

Program of Presentation
The 4th Rajamangala University of Technology International Conference
(4th RMUTIC)
July 15-16, 2013

Oral Presentation

July 15, 2013

13.00 – 18.00 p.m.

Session 1 Engineering

Meeting Room :

Lotus suite 7

Chairman	:	Assoc. Prof.Napat Watjanatepin	RMUTSB
Co-Chair	:	Patcharanan Sritanauthaikorn	RMUTSB
13.00 - 13.20 p.m.	4E-O01	Heart and Lung sound separation using Empirical Mode Decomposition	Nopadon Maneetien / Southern Taiwan University
13.20 - 13.40 p.m.	4E-O02	Application of PSCAD/EMTDC Program in Electric Circuit Instruction on Three Phase System	Preecha Sakarung / RMUTSB
13.40 - 14.00 p.m.	4E-O03	Bee Algorithm to Solve Economic Dispatch Problem considering Valve-point Effects	Kittiporn Ngenbutkod / MSU
14.00 - 14.20 p.m.	4E-O04	The photocatalytic, antibacterial and self-cleaning properties of TiO ₂ and Ag doped TiO ₂ thin films using sol-gel method	Weerachai Sangchay / SKRU
14.20 - 14.40 p.m.	4E-O05	Influence of adding grafted-UHMWPE and nanofillers onto wear resistance and tension property of ultra-high molecular weight polyethylene (UHMWPE) mixture.	Sompong Piriyaon / RMUTSB
14.40 - 15.10 p.m.	Break		
15.10 - 15.30 p.m.	4E-O06	A PSO maximum power point tracking for photovoltaic systems under non-uniform insolation conditions	Somporn Tiacharoen / NEU

15.30 - 16.50 p.m.	4E-O07	A Review of Outsourcing Decision Factors of Building Operation and Maintenance Services in Commercial Sector	Kittipong Suweero / KMUTT
16.50 - 16.10 p.m.	4E-O08	Improved Ant Colony Optimization for Solving Reliability Redundancy Allocation Problems	Phakhapong Thanitakul / MSU
16.10 - 16.30 p.m.	4E-O09	The Evaluation of L1 Signal GPS Application for Cadastral Survey	Vuttinan Utesnan / RMUTK

Session 2 Science and Technology

Meeting Room :
Lotus suite 1

Chairman	:	Asst. Prof. Dr. Uraivan Inyaem	RMUTT
Co-Chair	:	Dr. Unchalee Tonggumnead	RMUTT

13.30 - 13.50 p.m.	4S-O01	Analysis of Thermal Insulation Measurement Techniques in Textiles	Mohanapriya Venkataraman / Technical University
13.50 - 14.10 p.m.	4S-O02	"Dining in" amid a global smorgasbord: seeking sustainability through a local food economy	Austin W. Trousdale / Lander University
14.10 - 14.30 p.m.	4S-O03	Fabrication of Nanostructures of GaN on Sapphire and Si Substrates by Dry Etching	Somyod Denchitcharoen /KMUTT
14.30 - 14.50 p.m.	4S-O04	Effect of Gelatin on Roller Electrospinning of Silk Fibroin Nanofibres	NONGNUT SASITHORN / RMUTP

14.50 - 15.20 p.m.

Break

15.20 - 15.40 p.m.	4S-O05	Complex Permittivity Scaling Relations in Ferroelectric BaTiO ₃ Single Layer	NATTHAPONG WONGDAMNERN / RMUTS
15.40 - 16.00 p.m.	4S-O06	Research on UV Protection of Silk fabric dyed with Garcinia Dulcis (Roxb.) Kurz bark by Using Pad-batch Technique. A Focus on Effect of Mordant Concentration	Rattanaphol Mongkholrattanasit / RMUTP

16.00 - 16.20 p.m.	4S-O07	Development of Sugar as Calibration Radiation Dosimeter with ESR Technique	Piyapong Pankaew / RMUTP
16.20 - 16.40 p.m.	4S-O08	Detection of the Different Photovoltaic Current before the Raining by using Solar Cell	Nithiwatthn Choosakul / RMUTT
16.40 - 17.00 p.m.	4S-O09	Application of Alanine Dosimeter as Calibration Dosimeter	Piyapong Pankaew / RMUTP
17.00 - 17.20 p.m.	4S-O10	Community products for digesting and crumbling straw in paddy field	Direk Chimchana / RMUTS
17.20 - 17.40 p.m.	4S-O11	Design, Analysis and Experimentation of an industrial ozone generator using aluminium granule electrodes	SURACHAI JODPIMAI / KMUTT

