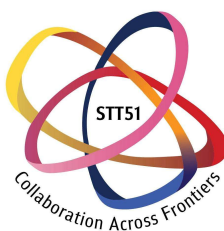


PROGRAM FOR GRAND OPENING CEREMONY OF STT51

November 11st, 2025

**CHULALONGKORN UNIVERSITY AUDITORIUM, CHULALONGKORN UNIVERSITY,
BANGKOK, THAILAND**

Time	Events
6:30	Guests of honor arriving at Chulalongkorn University Auditorium
7:30	All guests are seated in the Chulalongkorn University Auditorium
9:00	- Arrival of Her Royal Highness Princess Maha Chakri Sirindhorn - Presentation of commemorative items and congress documents to Her Royal Highness - Address of appreciation by the President of the Chulalongkorn University Council - Welcome remarks and report on the objectives of the Congress by the President of the Science Society of Thailand - Royal address and declaration of the Congress open by HRH Princess Maha Chakri Sirindhorn
9:20	- Honor Royal Keynote Speaker: "TWO DECADES OF STRATEGIC COOPERATION IN SCIENCE AND TECHNOLOGY BETWEEN THAILAND AND CHINA UNDER THE INITIATIVE OF HER ROYAL HIGHNESS PRINCESS MAHA CHAKRI SIRINDHORN" by Her Royal Highness Princess Maha Chakri Sirindhorn
9:50	- Keynote Lecture: "SINO_THAI COLLABORATION ON JUNO" by Professor Cao Jun, Director of Institute of High Energy Physics (IHEP), Chinese Academy of Sciences (CAS)
10:10	- Keynote Lecture: "HOW OBESITY LEADS TO COGNITIVE IMPAIRMENT AND BRAIN AGING: APPROACHES TO INTERVENTION" by Distinguished Prof. Dr. Siriporn Chatthipakorn, Outstanding Scientist of Thailand 2025.
10:30	- Her Royal Highness Princess Maha Chakri Sirindhorn proceeds to the Exhibition Hall to view special exhibitions, including: Scientific activities related to China under HRH Princess Maha Chakri Sirindhorn's initiatives, Academic achievements of the Faculty of Science, Chulalongkorn University, Contributions of the Science Society of Thailand under the Patronage of HM the King, and National award-winning science projects by high school students
12.30	- Her Royal Highness Princess Maha Chakri Sirindhorn presides at group photo sessions
12:45	Her Royal Highness Princess Maha Chakri Sirindhorn graciously departs Chulalongkorn University

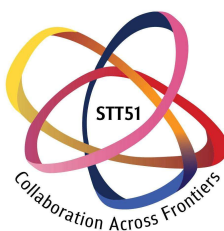


**HONOR ROYAL KEYNOTE SPEAKER:
H.R.H. Princess Maha Chakri Sirindhorn**



**TWO DECADES OF STRATEGIC COOPERATION IN
SCIENCE AND TECHNOLOGY BETWEEN THAILAND AND CHINA
UNDER THE INITIATIVE OF
HER ROYAL HIGHNESS PRINCESS MAHA CHAKRI SIRINDHORN**

Her Royal Highness Princess Maha Chakri Sirindhorn



KEYNOTE SPEAKER: PROF. DR. CAO JUN

SINO-THAI COLLABORATION ON JUNO

Jun Cao^{1,*}

¹ Director of Institute of High Energy Physics (IHEP), Chinese Academy of Sciences (CAS)

*e-mail: caoj@ihep.ac.cn



Abstract:

Neutrinos are the most abundant matter particles in the universe, but incredibly difficult to detect. Many fundamental questions remain to be solved. The Jiangmen Underground Neutrino Observatory (JUNO) is one of the world-leading experiments to tackle these mysteries. It consists of a 20,000-ton liquid scintillator detector located 700 meters underground. The project is hosted by the Institute of High Energy Physics of Chinese Academy of Sciences, with contributions from 17 cooperating countries and regions. Three Thai universities contributed to the design and construction of the Earth Magnetic Coil system, which is designed to protect photomultipliers from the influence of the geomagnetic field on their detection efficiency, and to the performance test of the photomultipliers. Thailand is also working on the data analysis and theoretical researches. JUNO has completed construction. Data taking began in August 2025. It aims to answer fundamental questions such as: Which neutrino is the heaviest or lightest among the three types? How does neutrino drive the supernova explosion, solar evolution and the Earth's evolution? And even the ultimate question: can proton decay?

nature

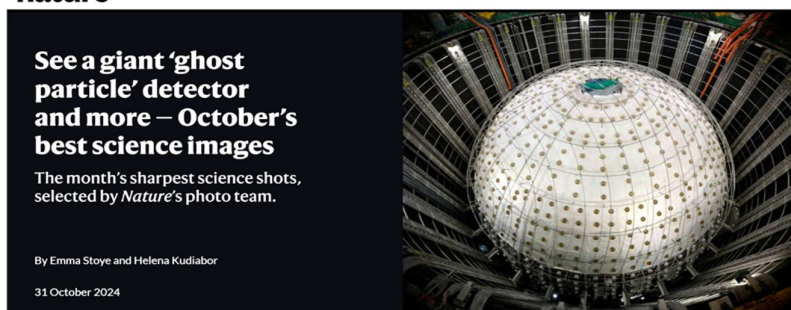
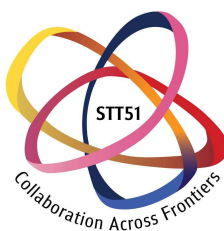


Figure 1. A photo of the nearly-complete JUNO detector selected as the month's best science images by *Nature* in October, 2024. Earth Magnetic Coils are clearly seen on the photo together with 20-inch photomultipliers.

Professor Jun Cao obtained his bachelor's degree from Wuhan University, China in 1993 and Ph.D. degree from the Institute of High Energy Physics (IHEP), China in 1998. Following postdoctoral fellowships at the Linear Accelerator Laboratory in France and the University of Michigan in USA, he has worked at IHEP since 2004. He led the antineutrino detector design and construction, liquid scintillator R&D, and data analysis of the Daya Bay Reactor Neutrino Experiment (Daya Bay), and has served as the co-spokesperson since 2013. He is an initiator of the Jiangmen Underground Neutrino Observatory (JUNO), and serves as the deputy spokesperson. He has been awarded the First Prize of the State Natural Science Award in 2016, the 2013's Outstanding Science and Technology Achievement Prize of CAS, and the C.N. Yang award of the Association of Asia-Pacific Physical Societies in 2013. He has been the director of IHEP since 2024.



KEYNOTE SPEAKER: DISTINGUISHED PROF. DR. SIRIPORN C. CHATTIPAKORN

HOW OBESITY LEADS TO COGNITIVE IMPAIRMENT AND BRAIN AGING: APPROACHES TO INTERVENTION

Patcharapong Pantiya,^{1,2} Titikorn Chunchai,^{1,2} Nattayaporn Apaijai,^{1,2,3}
Chanisa Thonusin,^{1,2,3} Wasana Pratchayasakul,^{1,2,3} Arintaya
Phrommintikul,⁴ Nipon Chattipakorn,^{1,2,3,5} Siriporn C. Chattipakorn^{1,2,6,*}

¹ Neurophysiology Unit, Cardiac Electrophysiology Research and Training Center, Faculty of Medicine, Chiang Mai University, Chiang Mai, 50200, Thailand

² Center of Excellence in Cardiac Electrophysiology Research, Chiang Mai University, Chiang Mai, 50200, Thailand

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⁴ Department of Internal Medicine, Faculty of Medicine, Chiang Mai University, Chiang Mai, 50200, Thailand

⁵ The Academy of Science, The Royal Society of Thailand, Bangkok, Thailand

⁶ Department of Oral Biology and Diagnostic Sciences, Faculty of Dentistry, Chiang Mai University, Chiang Mai, 50200, Thailand

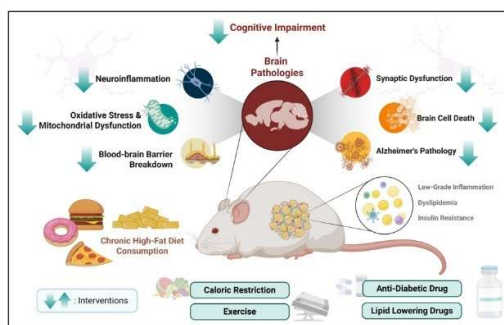
*e-mail: siriporn.c@cmu.ac.th; scchattipakorn@gmail.com (Thailand Outstanding Scientist Award 2025)



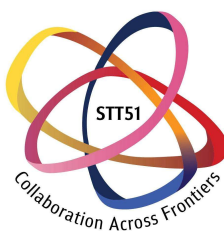
Abstract:

Obesity is increasingly recognized as a significant risk factor not only for metabolic and cardiovascular diseases but also for neurocognitive decline and accelerated brain aging. Our studies investigate the multifactorial mechanisms through which obesity impairs brain function, including chronic neuroinflammation, insulin resistance, oxidative stress, synaptic dysregulation, and mitochondrial dysfunction in the brain. These pathological processes contribute to structural brain changes, reduced cognitive performance, and an increased risk of neurodegenerative diseases such as Alzheimer's disease. Moreover, the obese brain exhibits characteristics commonly associated with aging. Intervention strategies—such as lifestyle modifications, including dietary changes and physical activity, as well as pharmacological treatments—have shown promise in mitigating these adverse effects. These findings suggest that early intervention targeting both metabolic and neurological pathways may help preserve cognitive health and delay brain aging in individuals with obesity, as summarized in the graphical figure.

Keywords: Obesity; Insulin Resistance; Brain; Cognition; Aging; Interventions



Professor Dr. Siriporn Chattipakorn was born in Phuket, Thailand, in 1967. She received her Bachelor's degree in Doctor of Dental Surgery (Honors) from the Faculty of Dentistry, Chiang Mai University, Thailand, in 1992. She earned her Doctor of Philosophy (Ph.D.) in Oral Biology, with a specialization in Neurobiology, in 1999 from the Dental Research Center, University of North Carolina at Chapel Hill, North Carolina, USA. She subsequently completed a Postdoctoral Fellowship in Neurophysiology from 1999 to 2001 at the Department of Physiology and Biophysics, University of Alabama at Birmingham, Birmingham, Alabama, USA. Since 2001, Professor Chattipakorn has been working at the Department of Oral Biology and Diagnostic Sciences, Faculty of Dentistry, and the Neurophysiology Unit, Cardiac Electrophysiology Research and Training Center (CERT), Faculty of Medicine, Chiang Mai University, Thailand. Her research focuses on the neuropathophysiology of cognition in metabolic syndrome, spanning *in vivo* studies to clinical research.



PLENARY SPEAKER: PROF. DR. SOPIT WONGKHAM

CRACKING THE SUGAR CODE: CHALLENGES AND OPPORTUNITIES IN PRECISION MEDICINE FOR CHOLANGIOCARCINOMA

Atit Silsirivanit,¹ Chatchai Phoomak,^{1,2} Marutpong Detarya,^{1,3}
Somsiri Indramanee,^{1,4} Sopit Wongkham^{1,*}

¹ Department of Biochemistry, Faculty of Medicine, Khon Kaen University, Thailand

² Department of Biology, Faculty of Science, Chulalongkorn University, Thailand

³ Department of Radiation Oncology, Cancer Institute of New Jersey, USA

⁴ Division of Biochemistry, Department of Preclinical Science, Faculty of Medicine, Thammasat University, Thailand

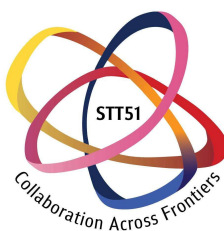
*e-mail: sopit@kku.ac.th



Abstract:

Thailand's national incidence of cholangiocarcinoma (CCA) is declining but remains significantly higher than the global average, underscoring the ongoing public health challenges and the urgent need for improved diagnostic and treatment strategies. Glycans influence tissue elasticity, protection, and integrity, protein folding, sorting, and secretion, cell-cell recognition and communication, etc. Aberrant glycosylation contributes significantly to tumor development and metastasis. This presentation highlights the importance of altered glycan modifications—specifically sialylation, fucosylation, O-GalNAcylation, and O-GlcNAcylation—in CCA progression, demonstrated both in human tissues and a hamster model. Targeted inhibition of these glycosylation pathways via siRNA or lectin blocking markedly reduces the aggressive behavior of CCA cells. Elevated O-GalNAcylation enhances EGF/EGFR binding and activation of EGFR signaling, which finally promotes tumor progression. Notably, intracellular O-GlcNAcylation can modulate extracellular glycan patterns on CCA cells, resulting in an increase in high-mannose-type N-glycans that correlates with the metastatic potential of CCA cells. Deciphering these “sugar codes” offers promising avenues for “Glyco-medicine” in identifying specific biomarkers for CCA diagnosis, prognosis, and targeted therapy. Personalized glycan profiling may revolutionize precision medicine by enabling accurate prediction of disease risk, progression, and treatment response for individual patients, ultimately improving clinical outcomes in CCA management.

Professor Sopit Wongkham earned her B.Sc. in Medical Technology with gold medal honors, followed by an M.Sc. and Ph.D. in Biochemistry from Mahidol University in 1983. She began her academic career as a lecturer in the Department of Biochemistry, Faculty of Medicine, Khon Kaen University, where she advanced to Professor and Emeritus Professor. Her research focuses on identifying tumor markers for diagnosis/prognosis and effective treatment of cholangiocarcinoma. Her work has established a comprehensive knowledge base, discovering promising molecules for tumor markers and targeted therapies of the disease. She has received multiple awards, including the 2013 Outstanding Scientist Award from the Foundation for the Promotion of Science and Technology under the Patronage of His Majesty the King.



PLENARY SPEAKER: PROF. DR. TANAPAT PALAGA

UNTAPPED POTENTIAL OF TISSUE MICROENVIRONMENT MACROPHAGES IN HEALTH AND CANCER

Pornlapat Keawvilai,^{1,2} Suphanun Phuphanitcharoenkun,^{1,2} Atsadam Boonmee,³ Kittin Weerasophol,^{1,2} Benjawan Sae-sue,⁴ Tanapat Palaga^{2,5,*}



¹ Graduate Program in Biotechnology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand

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³ Department of Microbiology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

⁴ Faculty of Veterinary Science, Mahasarakham University, Thailand

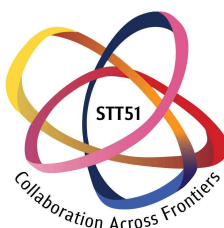
⁵ Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, 10330, Thailand.

*e-mail: tanapat.p@chula.ac.th

Abstract:

Macrophages are innate immune cells essential for the first line of defense against infection through their pro-inflammatory functions. Beyond this role, accumulating evidence highlights their importance in maintaining tissue integrity by promoting homeostasis and facilitating resolution of inflammation. Conversely, macrophages can be co-opted by tumors to support cancer growth and metastasis, and they contribute to age-associated chronic inflammation, or inflammaging. These diverse functions underscore their therapeutic potential. Macrophages originate during embryogenesis, seed most adult tissues, and adapt to the local microenvironment; thus, strategies to manipulate them must consider tissue context. Compared with other immune cells, therapeutic interventions that specifically target macrophages remain limited. In this study, we investigated the molecular control of tissue macrophages using three-dimensional (3D) tissue culture systems and conditional gene deletion *in vivo*. In a 3D human skin model incorporating macrophages, we established an immunocompetent skin system suitable for studying responses to external stimuli, such as UV exposure. In a hepatocellular carcinoma spheroid model, co-culture with macrophages revealed tumor-promoting molecular signatures. Furthermore, targeted deletion of an epigenetic-modifying enzyme in macrophages *in vivo* accelerated tumor growth. Together, our findings highlight tissue microenvironment macrophages as critical regulators in both healthy and diseased states and demonstrate their potential as targets for immunotherapeutic interventions.

