

**PROGRAM FOR SPECIAL SESSIONS, INVITED LECTURES,  
ORAL PRESENTATIONS, MEETINGS AND SPONSORED SESSION**

**7<sup>th</sup> October 2019**

**SPECIAL SESSION (SP2: CANNABINOIDS: FROM BIOSYNTHESIS TO MEDICAL APPLICATIONS)**

**ROOM: E4A-618 General Sampao Choosri Building**

Chairperson:		Associate Professor Dr.Rudee Surarit	
Time	ID	Title	Speaker
13:30-14:00	SP2_INV001	BIOTECHNOLOGICAL PRODUCTION OF CANNABINOIDS: WHERE ARE WE NOW AND WHERE ARE WE GOING?	Supaart Sirikantaramas
14:00-14:30	SP2_INV002	MEDICAL APPLICATIONS AND MECHANISM OF ACTION OF CANNABINOIDS	Bungorn Sripanidkulchia
14:30-15:00	SP2_INV003	INNOVATION IN CANNABIS TO REACH INTERNATIONAL STANDARD	Kornkanok Ingkaninan
15:00-15:20		OPEN DISCUSSION	

SESSION B: BIOLOGICAL SCIENCE

ROOM: E4A-607 General Sampao Choosri Building

Chairperson:		Professor Dr.Supachitra Chadchawan	
Time	ID	Title	Speaker
13:00-13:30	B_INV001	REGULATORY microRNAs IN SHRIMP IMMUNITY	Kunlaya Somboonwiwat
13:30-13:50	B3_010_OA	<i>In vivo</i> TRANSFER OF PLASMID DNA EXPRESSING dsVP28 FROM RECOMBINANT <i>Bacillus subtilis</i> TO PROTECT SHRIMP FROM WHITE SPOT SYNDROME VIRUS	Hirun Saelim
13:50-14:10	B3_008_OA	BIOLOGICAL ACTIVITIES OF EPIDERMAL GROWTH FACTOR DOMAIN FROM THROMBOSPONDIN OF BANANA SHRIMP ( <i>Fennerpenaeus merguensis</i> )	Monwadee Wonglapsuwan
14:10-14:30	B3_006_OA	DEVELOPMENT OF A NON-LETHAL DETECTION METHOD OF TILAPIA LAKE VIRUS IN NILE TILAPIA	Chutipong Jeamkunakorn
14:50-15:20	B3_005_OA	ASSESSMENT OF THE INHIBITORY EFFECT OF THAI PLANTS ON THE INTERACTION BETWEEN <i>Plasmodium falciparum</i> AND HUMAN RECEPTORS	Todsaporn Bunpote

Chairperson:		Assistant Professor Dr.Noppadon Kitana	
Time	ID	Title	Speaker
13:30-14:00	B_INV002	SLOPE ECO-ENGINEERING-TOWARDS SUSTAINABLE AND GREEN LANDSCAPES	Normaniza Binti Osman
14:00-14:20	B5_006_OF	OVIPOSITIONAL PREFERENCES AND LARVAL DEVELOPMENT OF TAWNY COSTER <i>Acraea terpsicore</i> (LINNAEUS, 1758) (LEPIDOPTERA: NYMPHALIDAE) ON FOUR PASSION VINES	Chitsanuphong Phanthian
14:20-14:40	B5_004_OF	EFFECTS OF HYPER-OSMOTIC SHOCK ON THE RESPONSE OF HEMOLYMPH OSMOLALITY IN THE MUD CRAB <i>Scylla olivacea</i> (HERBST, 1796)	Phurich Boonsanit
15:00-15:20	B5_002_OF	GENETIC DIVERSITY AND REINTRODUCTION SOURCE OF THE COMMON BUTTERFLY LIZARD, <i>Leiolepis belliana</i> (SQUAMATA: AGAMIDAE), ON PHRA ISLAND, CHON BURI PROVINCE	Nutthanun Khantasup
15:20-15:40	B5_008_OF	AVIFAUNA IN PUBLIC PARKS IN BANGKOK AND THE EFFECTS OF PARK AREA	Sutanan Pinmaneenopparat
15:40-16:00	B5_030_OF	GENETIC DIVERSITY OF THE ISLAND FLYING-FOX, <i>Pteropus hypomelanus</i> (CHIROPTERA: PTEROPODIDAE), IN THAILAND	Patcharapon Jumsri
16:00-16:20	B5_029_OA	ADVANCES IN THE TAXONOMY OF PHYTOPATHOGENIC FUNGI	Yasmina Marin Felix

**BMB MEETING**

ROOM: E4A-609 General Sampao Choosri Building

Chairperson: Associate Professor Dr.Tuangporn Suthiphongchai	
Time	Title
15:30-16:30	ANNUAL GENERAL MEETING OF BIOCHEMISTRY AND MOLECULAR BIOLOGY SECTION