Session 3 Liberal Arts, Humanity and Tourism

Meeting Room :

Lotus suite 9

Chairman	:	Dr.Yupaporn Piriyaasilpa	RMUTI
Co-Chair	:	Waraporn Pundech	RMUTI
13.30 - 13.50 p.m.	4L-O01	Motivations of Chinese tourists travel in Thailand	LI RAN / Mahidol University
13.50 - 14.10 p.m.	4L-O02	The Status and Inheritance of Acting Folk Media in Chanthaburi	Raajshivar Saetan / RBRU
14.10 - 14.30 p.m.	4L-O03	Building a Sustainable Peace: Narratives of Violence in early Twentieth-Century Korea	Franklin Rausch / Lander University
14.30 - 14.50 p.m.	4L-O04	Development Guidelines for Standardizing the Raft Guesthouse in Thailand.	Pairin Wechtunyagul / Suan Dusit Rajabhat University

14.50 - 15.20 p.m.

Break

15.20 - 15.40 p.m.	4L-O05	Challenges and Issues in Incorporating Local Cultural Tourism Approach into University Mission and Task: A Case Study of Rajamangala University of Technology Srivijaya	Sutham Makaval / RMUTSV
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15.40 - 16.00 p.m.	4L-O06	Knowledge Management of Agriculturists in the Northeastern Region of Thailand	Pramote Laolapha / SU
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Session 4 Food, Agriculture and Biotechnology

**Meeting Room :
Lotus suite 10**

Chairman	:	Asst. Prof. Dr. Ong-arge Insung	RMUTSV
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Co-Chair	:	Asst. Prof. Dr. Nomchit Kaewthai	RMUTSV
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13.00 - 13.20 p.m.	4F-O01	Producing of PE/Ag nanocomposites material hold antibacterial growth property for house-hold plastic industry	Dau Hung Anh /RMUTL
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13.20 - 13.40 p.m.	4F-O02	Natural Antibacterial Activity of Thai Curry Paste in Thai Red Curry (Kang-Kati) Model against <i>Listeria monocytogenes</i> 10403S	Patchanee Yasurin / ABAC
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13.40 - 14.00 p.m.	4F-O03	The Application of Isolated allochthonous Lactic Acid Bacteria of Traditional Fermented Fruit Juices as Reliable Probiotic Starters	Duongruitai Nicomrat /RMUTP
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14.00 - 14.20 p.m.	4F-O04	Miso Fermentation by Mixed Cultures	Ni-orn Chomsri /RMUTL
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14.20 - 14.40 p.m.	4F-O05	The Approach of Isolated Non-Saccharomyces Yeast Applied in Alcohol Fermentation Process	Duongruitai Nicomrat /RMUTP
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14.40 - 15.10 p.m.	Break		
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15.10 - 15.30 p.m.	4F-O06	In vitro and in vivo approaches in the characterization of two AtXTH gene products	Nomchit Kaewthai Andrei / RMUTSV
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15.30 - 15.50 p.m.	4F-O07	Organig Method to control Mao luang bark bore (<i>Micropistus microcephalus</i>).	Sudarath Sakhunkhu / RMUTI
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15.50 - 16.10 p.m.	4F-O08	Heterosis of Three-Way Crosses between Thai Melon and Cantaloupe	Pramote Pornsuriya / RMUTTO
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16.10 - 16.30 p.m.	4F-O09	Phytase production by <i>Aspergillus niger</i> in solid state fermentation using rotating drum bioreactor	Sukanya Saithi / RMUTI
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16.30 - 16.50 p.m.	4F-O10	The PRELIMINARY STUDY of GREEN WASTE from EUCALYPTUS LEAVES in FIBER BOARD FROMING	Supakit Sergsiri / KU
16.50 - 17.10 p.m.	4F-O11	Extracted Gynostemma Pentaphylum Makino Supplementation in Freezing Media Promoted Plasma Membrane Integrity, Acrosome Integrity and Viability of Frozen-Thawed Boar Semen during Summer Months	Jakrit Yaeram / RMUTI
17.10 - 17.30 p.m.	4F-O12	Plant Growth, Broad Mite Resistance and Yield of Karen Type Registered Chili Varieties	Chanulak Khanobdee / RMUTL
17.30 - 17.50 p.m.	4F-O13	Product Development of Young Rice Milk Chip	Siriwan Suknicom / RMUTS
17.50 - 18.10 p.m.	4F-O14	Physicochemical Properties of Dried Noodle Enrichment with Lycopene from Tomato	Kandawadee Nochai / RMUTL