Professor Tanapat Palaga received his Bachelor's and Master's degrees in Bioengineering from the Tokyo Institute of Technology, Japan in 1994 and 1996, respectively, and his Ph.D. in Microbiology from the University of Massachusetts Amherst, USA in 2002. He is currently Head of the Department of Microbiology, Faculty of Science, Chulalongkorn University, and serves as Chair of the Immunology Academic Division of the Allergy, Asthma, and Immunology Association of Thailand.



PLENARY SPEAKER: PROF. DR. TAISUKE SASAKI

UNVEILING MICROSTRUCTURES OF METALLIC MATERIALS – FROM MICRON SCALE TO ATOMIC SCALE

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Abstract:

The microstructure is a determining factor in materials properties, in addition to materials' intrinsic properties. Since microstructures affecting properties lie over a wide range of length scales—from micro to atomic—various microscopy techniques are required to analyze them in detail. This presentation will showcase state-of-the-art 2D and 3D microstructure analyses using advanced electron microscopes and 3D atom probe (3DAP). One example is visualizing interactions between solute elements and defects in a lightweight magnesium alloy using correlative transmission electron microscopy (TEM)/APT analysis. A bright-field TEM image of a needle-shaped specimen for APT analysis reveals dislocations (Fig. a). Atomic-resolution HAADF-STEM imaging shows no significant elemental fluctuation (Fig. b). However, the 3D atom map obtained from the needle reveals the dispersion of nanoscale solute clusters and solute segregation to dislocations (Fig. c). These features, revealed for the first time by correlative TEM/APT analysis, explain the strength of the magnesium alloy presented here [1]. Furthermore, this presentation will showcase how understanding microstructure has been used to explain the origin of properties and develop high-performance materials such as structural materials, permanent magnets, and semiconductors.

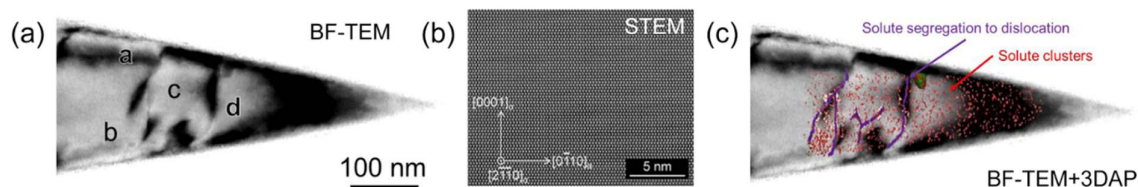
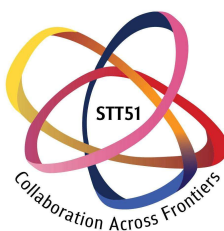


Figure 1. (a) A bright-field TEM image obtained from a magnesium alloy showing dislocations. (b) Atomic-resolution HAADF-STEM image showing no elemental fluctuation. (c) 3D atom map overlaid with a bright-field TEM image. The segregation of solute elements in defects can be clearly visualized through this method, which is difficult to visualize using TEM analysis [1].

[1] M.Z. Bian, T.T. Sasaki et al., *Acta Mater.* 150 (2018) 278.

Dr. Taisuke Sasaki, the Group Leader of Microstructure Analysis Group at the Research Center for Structural Materials in NIMS, was born in Osaka, Japan in 1980. He received the Doctorate in Engineering, in 2008 from University of Tsukuba, Japan. Following postdoctoral appointments at NIMS and the University of Alabama, USA, he started working as a tenured researcher at NIMS, Japan in 2011. His research interests include microstructural analysis using electron microscopes, such as SEM and TEM, and 3DAP, as well as the development of high-performance metallic materials. He is a professor of subprogram in Materials Science and Engineering, University of Tsukuba-NIMS joint graduate school.



PLENARY SPEAKER: PROF. DR. XIAO GUANG LEI

OPPORTUNITIES FOR MERGING CHEMICAL AND BIOLOGICAL SYNTHESIS

Xiaoguang Lei^{1,*}

¹ College of Chemistry and Molecular Engineering, Peking-Tsinghua Center for Life Sciences, Peking University, Beijing 100871, China

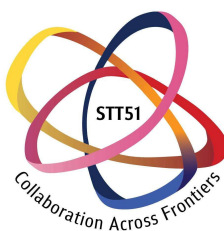
*e-mail: xglei@pku.edu.cn



Abstract:

Natural products and their derivatives have long been utilized as medicinal agents, and they continue to comprise a significant portion of clinically approved drugs. Natural product synthesis offers a rich and unparalleled opportunity to develop new synthetic transformations, conceive novel and general strategies for accessing complex structures, and study the mechanisms of action of bioactive targets. This lecture will illustrate the opportunities at this interface between synthetic organic chemistry and chemical biology by describing a series of examples we are actively working on in our laboratory at Peking University. We draw inspiration from Mother Nature to investigate the biosynthesis of plant-derived natural products, with the goal of elucidating new enzymatic mechanisms. By applying the chemoenzymatic approach, we aim to prepare complex natural products and their derivatives. Moreover, we further use bioactive natural products to explore new biology and develop novel drug candidates for human diseases.

Prof. Xiaoguang Lei obtained a BS in chemistry from Peking University in 2001 and a Ph.D. in organic synthesis from Boston University under the supervision of Prof. John Porco in 2006. He then conducted postdoctoral work in bioorganic chemistry with Prof. Samuel Danishefsky at Columbia University from 2006 to 2008. In early 2009, he returned to China. He started his independent career as a Principal Investigator and Director of the Chemistry Center at the National Institute of Biological Sciences (NIBS) in Beijing. In early 2014, he received a tenured full professorship at Peking University and moved to the College of Chemistry. Now, he is the Boya Distinguished Professor of Chemistry and Chemical Biology and a senior PI of the Peking-Tsinghua Center for Life Sciences. His primary research areas include chemical biology, natural product synthesis, biocatalysis, and drug discovery. He has published more than 180 original research papers, including those in *Science* (5), *Cell* (2), and *Nature* (2), among others, and has obtained 30 granted patents for new drug discoveries. He has developed four “first-in-class” drug candidates, one of which has started Phase II clinical trials in the USA and China since 2022. He has received many prestigious awards, including the 2023 Sackler Chair Award in Israel, the 2022 Molecules Tu Youyou Award, the 2022 Xplore Prize, the 2021 Boehringer-Ingelheim Senior Investigator Award, the 2020 Bayer Investigator Award, the 2018 David Ginsburg Award in Israel, the 2017 Tetrahedron Young Investigator Award, the 2017 Swiss Chemical Society Distinguished Lectureship Award, the 2015 Chemical Society of Japan Distinguished Lectureship Award, the 2014 Roche Young Investigator Award, the 2013 International Chemical Biology Society (ICBS) Young Chemical Biologist Award, and the 2010 IUPAC Young Chemist Award, etc. He is currently an Associate Editor for *JACS Au*.



PLENARY SPEAKER: DR. PICHAET WIRIYACHITRA

WORLD'S FIRST 100 CASES OF HIV CURE WITH STEM CELLS STIMULATED BY FORTIFIED MANGOSTEEN EXTRACT

Pichaet Wiriyaichitra^{1,*}

¹ CEO, Asian Phytoceuticals Public Company Limited

*e-mail: pw@apco.co.th, pwapco@gmail.com



Abstract:

Since the identification of Human Immunodeficiency Virus (HIV) in 1981, antiretroviral therapy (ART) has remained the primary means of disease control, effectively suppressing viral replication but causing cumulative side effects during long-term use. Despite extensive global efforts, a definitive cure for HIV has yet to be achieved. After more than two decades of research on Thai edible plant extracts, a fortified mangosteen extract—comprising mangosteen (*Garcinia mangostana*), soy, sesame, guava, and *Centella asiatica*—has demonstrated potential as an effective HIV cure.

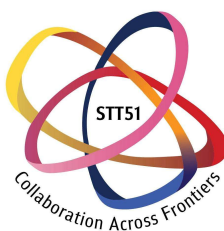
This formulation has been found to stimulate endogenous stem cell production and activate their differentiation into immune effector cells, including CD4⁺ (Th1 and Th17) and CD8⁺ (cytotoxic T) lymphocytes. These immune cells selectively target and eliminate HIV-infected cells.

To date, 100 HIV-positive individuals treated with this fortified extract have shown complete viral eradication with no observable side effects. Furthermore, participants exhibited markers of telomere elongation, suggesting potential anti-aging benefits. The first recorded case of HIV eradication occurred in 1957, and the patient has since maintained good health with undetectable viral load.

References:

1. ByeByeHIV with Thai Innovation: <https://www.scivisionpub.com/abstract-display.php?id=3167> (Clinical Immunology & Research)
2. ByeByeHIV with Plant-Based Immunotherapy: Progress Update on 40 Cases without the Use of ARV Drugs (Group A): <https://www.scivisionpub.com/abstract-display.php?id=3769> (Clinical Immunology & Research)
3. ByeByeHIV with Plant-Based Immunotherapy: Progress Update on 40 Cases with Prior Use of ARV Drugs (Group B): <https://www.scivisionpub.com/abstract-display.php?id=3770> (Clinical Immunology & Research)
4. 100 Cases of ByeByeHIV with Stem Cell Stimulated by Fortified Mangosteen Extract: (Clinical Immunology & Research). In press

Professor Pichaet Wiriyaichitra is the CEO of Asian Phytoceuticals Public Company Limited, a company listed in Stock Exchange of Thailand, to engage in research, development and commercialization of health products derived from natural extracts. Dr. Pichaet received the BSc.Hons (Organic Chemistry) from University of Western Australia in 1970 and Ph.D. (Organic Chemistry) from University of Tasmania in 1972. He was a NIH Post-doctoral Fellow at University of Connecticut, America in 1974 and a NSF Post-doctoral Fellow at University of Pennsylvania, America in 1976. His research interests in the Prince of Songkla University and Chiang Mai University in Thailand include the development of Balancing Immunity (BIM) products for autoimmune symptoms and immune-deficient symptoms.



PLENARY SPEAKER: DR. RAFFAEL OSEN

FROM BIODIVERSITY TO BIOAVAILABILITY: ENHANCING NUTRITION IN FUTURE FOODS FOR ASIAN CONSUMERS

Raffael Osen,^{1,*} Melanie Weingarten,¹ Jie Hong Chiang¹

¹ Singapore Institute of Food and Biotechnology Technology (SIFBI), Agency for Science, Technology and Research (A*STAR), 31 Biopolis Way, Nanos, Singapore 138669, Singapore

*e-mail: Raffael_osen@sifbi.a-star.edu.sg



Abstract:

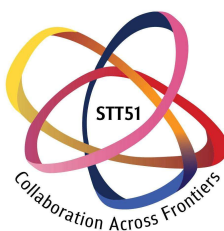
Consumer dietary habits are evolving rapidly in response to growing concerns about health, environmental sustainability, and ethical values. A rising number of consumers are seeking to complement animal-based products with alternative protein-based alternatives.

While such future foods have already entered the market, perceived gaps in taste and nutrition remain key barriers to broader adoption. Simultaneously, increasing public discourse around ultra-processed foods—particularly within the future foods sector—is generating confusion, often blurring the lines between technological innovation and perceived healthfulness.

To address these challenges, it is essential to understand how the structuring and processing of alternative proteins influence consumer acceptance and nutritional performance, especially within the diverse cultural and dietary contexts of Asia.

This presentation will examine how protein sources derived from plants and microorganisms can be processed for diverse food applications. It will also explore the impact of how processing techniques affect the nutritional, sensory, and functional characteristics of these proteins, highlighting opportunities to enhance bioavailability and overall quality of future foods for Asian consumers.

Dr. Raffael Osen is Deputy Head of the Food & Sensory Science Division at ASTAR's Singapore Institute of Food and Biotech Innovation (SIFBI). He holds a PhD in Food Technology from the Technical University of Munich and has over 15 years of experience leading multidisciplinary teams in sustainable food innovation. At SIFBI, he co-leads the Food Processing Joint Lab at Nuras's Food Tech Innovation Center, where he supports the scale-up and commercialization of future foods. Prior to joining ASTAR, he was in charge of the Food Process Development department at Fraunhofer in Germany, where his team pioneered high-moisture extrusion for plant-based meat and co-initiated the spin-off Endori, now a leading producer of plant-based foods in Europe. Dr. Osen has published over 20 peer-reviewed articles, filed several patents, and licensed technologies for commercial use.