**DEANS MEETING**

ROOM: Kham Mok Luang Room, M-Sqaure Building

Time	Title
14:00-16:30	MEETING OF THE COUNCIL OF SCIENCE DEAN OF THAILAND

**STT MEETING**

ROOM: Kham Mok Luang Room, M-Sqaure Building

Time	Title
16:30-17:30	The 1 <sup>st</sup> MEETING OF STT46

**SPONSORED SESSION**

ROOM: E4A-618 General Sampao Choosri Building

Time	ID	Title	Presenter
13:30-16:00	ST1	NMR APPLICATION FOR MEDICINAL HERB-METABOLOMICS APPROACH	Bruker Switzerland AG

**PROGRAM FOR SPECIAL SESSIONS, INVITED LECTURES,  
ORAL PRESENTATIONS, DISCUSSION PANELS, MEETING,  
SPONSORED SESSIONS AND BANQUET**

**8<sup>th</sup> October 2019**

**SPECIAL SESSION (SP1: CRYSTALLOGRAPHY)**

ROOM: E4A-607 General Sampao Choosri Building

Chairperson:		Professor Dr.Nongnuj Muangsin	
Co-Chairperson:		Assistant Professor Dr.Kittipong Chainok	
Time	ID	Title	Speaker
8:30-9:00	SP1_INV001	SNAP FROZEN METASTABLE POLYMORPHS – A STORY OF A TETRAMORPHIC ONE-DIMENSIONAL COORDINATION POLYMER	Edward R. T. Tiekink
9:00-9:15	SP1_001_OA	A SUPRAMOLECULAR Cd(II) FRAMEWORK: A SOLID-STATE LUMINESCENT SENSOR FOR AMINE VAPORS	Sujitra Tunsrichon
9:15-9:30	SP1_015_OA	POROUS-NONPOROUS STRUCTURAL PHASE TRANSFORMATIONS IN MOLECULAR SCHIFF BASE NICKEL(II) COMPLEXES: CRYSTAL STRUCTURE AND HIRSHFELD SURFACE ANALYSIS	Siripak Jittirattanakun
9:30-9:45	SP1_019_OA	ANIONS AND SOLVENT CONTROL SPIN CROSSOVER PROPERTIES OF Iron(II) IMIDAZOLYLIMINE COMPLEXES	Darunee Sertphon
9:45-10:30		FLASH PRESENTATIONS	
Chairperson:		Associate Professor Dr.Kuakarun Krusong	
Co-Chairperson:		Dr.Urarika Luesakul	
Time	ID	Title	Speaker
10:40-11:10	SP1_INV002	CRYSTAL STRUCTURE OF VP37 FROM WSSV REVEALS HEPARIN BINDING SITE IMPORTANT FOR WSSV INFECTION	Pongsak Khunrae
11:10-11:35	SP1_INV003	CRYSTALLOGRAPHIC EXAMINATION OF CYSTEINE BEHAVIORS UPON METAL COMPLEXATIONS IN DE NOVO METALLOPROTEINS	Leela Ruckthong
11:35-12:00	SP1_INV004	LATTIC TRANSLOCATION DISORDER COUPLED WITH PSEUDOTRANSLATION IN <i>Klebsiella pneumoniae</i> UDP-GALACTOPYRANOSE MUTASE CRYSTAL	Kittikhun Wangkanont

Chairperson:		Assistant Professor Dr.Kittipong Chainok	
Co-Chairperson:		Dr.Orrasa In-noi	
Time	ID	Title	Speaker
13:00-13:30	SP1_INV005	IN DEPTH INTO THE STRUCTURES OF MOLECULAR FUNCTIONAL MATERIALS	Arnaud Grosjean
13:30-13:45	SP1_016_OA	SEQUENTIAL SINGLE-CRYSTAL-TO-SINGLE-CRYSTAL TRANSFORMATIONS OF ERBIUM COORDINATION POLYMERS TRIGGERED BY SOLVENT EXCHANGE	Suwadee Jiajaroen
13:45-14:00	SP1_002_OA	SYNTHESIS, STRUCTURE, STRUCTURAL TRANSFORMATION AND VAPOCHROMISM OF AN IMINODIACETATO Ni(II) COMPLEX	Jitti Suebphanpho
14:00-14:30		FLASH PRESENTATIONS	
Chairperson:		Assistant Professor Dr.Supakorn Boonyuen	
Co-Chairperson:		Dr.Winya Dungkaew	
Time	ID	Title	Speaker
14:45-15:15	SP1_INV006	CRYSTAL ENGINEERING OF LANTHANIDE-AZO-4,4'-BENZENE TETRACARBOXYLATE FRAMEWORKS	Kitt Panyarat
15:15-15:30	SP1_012_OA	CRYSTAL ENGINEERING OF ZINC(II) COORDINATION POLYMERS BASED ON TRITOPIC AND N-DONOR MIXED LIGANDS	Kenika Khotchasanthong
15:30-15:45	SP1_003_OA	EFFECT OF POSITION ON IMIDAZOLYIMINE LIGAND ON THE CONTROL OF SPIN CROSSOVER PROPERTIES IN Iron(II) COMPLEXES	Saruda Yokputtaraksa
15:45-16:00	SP1_014_OA	CRYSTALLOGRAPHIC INVESTIGATION OF REVERSIBLE CRYSTAL-TO-CRYSTAL TRANSFORMATION OF NEW COPPER(II) COORDINATION POLYMERS	Kodchakorn Samakun
16:00-16:30		FLASH PRESENTATIONS	