Session 5 Energy and Environment

Meeting Room :
Lotus suite 2

Chairman	:	Asst. Prof. Dr.Panich Intra	RMUTL
Co-Chair	:	Asst. Prof. Dr.Uten Kumnan	RMUTL
13.30 - 13.50 p.m.	4EE-O01	Improving the gas productivity of the alkaline electrolyzer through the reactor designs	Kitipong Tangphant / KMUTT
13.50 - 14.10 p.m.	4EE-O02	Thermoelectric Materials of the Ternary Compounds with Extremely Low Thermal Conductivity	Anek Charoenphakdee / RMUTSB
14.10 - 14.30 p.m.	4EE-O03	ELECTRICITY CO-OPERATION IN ASIA: THE ROLE OF IMPORT AND EXPORT IN CO ₂ REDUCTION	Kwanruetai Boonyasana / RMUTP
14.30 - 14.50 p.m.	4EE-O04	Thermoelectric Properties of CoSb ₃ -Based Skutterudites Filled by Group 13 Elements	Adul Harnwunggmoung / RMUTSB

Session 6 Computer science and Information technology**Meeting Room :****Lotus suite 8**

Chairman : Tassaphan Suwannatat

RMUTTO

Co-Chair : Asst. Prof. Dr. Virapol Jamsawat

RMUTTO

13.30 - 13.50 p.m. 4C-O01 The Development of Online
Instruction on Research
CommunicationNattapakal
Kittisunthonphisarn
/ RMUTR13.50 - 14.10 p.m. 4C-O02 An Improvement of Postal Service by
Analyzing Service Usage Time and
Applying Informaiton Technology a
case study on Muangtai Post Office,
Sisaket ProvinceAdisak Pangmala
/ RSU14.10 - 14.30 p.m. 4C-O03 Communication Behavior and Political
Participation of the people In BangkokNisakorn PaiBoonsin
/ RMUTP14.30 - 14.50 p.m. 4C-O04 The performance evaluation of
students' readiness for tablet use
via their teachers and parents of
Chanthaburi Primary Educational
Service Area Office 1Meennapa Rukhiran
/ RSU**Session 7 Computer science and Information technology****Meeting Room :****Lotus suite 11**

Chairman : Asst. Prof. Dr. Kittipong Sophonthummapharn

RMUTK

Co-Chair : Dr. Alisara Suriyasomboon

RMUTK

13.30 - 13.50 p.m. 4B-O01 Competitive analysis of Leam Chabang
Port, ThailandKhattiya Surarak
/ RMUTL13.50 - 14.10 p.m. 4B-O02 KLOYHOMTHONGBANLAD : Production
Cost and Economic RentAdhisiddhi nujnetra
/ RMUTR14.10 - 14.30 p.m. 4B-O03 The possibilities for Thailand spa to
succeed in German MarketPipattawade
Wannaree
/ RMUTL14.30 - 14.50 p.m. 4B-O04 Coconut Oil....Adaption Cash Crop of
Creative Economy: A case of the
Feasibility Study of Ability and
Creation for Economic Added ValueVeerawan
Pinchumpholsang
/ RMUTR

Session 8 Innovation studies

Meeting Room :

Lotus suite 12

Chairman : Assoc. Prof. Dr.Wannapong Triampo Mahidol

Co-Chair : Dr. Patcharin Panjaburee Mahidol

13.30 - 13.50 p.m. 4I-O01 The Result of Using Aesop's Fables in Teaching English Reading Comprehension Skill to Students under the Control of the Office of Non-Formal and Informal Education Kwanchanok umsuwan /SRU

July 16, 2013

08.30 a.m. – 15.00 p.m.

Session 1 Engineering

Meeting Room :

Lotus suite 7

Chairman : Assoc. Prof.Napat Watjanatepin RMUTSB

Co-Chair : Patcharanan Sritanauthaikorn RMUTSB

09.10 - 09.30 a.m. 4E-O11 SHEAR INDUCED DEFLECTION FOR CONCRETE BEAM REINFORCED WITH FIBER REINFORCED COMPOSITES Thanongsak Imjai / RMUTTO

09.30 - 09.50 a.m. 4E-O12 The synthesis of carbonaceous adsorbent for Volatile Organic Compounds analysis of Hard Disk Drive component Pimanmes Chanayotha / KKU

09.50 - 10.10 a.m. 4E-O13 Heat Transfer Characteristics of Taper Radially Rotating Heat Pipe Using R-11 as Working Fluid Passawat Watcharadumrongsak / RMUTL