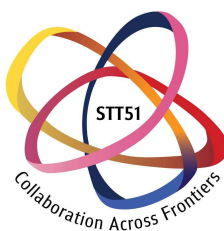
PROGRAM FOR SESSIONS, SYMPOSIUMS AND MEETINGS

NOVEMBER 11st, 2025

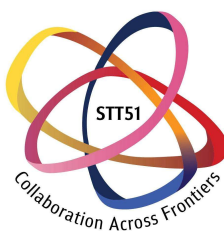
AFTERNOON PROGRAM

Session:	PLENARY SPEAKER		
Room:	M01 MHMK BUILDING		
Chairperson:	Prof. Dr. Tavan Janvilisri		
Time	ID	Speaker	Title
13:00-13:45	-	Sopit Wongkam	CRACKING THE SUGAR CODE: CHALLENGES AND OPPORTUNITIES IN PRECISION MEDICINE FOR CHOLANGIOCARCINOMA

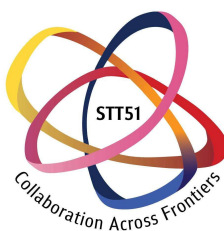
Session:	PLENARY SPEAKER		
Room:	M02 MHMK BUILDING		
Chairperson:	Khun Pawatsawan Niyomkaew		
Time	ID	Speaker	Title
13:00-13:45	-	Pichaet Wiriyaichitra	WORLD'S FIRST 100 CASES OF HIV CURE WITH STEM CELLS STIMULATED BY FORTIFIED MANGOSTEEN EXTRACT



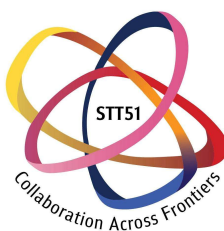
Session:	A – PHYSICS / APPLIED PHYSICS		
Room:	306 MHMK BUILDING		
Chairperson:	Asst. Prof. Dr.Pawin Ittisamai Co-Chair: Dr. Vicharit Yingcharoenrat		
Time	ID	Speaker	Title
15:30-16:00	A_INV01	Apimook Watcharangkool	CORE COLLAPSE SUPERNOVAE AND BEYOND STANDARD MODEL FROM MULTI-MESSENGER DETECTIONS
16:00-16:15	A_001	Kitisak Boonkham / Thanyanan Somnam	A COMPARATIVE STUDY OF LINEAR EXPANSION COEFFICIENTS OF DIFFERENT METALS USING AN INDUCTION HEATING SYSTEM
16:15-16:30	A_002	Subsirirach Maharatanawong	EFFECT OF ANGULAR VARIATION IN DETACHED BREAKWATER STRUCTURE ON THE COASTAL MORPHOLOGY
16:30-16:45	A_003	Jatuporn Puntree	ENTROPY AND LEARNING EFFICIENCY IN SPECIAL RELATIVITY: AN INFORMATION-THEORETIC LENS ON ASSESSMENT DESIGN



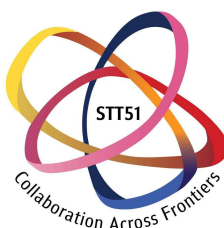
Session:	B - BIOLOGICAL SCIENCES		
Room:	M01 MHMK BUILDING		
Chairperson:	Prof. Dr. Tavan Janvilisri Co-Chair: Assoc. Prof. Dr. Kunlaya Somboonwiwat		
Time	ID	Speaker	Title
14:00-14:30	B_INV01	Ikuo Hirono	UNRAVELING THE MYSTERY OF THE MECHANISM BY WHICH FEEDING BENEFICIAL MICROORGANISMS REDUCES MORTALITY FROM MICROBIAL INFECTIONS IN SHRIMP
14:30-14:45	B_001	Suphaporn Paenkaew	RAPID DNA EXTRACTION FOR DETECTING <i>Babesia</i> spp. USING RPA-CRISPR-CAS12A FOR POINT-OF-CARE TESTING
14:45-15:00	B_002	Suchada Panjan	COMPARATIVE ANALYSIS OF GUT MICROBIOME COMPOSITION AMONG THREE POPULATIONS OF STONE-TOOL-USING LONG-TAILED MACAQUES (<i>Macaca fascicularis</i>)
COFFEE BREAK			
15:15-15:45	B_INV02	Saroj Ruchisansakun	PROGRESS IN GINGER FAMILY RESEARCH IN THAILAND: DIVERSITY, EVOLUTION, AND CONTRIBUTIONS TO ECOSYSTEM SERVICES
15:45-16:00	B_003	Neera Shrestha	RISK OF SEQUENTIAL INVASIONS: INFLUENCE OF <i>Ageratina adenophora</i> ON GROWTH AND DEVELOPMENT OF <i>Bidens pilosa</i> .
16:00-16:15	B_004	Lela Yaya	SUPPRESSION OF BANANA FUSARIUM WILT <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> BY FROG SKIN-ASSOCIATED BACTERIA
16:15-16:30	B_005	Samita Phothong	METABOLOMIC PROFILING OF THAI <i>Centella asiatica</i> (L.) Urb. ACCESSIONS REVEALS VARIATION IN LPS-ACTIVATED NITRIC OXIDE IN RAW264.7 CELLS
16:30-16:45	B_006	Jittakan Pangthong	AMYLASE ACTIVITY IN <i>Oryzaephilus mercator</i> : BIOCHEMICAL INSIGHTS AND METAL ION EFFECTS ANALYZED BY ZYMOGRAPHY AND SPECTROPHOTOMETRY
16:45-17:00	B_007	Jiraporn kamsarn	ISOLATION AND CHARACTERIZATION OF <i>Wolffia globosa</i> -DERIVED EXOSOMES WITH ANTIOXIDANT POTENTIAL



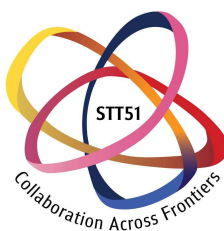
Session:	C - CHEMISTRY C(1)A: INORGANIC & SUPRAMOLECULAR CHEMISTRY C(1)B : LABORATORY AUTOMATION, PROCESS OPTIMIZATION		
Room:	304 MHMK BUILDING		
Chairperson:	Prof. Dr. Thawatchai Tuntulani Co-Chair: Dr. Andrew W. King		
Time	ID	Speaker	Title
14:00-14:30	C_INV01	Thanthapatra Bunchuay	SUPRAMOLECULAR ARCHITECTURES FOR ADVANCED MOLECULAR RECOGNITION AND SUSTAINABLE DEVELOPMENT
14:30-14:45	C_001	Gulzaib Basharat	CYCLODEXTRIN-BASED INCLUSION COMPLEXATION ENHANCES SOLUBILITY AND STABILITY OF A PSORALEN DERIVATIVE: IN SILICO AND IN VITRO STUDY
14:45-15:00	C_002	Papangkorn Phongchamnaphai	MECHANISTIC INVESTIGATION OF ZnO/Ag SYSTEMS VIA DIRECT MODULATION OF ANTIMICROBIAL ACTIVITY USING STACKED Ag-ZnO NANOCUBE "NANOAPARTMENTS" AND NANOWIRE "NANOCONDOMINIUMS"
COFFEE BREAK			
15:15-15:45	C_INV02	Kwanwoo Shin	ROBOT-ARM BASED CHEMISTRY LAB-AUTOMATION
15:45-16:15	C_INV03	Nopmaneerat Leelawiwat	WTE - BRUKER MS – GERSTEL FROM MOLECULES TO MEANING: BUILDING A FUTURE OF PURPOSE-DRIVEN ONE HEALTH ANALYSIS
16:15-16:30	C_003	Banpot Klinpratoom	OPTIMIZATION OF ULTRASONIC-ASSISTED GREEN EXTRACTION OF HEAVY METALS FROM GALANGAL USING RESPONSE SURFACE METHODOLOGY



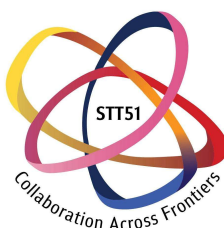
Session:	E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE / MATERIALS SCIENCE / CHEMICAL TECHNOLOGY		
Room:	201 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Prasert Reubroycharoen Co-Chair: Dr. Mati Horprathum		
Time	ID	Speaker	Title
14:00-14:30	E_INV01	Limin Guo	Ln ₂ O ₃ BASED CATALYSTS FOR CO ₂ HYDROGENATION TO METHANOL
14:30-14:45	E_001	Supakarn Kumfoo / Thanapon Mahaparn	ASSESSMENT OF CARBON CAPTURE USING UNMANNED AERIAL VEHICAL COMBINED WITH IMAGE PROCESSING TECHNOLOGY
14:45-15:00	E_002	Abdulrahim Ibrahim	CATALYTIC ENHANCEMENT OF ABSORBENT REGENERATION USING 13X MOLECULAR SIEVES FOR ENERGY-EFFICIENT CARBON CAPTURE
COFFEE BREAK			
15:15-15:30	E_003	Bryle Matthew Bacatan	UPCYCLING PLASTIC WASTE INTO BIMETALLIC METAL ORGANIC FRAMEWORK
15:30-15:45	E_004	Thanapisut Petai	FACTOR ANALYSIS OF VARIOUS Zn PRECURSORS IN THE SYNTHESIS OF ZnO NANOPARTICLES UNDER THE GREEN SYNTHESIS PROCESS USING <i>Tecoma stants</i> FLOWER EXTRACT
15:45-16:00	E_005	Yu Jono	TERNARY AND QUATERNARY AMORPHOUS OXIDE NANOPARTICLES FOR SELECTIVE ACETONE GAS DETECTION
16:00-16:15	E_006	Mana Yamaguchi	SOLID ELECTROLYTE-TYPE ELECTROCHEMICAL GAS SENSORS WITH MOF-BASED ELECTRODE CATALYSTS FOR N ₂ O AND CO DETECTION
16:15-16:30	E_007	Sopida Kaewsuk	SURFACE MODIFICATION OF ACTIVATED CARBON FROM RICE HUSK VIA PHYSICAL AND CHEMICAL PRETREATMENTS FOR CATALYTIC APPLICATION IN SOLKETAL PRODUCTION
16:30-16:45	E_008	Paparwalin Wayupa / Nonpawit Koheng	OPTIMIZATION OF WATER CONTENT IN CH ₃ NH ₃ PBI ₃ AND MICROPIPETTE-ASSISTED FABRICATION FOR HIGH-PERFORMANCE PEROVSKITE SOLAR CELLS
16:45-17:00	E_009	Sukrit Sarati	SYNTHESIS OF HYDROXYAPATITE FROM FLUE GAS DESULFURIZATION GYPSUM FOR ADSORPTION OF Cd ²⁺ AND Pb ²⁺



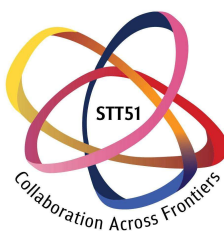
Session:	E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE / MATERIALS SCIENCE / CHEMICAL TECHNOLOGY		
Room:	202 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Pasicha Chaikaew Co-Chair: Assoc. Prof. Dr. Suwadee Kongparakul		
Time	ID	Speaker	Title
14:00-14:30	E_INV02	Feng Wang	CATALYTIC CONVERSION OF BIOMASS
14:30-14:45	E_010	Nguyen Ngoc Diep	ASSESSMENT OF WATER QUALITY FLUCTUATION TRENDS IN INNER-CITY CANALS IN CONDITION OF CLIMATE CHANGE AND SEA LEVEL RAISE
14:45-15:00	E_011	Soravit Sukchuay / Ploypitcha Pattarapongpetch	POST-TREATMENT OF PALM OIL MILL EFFLUENT USING IMMOBILIZED <i>Chlorella vulgaris</i>
COFFEE BREAK			
15:15-15:30	E_012	Natthawat Wisaiprom	EFFECTS OF HYDRAULIC RETENTION TIME AND pH FOR THERMAL EFFICIENCY IN BIOGAS PRODUCTS FROM FOOD WASTE VIA ANAEROBIC DIGESTION METHOD
15:30-15:45	E_013	Chayachon Jiemwetwittayaporn / Warinthip Suwanratsamee	AN INTEGRATED BIOREMEDIATION SYSTEM COMBINING BIOCOMPOSITE-ZEOLITE ADSORPTION BEADS AND AGRICULTURAL WASTE-ENHANCED MICROBIAL DEGRADATION FOR INDUSTRIAL DYE WASTEWATER TREATMENT
15:45-16:00	E_014	Lukman Abdullahi	BIMETALLIC MIL-101(Fe,Cu) METAL ORGANIC FRAMEWORK FOR PHOTOCATALYTIC DEGRADATION OF REACTIVE RED 239 DYE WASTEWATER.
16:00-16:15	E_015	Jia Zhu	NOVEL FLEXIBLE ELECTROCHEMICAL SENSORS FOR VISUALIZED CLINICS
16:15-16:30	E_016	Shuhan Dong	COFFEE GROUND-MEDIATED GREEN SYNTHESIS OF COPPER-DOPED ZINC OXIDE / MAGNESIUM OXIDE NANOPARTICLES: ANTIBACTERIAL ACTIVITY AND PHOTOCATALYTIC DEGRADATION OF METHYL RED
16:30-16:45	E_017	Patcharawarin Sathapornwajana	ENHANCING SUPERHYDROPHOBICITY OF PAPER VIA GAS-PHASE Silylation USING HEXADECYLTRIMETHOXYsilane AND TITANIUM (IV) ISOPROPOXIDE
16:45-17:00	E_018	Poowarin Sakrungrueang	OPTIMIZING LIQUID-TO-SOLID RATIO AND PRESSING PRESSURE FOR HIGH-PERFORMANCE GEOPOLYMER-CORNCOB COMPOSITES
17:00-17:15	E_019	Pisipong Meunprasertdee	HEAVY METAL RISK ASSESSMENT AND SPATIOTEMPORAL DISTRIBUTION IN SURFACE WATER OF THE NA THAP RIVER, SONGKHLA, THAILAND



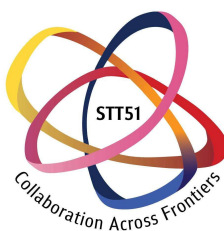
Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	207 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
13:00-13:00	SP1_PLS01	Jin-Shi Xu	FROM THE EPR PARADOX TO QUANTUM ENGINEERING: ADVANCING CHINA-THAILAND COLLABORATION IN QUANTUM RESEARCH
NETWORKING BREAK / PREPARE FOR BREAKOUT ROOM			
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - JUNO/PARTICLE PHYSICS > THAILAND-CHINA COLLABORATION ON JUNO/PARTICLE PHYSICS		
Room:	207 MHMK BUILDING		
Chairperson:	Assoc. Prof. Boonrucksar Soonthornthum		
Time	ID	Speaker	Title
14:00-15:00	SP1_INV01	Yang Changgen	SCIENCE AND TECHNOLOGY DEVELOPMENT IN JUNO
	SP1_INV02	Narumon Suwonjandee / Khanchai Khosonthongkee	THAI-JUNO COLLABORATION
	SP1_INV03	Hai-Bo Li	PHYSICS HIGHLIGHTS FROM THE BESIII EXPERIMENT
	SP1_INV04	Ayut Limphirat	THAI-BESIII RESEARCH AND ACTIVITIES
COFFEE BREAK			
Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - GEOINFORMATICS RESEARCH AND NANOTECHNOLOGY		
Chairperson:	Dr. Uracha Ruktanonchai		
Time	ID	Speaker	Title
15:15-16:00	SP1_INV05	Panu Nueangjumnong	GEOSPATIAL APPLICATIONS FOR RICE MONITORING IN CAMBODIA, LAO PDR, AND MYANMAR COUNTRIES
	SP1_INV06	Deanpen Japrun	DEVELOPMENT OF NANOSENSORS FOR MINIMALLY INVASIVE SCREENING OF NON-COMMUNICABLE DISEASES
	SP1_INV07	Liang Xing-Jie	NANOSCALE BIOMEDICAL ENGINEERING FOR PHARMACEUTICAL DEVELOPMENT



Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	205 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
13:00-13:00	-	-	-
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - SPACE AND ASTRONOMY > THAILAND-CHINA COLLABORATION ON SPACE AND ASTRONOMY		
Room:	208 MHMK BUILDING		
Chairperson:	Dr. Saran Poshychinda		
Time	ID	Speaker	Title
14:00-15:00	SP1_INV08	Zhiqiang Shen	BRIDGING SKIES AND BORDERS: THE SINO-THAI VLBI COLLABORATION
	SP1_INV09	David Ruffolo	SINO-THAI HIGH-ENERGY ASTROPHYSICS AND COSMIC RAYS
	SP1_INV10	Wiphu Rujopakarn	DEVELOPMENT OF PAYLOADS AND SATELLITES FOR LUNAR EXPLORATION
	SP1_INV11	A-Li Luo	SINO-THAI BIG DATA AND COLLABORATION
COFFEE BREAK			
Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - S&T HUMAN RESOURCES DEVELOPMENT AND SCHOLARSHIPS > THAILAND-CHINA COLLABORATION ON SCIENCE AND TECHNOLOGY HUMAN RESOURCES DEVELOPMENT		
Chairperson:	Dr. Piyawat Sivaraks		
Time	ID	Speaker	Title
15:15-16:00	SP1_INV12	Chadamas Thuvasethakul	OVERVIEW OF THAILAND-CHINA COLLABORATION ON SCIENCE AND TECHNOLOGY HUMAN RESOURCES DEVELOPMENT UNDER THE INITIATIVE OF HRH PRINCESS MAHA CHAKRI SIRINDHORN
	SP1_INV13	Huang Dingcheng / Thee Chowwanonthapunya	OCSC-UCAS SCHOLARSHIP
	SP1_INV14	Ditchaphong Phoomikiattisak	SIRINDHORN CENTER FOR GEO-INFORMATICS (SCGI) MASTER PROGRAM
	SP1_INV15	Chayanit Asawatangtrakuldee	BRIDGING THAILAND AND CHINA THROUGH EDUCATION: THE HER ROYAL HIGHNESS PRINCESS MAHA CHAKRI SIRINDHORN'S SCHOLARSHIP