## SESSION A: AGRICULTURAL SCIENCE / BIOTECHNOLOGY

ROOM: E4A-618 General Sampao Choosri Building

Chairperson:		Dr.Somrudee Nilthong	
Co-Chairperson:		Dr.Niramon Suntipabvivattana	
Time	ID	Title	Speaker
9:00-9:30	A_INV001	CARBON AND NITROGEN METABOLISM IN <i>Curcuma alismatifolia</i> GAGNEP USING 13C AND 15N STUDY	Soraya Ruamrungsri
9:30-9:50	A_001_OF	COMPARISON OF ANTIOXIDANT ACTIVITY AND STILBENE COMPOUNDS PRODUCED BY TAINAN9 AND KALASIN9 PEANUT HAIRY ROOT CULTURE ELICITED WITH A COMBINATION OF METHYL JASMONATE, CYCLODEXTRIN AND PARAQUAT	Pakwuan Wongshaya
9:50-10:10	A_002_OA	COLORIMETRIC LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR VISUAL DETECTION OF SCALE DROP DISEASE VIRUS IN ASIAN SEABASS	Sarintip Dangtip
10:10-10:30	A_007_OF	PROTEIN HYDROLYSATE PRODUCTION FROM DEFATTED RICE BRAN BY INNER ENZYME OF RICE MALT PLUS BROMELAIN	Yupakanit Puangwerakul
10:50-11:10	A_013_OF	EVALUATION OF THE CYTOTOXICITY AND GENOTOXICITY OF THE EXTRACTS FROM <i>Halymenia durvillei</i>	Athit Chaiwichien
11:10-11:30	A_016_OA	ROBUST BIOPROCESS FOR THE SUSTAINABLE PRODUCTION OF THE FUNGAL ANTI-CANCER LEAD COMPOUND ILLUDIN M	Lillibeth Chaverra-Muñoz
11:30-11:50	A_017_OF	DATA REDUNDANCY IN PAIRED-END DNA SEQUENCE ALIGNMENTS	Eliot M Cline
11:50-12:10	A_018_OF	SAFETY ASSESSMENT OF THE ETHANOLIC EXTRACT OF <i>Caulerpa lentillifera</i> <i>Invitro</i> SYSTEM	Supawadee Osotprasit

Chairperson:		Dr.Somrudee Nilthong	
Co-Chairperson:		Dr.Niramon Suntipabvivattana	
Time	ID	Title	Speaker
13:30-14:00	A_INV002	MOLECULAR PHARMING: HOW PLANTS CAN PRODUCE THE BIOPHARMACEUTICALS OF TOMORROW	Waranyoo Phoolcharoen
14:00-14:20	A_019_OF	EFFICIENCY OF <i>Caulerpa lentillifera</i> AND <i>Halymenia durvillei</i> EXTRACTED SUBSTANCES IN ANTI-OXIDATION	Tepparit Samrit
14:20-14:40	A_022_OF	TOTAL PHENOLIC CONTENT, TOTAL FLAVONOID CONTENT AND ANTIOXIDANT ACTIVITY OF THE CULTURE FILTRATE EXTRACT FROM <i>Ganoderma lucidum</i>	Puttachard Hensanghong
14:40-15:00	A_026_OA	PROTEIN ENGINEERING IN THE MAKING OF SUPER XYLANASE FOR ANIMAL FEED APPLICATIONS	Harit Boonyaputthikul
15:20-15:40	A_028_OA	EVALUATION OF SEGMENT 5 AND 6 PROTEINS FORM LiLV AS A POTENTIAL VACCINE CANDIDATE	Apisit Luengyangyuen
15:40-16:00	A_030_OA	DEVELOPMENT OF MUTATED ENHANCE GREEN FLUORESCENCE PROTEIN (mtEGFP) BASED ON SENSOR FOR DETECTION OF HEAVY METAL IONS IN THE ENVIRONMENT	Wasusit Somsoros
16:00-16:20	A_031_OF	STUDIES ON MICROBIAL BIOMASS CARBON AND NITROGEN TURNOVER DERIVED FROM SUGARCANE RESIDUES INCORPORATED INTO A SANDY LAOM SOIL	Walaiphan Chuwongpanich
16:20-16:40	A_037_OA	THE UTILIZATION OF PHOSPHATE CONTAINING WASTE WATER FROM SHRIMP PROCESSING FACTORY FOR REARING MARINE MICROALGAE, <i>Tetraselmis</i> , AND <i>Chaetoceros</i> sp.	Chonlatee Cheewasedtham