10.10 - 10.30 a.m. 4E-O14 Numerical Analysis of Heat Transfer inside Multi-layer Dielectric Materials under Electromagnetic Energy in TE₁₀ mode Rectangular Waveguide Cavity Nattawut Suwannapum / RMUTR

10.30 - 10.50 a.m. 4E-O15 Solving Economic Dispatch Problem with Generator Constraints using Adaptive Bee Algorithm Suttawas Sakulchareon / MSU

10.50 - 11.20 a.m.		Break	
11.20 - 11.40 a.m.	4E-O16	A STUDY OF VARIABLES CHARACTERIZING DRAINAGE PATTERNS IN PHONG RIVER NETWORKS	Siwa Kaewplang / CU
11.40 am-12.00 pm.	4E-O17	Structural Insulated Panel (SIP) system	Prathan Rungthonkit / RMUTTO

12.00 – 13.00 p.m. **Lunch Break**

13.00 - 13.20 p.m.	4E-O18	Indoor Navigation for Mobile Robots: Trajectory Planning Problem	Somporn Tiacharoen / NEU
13.20 - 13.40 p.m.	4E-O19	THE USE OF GEOSYNTHETICS IN FLEXIBLE PAVEMENT	Thanongsak Imjai / RMUTTO
13.40 - 14.00 p.m.	4E-O20	Root cause analysis of the carburized 35Cr-45Ni-Nb tube in the ethylene furnace	Chokchai Singhatham / KMUTNB
14.00 - 14.20 p.m.	4E-O21	Optimized Flip-Flop Selection and Gate Sizing to Reduce Re-Execution penalty Due to Soft Errors	Warin Sootkaneung / RMUTP

Session 2 Architects and Arts

**Meeting Room :
Lotus suite 8**

Chairman : Asst. Prof. Chulalak Paiboonfungfuang RMUTR
 Co-Chair : Asst. Prof. Supavadee Panasampon RMUTR

08.30 - 08.50 p.m.	4A-O01	Potential for Self-reliant Lifestyle of a Single House in Phitsanuloks's Housing Development Projects	Sirimas Hengrasmee / NU
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Session 3 Science and Technology

**Meeting Room :
Lotus suite 1**

Chairman : Asst. Prof. Dr. Chutarat saridara RMUTT
 Co-Chair : Dr. Nithiwat Choosakul RMUTT

08.30 – 08.50 a.m.	4S-O12	Annealing Temperature Effect on ZrN Thin Films Deposited by DC Reactive Magnetron Sputtering	Piyapong Pankaew / RMUTP
08.50 - 09.10 a.m.	4S-O13	Collisionless evolution in self-gravitating systems	Tirawut Worakitpoonpon / RMUTS

09.10 - 09.30 a.m.	4S-O14	Effect of Nitrogen Flow Rates on Phase Transformation Structures of ZrN Thin Film Deposited by Reactive Magnetron Sputtering	Piyapong Pankaew / RMUTP
09.30 - 09.50 a.m.	4S-O15	Design and Experimentation of the 0-50g/Nm ³ UV-absorption ozone concentration meter	SURACHAI JODPIMAI / KMUTT
09.50 - 10.10 a.m.	4S-O16	Mobile Phone Base Stations and Human Health	Artnarong Thansandote
10.10 - 10.40 a.m.	Break		
10.40 - 11.00 a.m.	4S-O17	Characterization of CaCO ₃ Polymorphs Prepared from Waste Eggshell	Piyapong Pankaew / RMUTP
11.00 - 11.20 a.m.	4S-O18	Purification of phosphatidylcholine from crude soybean lecithin	Siriluck Pojanapornpan Kornkanok Aryusuk* /KMUTT
11.20 - 11.40 a.m.	4S-O19	Preparation of Biodiesel Using Eggshell as a Low Cost Solid Catalyst	Piyapong Pankaew / RMUTP
11.40 a.m.-12.00 p.m.	4S-O20	Improvement of Boundary Condition for a Shallow Water Model to Extent Predictability of Monsoon	Sunisa Saiuparad / RMUTP

Poster presentations

July 16, 2013

09.00-11.00 a.m.

