>O-ISE10</b></p> <p align="center">DETECTION OF MACHINES PROSUCTING DEFECTIVE PRODUCTS FOR PREVENTION AND MAINTENANCE PLANNING USING HIDDEN MARKOV MODEL : CASE STUDY FOR SOFT DRINK MANUFACTURING FACTORY</p> <p align="center"><b>Pitsanu Tongkhov</b></p>	<p align="center"><b>O-IFM11</b></p> <p align="center">REVIEW OF FACTORS AFFECTING THE OUTSOURCING DECISION OF BUILDING OPERATION AND MAINTENANCE SERVICES IN COMMERCIAL SECTOR</p> <p align="center"><b>Kittipong Suweero</b></p>	<b>Poster Session</b>
<b>17:20-17:40</b>		<p align="center"><b>O-SS19</b></p> <p align="center">RIGOROUS COUPLED WAVE ANALYSIS FOR PLASMONIC NANOPARTICLES</p> <p align="center"><b>Acharawan Panlomso</b></p>		<p align="center"><b>O-IFM12</b></p> <p align="center">REVIEW OF FORRECASTING MODELS OF RICE BLAST DISEASE OUTBREAK UNDER CHANGING OF CLAMATIC CONDITIONS</p> <p align="center"><b>Sarinya Kirtphaiboon</b></p>	
<b>18:00-20:30</b>	<b>Welcome Reception</b>				

**Friday June 24**

<b>Time/Place</b>	<b>Kingkamol</b>	<b>Duangkamol</b>	<b>Kamolruedi</b>	<b>2<sup>nd</sup> Floor</b>
<b>9:00-14:00</b>	<b>Session 1</b> <b>Sustainability Science and Textiles and Clothing Sustainability</b> Chair: Assoc. Prof. Dr. Taweechai Amornsakchai Co-Chair: Dr. Suejit Pechprasarn	<b>Session 2</b> <b>Innovative Technology and Sustainability Engineering</b> Chair: Dr. Somchai Tancharakorn Co-Chair: Assoc. Prof. Dr. Naratip Vittayakorn	<b>Session 3</b> <b>Innovative Technology and Sustainability Engineering</b> Chair: Asst. Prof. Dr. Theerachai Bongkarn Co-Chair: Dr. Darren Albutt	<b>Poster Session</b>
<b>9:00-9:20</b>	<b>O-SS20</b>  THEORETICAL INVESTIGATION OF SURFACE PLASMON RESONANCE (SPR)-BASED ACOUSTIC SENSOR  <b>Chotirat Chanchaio</b>	<b>O-ISE11</b>  ELECTRICAL IMPEDANCE PROPERTIES OF Y <sub>2</sub> NIMNO <sub>6</sub> CERAMICS FOR DC BIAS AT ATMOSPHERE  <b>Rukchanok wanasuk</b>	<b>O-ISE22</b>  STOCHASTIC PROCESSES FOR TIME SERIES MODELS WITH AN APPLICATION TO DATA OF CASH AND FUTURE PRICES OF RICE IN THAILAND  <b>Pitsanu Tongkhaw</b>	
<b>9:20-9:40</b>	<b>O-SS21</b>  BIOSYNTHESIS OF Ag/RHA-MCM-41 USING RICH HUSK ASH AND HONEY AND ITS ANTIBACTERIAL EFFICIENCY  <b>Wannarat Sangsuwan</b>	<b>O-ISE12</b>  TECHNO-ECONOMY ANALYSIS OF ENERGY EFFICIENCY TECHNOLOGIES FOR THE THAILAND PULP AND PAPER INDUSTRY  <b>Sumate Sathitbunanan</b>	<b>O-ISE23</b>  CAUSE ANALYSIS OF DEFECTIVE AND BAD PRODUCTS USING BAYESIAN LOGISTIC REGRESSION MODEL: CASE STUDY OF AUTOPARTS MANUFACTURING FACTORY  <b>Watcharin Sangma</b>	
<b>9:40-10:00</b>	<b>O-SS22</b>  EFFECT OF ANTIOXIDANT ON PHYSICAL AND CHEMICAL PROPERTY OF PALM OIL BIODIESEL  <b>Boonruen Sunpetch</b>	<b>O-ISE13</b>  THE GIANT DIELECTRIC CONSTANT OF Y <sub>2</sub> NIMNO <sub>6</sub> CERAMICS FOR DC BIAS  <b>Pattaraporn Damkoengsuntorn</b>	<b>O-ISE24</b>  LINEAR MIXED MODELS WITH SPATIAL CORRELATION FOR AN ANALYSIS OF RICE YIELDS IN EACH PROVINCE OF THAILAND  <b>Watcharin Sangma</b>	