## SESSION B: BIOLOGICAL SCIENCE

ROOM: E4A-617 General Sampao Choosri Building

Chairperson:		Associate Professor Dr.Tuangporn Suthiphongchai	
Co-Chairperson:		Associate Professor Dr.Rutaiwan Tohtong	
Time	ID	Title	Speaker
9:00-9:30	B_INV003	THE SECRETORY LEUKOCYTE PROTEASE INHIBITOR (SLPI): AN OLD FRIEND WITH NEW ROLES IN CARDIOVASCULAR DISEASES	Sarawut Kumphune
9:30-9:50	B4_001_OA	ESTROGENIC ACTIVITY OF EIGHT COMMERCIAL TRADITIONAL WOMEN REMEDIES ANALYZED BY YEAST TWO HYBRID SYSTEM	Palita Paewthaisong
9:50-10:10	B4_007_OF	PLASMA EXOSOME miR-21 AS THE INTERSTITIAL FIBROSIS AND TUBULAR ATROPHY(IF/TA) BIOMARKER IN KIDNEY TRANSPLANTATION	Sunaree Saejong
Chairperson:		Associate Professor Dr.Tuangporn Suthiphongchai	
Co-Chairperson:		Associate Professor Dr.Rutaiwan Tohtong	
10:30-11:00	B_INV004	METABONOMICS: THE 21 <sup>ST</sup> CENTURY BIOCHEMISTRY-BASED TOOL FOR RESEARCH AND ENTERPRISE	Jutarop Phetcharaburanin
11:00-11:20	B1_003_OA	c-Myc DIRECTLY TARGETS AN OVEREXPRESSION OF PYRUVATE CARBOXYLASE IN HIGHLY INVASIVE BREAST CANCER	Sarawut Jitrapakdee
11:20-11:40	B1_001_OA	USES OF PLASMID DNA AND OLIGONUCLEOTIDES AS BIOPOLYMERS TO ASSIST THE FORMATION OF DIFFERENT SHAPED SILVER NANOPARTICLES	Sineenat Siri
11:40-12:00	B1_004_OF	ANTIOXIDANT AND CYTOPROTECTIVE EFFECT OF <i>Arthrospira platensis</i> PROTEIN HYDROLYSATE	Nattaya Wongyai

Chairperson:		Assistant Professor Dr.Ekachai Chukeatirot	
Co-Chairperson:		Dr.Pattana Kakumyan	
Time	ID	Title	Speaker
13:30-14:00	B_INV005	DISCOVERY OF NOVEL FUNGAL METABOLITES WITH ANTI-INFECTIVE AND OTHER BIOLOGICAL ACTIVITIES	Marc Stadler
14:00-14:15	B2_007_OF	CHARACTERIZATIONS OF TRIMETHOPRIM-SULFAMETHOXAZOLE RESISTANCE IN ENTEROBACTERIACEAE ISOLATED FROM SONGKLANAGARIND HOSPITAL	Kalyarat Kaewnirat
14:15-14:30	B2_009_OF	TESTING THE PHENOTYPIC EFFECTS OF <i>Acinetobacter baumannii</i> ANTIBIOTIC RESISTANT GENE IN <i>Escherichia coli</i> BY USING A HIGH-THROUGHPUT CLONING APPROACH	Asmita Khaniya
14:30-14:45	B2_006_OA	PREVALENCE OF BEGOMOVIRUSES INFECTING HOT PEPPER IN THAILAND	Somrudee Nilthong
14:45-15:00	B2_001_OA	DEVELOPMENT OF SHOE DEODORIZER SPRAYS: ADDING VALUE TO TAPIOCA STARCH VIA ECO-FRIENDLY SYNTHESIS OF SILVER NANOPARTICLES	Chotikan Tungklang
Chairperson:		Assistant Professor Dr.Ekachai Chukeatirot	
Co-Chairperson:		Dr.Pattana Kakumyan	
Time	ID	Title	Speaker
15:15-15:45	B_INV006	BACTERIOPHAGES IN CONTROL OF LUMINOUS VIBRIOS IN SHRIMP HATCHERY	Pimonsri Mittraparp-Arthorn
15:45-16:00	B2_008_OF	CHARACTERISTICS OF BACTERIPHAGES AGAINST <i>Vibrio</i> spp.	Natwara Dangnordang
16:00-16:15	B2_005_OA	PREVALENCE OF PHAGES INFECTING <i>Bacillus cereus</i> IN THUA NAO	Ratarat Kaewnak
16:15-16:30	B2_010_OA	DEVELOPMENT OF A LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR DETECTION OF THE PATHOGENIC OOMYCETE PYTHIUM INSIDIOSUM	Zin Mar Htun
16:30-16:45	B2_004_OA	PHYLOGENY OF <i>Bacillus</i> STRAINS OBTAINED FROM ASIAN FERMENTED SOYBEAN FOOD PRODUCTS	Kanjana Soodpakdee