1. Engineering

Code	Title	Author	University
4E-P01	The study of compressive strength of interlocking brick by using bottom ash instead of cement	Phongphoom Sornchomkeaw	RMUTR
4E-P02	Modeling and Simulation for Traction Power Supply System of High-Speed Train	Krischonme Bhumkittipich	RMUTT
4E-P03	Quantifying the individual portfolio by applying the sufficient economy philosophy	Sukumal Wangvanitchaphan	RMUTP
4E-P04	Properties of Laminated Polymer Use for Packaging Cell of Lithium Polymer Battery	Warunee Ariyawiriyanan	RMUTT
4E-P05	A STUDY OF VARIABLES CHARACTERIZING DRAINAGE PATTERNS IN PHONG RIVER NETWORKS	Siwa Kaewplang	CU
4E-P06	The innovation of use of waste ash from agricultural by-product in concrete work	Sumrerng Rukzon	RMUTP
4E-P07	THE COMPARISON STUDY OF PADDY QUALITY FROM PNEUMATIC DRYER WITH SMOOTH-PIPE AND SPIRAL-PIPE DRYING COLUMN	Wirote Ritthong	RMUTP

2. Architects and Arts

Code	Title	Author	University
4A-P01	Transmission of create patterns process with Karen woven fabrics using packaging	Nongnoot Nathibayapthis	RMUTL
4A-P02	The Appropriate Chef's Uniforms Design with the Chef's Performance in the Thai kitchen	Bussara Soiraya	RMUTP
4A-P03	Craving Pattern Construction through a Computer to Make Wood Sculptures	Suraphan Chantanasut	RMUTT
4A-P04	Quality Development of Native Hand-Woven Silk Fabric By New Development Warp Winging	Kittisak Ariyakuare	RMUTP

2. Architects and Arts

Code	Title	Author	University
4A-P05	The Design of Special Embossed Loom with Jacquard for Developing Community Product in Economic	Kittisak Ariyakuare	RMUTP
4A-P06	Music Composition: “Nueng Nai Siam” as a Tribute to His Majesty King Bhumibol Adulyadej	Thaworada Chantanasut	CU

3. Science and Technology

Code	Title	Author	University
4S-P01	Alkaline Hydrolysis Extraction for Determination of Ferulic Acid in Corn	Worapan Pormsila	RMUTK
4S-P02	Multiple Linear Regression Model to Predict Dengue Haemorrhagic Fever (DHF) Patients in Kreang Sub-District, Cha-Uat District, Nakhon Si Thammarat, Thailand	Suppawan Promprou	NSTRU
4S-P03	High Efficient Energy of the Fuel Briquettes from Mangosteen Shell	Sangwoei Sawekwiharee	RMUTP
4S-P04	The Preservation of Southern Traditional of video for the Self-Learning on “Basic Dance Manora”	Akera Ratchavieng	RMUTR
4S-P05	Antioxidant and Protective Effects of Syzygium cumini (L.) Skeels on Hydrogenperoxide (H ₂ O ₂) Induce Oxidative Stress in Normal Human Peripheral Blood Mononuclear Cells	Lanchakon Chanudom Jitbanjong Tangpong*	WU
4S-P06	Determination of the Water Sorption/Desorption properties of NaAMPS-co-NVP hydrogel sheet Using Dynamic Vapor Sorption Method	Chinanat Witthayaprapakorn	RMUTL
4S-P07	The Innovation of White Cotton Clothing for Female toward Religious Activity from the Queen Sirikit the support Arts and Crafts Centre	Srikanjana Jatuphatwarodom	RMUTT

3. Science and Technology

Code	Title	Author	University
4S-P08	Effects of chitosan application before being subjected to drought on physiological changes and yield potential of rice (<i>Oryza sativa</i> L.).	Suchada Boonlertnirun	RMUTSB
4S-P09	A Synthesis of Research on Garment Industry	Tritika Pichitdej	RMUTP
4S-P10	The Fabric Construction for Chef's Uniforms Appropriate to the Chef's Performance in the Thai Kitchens	Lakhana Chatakananda	RMUTP
4S-P11	Global Protein Expression Profiling of Female Soro Brook Carp(<i>Neolissochilus stracheyi</i>) by Proteomics	Supawadee Sriyam	RMUTL
4S-P12	EFFECT OF NITROGEN CONCENTRATION LEVELS ON GROWTH AND FLOWERING OF <i>Eucrosia bicolor</i> Ker-Gawl.	Rungnapa changjeraja	RMUTL
4S-P13	Identified Pineapple (<i>Ananas comosus</i> L.) by Amplified Fragment Length Polymorphism (AFLP)	Rungnapa changjeraja	RMUTL
4S-P14	Qualification of Expanded clay on used to Substrate Culture	Sunti Changjeraja	RMUTL
4S-P15	Scintillation Response of LSO:Ce and NaI:Tl Single Crystal Scintillators	Akapong Phunpueok	RMUTT
4S-P16	Light Yield Non-proportionality and Energy Resolution of BGO Scintillation Crystals	Akapong Phunpueok	RMUTT
4S-P17	Antioxidant and Hypoglycemic Effects of <i>Tithonia diversifolia</i> Aqueous Leaves Extract in Normal Mice	Montakarn Thongsom Jitbanjong Tangpong*	WU
4S-P18	Preparation of Thai Silk Sericin/Poly (Vinyl Alcohol) Hybrid Films for Control Drug Delivery: Study on Amoxicillin Trihydrate	Voranuch Thongpool	RMUTT