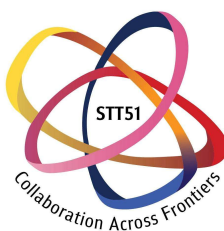


Symposium:	SP3 - NEXGEN ENERGY: STORAGE AND CONVERSION FOR SUSTAINABILITY		
Room:	203 MHMK BUILDING		
Chairperson:	Assoc. Prof. Rojana Pornprasertsuk Co-Chair: Asst. Prof. Dr. Manaswee Suttipong		
Time	ID	Speaker	Title
14:00-14:25	SP3_INV01	Liqiang Xie	STUDY ON SURFACES AND INTERFACES OF PEROVSKITE SOLAR CELLS
14:25-14:50	SP3_INV02	Yanfen Wan	MICRO-NANO ENERGY CONVERSION APPLIED IN FLEXIBLE ELECTRONICS AND SOLAR WATER PURIFICATION
14:50-15:15	SP3_001	Jia Zhu	NOVEL FLEXIBLE ELECTROCHEMICAL SENSORS FOR VISUALIZED CLINICS
COFFEE BREAK			
15:30-15:55	SP3_INV03	Chiaki Terashima	SYNERGISTIC PHOTOCATALYSIS AND IN-LIQUID PLASMA FOR EFFICIENT CO ₂ CONVERSION
15:55-16:20	SP3_INV04	Limin Guo	In ₂ O ₃ BASED CATALYSTS FOR CO ₂ HYDROGENATION TO METHANOL
16:20-16:45	SP3_INV05	Pawin lamprasertkun	UNRAVELING ELECTROCHEMICAL COMPLEXITY OF 2D MATERIALS: A JOURNEY TO THE CENTER OF TUNGSTEN DISELENIDE (WSe ₂)
16:45-17:00	SP3_002	Tanat Srikhota	DEVELOPING SUPPORTER FOR MANGANESE-SODIUM CATALYSTS IN THE OXIDATIVE COUPLING OF METHANE TO HIGHER HYDROCARBONS

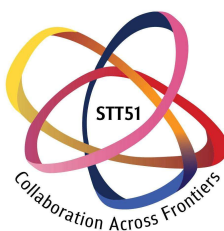


Symposium:	SP6 - NAVIGATING THE QUANTUM FRONTIER		
Room:	305 MHMK BUILDING		
Chairperson:	Asst. Prof. Dr. Thiparat Chotibut Co-Chair: Dr. Supanut Thanasilp		
Time	ID	Speaker	Title
14:00-14:30	SP6_INV01	Worawat Meewasana	EXPLORATION OF ELECTRONIC STATES IN QUANTUM MATERIALS
14:30-15:00	SP6_INV02	Pruet Kalasuwan	RESEARCH ACTIVITIES ON QUANTUM COMMUNICATION IN THAILAND
15:00-15:30	SP6_INV03	Poompong Chaiwongkhot	QUANTUM SECURED COMMUNICATIONS
COFFEE BREAK			
15:45-16:15	SP6_INV04	Sorawis Sangtawesin	VECTOR MAGNETOMETRY WITH NITROGEN-VACANCY CENTERS IN DIAMOND
16:15-16:45	SP6_INV05	Nithiwadee Thaicharoen	QUANTUM SIMULATION AND SENSING WITH RYDBERG ATOMS
16:45-17:15	SP6_INV06	Phatthamon Kongkhambut	TORUS BIFURCATION OF A TIME CRYSTAL IN AN ATOM-CAVITY SYSTEM

Symposium:	SP10 - X-RAY CRYSTALLOGRAPHY		
Room:	206 MHMK BUILDING		
Chairperson:	Prof. Dr. Kuakarun Kruson Co-Chair: Asst. Prof. Dr. Kittikhun Wangkanont		
Time	ID	Speaker	Title
14:00-15:00	-	-	CRYSTALLOGRAPHY WORKSHOP 1: STRUCTURE REPRESENTATIONS, MEASUREMENTS
COFFEE BREAK			
15:15-17:00	-	-	CRYSTALLOGRAPHY WORKSHOP 2: DISPLAYING LIGANDS AND MAPS, STRUCTURE SUPERPOSITION, RAY TRACING, FIGURE RESOLUTION



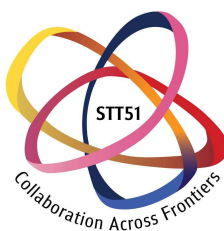
Symposium:	SP14 - VALORIZATION OF BIOMASS-RELATED WASTES		
Room:	308 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Kanokwan Ngaosuwan		
Time	ID	Speaker	Title
13:30-13:45	SP14_001	Nuttida Rosmontri	MODIFIED SOLUBILITY MODELLING FOR PREDICTING BIOACTIVE COMPOUND EXTRACTION IN SUPERCRITICAL CARBON DIOXIDE SYSTEM WITH CO-SOLVENT
13:45-14:00	SP14_002	Ami Takase	DEUTERIUM LABELING OF AMINES USING A PROTON-CONDUCTIVE GRAPHENE OXIDE MEMBRANE REACTOR
14:00-14:30	SP14_INV01	Armando T. Quitain	INSIGHTS AND PERSPECTIVES ON MICROWAVE-CO ₂ -H ₂ O SYNERGY FOR BIOMASS VALORIZATION
14:30-15:00	SP14_INV02	Insik In	SURFACE-FUNCTIONALIZATION OF MXENE WITH CATECHOL LIGANDS: GREENER PREPARATION AND VARIOUS APPLICATIONS.
COFFEE BREAK			
15:15-15:45	SP14_INV03	Noppon Weeranoppanant	UTILIZING BIO-BASED FEEDSTOCKS IN A MODULAR CONTINUOUS FLOW SYNTHESIS SYSTEM
15:45-16:15	SP14_INV04	Rattana Muangrat	SUPERCRITICAL CO ₂ EXTRACTION OF OILS FROM OIL BIOMASS SOURCES: A SUSTAINABLE VALORIZATION APPROACH
16:15-16:45	SP14_INV05	Siti Zullaikah	A SUSTAINABLE SYMPHONY OF VALORIZING AGRO-INDUSTRIAL WASTE: THE CIRCULAR BIOECONOMY
16:45-17:00	SP14_003	Kanokorn Sae-Ueng	FIBERBOARD FROM OIL PALM EMPTY FRUIT BUNCH USING BIOBASED ADHESIVE FROM WASTE OIL PALM TRUNK: MECHANICAL AND ENVIRONMENTAL ASSESSMENTS



Session:	MEETING OF THE SCIENCE DEANS		
Room:	205 MAHA CHULALONGKORN BUILDING		
Time	ID	Speaker	Title
14:00-16:00	-	-	MEETING OF THE SCIENCE DEANS

Session:	POSTER PRESENTATION – SESSION		
Room:	SALA PHRA KIEO		
Time	ID	Speaker	Title
15:00-18:00	-	-	POSTER PRESENTATION (SESSION'S COMMITTEE)

Session:	SCIENCE DEANS & CHAIR & KEYNOTE / PLENARY / INVITED SPEAKER RECEPTION		
Room:	MONTIEN HOTEL SURAWONG BANGKOK		
Time	ID	Speaker	Title
17:30-19:00	-	-	RECEPTION

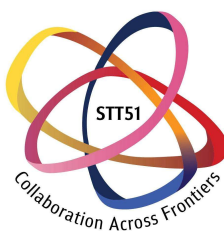


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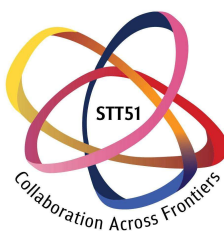
MORNING PROGRAM

Session:	PLENARY SPEAKER		
Room:	M01 MHMK BUILDING		
Chairperson:	Assoc. Prof. Chaleeda Borompichaichartkul		
Time	ID	Speaker	Title
8:30-9:15	-	Raffael Osen	FROM BIODIVERSITY TO BIOAVAILABILITY: ENHANCING NUTRITION IN FUTURE FOODS FOR ASIAN CONSUMERS

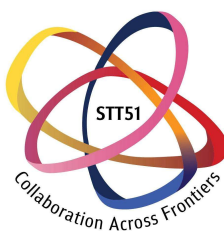
Session:	PLENARY SPEAKER		
Room:	M02 MHMK BUILDING		
Chairperson:	Dr. Warakorn Yanwachirakul Co-chair: Assoc. Prof. Dr. Udomsilp Pinsook		
Time	ID	Speaker	Title
8:30-9:15	-	Taisuke Sasaki	UNVEILING MICROSTRUCTURES OF METALLIC MATERIALS – FROM MICRON SCALE TO ATOMIC SCALE



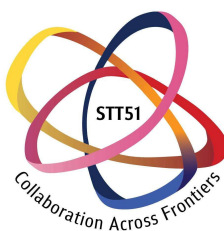
Session:	A – PHYSICS / APPLIED PHYSICS		
Room:	306 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Auttakit Chatrabhuti Co-Chair: Asst. Prof. Dr. Sakhorn Rimjaem		
Time	ID	Speaker	Title
9:30-10:00	A_INV02	Chinorat Kobdaj	DEVELOPMENT OF THE PROTON COMPUTED TOMOGRAPHY PROTOTYPE IN THAILAND
10:00-10:30	A_INV03	Apiwat Wisitsorasak	RECENT PROGRESS ON THE FAST ION STUDY IN THAILAND TOKAMAK-1
COFFEE BREAK			
10:45-11:00	A_004	Kasidit Piekbut	AN ANALYTICAL FRAMEWORK FOR PROCESSING AND INTERPRETING EXPERIMENTAL DATA FROM THAILAND TOKAMAK-1 (TT-1)
11:00-11:15	A_005	Faneel Nontree	PLASMA TEMPERATURES AND DENSITY PROFILES SIMULATIONS OF THAILAND TOKAMAK 1 USING CRONOS CODE
11:15-11:30	A_006	Ami Takase / Imam Sahroni	DEUTERIUM LABELING OF AMINES USING A PROTON-CONDUCTIVE GRAPHENE OXIDE MEMBRANE REACTOR
11:30-11:45	A_007	Thiti Aungcharoen	THE ONE-DIMENSIONAL MODEL OF STATE TRANSITION IN MAGNETIZED PLASMA BASED ON BIFURCATION ANALYSIS



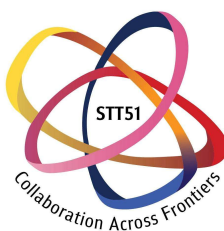
Session:	B - BIOLOGICAL SCIENCES		
Room:	M01 MHMK BUILDING		
Chairperson:	Prof. Dr. Tavan Janvilisri Co-Chair: Assoc. Prof. Dr. Sittiporn Pattaradilokrat		
Time	ID	Speaker	Title
9:30-10:00	B_INV03	Wibhu Kutanan	GENETIC ORIGIN OF THE SEA NOMADS FROM THAILAND
10:00-10:15	B_008	Dhammawit Haemanwichian	MATERNAL GENETIC HISTORY OF LOLOISH SPEAKING HILL-TRIBES IN NORTHERN THAILAND
10:15-10:30	B_009	Piyathida Suebwonglee	A PILOT STUDY ON DEVELOPING A DNA METHYLATION-BASED MODEL FOR AGE ESTIMATION IN BONE: A STUDY IN THE THAI POPULATION
COFFEE BREAK			
10:45-11:00	B_INV04	Pongchai Dumrongrojwatthana	GAMING AND SIMULATIONS TO SUPPORT ACTIVE LEARNING, BIODIVERSITY CONSERVATION, AND SUSTAINABLE DEVELOPMENT
11:00-11:15	B_010	Watchara Thepsupa	THE EFFECT OF SECRETORY LEUKOCYTE PROTEASE INHIBITOR (SLPI)- DERIVED SMALL PEPTIDE (SDSPs) COATED TITANIUM ON HUMAN OSTEOBLAST ADHESION
11:15-11:30	B_011	Philomena Oga	ANTIBACTERIAL ACTIVITY OF CHITOSANS AGAINST BIOFILM OF <i>Streptococcus mutans</i> .
11:30-11:45	B_012	Meghamouli Rana	DEVELOPMENT OF A PH AND THERMO-RESPONSIVE INJECTABLE HYDROGELS FOR CANCER THERAPY
11:45-12:00	B_013	Sereysonita Keo	INVESTIGATION OF ANTIOXIDANT PROPERTIES AND CYTOTOXIC EFFECTS OF CERIUM OXIDE NANOPARTICLES ON HUMAN BREAST CANCER CELLS



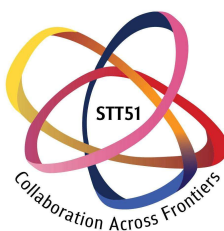
Session:	C - CHEMISTRY C(2): MATERIALS FOR ENERGY, ENVIRONMENT, AND SENSOR APPLICATIONS		
Room:	304 MHMK BUILDING		
Chairperson:	Prof. Dr. Thawatchai Tuntulani Co-Chair: Dr. Nadnudda Rodthongkum		
Time	ID	Speaker	Title
09:30-10:00	C_INV04	He Zhang	BIOCHAR: A KEY MATERIAL BRIDGING WASTE VALORIZATION AND ENVIRONMENTAL SUSTAINABILITY
10:00-10:30	C_INV05	Xin Wang	HYDROPHILICITY-TUNED POLYMER FOR STABLE AQUEOUS BATTERY ELECTROLYTE
COFFEE BREAK			
10:45-11:00	C_004	Ekasith Somsook	PET-DERIVED CARBON MATERIALS FOR FLUORESCENT SENSORS AND MICROPLASTIC REMOVAL
11:00-11:15	C_005	Muhammad Utama	A NOVEL FLUORESCENT PROBE BASED ON ZINC-COPPER BIMETALLIC NANOCCLUSERS FOR ANALYSIS OF IODIDE IN FOOD ADDITIVES
11:15-11:30	C_006	Sukanya Thisan	CHALCONE–LEUCINE–NORBORNENE CONJUGATE: SYNTHESIS, FLUORESCENCE PROPERTIES, AND POTENTIAL APPLICATION FOR Fe ³⁺ DETECTION IN BIOLOGICAL FLUIDS