10:00-10:15	Coffee Break		
10:15-10:35	<p align="center"><b>O-SS23</b></p> <p align="center">AN ECO-FRIENDLY APPROACH- OZONE BASED TREATMENT OF WASTEWATER FOR MULTIPLE REUSE</p> <p align="center"><b>Irfan Ahmed Shaikh</b></p>	<p align="center"><b>O-ISE14</b></p> <p align="center">RELIABILITY ANALYSIS FOR MACHINE WORKING AND CAUSES OF DEFECTIVE MACHINES: A CASE STUDY OF AN AUTOPARTS MANUFACTURING FACTORY</p> <p align="center"><b>Watcharin Sangma</b></p>	<p align="center"><b>O-ISE25</b></p> <p align="center">GREEN BUILDING FOR COMMERCIAL BUILDING IN THAILAND</p> <p align="center"><b>Pasist Suwanapingkarl</b></p>
10:35-10:55	<p align="center"><b>O-SS24</b></p> <p align="center">APPROACHES FOR ENERGY EFFICIENCY IMPROVEMENT IN PULP AND PAPER INDUSTRY</p> <p align="center"><b>Sumate Sathitbunanan</b></p>	<p align="center"><b>O-ISE15</b></p> <p align="center">STUDIES OF DIELECTRIC PERMITTIVITY OF <math>Y_2NiMnO_6</math> CERAMICS FOR DC BIAS AT VARIOUS TEMPERATURES</p> <p align="center"><b>Phimonkhae Chobdee</b></p>	<p align="center"><b>O-ISE26</b></p> <p align="center">HARMONIC EFFECTS IN INDUSTRY AND COMMERCIAL BUILDING</p> <p align="center"><b>Pasist Suwanapingkarl</b></p>
10:55-11:15	<p align="center"><b>O-SS25</b></p> <p align="center">FORECASTING FOR THAI GARMENT EXPORT INDUSTRY ON ASEAN MARKET</p> <p align="center"><b>Surachart Buachum</b></p>	<p align="center"><b>O-ISE16</b></p> <p align="center">USING PMA ASPHALT TO PRODUCE ROOF PLATES FOR REDUCING BUILDING STRUCTURE WEIGHT</p> <p align="center"><b>Wiharn Deepaya</b></p>	<p align="center"><b>O-ISE27</b></p> <p align="center">A TRADITIONAL AND CULTURAL PHOTOBOOK OF PHATTHALUNG PRODUCTION</p> <p align="center"><b>Akera Ratchavieng</b></p>
11:15-11:35	<p align="center"><b>O-SS26</b></p> <p align="center">THE GREEN HOUSE GAS ABATEMENT COST CURVE FOR THE THAILAND PULP AND PAPER INDUSTRY</p> <p align="center"><b>Sumate Sathitbunanan</b></p>	<p align="center"><b>O-ISE17</b></p> <p align="center">RENEWABLE ENERGY AND SMART GRID FOR RURAL AREA IN THAILAND</p> <p align="center"><b>Pasist Suwanapingkarl</b></p>	<p align="center"><b>O-ISE28</b></p> <p align="center">IMPLEMENTATION OF STEM EDUCATION THROUGH COMPUTER PROGRAMMING WITH PI-BOT ROBOTIC AND MINIBLOQ GRAPHICAL PROGRAMME</p> <p align="center"><b>Preecha Sakarung</b></p>

**Poster Session**



<b>11:35-11:55</b>	<b>O-SS27</b> USING COCONUT FLAKES AS REINFORCED FIBER OF NATURAL RUBBER PLATE PRODUCTS <b>Pakamas Choosit</b>	<b>O-ISE18</b> ORGANIC WASTE HOUSEHOLD FOR MICRO-STEAM TURBINE <b>Pasist Suwanapingkarl</b>	<b>O-ISE29</b> TESTER FRICTION OF BALL BEARINGS <b>Wirote Ritthong</b>	<b>Poster Session</b>
<b>11:55-13:00</b>	<b>Lunch Break</b>			
<b>13:00-13:20</b>	<b>O-SS28</b> APPLICATION OF CASSAVA PIT WASTE MIXED WITH CEMENT TO PARTICLE BOARD WALL FOR THERMAL RESISTANCE IN BUILDING <b>Pakamas Choosit</b>	<b>O-ISE19</b> PARA-RUBBER FLOOR TILES MIXED WITH PLASTIC WASTES FROM THE FACTORIES <b>Wiharn Deepaya</b>	<b>O-ISE30</b> DEVELOPMENT OF CEMENT BOARDS FROM COCONUT SHELL ASH FOR ENERGY AND ENVIRONMENT CONSERVATION <b>Pramot Weeranukul</b>	<b>Poster Session</b>
<b>13:20-13:40</b>	<b>O-SS29</b> A LOW COST TIME-CODED CONFOCAL MICROSCOPE  <b>Phichet kawilo</b>	<b>O-ISE20</b> BIODIESEL SOUND VELOCITY USAGE AT COLD TEMPERATURE  <b>Padipan Tinprabath</b>	<b>O-ISE31</b> SOLAR ROOFTOP FOR ACADEMY BUILDING  <b>Pasist Suwanapingkarl</b>	
<b>13:40-14:00</b>		<b>O-ISE21</b> HYBRID FUZZY ESTIMATION OF SYSTEM RELIABILITY FOR MULTI-STATE SYSTEM <b>Wimonmas Bamrungsetthapong</b>		
<b>14:00-14:20</b>	<b>Coffee Break</b>			
<b>Time/Place</b>	<b>2<sup>nd</sup> Floor</b>			
<b>14:20-16:30</b>	<b>Poster Session</b>			
<b>16:30-17:00</b>	<b>Awards, Closing Celebration and Welcome to ICONSci 2017</b>			