**SESSION C: CHEMISTRY**

**ROOM: E4A-618 General Sampao Choosri Building**

<b>Chairperson:</b>		<b>Professor Dr.Orawan Chailapakul</b>	
<b>Co-Chairperson:</b>		<b>Dr.Chadin Kulsing</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
9:00-9:30	C_INV001	TOWARDS SEPARATION OF TEN THOUSAND COMPOUNDS WITH COMPREHENSIVE MULTIDIMENSIONAL GAS CHROMATOGRAPHY	Chadin Kulsing
9:30-9:50	C1_001_OF	FLUORESCENT DETERMINATION OF SOLUBLE PYROPHOSPHATE LEVEL IN SYNOVIAL FLUID AS A MARKER OF PSEUDOGOUT DISEASE	Nattha Yongwattana
9:50-10:10	C1_006_OF	SPECIFIC AND SENSITIVE DETECTION METHOD FOR CHROMIUM (VI) IN ORANGE JUICE USING DOUBLE REACTIONS	Indiah Ratna Dewi
10:10-10:30	C1_015_OA	PORTABLE AND INEXPENSIVE SPECTROMETER WITH LIGHT EMITTING DIOED FOR STUDY OF STABILITY OF GOLD NANOPARTICLES	Porawach Chinorn
<b>Chairperson:</b>		<b>Professor Dr.Thawatchai Tuntulani</b>	
<b>Co-Chairperson:</b>		<b>Associate Professor Dr.Apinpus Rujiwatra</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:50-11:20	C_INV002	LANTHANIDE COORDINATION FRAMEWORKS: FROM STRUCTURE TO FUNCTION	Apinpus Rujiwatra
11:20-11:40	C2_002_OA	AMINO-DECORATING MOF AS A DUAL TURN-ON/TURN-OFF FLUORESCENT SENSOR FOR TNP DETECTION	Theanchai Wiwasuku
11:40-12:00	C2_004_OA	A FLUORESCENT SENSOR FOR THE DETECTION OF COBALT(II) IONS BASED ON GRAPHENE QUANTUM DOTS	Wissuta Boonta

Chairperson:		Professor Dr.Tirayuth Vilaivan	
Co-Chairperson:		Assistant Professor Dr.Chittreeya Tansakul	
Time	ID	Title	Speaker
13:00-13:30	C_INV003	PHENANTHRO[1,2- <i>b</i> :8,7- <i>b'</i> ]DITHIOPHENE (PDT): APPLICATION TO ORGANIC FIELD-EFFECT TRANSISTORS AND ORGANIC PHOTOVOLTAICS	Yasushi Nishihara
13:30-13:50	C3_013_OA	DESIGN, SYNTHESIS AND STRUCTURE-PROPERTIES STUDIES OF CATIONIC STYRYL DYES FOR DNA SENSING APPLICATIONS	Kotchakorn Supabowornsathit
13:50-14:10	C3_010_OF	KINETIC STUDY OF CONJUGATE ADDITION OF AMINES INTO ALKYNOLIC ESTER	Peerawat Saejong
14:10-14:30	C3_005_OF	THE PRELIMINARY STUDIES ON THE SYNTHESIS AND THE CYTOTOXICITY TOWARDS HepG2 AND Huh7 OF A NEW SERIES OF SORAFENIB ANALOGUES: REPLACEMENT OF ARYL UREA WITH A TRIAZOLE RING	Panupun Limpachayaporn
Chairperson:		Professor Dr.Pornthep Sompornpisut	
Co-Chairperson:		Associate Professor Dr.Viwat Vchirawongkwin	
Time	ID	Title	Speaker
14:50-15:20	C_INV004	NORMAL MODE ANALYSIS VIA EXPANDED MOMENT OF INERTIA TENSOR	Viwat Vchirawongkwin
15:20-15:40	C4_001_OA	EXCITED-STATE TORSIONAL ROTATION OF THIOFLAVIN T BINDING TO VARIANT HUMAN TELOMERIC G-QUADRUPLEX DNA: A QM/MM STUDY	Wutthinan Thongyod
15:40-16:00	C4_003_OF	ENHANCING SENSITIVITY AND SELECTIVITY OF SURFACE-ENHANCED RAMAN SCATTERING DETECTION BY CHEMOMETRIC METHOD	Nontawat Sricharoen