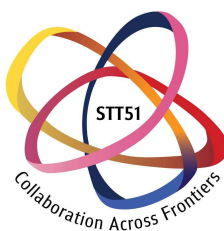
Session:	D - MATHEMATICS / STATISTICS / COMPUTER SCIENCE / DATA SCIENCE / AI		
Room:	201 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Chartchai Leenawong Co-Chair: Dr. Witchaya Rattanametawee		
Time	ID	Speaker	Title
9:30-10:00	D_INV01	Orawich Kumphon	WHEN STATISTICS MEETS RESEARCH: LESSONS FROM HANDS-ON INTEGRATION
10:00-10:15	D_001	Kittimasak Naijit	TIME SERIES FORECASTING OF NET BUSINESS GROWTH IN THAILAND: AN ARIMA-BASED INTERACTIVE DASHBOARD APPROACH
10:00-10:30	D_002	Sathit Prasomphan	AUTOMATED VIDEO SCREENING SYSTEM FOR YOUTH-APPROPRIATE CONTENT
COFFEE BREAK			
Chairperson:	Assoc. Prof. Dr. Chartchai Leenawong Co-Chair: Asst. Prof. Dr. Nawinda Chutsagulprom		
Time	ID	Speaker	Title
10:45-11:15	D_INV02	Udomsak Rakwongwan	MAKING MONEY WITH MATHEMATICS: CASE STUDIES
11:15-11:30	D_003	Chinnapong Angsuchotmetee	PERFORMANCE TRADE-OFFS: AN ANALYSIS OF MODEL SIZE VERSUS SPEED AND INTELLIGENCE IN LARGE LANGUAGE MODELS
11:30-11:45	D_004	Chinnapong Angsuchotmetee	RUST PDF GUARD: A WASM-BASED LIBRARY FOR PDF FILE UPLOAD PRESSCREENING IN ZERO-TRUST ENVIRONMENTS
11:45-12:00	D_005	Supanat Jumpalek	A NONSTANDARD PROOF OF MICHAEL's SELECTION THEOREM



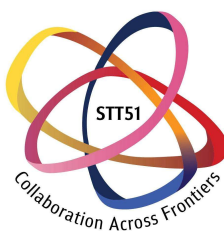
Session:	E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE / MATERIALS SCIENCE / CHEMICAL TECHNOLOGY		
Room:	202 MHMK BUILDING		
Chairperson:	Prof. Dr. Pitsanupong Kanjanapayont Co-Chair: Asst. Prof. Dr. Chatchalerm Ketwetsuriya		
Time	ID	Speaker	Title
9:30-10:00	E_INV03	Prayath Nantasin	PARTICIPATION OF THAI GEOLOGISTS ON ANTARCTIC RESEARCH
10:00-10:30	E_019	Subsirirach Maharatanawong	EFFECT OF ANGULAR VARIATION IN DETACHED BREAKWATER STRUCTURE ON THE COASTAL MORPHOLOGY
COFFEE BREAK			
10:45-11:00	E_020	Kuntapon Kongtago	ENHANCING SEISMIC AMPLIFICATION PREDICTION IN JAPAN USING MULTI-LAYER PERCEPTRON MODELS WITH GEOTECHNICAL, GEOLOGICAL, AND GEOPHYSICAL FEATURES
11:00-11:15	E_021	A-lin Suksawat	CHARACTERISTICS OF CLAY MINERALS RELATED TO ION-ADSORPTION RARE EARTH ELEMENT DEPOSIT FROM GRANITIC ROCKS IN PHANG NGA AREA, SOUTHERN THAILAND, SE ASIA TIN BELT
11:15-11:30	E_022	Serm Sak Thamasa	DELINEATION OF GEOLOGICAL LAYERS AND GROUNDWATER AQUIFERS USING 2D ELECTRICAL RESISTIVITY TOMOGRAPHY AND 2D INDUCED POLARIZATION: A CASE STUDY FROM GRAVEL HILL, SAWATI SUBDISTRICT, MUEANG DISTRICT, KHON KAEN PROVINCE
11:30-11:45	E_023	Zing Par	ESTIMATING GROUND-LEVEL NO ₂ IN THAILAND USING TROPOMI SATELLITE DATA AND GEOS-CHEM MODEL
11:45-12:00	E_024	Hazlamee Benjawong	SPATIAL DISTRIBUTION OF RAINFALL AND TEMPERATURE ANOMALIES IN THAILAND ASSOCIATED WITH ENSO



Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	207 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
8:30-9:00	SP1_PLS02	Lu Kun	FUSION: A PROMISING ENERGY SOLUTION FOR OUR FUTURE
NETWORKING BREAK / PREPARE FOR BREAKOUT ROOM			
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - NUCLEAR AND CLIMATE SCIENCES		
Room:	207 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Thawatchai Onjun		
Time	ID	Speaker	Title
9:30-10:30	SP1_INV16	Somsak Dangtip	THAILAND TOKAMAK-1 AT A GLANCE
	SP1_INV17	Peng Xuebing	CURRENT STATUS AND PROGRESS OF BEST TOKAMAK PROJECT
	SP1_INV18	Zhaohui Lin	EARTH SYSTEM MODEL DEVELOPMENT FOR CLIMATE STUDIES
	SP1_INV19	Siwatt Pongpiachan	SIZE-SEGREGATED ANALYSIS OF PAHs IN URBAN AIR: SOURCE APPORTIONMENT AND HEALTH RISK ASSESSMENT IN AN URBAN CANAL-ADJACENT ENVIRONMENT
COFFEE BREAK			
Chairperson:	Dr. Kampanart Silva		
Time	ID	Speaker	Title
10:45-11:30	SP1_INV20	Thawatchai Onjun / Siriwat Chedsi / Mao Yawei	PANEL: FROM CHINA TO THAILAND: SMR – A MAJOR LEAP FORWARD FOR GLOBAL CLEAN ENERGY

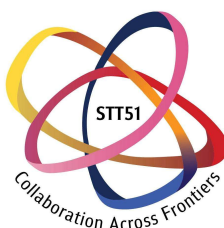


Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	205 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
8:30-9:00	-	-	-
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - PARTICLE ACCELERATOR TECHNOLOGIES		
Room:	208 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Saroj Rujirawat		
Time	ID	Speaker	Title
9:30-10:30	SP1_INV21	Fang Wencheng	R&D ON PROTON AND HELIUM-ION THERAPY FACILITIES AT SSRF/SARI
	SP1_INV22	Somjai Chunjarean	A THAI LINEAR ACCELERATOR FOR PRODUCT IRRADIATION: ADVANCING SUSTAINABLE AGRICULTURE AND ECONOMIC SELF-RELIANCE
	SP1_INV23	Prayoon Songsiriritthigul	PRESENT STATUS OF THAILAND AMS RADIOCARBON DATING PROJECT
	SP1_INV24	Apichat Leckngam	SEM's DESIGN AND DEVELOPMENT
COFFEE BREAK			
Chairperson:	Dr. Jitti Mungkalasiri		
Time	ID	Speaker	Title
10:45-11:30	SP1_INV25	Chonlakiet Khorprasert / Chomporn Sitathanee / Ekkasit Tharavichitkul	PANEL: CLINICAL APPLICATIONS OF PROTON THERAPY IN THAILAND

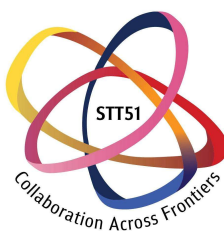


Symposium:	SP2 - FLAVOR AND FRAGRANCE WITHOUT BORDERS: FROM ORIGIN TO GLOBAL MARKET		
Room:	308 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Sittiwat Lertsiri		
Time	ID	Speaker	Title
9:30-10:30	SP2_INV01	Thitipat Suppattranont / Bangon Kietthanakorn / Sittiwat Lertsiri	GLOBAL MARKET INSIGHT: THAI FLAVOR & FRAGRANCE
COFFEE BREAK			
10:45-12:00	SP2_INV02	Bangon Kietthanakorn / Udomlak Sukatta	PRODUCTION AND QUALITY CONTROL OF ESSENTIAL OILS IN FLAVOR & FRAGRANCE

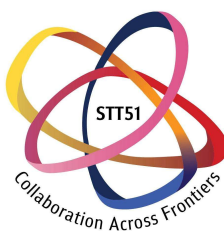
Symposium:	SP3 - NEXGEN ENERGY: STORAGE AND CONVERSION FOR SUSTAINABILITY		
Room:	203 MHMK BUILDING		
Chairperson:	Dr. Prieew Eiamlamai Co-Chair: Asst. Prof. Dr. Jiaqian Qin		
Time	ID	Speaker	Title
9:30-9:55	SP3_INV06	Suk Won Cha	EVALUATION OF PEMWE CORROSION CONDITIONS AND ADVANCED COATINGS FOR BIPOLAR PLATE
9:55-10:20	SP3_INV07	Rapee Utke	HYDROGEN-BASED ENERGY STORAGES
COFFEE BREAK			
10:40-11:05	SP3_INV08	Ruiqin Zhang,	UREA-DRIVEN UNIFORM Sn DEPOSITION FOR LONG-LIFE Sn-I FLOW BATTERIES
11:05-11:30	SP3_INV09	Hongyi Gao	REGULATION OF ACTIVE SITE MICROENVIRONMENT IN METAL-LOADED RE-MOFs FOR ENHANCED CATALYTIC HYDROGENATION PERFORMANCE
11:30-11:45	SP3_003	Wathanyu Kao-ian	HIGHLY STABLE CATHODE DERIVED FROM MANGANESE-ALUMINIUM LAYERED DOUBLE HYDROXIDE FOR WET NONAQUEOUS ZINC-ION BATTERY
11:45-12:00	SP3_004	Suparada Kamchompoo	COMPARATIVE STUDY OF IONIC PUMPING AT MXENE AND CARBON-COATED MXENE INTERFACES FOR STABLE LITHIUM-ION BATTERIES AT LOW TEMPERATURES



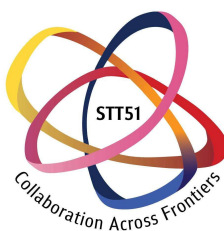
Symposium:	SP7 - COLOUR SCIENCE/TECHNOLOGY, LIGHT AND APPLICATIONS		
Room:	M02 MHMK BUILDING		
Chairperson:	Prof. Dr. Shigeki Nakauchi		
Time	ID	Speaker	Title
9:30-10:15	SP7_INV01	Steve Paolini	PROGRAMMABLE MULTICHANNEL LIGHTING FOR ACCURATE SPECTRAL CONTROL AND DAYLIGHT EMULATION
10:15-10:30	SP7_001	Duantemdoung Dethsuphar	WAVELENGTH-DEPENDENT DEGRADATION OF RED PIGMENTS UNDER NARROW-BAND LED ILLUMINATION
COFFEE BREAK			
10:45-11:25	SP7_INV02	Vineetha Kalavally	PERSONAL LIGHT DOSIMETRY— CHALLENGES, OPPORTUNITIES, AND EMERGING AI APPLICATIONS
11:25-11:40	SP7_002	Pakorn Prajuabwan	ON THE DESIGN OF CIRCULAR SHAPE LIGHT GUIDE PLATE AS ARTIFICIAL LIGHTING FOR WOLFFIA ILLUMINATION TO INVESTIGATE THE EFFECT OF BLUE LIGHT AND RED LIGHT ON WOLFFIA BUDDING
11:40-11:55	SP7_003	Phuttharaksa Lanoi	THE IMPACT OF SIMULATED LOW VISION ON THAI FONT LEGIBILITY: A STUDY OF FOVEA AND PARAFOVEA VISION
11:55-12:10	SP7_004	Krittin Assawaphom	THERMAL AND LIGHT STABILITY OF PIGMENTS AND BINDERS USED IN PAINTING UNDER XENON AND MIXED WHITE LED ILLUMINATION



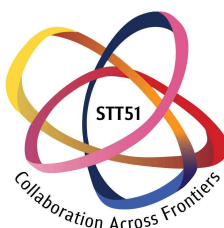
Symposium:	SP9 - EXPLORING THE COSMOS: ADVANCES IN OBSERVATIONAL AND THEORETICAL ASTROPHYSICS		
Room:	305 MHMK BUILDING		
Chairperson:	Dr. Taweewat Somboonpanyakul Co-Chair: Dr. Nicha Leethochawalit		
Time	ID	Speaker	Title
9:30-10:00	SP9_INV01	Yuhiko Aoyama	HYDROGEN LINE EMISSION FROM ACCRETION SHOCK ON FORMING GAS-GIANT PLANETS
10:00-10:30	SP9_INV02	David Ruffolo	COSMIC RAYS: WHERE THEY COME FROM AND HOW THEY GET HERE
COFFEE BREAK			
10:45-11:15	SP9_INV03	Samaporn Tinyanont	LIVES AND EXPLOSIVE DEATHS OF MASSIVE STARS: HOW WE ARE MADE OF STARDUST
11:15-11:30	SP9_001	Anas Yamalae	DISCOVERY OF SPIRAL BRIGHTEST CLUSTER GALAXIES AT $Z = 0.1-1.2$
11:30-11:45	SP9_002	Nutchapak Konjaisue / Nisawara Piyaratanaphiphat	A STUDY OF SINGLE PULSE FLUENCE DISTRIBUTION OF PSR J2048-1616 FOR COMMISSIONING THE THAI NATIONAL RADIO TELESCOPE (TNRT)
11:45-12:00	SP9_003	Ekkawee Tangsailertkul	DARK MATTER DISTRIBUTION AND ITS IMPACT ON GALAXY CLUSTER PROPERTIES: A WEAK LENSING APPROACH



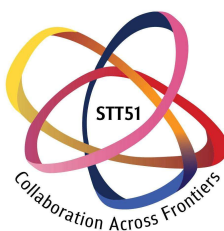
Symposium:	SP10 - X-RAY CRYSTALLOGRAPHY		
Room:	206 MHMK BUILDING		
Chairperson:	Prof. Dr. Kuakarun Kruson Co-Chair: Assoc. Prof. Dr. Kittipong Chainok		
Time	ID	Speaker	Title
9:30-10:00	SP10_INV01	Chun-Hung Lin	STRUCTURAL INSIGHT INTO THE CATALYTIC MECHANISM AND INHIBITOR DEVELOPMENT OF L-FUCOSE-RELATED ENZYMES
10:00-10:30	SP10_INV02	Numpon Insin	MULTIFUNCTIONAL MAGNETIC MATERIALS AS PHOTOCATALYSTS, FROM COMPOSITE MATERIALS TO HIGH ENTROPY MATERIALS
COFFEE BREAK			
10:45-11:15	SP10_INV03	Tatchamapan Yoskamtorn	DECODING STRUCTURES AND DYNAMICS IN FUNCTIONAL FRAMEWORK MATERIALS FOR A NET-ZERO FUTURE
11:15-11:45	SP10_INV04	Prathapa Siriyara Jagannatha	REDEFINING LABORATORY CRYSTALLOGRAPHY: HIGH-INTENSITY SILVER RADIATION AND ADVANCED DETECTION FOR PRECISION STRUCTURAL ANALYSIS
11:45-12:00	SP10_001	Natcha Suparangkul	CRYSTALLIZATION OF A-L-RHAMNOSIDASE FROM <i>Pediococcus acidilactici</i>