3. Science and Technology

Code	Title	Author	University
4S-P19	The Effect of Modified Natural Rubber and Silane on Properties of Silica Filled Natural Rubber Composite	Jutatip Artchomphoo	RMUTSV
4S-P20	Effect of NR-g-PMMA as Coupling Agent on Properties of Oil Palm Empty Fruit Bunch filled Natural Rubber Composite	Kwanruethai Boonsong	RMUTSV
4S-P21	Natural Dye Printing via Dry Nipa Palm Shell	Kanchana Luepong	RMUTP
4S-P22	Paper Production for Packaging via Water Hyacinth and Agriculture wastes	Kanchana Luepong	RMUTP
4S-P23	Controlled Benzoic Release from Crosslinked Polyacrylamide Hydrogels: Effects of Mesh Size, Electric Field Strength	Sumonman Niamlang	RMUTT
4S-P24	Predict head rice yield with mechanical strength of kernels	Ponlakrit Kumklam	RMUTP
4S-P25	Scratch-Induced Deformation and Transmission of Poly(methyl methacrylate)	Jirasak Tharajak	RMUTP
4S-P26	Improvement of the Solution-cast PVA Films Properties by Na-CMC Blending for Biodegradable Applications	Daranee Khunphet	RMUTL
4S-P27	SHOT-TIME DETERMINATION OF ARSENITE IN PETROCHEMICAL WASTEWATER WITHOUT PRETREATMENT STEPS	Narissara Prewnoi Charoenkwan Kraiya	CU
4S-P28	Dynamics and Survival Time for Entangled Photon Evolution in Four Wave Mixing Process	Chatchawal Sripakdee	RMUTP
4S-P29	Morphology and thermal properties of PVDF electrospun nanofiber	Anchan Muakngam Morakot Buddhakala	RMUTT
4S-P30	Self-organized methods used to fabricate nickel nano-dots on semiconductor substrates	Somyod Denchitcharoen	KMUTT

3. Science and Technology

Code	Title	Author	University
4S-P31	Multiwalled Carbon Nanotube and Silicon Carbide Nanowire-Natural Rubber Nanocomposite	Supansa Musikajaroen	RMUTSB
4S-P32	Allelopathic effects of <i>Xylocarpus gangeticus</i> Parkins on germination and growth of weed in rice fields	Udomdeja Polyium	RMUTP
4S-P33	Preparation, characterization and cytotoxicity of goniotalamin-loaded cationic liposomes	Pensri Charoensit	NU
4S-P34	Comparison of antioxidant and antimicrobial activities of cassumunar ginger and Asiatic pennywort extracts	Kanya Buttaraj	MJU
4S-P35	A Study of UV Protection Properties of Natural Dyes on Cotton and Silk Fabrics	Phairat Punyacharoennon	RMUTP
4S-P36	Effects of using Nano Technology for Chef's Uniforms affecting on fragrance and Food Safety	Manlika Jongchit	RMUTP
4S-P37	Antidiabetic Activity of The Methanolic Extract from <i>Betula alnoides</i> Buch-Ham. ex G. Don	Yutana Pongpiriyadacha	RMUTSV
4S-P38	Effect of Dispersing Agent on Thermal and Electrical Conductivity of Poly(Lactic Acid)/Carbon Nanotubes Nanocomposites	Supaphorn Thumsorn	RMUTT
4S-P39	Photocatalytic Properties of TiO ₂ Nanoparticle Thin Film Prepared by Sparking Process	Siwat Polin	RMUTSB
4S-P40	Assessment of Silk Fabric Dyed with Lac dye by Using Pad-batch Technique. A Research on Effect of Mordant Concentration	Rattanaphol Mongkholrattanasit	RMUTTP