**SESSION D: POLYMER & MATERIALS SCIENCE / NANOTECHNOLOGY**

**ROOM: E4A-609 General Sampao Choosri Building**

<b>Chairperson:</b>		<b>Assistant Professor Dr.Taweechai Amonsakchai</b>	
<b>Co-Chairperson:</b>		<b>Professor Dr.Supon Ananta</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
13:00-13:30	D_INV001	BIOPLASTIC FROM STARCH AND WHEAT GLUTEN: MATERIALS OF THE FUTURE	Kaewta Kaewtatip
13:30-13:50	D_002_OF	MODIFICATION OF PECTIN BY 3-(DIMETHYLAMINO) PROPYLAMINE	Nootcharee kunkit
13:50-14:10	D_048_OA	PREPARATION AND PROPERTIES OF CASSAVA STARCH / MODIFIED SUGAR CANE FIBER COMPOSITE	Lalisa Bunmechimma
14:10-14:30	D_057_OA	EFFECTS OF PROCESSING STEP AND FIBER VOLUME FRACTION ON RICE STRAW/UNSATURATED POLYESTER BIOCOMPOSITES	Thanatorn Thanyapanich
14:30-14:50	D_028_OF	NATURAL RUBBER FILM MODIFIED BY METHYLTRICHLOROSILANE FOR CREATING SUPERHYDROPHOBIC SURFACE	Patchararujee Ngamdee
<b>Chairperson:</b>		<b>Associate Professor Dr.Wisanu Pecharapa</b>	
<b>Co-Chairperson:</b>		<b>Associate Professor Dr.Darunee Wattanasiriwech</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
15:10-15:40	D_INV002	RECENT DEVELOPMENT OF NiTi SHAPE MEMORY ALLOYS CATHETER DEVICES FOR MEDICAL APPLICATIONS IN THAILAND	Anak Khantachawana
15:40-16:00	D_032_OA	PREPARATION OF HETEROGENEOUS CATALYSTS OF PLATINUM@MESOPOROUS CARBON VIA SELF-ASSEMBLY METHOD FOR FURTURAL HYDROGENATION REACTION	Piyamit Toumsri
16:00-16:20	D_059_OA	COMPARISON OF MOLDED PULPS FROM RICE STRAW, PINEAPPLE LEAF AND BANANA STEM PULPS	Thawan Chotimarnon
16:20-16:40	D_056_OA	EFFECT OF SHORT PULPING TIME ON SODA PULPING PROCESS OF BANANA STEM AND PINEAPPLE LEAF	Bussayapat Phanyot
16:40-17:00	D_058_OA	EFFECT OF POST-CURING ON RICE STRAW/UNSATURATED POLYESTER BIOCOMPOSITES	Thanaphat Boonpet

**SESSION E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE**

**ROOM: E4A-608 General Sampao Choosri Building**

<b>Chairperson:</b>		Associate Professor Dr.Prasert Reubroycharoen	
<b>Co-Chairperson:</b>		Associate Professor Dr.Pitsanupong Kanjanapayont	
Time	ID	Title	Speaker
13:00-13:30	E_INV001	GEOLOGY IN THE VICINITY OF CHINESE GREAT WALL STATION, KING GEORGE ISLAND, ANTARCTICA	Pitsanupong Kanjanapayont
13:30-13:50	E_006_OF	THE STUDY OF BASEFLOW SEPARATION AT WATERSHEDS IN CHIANG RAI, THAILAND	Prach Sukkavee
13:50-14:10	E_009_OA	STRUCTURAL STYLE AND TECTONIC EVOLUTION OF THE TARANAKI BASIN, NEW ZEALAND: INTERPRETATION FROM THE PARIHAKA SEISMIC DATA	Piyaphong Chenrai
14:10-14:30	E_012_OF	ORGANIC GEOCHEMICAL CHARACTERISTICS OF COAL DEPOSITS IN LAMPANG PROVINCE	Patthapong Chaiseanwang
<b>Chairperson:</b>		Associate Professor Dr.Prasert Reubroycharoen	
<b>Co-Chairperson:</b>		Associate Professor Dr.Pitsanupong Kanjanapayont	
Time	ID	Title	Speaker
14:40-15:00	E_013_OF	RECONSTRUCTION OF SEA LEVEL FLUCTUATION AND PALEOENVIRONMENTAL CHANGES IN KHAO SAM ROI YOT NATIONAL PARK, CHANGWAT PRACHUAP KHIRI KHAN DURING THE LATE HOLOCENE	Worakamon Nudnara
15:00-15:20	E_024_OF	PALEOSEISMIC EVIDENCES OF THE DOI WIANG LA FAULT SEGMENT, MAE HONG SON FAULT, NORTHERN OF THAILAND	Chanista Chansom
15:20-15:40	E_028_OF	SIMULATION OF SHALLOW LANDSLIDES SUSCEPTIBILITY MAP IN THE TOP OF PHU TUB BERK MOUNTAIN, PHETCHABUN, THAILAND	Apiwat Intiyakoset

**SESSION G: MATHEMATICS / STATISTICS / COMPUTER SCIENCE**

**ROOM: E4A-608 General Sampao Choosri Building**

<b>Chairperson:</b>		<b>Associate Professor Dr.Chartchai Leenawong</b>	
<b>Co-Chairperson:</b>		<b>Assistant Professor Dr.Nifatamah Makaje</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
9:00-9:30	G_INV001	DEVELOPMENT OF CONSENSUS CLUSTERING AND APPLICATIONS IN THE LAST DECADE	Tossapon Boongoen
9:30-10:00	G_INV002	THE INVASION OF RECOMMENDERS	Ponrudee Netisopakul
10:00-10:20	G_002_OF	EXPLORING DATA CLASSIFICATION MODELS FOR IDENTIFICATION OF CKD PROGRESSION INTERVAL: A CASE STUDY	Theeranai Sangjan
<b>Chairperson:</b>		<b>Associate Professor Dr.Chartchai Leenawong</b>	
<b>Co-Chairperson:</b>		<b>Dr.Chanin Srisuwannapa</b>	
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:40-11:10	G_INV003	DYNAMIC PRICING OR DYNAMIC LOGISTICS?	Thunyarat Amornpetchkul
11:10-11:40	G_INV004	A COMBINED BENDERS DECOMPOSITION AND COLUMN GENERATION TECHNIQUE FOR ONE DIMENSIONAL CUTTING STOCK PROBLEM AND PERSONNEL SCHEDULING PROBLEM WITH DISCRETE UNCERTAIN REQUIREMENTS	Peerayuth Charnsethikul