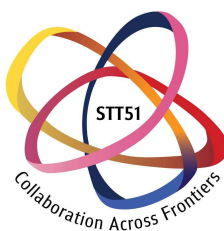
Symposium:	SP12 - THE 2ND INTERNATIONAL SYMPOSIUM OF SCIENCE COMMUNICATION AND PUBLIC SCIENCE LITERACY		
Room:	302 MHMK BUILDING		
Chairperson:	Dr. Ganigar Chen		
Time	ID	Speaker	Title
9:30-10:15	SP12_INV01	Julia Rizzo	"TRUST ME, I'M A SCIENTIST." WHY SCIENCE COMMUNICATION MATTERS
COFFEE BREAK			
10:30-12:00	SP12_INV02	Saran Poshyachinda	ASTRONOMY AS A TOOL FOR SCIENCE COMMUNICATION: THE NARIT MODEL
	SP12_INV03	Fung Hon Ngen (Kenneth)	EVALUATING IMPACT IN SCIENCE ENCULTURATION IN MALAYSIA
	SP12_INV04	Mark Ivan Coronado Roblas	PROMOTING PUBLIC ENGAGEMENT IN FRONTIER SCIENCE THROUGH SCIENCE COMMUNICATION RESEARCH AND DEVELOPMENT: THE PHILIPPINE EXPERIENCE



Symposium:	SP13 - NATURE-BASED SOLUTIONS FOR CLIMATE MITIGATION Session 1: NbS for Climate Mitigation and Driving NbS in Thailand and Internationally		
Room:	204 MHMK BUILDING		
Chairperson:	Prof. Dr. Anchana Prathep Co-Chair: Asst. Prof. Dr. Tassanee Jiaphasuanan Co-Chair: Dr. Milica Stankovic		
Time	ID	Speaker	Title
9:00-9:20	SP13_INV01	Andreas A. Hutahaeen	THE CONCEPT OF NATURE-BASED SOLUTIONS (NbS) AND THEIR IMPLEMENTATION AT THE INTERNATIONAL LEVEL
9:20-9:40	SP13_INV02	Pakkasem Tongchai	THE CONCEPT OF NATURE-BASED SOLUTIONS (NbS) AND THEIR IMPLEMENTATION AT THE REGIONAL LEVEL
9:40-10:00	SP13_INV03	Wongkot Wongsapai	THE IMPLEMENTATION OF NbS IN NATIONAL POLICY
10:00-10:30	-	Anchana Prathep / Tassanee Jiaphasuanan / Milica Stankovic	Q&A
COFFEE BREAK			
Symposium:	SP13 - NATURE-BASED SOLUTIONS FOR CLIMATE MITIGATION Session 2: NbS Technology for Climate Mitigation		
Chairperson:	Prof. Dr. Anchana Prathep Co-Chair: Asst. Prof. Dr. Tassanee Jiaphasuanan Co-Chair: Dr. Milica Stankovic		
Time	ID	Speaker	Title
10:45-11:00	SP13_INV04	Jeark Principe	NbS TECHNOLOGY FOR CLIMATE MITIGATION
11:00-11:15		Nuntikorn Kitratporn	
11:15-11:30		Atthaphon Ariyurit	
11:30-11:45		Sirilak Chumkiew	
11:45-12:00	-	Anchana Prathep / Tassanee Jiaphasuanan / Milica Stankovic	Q&A

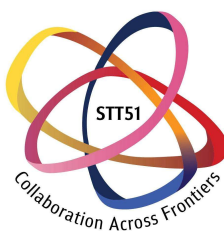


Symposium:	SP15 - EMPOWERING SCIENCE EDUCATORS FOR GLOBAL CHALLENGES (SESSION IN THAI LANGUAGE)		
Room:	307 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Punnama Siriphannon		
Time	ID	Speaker	Title
9:30-9:35	-	Thanuttkhul Mongkolaussavarat (President of The Science Society of Thailand Under the Patronage of His Majesty the King)	OPENING REMARKS
9:35-10:15	SP15_001	Senior Scientist of the Year 2025 Pichai Sonchaeng	KEYNOTE SPEECH: IGNITING MINDS: TRANSFORM CRISIS TO OPPORTUNITY BY SCIENCE AND TECHNOLOGY
SHOWCASE INSPIRING INNOVATION: EMPOWERING STUDENTS THROUGH AWARD-WINNING SCIENCE TEACHING			
10:15-10:45	SP15_002	Outstanding Science Teacher (Primary Level), 2025 - Suwit Sida - Orathai Mungkalad	INSPIRING LITTLE EXPLORERS: SCIENCE BEYOND TEXTBOOK
10:45-11:15	SP15_003	Outstanding Science Teacher (Secondary Level), 2025 - Sakda Chanklan - Wannapa Thuwawit,	FROM LOCAL PROBLEMS TO GLOBAL THINKERS: SCIENCE PROJECTS WITH REAL-WORLD IMPACT
11:15-11:30	SP15_004	Outstanding Science Teacher (Vocational Education Level), 2025 Suwat Netcharoen	HANDS-ON, MINDS-ON: VOCATIONAL INNOVATIONS FOR A SUSTAINABLE FUTURE
11:30-11:45	SP15_005	Outstanding Science Teacher (Higher Education Level), 2025 Chaiwat Lertwiriyanuntakul	FROM LAB TO SOCIETY: NURTURING GRADUATE RESEARCHERS FOR GLOBAL CHANGE
11:45-11:55	-	-	Q&A
11:55-12:00	-	-	CLOSING REMARKS



Session:	STT52 MEETING		
Room:	MULTI-FUNCTIONAL ROOM TAB BLD		
Time	ID	Speaker	Title
9:30-11:30	-	-	STT52 MEETING

Session:	ANNUAL MEETING OF THE SCISOC		
Room:	MULTI-FUNCTIONAL ROOM TAB BLD		
Time	ID	Speaker	Title
12:00-13:30	-	-	ANNUAL MEETING OF THE SCISOC

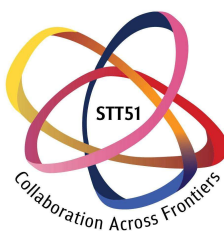


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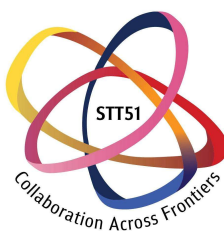
Session:	PLENARY SPEAKER		
Room:	M01 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Sittiporn Pattaradilokrat		
Time	ID	Speaker	Title
13:00-13:45	-	Tanapat Palaga	UNTAPPED POTENTIAL OF TISSUE MICROENVIRONMENT MACROPHAGES IN HEALTH AND CANCER

Session:	PLENARY SPEAKER		
Room:	202 MHMK BUILDING		
Chairperson:	Dr. Chanat Aonbangkhen		
Time	ID	Speaker	Title
13:00-13:45	-	Xiaoguang Lei	OPPORTUNITIES FOR MERGING CHEMICAL AND BIOLOGICAL SYNTHESIS

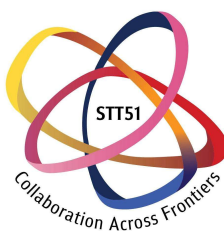
Session:	A – PHYSICS / APPLIED PHYSICS		
Room:	306 MHMK BUILDING		
Chairperson:	Assoc.Prof.Dr..Udomsilp Pinsook Co-Chair: Dr.Warakorn Yanwachirakul		
Time	ID	Speaker	Title
14:00-14:30	A_INV04	Dr. Noppadon Nuntawong	ADVANCING MEDICAL DIAGNOSTICS WITH SERS: FROM SUBSTRATE ENGINEERING TO CLINICAL APPLICATIONS
14:30-14:45	A_008	Punphum Jarunyakorn / Mathus Manedam / Kriangkamon Sawangsri	INVESTIGATION OF VIBRATION EFFECTS ON FRICTION COEFFICIENTS BETWEEN SURFACES: EXPERIMENTAL MEASUREMENT AND ANALYSIS
14:45-15:00	A_009	Pinthudit Klinkajorn	ANALYSIS OF ERROR IN THE PHOTOELECTRIC EXPERIMENT USING A LIGHT FILTER: A CASE STUDY
COFFEE BREAK			



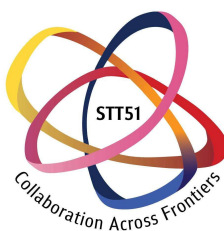
Session:	C - CHEMISTRY C(3): ORGANIC AND MEDICINAL CHEMISTRY, NATURAL PRODUCTS, CHEMICAL BIOLOGY		
Room:	304 MHMK BUILDING		
Chairperson:	Prof. Dr. Vatcharin Rukachaisirikul Co-Chair: Dr. Chanat Aonbangkhen		
Time	ID	Speaker	Title
14:00-14:30	C_INV06	Rungnapha Saeeng	STRUCTURAL MODIFICATION OF NATURAL PRODUCTS TO UNLOCK BIOACTIVITY
14:30-14:45	C_007	Reza Setiawan	α -GLUCOSIDASE INHIBITORS FROM CANNABINOL DERIVATIVES
14:45-15:00	C_008	Muhammad Raffi Zakaria	COMPARISON BETWEEN FRESH AND DRIED <i>Phyllanthus emblica</i> FRUIT EXTRACTS AGAINST BREAST CANCER CELLS
COFFEE BREAK			
15:15-15:45	C_INV07	Tanatorn Khotavivattana	RATIONAL APPROACHES TO DRUG DISCOVERY: TARGETING VIRAL PROTEASE AND CANCER TUBULIN PATHWAYS
15:45-16:00	C_009	Yazdaniyar Halimi	IN SILICO SCREENING OF IN-HOUSE LIBRARY REVEALS XANTHONE DERIVATIVES AS PROMISING INHIBITORS OF WILD-TYPE AND MUTANT EGFR-TKS
16:00-16:15	C_010	Ade Sally	ESTER AND SULFONYL HYDRAZONE DERIVATIVES OF ALOE-EMODIN AS NEW α -GLUCOSIDASE INHIBITORS



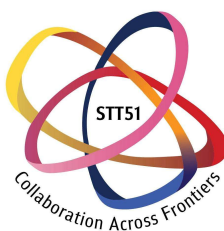
Session:	D - MATHEMATICS / STATISTICS / COMPUTER SCIENCE / DATA SCIENCE / AI		
Room:	201 MHMK BUILDING		
Chairperson:	Asst. Prof. Dr. Jiraphan Suntornchost Co-Chair: Asst. Prof. Dr. Areena Hazanee		
Time	ID	Speaker	Title
14:00-14:30	D_INV03	Varayu Boonpogkrong	THE HENSTOCK–KURZWEIL INTEGRAL: A MODERN PERSPECTIVE AND APPLICATIONS
14:30-14:45	D_006	Siripatana Tikamma	EXISTENCE, UNIQUENESS AND QUENCHING FOR A PARABOLIC EQUATION WITH A CONCENTRATED NONLINEAR SOURCE ON A SEMI-INFINITE INTERVAL UNDER A NEUMANN BOUNDARY CONDITION
14:45-15:00	D_007	Thandar Maung Maung	TOWARD A SUSTAINABLE DATA LAKE: MEASURING AND FORECASTING ENERGY USAGE OF CRUD OPERATIONS
COFFEE BREAK			
Chairperson:	Assoc. Prof. Dr. Athipat Thamrongthanyalak Co-Chair: Assoc. Prof. Dr. Suphakit Phimoltares		
Time	ID	Speaker	Title
15:15-15:45	D_INV04	Dittaya Wanvarie	LLM IN LANGUAGE LEARNING
15:45-16:00	D_008	Jirateep Mahasuweerachai	SideOffNet: ENHANCED MACHINE LEARNING FRAMEWORK BASED ON OFF-TARGET-AWARE NETWORKS FOR PREDICTING DRUG SIDE EFFECTS
16:00-16:15	D_009	Natthanicha Trisirirat	ASSESSMENT OF STUDENTS' ATTENTION WHILE LEARNING USING ARTIFICIAL INTELLIGENCE MODEL
16:15-16:30	D_010	Natnicha Rakbumrung	THE GEOMETRY OF RANDERS CYLINDERS OF REVOLUTION WITH NON-CONSTANT NAVIGATION DATA ALONG MERIDIANS
16:30-16:45	D_011	Chanon Bampeng	A STUDY OF MINIMUM SECURE DOMINATING SETS IN CYCLE AND PATH GRAPH



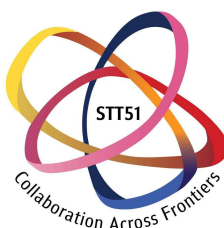
Session:	E: ENERGY / ENVIRONMENTAL & EARTH SCIENCE / MATERIALS SCIENCE / CHEMICAL TECHNOLOGY		
Room:	202 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Pakorn Opaprakasit Co-Chair: Assoc. Prof. Dr. Chanatip Samart		
Time	ID	Speaker	Title
14:00-14:30	E_INV04	Ning Yan	FUTURE FUELS: FROM BIOMASS TO HYDROGEN
14:30-14:45	E_025	Pimpet Sratong-on	SPENT COFFEE GROUND/RICE HUSK AND RECYCLED PAPER-BASED MYCELIUM BIOCOMPOSITES FOR SUSTAINABLE ROAD GUIDEPOSTS
14:45-15:00	E_026	Pheeranat Leangthanarernx	DEVELOPMENT OF A MULTILAYERED ALUMINA-SiC CERAMIC COMPOSITE FOR ENHANCED IMPACT RESISTANCE IN ARMOR APPLICATIONS
COFFEE BREAK			
15:15-15:30	E_027	Chananchida Sukchaiya / Miyuki Sato	MULTIFUNCTIONAL NANOCAPSULE- INTEGRATED POLYESTER AND MICRO- POLYESTER TEXTILES ENHANCED WITH CHITOSAN AND SILVER PARTICLES FOR ANTIBACTERIAL ACTIVITY AND SUSTAINED FRAGRANCE RELEASE
15:30-15:45	E_028	Thanyathorn Lohabunditwong	BIOCOMPOSITE FROM DURIAN RIND AND ORANGE PEEL AS A NATURAL POLYMER MATRIX FOR ADVANCED WOUND DRESSING
15:45-16:00	E_029	Thanakorn Teekasung	ZINC GLYCEROLATE SYNTHESIZED VIA MICROWAVE AND METHANOL-ASSISTED REFLUX METHODS: COMPARATIVE CHARACTERIZATION AND THERMAL STABILIZATION IN PVC
16:00-16:15	E_030	Pawarisa Ngamroj / Natthakit Phophuttharaksa	MODULATION OF ANTIMICROBIAL EFFECT ON VANADIUM-PROMOTED CASSAVA/CHITOSAN BIOPOLYMER FILMS USING WHITE-LIGHT IRRADIATION
16:15-16:30	E_031	Methakriat Sirival	MICROENCAPSULATION OF <i>Zingiber cassumunar</i> ROXB. ESSENTIAL OIL USING POLY-L-LACTIC ACID FOR ENHANCED STABILITY
16:30-16:45	E_032	Shehbaz Ameer	CONTROLLED RELEASE OF HOLY BASIL ESSENTIAL OIL NANOEMULSION ENCAPSULATED IN GELATIN/CARBOXYMETHYL CELLULOSE HYDROGEL FOR WOUND CARE
16:45-17:00	E_033	Le Hanh Trang Ho	TRIPLE-SHAPE MEMORY POLYMER: INTERPENETRATING POLYMER NETWORKS FROM BIO-BASED EPOXY AND BENZOXAZINE