4. Liberal Arts, Humanity and Tourism

Code	Title	Author	University
4L-P01	Effect of task-based learning on Agricultural Machinery Engineering Students' English speaking ability at Rajamangala University of Technology Isan, Nakhonratchasima	Umapun Chiraporn	RMUTI
4L-P02	Study of Utilization of Waste Silk Yarn for Making Women Accessories	Krittaporn Chooseng	RMUTP
4L-P03	Development of An Electronic Book “ WE LOVE SURATTHANI ” For English Reading Skill of Matthayomsuksa II Students	Busaraporn Somboon	
4L-P04	THE CONTENT ANALYSIS OF THE TRANSFORMATIVE LEARNING MODEL FOR ALCOHOLICS REHABILITATION TREATMENT	Pongratchadhawat Wiwangsue	RMUTP

5. Food, Agriculture and Biotechnology

Code	Title	Author	University
4F-P01	Free radical scavenging and tyrosinase inhibition activities of the tuberous extracts from Hypoxis aurea Lour	Korawinwich Boonpisuttinant	RMUTT
4F-P02	The effect of anti-inflammatory medicinal plant recipe on the growth of umbilical mesenchymal stem cells	Korawinwich Boonpisuttinant	RMUTT
4F-P03	PEROXIDASE ACTIVITY IN IN Cosmos bipinatus SEEDLING UNDER SOUND STRESS	Chutima Kongjaroon	MJU
4F-P04	Finite Element Modeling of Heat and Mass Transfer in Food materials during Microwave Heating	Preeda Prakotmak	KU
4F-P05	Production of banana powder [Musa sp. (AA group) “Kluai Khai”] by foam-mat drying	Preeda Prakotmak	KU
4F-P06	Biodiversity of Parasites in Red Tilapia Fishes (Oreochromis niloticus Linn.) Cultured cage in Trang River at Trang Province	Norasing Penprapai	RMUTSV

5. Food, Agriculture and Biotechnology

Code	Title	Author	University
4F-P07	Potential health-promoting properties of native Australian herbs	Karunrat Sakulnarmrat Izabela Konczak*	RMUTI
4F-P08	Immunomodulatory properties of beta-glucan from <i>Saccharomyces cerevisiae</i> enhanced with additives	Naruemon Mongkontanawat	RMUTTO
4F-P09	Yeast Cultivation Using Pineapple Juice	Ni-orn Chomsri	RMUTL
4F-P10	Return from Commercial Grass Production of Small Holder Farmers in Kalasin Province	Ratchaneevan Vorachinda	RMUTI
4F-P11	Effect of Auxins on in vitro Rooting and Different Growing Media on the Growth of Two Hybrid Pineapples.	Phongyuth Nualbunruang	RMUTL
4F-P12	Screening and isolation of thermotolerant yeast for ethanol fermentation	Kannikar Charoensuk	RMUTTO
4F-P13	Effect of microwave on pasting properties of heat-moisture treated tapioca flour and corn flour	Duangrutai Thumrongchote	RMUTK
4F-P14	Effect of Age at Harvest on Skin Color Development and Total Lycopene in the Different Tomato 5 Varieties	Parinyawadee Sritonthip	RMUTL
4F-P15	Comparison On Growth And Yield Of 5 Sweet Corn Varieties In Lampang Province	Napa Khansupa	RMUTL
4F-P16	The Relationship between Fruit Quality and Plant Morphology and Fruit Chemical Compositions in 'Patavia' Pineapple	Chiti Sritontip	RMUTL
4F-P17	Effects of Phytogetic Feed Additive with Reduced Dietary Metabolizable Energy and Digestible Essential Amino Acids on Carcass Yields and Meat Quality of Pekin Ducks	Keatisak Soisuwan	RMUTSV
4F-P18	Shelf life extention of the spring roll papers	Tosporn Namhong	RMUTSB
4F-P19	THE STUDY OF BROWN RICE FRICTION BY USING KERNEL TRACKING IN KEROSENE	Paisan Kanthang	RMUTP