**SESSION DP1: EXPLORING THE KNOWLEDGE BOUNDARY OF HAZE: FROM SCIENTIFIC FINDINGS TO ACTIONABLE INTELLIGENCE POLICY**

**ROOM: E4A-615 General Sampao Choosri Building**

Time	Panelists
9:00-12:00	<p>Associate Professor Dr.Sermkiat Jomjunyong  <i>Director of Haze Free Thailand Project</i>  <i>Department of Industrial Engineering</i>  <i>Faculty of Engineering, Chiang Mai University</i></p> <p>Assistant Professor Dr.Sombat Yumuang  <i>Director of GIS Thai Center</i></p>

**SESSION DP2: INNOVATION IN APPLIED BIOMEDICAL SCIENCE**

**ROOM: E4A-614 General Sampao Choosri Building**

Time	Panelists
9:00-12:00	<p>Associate Professor Dr.Nipon Theera-Umpon  <i>Department of Electrical Engineering</i>  <i>Faculty of Engineering, Chiang Mai University</i></p> <p>Associate Professor Dr.Sittiporn Punyanitya  <i>BioMedical Engineering Center, Chiang Mai University</i></p> <p>Associate Professor Dr. Surapun Yimman  <i>Department of Industrial Physics and Medical Instrumentation</i>  <i>Faculty of Applied Science, King Mongkut's University of Technology North Bangkok</i></p>



### ANNUAL MEETING

ROOM: Kham Mok Luang Room, M-Square Building

Time	Title
12:00-13:30	ANNUAL MEETING OF THE SCIENCE SOCIETY OF THAILAND UNDER THE PATRONAGE OF HIS MAJESTY THE KING

### SPONSORED SESSIONS

ROOM: E4A-609 General Sempao Choosri Building

Time	ID	Title	Presenter
09:00-12:00	ST2	TOTAL SOLUTION FOR CANNABIS TESTING	Bara Scientific Co., Ltd.
12:00-12:45	ST4	OVERVIEW OF MEDICINAL CANNABIS SOLUTIONS	A.T. Science Trading Ltd., Part.

ROOM: E4A-608 General Sempao Choosri Building

Time	ID	Title	Presenter
12:00-12:45	ST3	NGS SOLUTION FOR YOUR RESEARCH - From sample-to-answer: Find the right NGS solution for your project - Case study: Translational microbiome as applied to health care	Getz Healthcare (Thailand) Ltd.

### CONFERENCE BANQUET

ROOM: HRH Princess Srinagarindra Courtyard

Time	Title
17:30-20:15	CONFERENCE BANQUET

## PROGRAM FOR INVITED LECTURES, ORAL PRESENTATIONS AND DISCUSSION PANELS

9<sup>th</sup> October 2019

### SESSION D: POLYMER & MATERIALS SCIENCE / NANOTECHNOLOGY

ROOM: E4A-609 General Sampao Choosri Building

Chairperson:		Professor Dr.Supon Ananta	
Co-Chairperson:		Associate Professor Dr.Naratip Vittayakorn	
Time	ID	Title	Speaker
9:00-9:30	D_INV003	SYNCHROTRON X-RAY ABSORPTION SPECTROSCOPY INVESTIGATION ON TEMPERATURE- AND FIELD-DEPENDENT LOCAL STRUCTURE IN BTO AND PZT PEROVSKITE MATERIALS	Rattikorn Yimnirun
9:30-9:50	D_034_OA	PHOTOLUMINESCENCE AND X-RAY PHOTOELECTRON SPECTROSCOPIC STUDY OF MILLED ZINC OXIDE MATERIAL PREPARED BY HIGH ENERGY BALL MILLING TECHNIQUE	Wisanu Pecharapa
9:50-10:10	D_014_OA	SUPERHYDROPHOBIC GOLD FILM EMBEDDED ON PDMS AS A POTENTIAL SUBSTRATE FOR MAGNETOWETTING	Kanet Wongravee
10:10-10:30	D_024_OA	ENHANCED PHOTOCATALYTIC EFFICIENCY USING NATURAL LAC-DYE MODIFIED TITANIUM DIOXIDE PHOTOCATALYST	Cheewita Suwanchawalit
Chairperson:		Associate Professor Dr.Naratip Vittayakorn	
Co-Chairperson:		Associate Professor Dr.Darunee Wattanasiriwech	
Time	ID	Title	Speaker
10:40-11:00	D_012_OA	ENHANCED DIELECTRIC CONSTANT OF BARIUM TITANATE-EPOXY COMPOSITES THROUGH A 3D CERAMIC NETWORK STRUCTURE	Gasidit Panomsuwan
11:00-11:20	D_037_OF	ENHANCING HYDROPHOBICITY OF PVDF HOLLOW FIBER MEMBRANE BY PLASMA INDUCED AND GRAFTED WITH CHLOROALKYLSILANES	Hanh Le Thi My
11:20-11:40	D_063_OA	EFFECT OF SURFACE TREATMENTS ON MICRO-SHEAR BOND STRENGTH OF RESIN CEMENT TO A NEWLY DEVELOPED LITHIUM DISILICATE GLASS CERAMIC	Teerapong Mamanee
11:40-12:00	D_054_OF	SYNTHESIS AND STRUCTURAL PROPERTIES OF METAL DOPED Li NIKEL-RICH NMC MATERIALS FOR HIGH SPECIFIC CAPACITY	Jaruwan Kanthachan