Session:	F: FOOD SCIENCE AND TECHNOLOGY/AGRICULTURAL SCIENCE		
Room:	308 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Siwaret Arikrit		
Time	ID	Speaker	Title
14:00-14:30	F_INV01	Rui Xia	TBTOOLS: AN INTEGRATED AND MULTIFUNCTIONAL BIOINFORMATICS TOOLKIT FOR THE BIG DATA ERA
14:30-14:45	F_INV02	Poonpipope Kasemsap	FROM QUANTUM AND SATELLITE TO CARBON FARMING: MAKING NET ZERO MISSION POSSIBLE
14:45-15:00	F_001	Moe Moe Kyi Win	QTL-SEQ IDENTIFIES KEY GENES IMPORTANT FOR BACTERIAL LEAF STREAK (<i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>) RESISTANCE IN RICE
COFFEE BREAK			
15:15-15:30	F_002	Natawat Jantong	ENHANCING CULTIVATION EFFICIENCY AND NUTRITIONAL VALUE OF SUNFLOWER SPROUTS USING ULTRASONIC WAVES AND SUCROSE FOR FUTURE FOOD PRODUCTION
15:30-15:45	F_003	Suparad Klinsawang	IDENTIFICATION OF ROOT RESPONSIVE GENES UNDERLYING PENETRATION ABILITY IN COMPACTED SOIL USING QTL-SEQ IN RICE (<i>Oryza sativa</i> L.)
15:45-16:00	F_004	Papapin Prasertsil	TARGETED AROMA VOLATILE COMPOUNDS ASSOCIATED WITH CONSUMER PREFERENCES IN CHILLI
16:00-16:15	F_005	Watchara Phetluan	IDENTIFICATION OF GENETIC LOCI ASSOCIATED WITH STOMATAL DENSITY IN RICE (<i>Oryza sativa</i> L.) THROUGH GENOME-WIDE ASSOCIATION STUDIES
16:15-16:30	F_006	Piyamongkol Mangkalasane	GENOME-WIDE ASSOCIATION STUDY (GWAS) REVEALS ENDOSPERM-SPECIFIC GENES (OsEnS) AND Wx GENE REGULATING SEED STORAGE PROTEIN (SSP) IN RICE GRAIN (<i>Oryza sativa</i> L.)

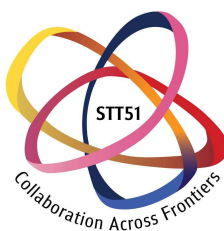


Session:	F: FOOD SCIENCE AND TECHNOLOGY/AGRICULTURAL SCIENCE		
Room:	301 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
14:00-14:30	F_INV03	Hisayuki Uneyama	KOKU AND UMAMI: ASIAN TASTE INNOVATIONS FOR HEALTH AND PLANETARY WELL-BEING
14:30-14:45	F_INV04	Nathdanai Harnkarnsujarit	MODERN FOOD TECHNOLOGY FOR SUSTAINABILITY AND GLOBAL COMPETITIVENESS
14:45-15:00	F_007	Panitta Boonsrirat	BIOCONVERSION OF MEALWORM (<i>Tenebrio molitor</i>) FRASS BY BLACK SOLDIER FLY LARVAE (<i>Hermetia illucens</i>) SIGNIFICANTLY IMPROVED QUANTITY AND QUALITY OF AQUAFEED PROTEIN
COFFEE BREAK			
15:15-15:30	F_008	Apichaya Feepakpro	EFFECT OF ALKALIZATION PROCESS ON COCOA NIBS AND POWDER QUALITIES
15:30-15:45	F_009	Endy Triyannanto	THE EFFECT OF X-RAY RADIATION DOSE ON THE QUALITY AND SHELF LIFE OF BEEF MEATBALLS STORED AT REFRIGERATION TEMPERATURE
15:45-16:00	F_010	Piyaorn Likhitrattanakon	UV-C TECHNOLOGY FOR MICROBIAL CONTROL AND QUALITY RETENTION IN 'PATTAVIA' PINEAPPLE JUICE
16:00-16:15	F_011	Thanakorn Wongprasert	SCREENING OF AROMA CHANGES BY ROASTING PROCESS IN THAI FORASTERO HYBRID STRAIN CACAO NIBS (<i>Theobroma Cacao</i>)
16:15-16:30	F_012	Aung Myint Myat	DEVELOPMENT OF PROTEIN- AND FIBER-ENRICHED GLUTEN-FREE PASTA INCORPORATING WITH DEFATTED RICE BRAN AND LUPIN FLOUR

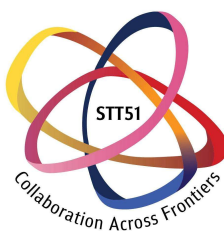


Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	207 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
13:30-14:00	SP1_PLS03	Wang Peng	AI/GENERATIVE AI IN CHINA
NETWORKING BREAK / PREPARE FOR BREAKOUT ROOM			
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - ARTIFICIAL INTELLIGENCE, LARGE LANGUAGE MODEL AND GENERATIVE AI > NEXT STEP OF GENERATIVE AI AND LLMS		
Room:	207 MHMK BUILDING		
Chairperson:	Dr. Thepchai Supniti		
Time	ID	Speaker	Title
14:00-15:00	SP1_INV26	Chengqing Zong	RESEARCH ON LARGE LANGUAGE MODELS AND BEYOND
	SP1_INV27	Yang Feng	CHINA'S PROGRESS IN LARGE LANGUAGE MODELS
	SP1_INV28	Chai Wutiwiwatchai	THAILAND LOCAL LARGE LANGUAGE MODEL: THE ThaiLLM
	SP1_INV29	Thatpong Pongthawornkamol	BUSINESS TRANSFORMATION THROUGH AGENTIC AI
COFFEE BREAK			

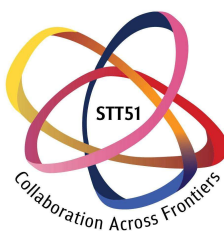
Symposium:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE		
Room:	205 MHMK BUILDING		
Chairperson:			
Time	ID	Speaker	Title
13:00-13:00	-	-	-
Session:	SP1 - CONFERENCE ON THAILAND - CHINA SCIENCE AND TECHNOLOGY COLLABORATIONS UNDER HER ROYAL HIGHNESS'S INITIATIVE - POLAR RESEARCH > SYNERGY IN POLAR RESEARCH: BRIDGING THAILAND AND CHINA FOR SUSTAINABLE SOLUTIONS		
Room:	208 MHMK BUILDING		
Chairperson:	Prof. Dr. Voranop Viyakarn		
Time	ID	Speaker	Title
14:00-15:00	SP1_INV30	Xueyuan Tang	CHINA'S AIRBORNE GEOPHYSICAL SURVEY IN EAST ANTARCTICA
	SP1_INV31	Jiang Peng	CHINA'S POLAR VISION: A JOURNEY OF DISCOVERY AND GLOBAL RESPONSIBILITY
	SP1_INV32	Suchana Chavanich	THAILAND AND POLAR RESEARCH: A DIALOGUE ON HISTORY, COLLABORATION, AND THE FUTURE
COFFEE BREAK			



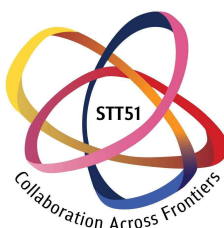
Symposium:	SP3 - NEXGEN ENERGY: STORAGE AND CONVERSION FOR SUSTAINABILITY		
Room:	203 MHMK BUILDING		
Chairperson:	Asst. Prof. Dr. Jitti Kasemchainan Co-Chair: Dr. Pinit Kidkhuntod		
Time	ID	Speaker	Title
14:00-14:25	SP3_INV10	Liping Wang	PYRITES CATHODES AS HIGH ENERGY DENSITY LITHIUM METAL BATTERY
14:25-14:50	SP3_INV11	Pimpa Limthongkul	DEVELOPMENT OF NEXT GENERATION ENERGY STORAGE TOWARDS SUSTAINABLE, HIGH ENERGY AND SAFE BATTERY SYSTEM
COFFEE BREAK			
15:05-15:30	SP3_INV12	Athaweena Krittayavathananon	CONCEPTUAL DESIGN OF A SOLID-STATE ELECTROLYTE FOR ENHANCED SAFETY IN LITHIUM-BASED BATTERIES
15:30-15:55	SP3_INV13	Fuda Yu	SUPERSTRUCTURE DESIGN FOR OXYGEN REDOX IN Li-RICH CATHODES
15:55-16:20	SP3_005	Guangmin Zhou	REPAIRING AND UPCYCLING OF ELECTRODE MATERIALS FROM SPENT LITHIUM ION BATTERIES
16:20-16:45	SP3_006	Pei-Chen Su	SURFACE MODIFICATION OF SOLID OXIDE FUEL CELL ELECTRODES FOR PERFORMANCE AND STABILITY
16:45-17:00	SP3_007	Pakawan Sereerattanakorn	A DUAL-FUNCTION LITHIUM BORATE GLASS CERAMICS-COPOLYMER COMPOSITE INTERLAYER FOR LITHIUM-SULFUR BATTERIES



Symposium:	SP4 - BIOREFINERY		
Room:	M01 MHMK BUILDING		
Chairperson:	Prof. Dr. Chawalit Ngamcharussrivichai		
Time	ID	Speaker	Title
14:00-14:05	-	-	OPENING SPEECH
14:05-15:05	-	Representatives from government agencies, the private sector/industry, and universities	THE PANEL DISCUSSION > BIOREFINERY INNOVATION FOR THAILAND'S BIOECONOMY: FROM AGRICULTURAL WASTE TO HIGH-VALUE CHEMICALS FOR SUSTAINABLE DEVELOPMENT
15:10-15:30	SP4_INV01	Duangamol Tungasmita	VALORIZATION OF AGRICULTURAL RESIDUES INTO BIO-BASED CHEMICALS THROUGH GREEN CATALYTIC TRANSFORMATION
15:30-15:50	SP4_INV02	Nuttapat Thiensuwan	DESIGNING ADVANCED CATALYSTS FOR A MULTI-FEEDSTOCK BIOREFINERY: CONVERTING BIOMASS AND BIO-DERIVED FEEDSTOCKS INTO BIOCHEMICALS
15:50-16:10	SP4_INV03	Warodom Hunsiri	FACILE AND COST-EFFECTIVE Ni-BASED CATALYSTS FOR HYDROCONVERSION OF PALM OIL DERIVATIVES TO BIO-JET FUELS
16:10-16:30	SP4_INV04	Lalita Attanatho	TRANSFORMING AGRICULTURAL FEEDSTOCKS INTO BIOFUELS AND BIOCHEMICALS THROUGH CHEMICAL PATHWAY IN THE BIOREFINERY FRAMEWORK
16:30-16:40	-	-	SYMPOSIUM SUMMARY AND CONCLUDING REMARK
COFFEE BREAK			



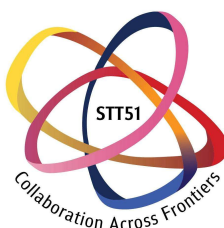
Symposium:	SP8 - CULTURAL HERITAGE: TRADITIONAL/DIGITAL COLOR		
Room:	M02 MHMK BUILDING		
Chairperson:	Prof. Dr. Shigeki Nakauchi		
Time	ID	Speaker	Title
13:10-14:00	SP8_INV01	Shigeki Nakauchi	UNIVERSALITY AND DIVERSITY IN COLOR PREFERENCE FOR ART PAINTINGS
14:00-14:15	SP8_001	Nattawan Worawannotai	X-RAY FLUORESCENCE ANALYSIS OF PIGMENTS IN THE MURAL PAINTINGS AT WAT DON KRABUEANG, RATCHABURI, THAILAND
14:15-14:30	SP8_002	Atikarn Kraichok	SAFE REMOVAL OF AGED POLYVINYL ACETATE ADHESIVES FROM CANVAS USING NANOCELLULOSE AEROGEL: PRESERVING ORIGINAL COLOR OF ARTWORKS
14:30-15:00	-	-	WORKSHOP: SP8: COLOUR IN CULTURAL HERITAGE: BRIDGING TRADITION AND INNOVATION THE SMILE OF THE CENTURY: SCIENCE BEHIND THE MONA LISA. DISCOVER THE HIDDEN SECRETS OF A WORLD-RENOWNED MASTERPIECE THROUGH THE LENS OF BOTH SCIENCE AND ART.
COFFEE BREAK			
15:15-17:00	-	-	WORKSHOP: SP8: COLOUR IN CULTURAL HERITAGE: BRIDGING TRADITION AND INNOVATION THE SMILE OF THE CENTURY: SCIENCE BEHIND THE MONA LISA. DISCOVER THE HIDDEN SECRETS OF A WORLD-RENOWNED MASTERPIECE THROUGH THE LENS OF BOTH SCIENCE AND ART.