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Code	Title	Author	University
4F-P20	THE MECHANICAL ASPECTS OF COOKED KHAO DAWK MALI 105 RICE	Siwanon Juntron Paisan Kanthang*	RMUTP
4F-P21	Seasonal Effects on Semen Quality in Boars	Nipa Nasinprom	RMUTL
4F-P22	Agronomic Characteristics, Yield and Yield Components of Thai and Chinese Commercial Field Corn Hybrids	Ratchata TONWITOWAT	RMUTT
4F-P23	Change of Sensory Characteristic of Fermented Rice Flour and Fermented Rice Noodle (Kanom-jeen) During Fermentation by <i>Lactobacillus plantarum</i> A1	Orawan Oupathumpanont	RMUTT
4F-P24	Research on Efficiency of Using Cassava Chip as Based Energy and <i>Leucaena</i> Leaf as Protein Supplement for Feeding Dairy Heifer	VIRPOL JAMSAWAT	RMUTTO
4F-P25	Reproductive Performance of Blue Swimming Crab (<i>Portunus pelagicus</i>) Fed with Different Diets	CHONGKO SAETUNG	RMUTTO
4F-P26	Yogurt from Murrah buffalo Milk	WANVISA SARIBUTR	RMUTT
4F-P27	Effects of Different Stocking Density on Growth Performance and Economic Returns of Mekong Giant Catfish (<i>Pangasianodon gigas</i>) Raised in Small-Scale Cage Culture	Kritima Saowakoon Samnao Saowakoon1	RMUTI
4F-P28	Effects of Different Stocking Density on Growth Performance and Economic Returns of River Snail (<i>Filopaludina martensi</i>) Raised in Small-Scale Cage Culture	Samnao Saowakoon	RMUTI
4F-P29	Effects of Different Stocking Density on Growth Performance of Three – spot gourami (<i>Trichogaster trichopterus</i>) in fiberglass Tank	Sirirat Utaiwat Samnao Saowakoon	RMUTI

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Code	Title	Author	University
4F-P30	Product Development of Goat Sausage	Jareeporn Churjedton	RMUTSV
4F-P31	Study on Physical and Biological Characteristics of Rice : Growing on GAP and Organic Practice Comparison with Farmer Practice	Chaweewan Boonrueang	RMUTSB
4F-P32	The use of five manures as an ingredient in the making of straw mushroom (<i>Volvariella volvaceae</i>) spawn	Raweewon Duamkhanmanee	RMUTSB

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Code	Title	Author	University
4EE-P01	Eco-friendly Corrosion Inhibitors: Inhibition and Adsorption Properties of Alcoholic Extract of Piper betle Linn. Leaf on the Corrosion of Steel in Hydrochloric Acid Solution	Boonruen Sunpetch	RMUTSV
4EE-P02	Study of Energy Saving from Elevator Energy Regenerative Unit (EERU), Case Study: RMUTT, Thailand	Boonyang Plangklang	RMUTT
4EE-P03	Real Time Battery Management System for Renewable Energy Power Supplies using Coulomb Counting Method for	Boonyang Plangklang	RMUTT
4EE-P04	A Study of Electrochemical Properties of LiFePO_4 Powders for Cathode Materials in Lithium-Ion Batteries	Nuntarat Sookpunya Roongrojana Songprakorp	KMUTT
4EE-P05	The study of electrical generating system by thermoelectric module using waste heat	Tommawat Soontraratpong Kaokanya Sudaprasert	KMUTT

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Code	Title	Author	University
4EE-P06	The Study and Design of Lighting for Energy Saving in Chrysanthemum Greenhouse	Sucharat Prasertsawat Kaokanya Sudaprasert	KMUTT
4EE-P07	Design development and installation of light emitting diode bulbs in an industrial plant.	Rongsira khumngan Kaokanya Sudaprasert	KMUTT
4EE-P08	Studying of efficiency of solar energy drying system with second law of Thermodynamics	Sirikul Chunsawang	RSU

7. Computer science and Information technology

Code	Title	Author	University
4C-P01	Factors Correlation with Behavior on Global Warming of Residents in Bangkok Metropolitan Region	Wimonpan Apavat	RMUTP
4C-P02	The Questionnaire Content Management System to Analyze the Characteristics of Graduates in Field of Computer	Papatsorn Singhatham	RMUTP
4C-P03	Web Accessibility Conformance of E-Government in Thailand	Rattanaavee Maisak	RMUTP

8. Business Administration

Code	Title	Author	University
4B-P01	Supply chain collaboration:The impact of VMI concept on e-procurement in Thai SMEs Organization	Pipattawade Wannaree	RMUTL
4B-P02	Role of the leader to manage the waste in the city of Bhu Fa , Sub Administration Organization Bo Klea : Bo Klea District, Nan Province	Suksawan Khamwong	RMUTL
4B-P03	Strategic Planning for Developing Cows and Buffalos Market in Sakon Nakhon province	Kraisri Srithupthai	RMUTI

9. Innovation studies

Code	Title	Author	University
4I-P01	Utilizing Authentic Materials for Enhancing English Reading Comprehension Ability of Mattayom Suksa 4 Students	Porntana Khaephimai	NRRU