**SESSION E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE**

**ROOM: E4-608 General Sampao Choosri Building**

<b>Chairperson:</b>		Associate Professor Dr.Prasert Reubroycharoen	
<b>Co-Chairperson:</b>		Associate Professor Dr.Kraichat Tantrakarnapa	
Time	ID	Title	Speaker
9:00-9:30	E_INV002	AIR POLLUTION AND HEALTH IMPACT ASSESSMENT IN THAILAND	Kraichat Tantrakarnapa
9:30-9:45	E_014_OF	USING INFORMATION AND COMMUNICATION TECHNOLOGY TO SUPPORT THE MANAGEMENT OF HOUSEHOLD HAZARDOUS WASTE: A CASE OF CHIANG RAI PROVINCIAL ADMINISTRATIVE ORGANIZATION	Mudchima Unmuang
9:45-10:00	E_015_OF	ESTIMATING LONG-TERM GROUND-LEVEL PM10 CONCENTRATIONS OVER NORTHERN THAILAND USING A SATELLITE-BASED	Saran Panjaruang
10:00-10:15	E_016_OA	POTENTIAL BIOFERTILIZER FROM HEAVY METAL CONTAMINATED AREA FOR SUSTAINABLE AGRICULTURE	Thitinun Sumranwanich
<b>Chairperson:</b>		Associate Professor Dr.Prasert Reubroycharoen	
<b>Co-Chairperson:</b>		Associate Professor Dr.Kraichat Tantrakarnapa	
10:30-10:45	E_027_OF	PHYSICOCHEMICAL CHARACTERIZATION OF SLOW PYROLYSIS BIOCHAR FROM ROBUSTA SPENT COFFEE GROUNDS FOR UTILIZATION IN SOIL AMENDMENT	Naeem Hussain
10:45-11:00	E_022_OF	CHARACTERISTICS OF BIOCHAR FROM TEA RESIDUAL FOR SOIL AMENDMENT	Patsara Danwittayakul
11:00-11:15	E_011_OA	HYDROGEN ADSORPTION ON MODIFIED ACTIVATED LUFFA CARBON	Sukanya Meethom
11:15-11:30	E_021_OF	DEVELOPMENT OF LITHIUM METAL OXIDE AS A CATHODE MATERIAL FOR LITHIUM ION BATTERIES	Piyaphat Sunthi
11:30-11:45	E_003_OA	ELECTROCHEMICAL PERFORMANCE OF CU-MN-S/CARBON NANOTUBES COMPOSITE AS ELECTRODE MATERIAL FOR COIN CELL SUPERCAPACITORS	Siriwimol Noymak
11:45-12:00	E_025_OA	DIRECT ACTIVATION OF <i>Samanea saman</i> LEAVES TO NITROGEN SELF-DOPED ACTIVATION CARBONS FOR HIGH ENERGY DENSITY SUPERCAPACITORS	Vichuda Sattayarut

## SESSION F: PHYSICS / APPLIED PHYSICS

ROOM: E4A-607 General Sampao Choosri Building

Chairperson:		Associate Professor Dr.Pisith Singjai	
Co-Chairperson:		Dr.Somwan Chumphongphan	
Time	ID	Title	Speaker
9:00-9:30	F_INV001	DEVELOPMENT OF PYTHON-BASED SOFTWARE FOR RESEARCH AND EDUCATION	Supagorn Rugmai
9:30-9:50	F_004_OF	FLOW CROSSOVER DURING COLLISIONLESS MAGNETIC RECONNECTON	Pakkapawn Prapan
9:50-10:10	F_005_OF	VERIFICATION OF CURLING PROBE MEASUREMENT IN DC PLASMA	Chatchai Sirithipvanich
10:10-10:30	F_009_OF	MONITORING PAINT AND PRIMER SAMPLES USING MULTISPECTRAL AND HYPERSPECTRAL IMAGING TECHNIQUES	Nawarat Kaew-on

**SESSION DP3: DIALOGUE FOR ECOLOGICAL REGENERATION: ENGAGING WITH ENVIRONMENTAL  
KNOWLEDGE IN THE NORTH OF THAILAND**

**ROOM: E4A-618 General Sampao Choosri Building**

Time	Panelists
9:00-12:00	Dr.Stephen Elliott <i>Department of Biology</i> <i>Faculty of Science, Chiang Mai University</i>

**SESSION DP4: BORDER DEVELOPMENT**

**ROOM: E4A-618 General Sampao Choosri Building**

Time	Panelists
13:00-16:00	Dr.Pornwasin Sirisawat School of Management, Mae Fah Luang University Dr. Narat Hasachoo School of Management, Mae Fah Luang University