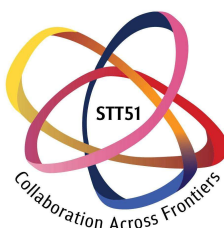
Symposium:	SP9 - EXPLORING THE COSMOS: ADVANCES IN OBSERVATIONAL AND THEORETICAL ASTROPHYSICS		
Room:	305 MHMK BUILDING		
Chairperson:	Dr. Krittapas Chanchaiworawit		
Time	ID	Speaker	Title
14:00-14:30	SP9_INV04	Waraporn Nuntiyakul	THAI-CHINESE COLLABORATION ON COSMIC RAY SURVEYS AND DEEP-SEA NEUTRINO TELESCOPES
14:30-15:00	SP9_INV05	Teeraparb Chantavat	THE EXTREME OBJECTS AT HIGH REDSHIFTS
COFFEE BREAK			

Symposium:	SP10 - X-RAY CRYSTALLOGRAPHY		
Room:	206 MHMK BUILDING		
Chairperson:	Prof. Dr. Kuakarun Kruson Co-Chair: Assoc. Prof. Dr. Kittipong Chainok Co-Chair: Asst. Prof. Dr. Nanthawat Wannarit		
Time	ID	Speaker	Title
14:00-15:00	SP10_INV05	Santi Pailoplee / Kittikhun Wangkanont / Puey Ounjai	TALKS ABOUT CRYSTALLOGRAPHY I
COFFEE BREAK			
15:15-16:15	SP10_INV05	Santi Pailoplee / Kittikhun Wangkanont / Puey Ounjai	TALKS ABOUT CRYSTALLOGRAPHY II

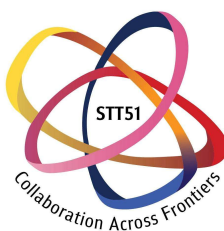
Symposium:	SP11 - RADIOECOLOGY AND ENVIRONMENTAL RADIOACTIVITY		
Room:	DEPARTMENT OF NUCLEAR ENGINEERING, FACULTY OF ENGINEERING, CHULALONGKORN UNIVERSITY		
Chairperson:	Dr. Yutthana Tumnoi Co-Chair: Dr. Wipada Ngansom		
Time	ID	Speaker	Title
14:00-14:30	SP9_INV04	Dumrongsak Rodphothong	COMPUTATIONAL FLUID DYNAMICS INVESTIGATION OF INDOOR RADON DISTRIBUTION AT HAT YAI HOT SPRING SPA IN RANONG PROVINCE, THAILAND
14:30-15:00	SP9_INV05	Saroh Niyomdech	INVESTIGATION OF RADON CONCENTRATION (Rn-222) IN GEOTHERMAL SPRINGS, THE SOUTHERN PART OF THAILAND
COFFEE BREAK			



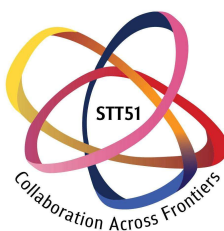
Symposium:	SP12 - THE 2ND INTERNATIONAL SYMPOSIUM OF SCIENCE COMMUNICATION AND PUBLIC SCIENCE LITERACY		
Room:	302 MHMK BUILDING		
Chairperson:	Dr. Ganigar Chen		
Time	ID	Speaker	Title
13:00-14:45 (Sharing Session 1: <i>Bridging the Frontiers: Innovative Tools for Science Communication</i>)	SP12_001	Natdanai Nirutmeteeikul	A PROACTIVE APPROACH TO MISINFORMATION: LEVERAGING QFT TO CULTIVATE CRITICAL ANALYSIS AND EVALUATION SKILLS FOR THE AI ERA
	SP12_002	Wan Wiriya	EMPOWERING NORTHERN YOUTH FOR ACTION ON THE SMOKE HAZE CRISIS THROUGH A HANDS-ON SCIENCE COMMUNICATION MODEL
	SP12_003	Kanchanaphan Poonudom	WHERE SCIENCE MEETS ART: TRANSFORMING MEDICAL EDUCATION THROUGH CREATIVE MEDIA DESIGN
	SP12_004	Namkang Sriwattananrotha	BEYOND THE TEXTBOOK: DESIGNING FOR CURIOSITY AND DISCOVERY IN STEM
	SP12_005	Nutthapol Orpipath	WHAT INSPIRES ME TO DEVELOP BOARD GAMES AS LEARNING TOOLS
14.45 – 16.15 (Sharing Session 2: <i>From Research to Relevance: Connecting Science with Society</i>)	SP12_006	Kitipong Soontrapa	A JAPANESE HEALTH TV PROGRAM: EFFECTIVE COMMUNICATION OF MEDICAL SCIENCE FOR PROMOTING PUBLIC HEALTH
	SP12_007	Unchalisa Taetragool	TRAVEL LINK: CONNECTING DATA, DECISIONS, AND UNDERSTANDING
	SP12_008	Sarayut Tunmee	ENHANCING PUBLIC UNDERSTANDING OF SYNCHROTRON TECHNOLOGY THROUGH TARGETED SCIENCE COMMUNICATION
	SP12_009	Sukhum Ruangchai	BRIDGING MINDS, SHARING SCIENCE: THE THAI-TAIWAN EXCHANGE STORY
16:15-17:00 (5-minute Poster Sharing)	SP12_001_P	Kuan-Chun Wang	EFFECTIVENESS OF THAILAND SCIENCE CARAVAN: A CASE STUDY OF NST FAIR 2025 IN CHIANG MAI
	SP12_002_P	Pimonrat Tiansawat	SEED BANKING INITIATIVES IN NORTHERN THAILAND
	SP12_003_P	Pranee Disrattakit	INNOVATIVE STEM CHALLENGE ACTIVITY THROUGH BIOMIMICRY-INSPIRED ENGINEERING: A STRATEGY FOR ENHANCING SCIENTIFIC COMPETENCIES IN SECONDARY STUDENTS FOR SUSTAINABLE COMMUNITY
	SP12_004_P	Siraya Janasak	HERBAL INNOVATION AND MULTI-STAKEHOLDER INTEGRATION FOR SUSTAINABLE AREA-BASED DEVELOPMENT: POLICY RECOMMENDATIONS FROM THE MAEMOK HERBAL VALUE CHAIN, LAMPANG PROVINCE



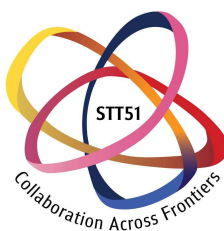
Symposium:	SP13 - NATURE-BASED SOLUTIONS FOR CLIMATE MITIGATION Session 3: High Performance Researchers in Carbon Verifiers Through Nature Based Solution for Carbon Net Zero		
Room:	204 MHMK BUILDING		
Chairperson:	Prof. Dr. Anchana Prathep Co-Chair: Asst. Prof. Dr. Tassanee Jiaphasuanan Co-Chair: Dr. Milica Stankovic		
Time	ID	Speaker	Title
13:00-13:10	-	Anchana Prathep	INTRODUCTION FOR NbS PROJECT
13:10-13:25	SP13_INV05	Prateep Duengkae	NbS PROJECT IMPLEMENTATION IN FOREST ECOSYSTEM
13:25-13:40	SP13_INV06	Pannawee Mekwichai	NbS PROJECT IMPLEMENTATION IN FRESHWATER ECOSYSTEM
13:40-13:55	SP13_INV07	Vanyarat Kongsap	NbS PROJECT IMPLEMENTATION IN MARINE AND COASTAL ECOSYSTEM
13:55-14:10	-	Anchana Prathep / Tassanee Jiaphasuanan / Milica Stankovic	Q&A
COFFEE BREAK			
Symposium:	SP13 - NATURE-BASED SOLUTIONS FOR CLIMATE MITIGATION Session 4: Brain Power Driving NbS in Thailand		
Chairperson:	Prof. Dr. Anchana Prathep Co-Chair: Dr. Milica Stankovic Co-Chair: Khun Kanyanat Kaewutai		
Time	ID	Speaker	Title
14:30-14:42	SP13_001	Chanunchida Polpakdee	SPATIO-TEMPORAL TRENDS IN SEAGRASS DISTRIBUTION AND ABUNDANCE AND THE ROLE OF ENVIRONMENTAL FORCING
14:45-14:57	SP13_002	Grissanee Suwanpahu	ASSESSMENT OF THE CARBON SEQUESTRATION CAPACITY OF MANGROVE FOREST PLANTATION: CASE STUDY OF RAYONG, PROVINCE, THAILAND
15:00-15:12	SP13_003	Kanokorn Sae-Ueng	EXPLORATION OF CARBON SEQUESTRATION POTENTIAL IN DURIAN ORCHARDS WITH VARIOUS MANAGEMENT PRACTICES IN SURAT THANI
15:15-15:27	SP13_004	Kanyakorn Keawwilai	QUANTIFYING THE CARBON STOCK OF FOREST ECOSYSTEMS WITH SATELLITE IMAGERY AND GEOSPATIAL AI
15:30-15:42	SP13_005	Nattarika Intarapradit	PHYTOLITH-OCCLUDED CARBON ACCUMULATION ACROSS DIVERSE BAMBOO SPECIES IN THAI FOREST ECOSYSTEMS
15:45-15:57	SP13_006	Nattawut Sareein	ASSESSMENT OF CARBON STORAGE IN WETLANDS OF CHIANG RAI, THAILAND
16:00-16:12	SP13_007	Pipat Yodpinij	OPTIMIZING BIOCHAR APPLICATION RATES IN AGRICULTURAL SOIL THROUGH ANALYSIS OF NH ₄ ⁺ AND NO ₃ -SORPTION-DESORPTION DYNAMICS



Symposium:	SP16-YOUNG RISING STARS OF SCIENCE 2025 (YRSS) & JUNIOR YOUNG RISING STARS OF SCIENCE AWARD 2025 (JYRSS)		
Room:	309 MHMK BUILDING		
Chairperson:	Chair: Assoc. Prof. Dr. Kitipong Assatarakul Co-Chair: Assoc. Prof. Dr. Athipat Thamrongthanyalak Co-Chair: Asst. Prof. Dr. Pumidech Puthongkham		
Time	ID	Speaker	Title
13:00-14:00	-	-	COMMITTEE MEETING



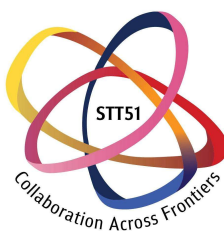
Symposium:	SP17- SCIENCE POPULARIZATION FOR SUSTAINABLE COMMUNITY DEVELOPMENT		
Room:	208 MHMK BUILDING		
Chairperson:	Assoc. Prof. Dr. Songsak Srianujata Co-Chair: Dr. Sarawut Siriwong Co-Chairs: Ms. Monthida Sitathani		
Time	ID	Speaker	Title
14:00-14:05	-	Songsak Srianujata	Introduction
14:05-14:15	SP17_INV01	Hu Junping	CHINA'S ACTION TO ENHANCE CIVIC SCIENTIFIC LITERACY: POLICY ENVIRONMENT, PRACTICES, AND ASSESSMENT
14:15-14:25	SP17_INV02	Li Xiuju	A NATIONAL SURVEY ON THE SCIENTIFIC LITERACY OF PRIMARY AND SECONDARY SCHOOL STUDENTS IN CHINA: FRAMEWORK, FINDINGS, AND IMPLICATIONS
14:25-14:35	SP17_INV03	Sarawut Siriwong	CHANGE AGENTS AS CATALYSTS FOR COMMUNITY-BASED OYSTER PRODUCTION ENTERPRISE: A CASE STUDY IN TRAT PROVINCE
14:35-14:45	SP17_INV04	Korakot Aromdee	CHANGE AGENTS AS CATALYSTS FOR COMMUNITY-BASED BAMBOO UTILIZATION: A CASE STUDY IN KORAKOT BAMBOO HANDICRAFTS
14:45-14:55	SP17_INV05	Taweechai Amornsakchai	TRANSFORMING PINEAPPLE FIELD WASTE INTO CLIMATE-POSITIVE MATERIALS: A VISION FOR COMMUNITY-BASED SCIENCE POPULARIZATION
14:55-15:05	SP17_INV06	Winai Kaewlamun	DEVELOPING A SUSTAINABLE GOAT AND SHEEP FARMING NETWORK WITH CIRCULAR ECONOMY FOR NEW LIVESTOCK INDUSTRIES
15:05-15:15	SP17_INV07	Niti Mekmok	THE INTEGRATION OF DIGITAL TECHNOLOGY TO ASSIST FARMERS IN IRRIGATED ZONES, AIMING TO ENHANCE PRODUCTIVITY AND ENSURE SUSTAINABLE AGRICULTURAL OUTCOMES
COFFEE BREAK			
15:15-15:25	SP17_INV08	Siraya Janasak	HERBAL INNOVATION AND MULTI-STAKEHOLDER INTEGRATION FOR SUSTAINABLE AREA-BASED DEVELOPMENT: POLICY RECOMMENDATIONS FROM THE MAEMOK HERBAL VALUE CHAIN, LAMPANG PROVINCE
15:25-15:35	SP17_INV09	Suneerat Fukuda	FROM CAMPUS TO COMMUNITY: ADVANCING LOW-CARBON FUTURES THROUGH UNIVERSITY-LED CLIMATE ACTION



15:35-15:45	SP17_INV10	Kittisak Ajariyakhajorn	ADVANCING AGRICULTURAL INNOVATION AND DAIRY SUSTAINABILITY IN THAILAND: A STRATEGIC MODEL FROM AIC CHULA-SARABURI
15:45-15:55	SP17_INV11	Jaroon Duangkrayom	GEO-EDUCATIONAL PROMOTING ACTIVITIES AND IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT IN KHORAT UNESCO GLOBAL GEOPARK, THAILAND
15:55-17:00	-	Songsak Srianujata Sarawut Siriwong Monthida Sitathani	OPEN DIALOGUE

Session:	POSTER PRESENTATION – SYMPOSIUM		
Room:	SALA PHRA KIEO		
Time	ID	Speaker	Title
14:00-17:00	-	-	POSTER PRESENTATION (YRSS / JYRSS’S COMMITTEE)
15:00-18:00	-	-	POSTER PRESENTATION (SYMPOSIUM’S COMMITTEE)

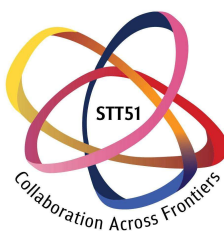
Session:	STT51 CONGRESS BANQUET		
Room:	SALA PHRA KIEO		
Time	ID	Speaker	Title
18:00-21:00	-	-	BANQUET



NOVEMBER 13rd, 2025

MORNING PROGRAM

Symposium:	SP5 - GENOME EDITING AND SYNTHETIC BIOLOGY		
Room:	203 MHMK BUILDING		
Chairperson:	Prof. Dr. Supaart Sirikantaramas Co-Chair: Prof. Dr. Teerapong Buaboocha Co-Chair: Assoc. Prof. Dr. Natapol Pornputtpong Co-Chair: Dr. Chayasith Uttamapinant		
Time	ID	Speaker	Title
9:00-9:30	SP5_INV01	Alisa Tubsuwan	GENE EDITING: FROM MOLECULAR SCISSORS TO THERAPEUTIC APPROACHES
9:30-10:00	SP5_INV02	Hikaru Seki	METABOLIC ENGINEERING OF HIGH-VALUE TRITERPENOID BIOSYNTHESIS IN PLANTS USING GENOME EDITING
10:00-10:30	SP5_INV03	Supachitra Chadchawan	EFFECTS OF OsGTL1 GENE EDITING IN RICE
COFFEE BREAK			
10:45-11:15	SP5_INV04	Tom Ellis	ENGINEERING UNICELLULAR YEAST TO ACHIEVE MODULAR MULTICELLULARITY
11:15-11:45	SP5_INV05	Bunpote Siridechadilok	MAPPING THE INTERACTIONS BETWEEN VITELLOGENIN AND ITS RECEPTOR FOR DEVELOPMENT OF OOCYTE-TARGETING PROTEIN DELIVERY IN SHRIMPS



Symposium:	SP16-YOUNG RISING STARS OF SCIENCE 2025 (YRSS) & JUNIOR YOUNG RISING STARS OF SCIENCE AWARD 2025 (JYRSS) – PITCHING PRESENTATION – YRSS		
Room 1:	Chem > 204 MHMK BUILDING		
Room 2:	Mat > 205 MHMK BUILDING		
Room 3:	Phy > 206 MHMK BUILDING		
Room 4:	Bio > 207 MHMK BUILDING		
Room 5:	Math > 304 MHMK BUILDING		
Room 6:	Com > 305 MHMK BUILDING		
Room 7:	Food > 306 MHMK BUILDING		
Room 8:	Env > 307 MHMK BUILDING		
Time	ID	Speaker	Title
9:00-10:30	-	-	PITCHING PRESENTATION – YRSS
COFFEE BREAK			

Session:	AWARDING CEREMONY – BEST ORAL & POSTER PRESENTATIONS – YRSS / JYRSS AWARDING SESSION		
Room:	SALA PHRA KIEO		
Time	ID	Speaker	Title
10:00-10:30	-	-	JYRSS AWARDING SESSION
10:30-11.00	-	-	AWARDING CEREMONY – BEST ORAL & POSTER PRESENTATIONS
11:00-12:00	-	-	YRSS AWARDING SESSION