



คณะวิศวกรรมศาสตร์
มหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย
เลขรับ 4427
วันที่ 18-07-2566
เวลา 13.29 น.

บันทึกข้อความ

ส่วนราชการ งานวิเทศสัมพันธ์ สำนักงานอธิการบดี โทรศัพท์ ๐-๗๔๓๑-๗๑๔๒, ๐-๗๔๓๑-๗๑๔๑
ที่ อว.๐๖๕๕.๐๑/๑๒๑๙ วันที่ ๑๘ กรกฎาคม ๒๕๖๖
เรื่อง ขอความร่วมมือในการประชาสัมพันธ์ WU online newsletter

เรียน หัวหน้าหน่วยงานในสังกัดมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย

ด้วยมหาวิทยาลัยวลัยลักษณ์ ได้ส่งหนังสือประชาสัมพันธ์ WU online newsletter ประจำเดือน มิถุนายน ในหัวข้อเรื่อง “WU International Connect” โดยนำเสนอในเรื่องการสอน การวิจัย แนวนิยม ระหว่างประเทศ และความร่วมมือทางอุตสาหกรรม นั้น

ในการนี้ งานวิเทศสัมพันธ์จึงขอความอนุเคราะห์หน่วยงานของท่านประชาสัมพันธ์ ให้แก่ผู้ที่เกี่ยวข้องทราบโดยทั่วกัน โดยสามารถดูรายละเอียดเพิ่มเติมได้ที่ <http://online.anyflip.com/wvpqb/ezmd> หรือตามเอกสาร đínhแนบ

จึงเรียนมาเพื่อโปรดพิจารณา

(นายสถาพร ขุนเพชร)

รักษาราชการแทน

ผู้อำนวยการสำนักงานอธิการบดี

เรียน คณบดี

-เพื่อโปรดพิจารณา

สำนักงานอธิการบดี ขอความร่วมมือในการ

ประชาสัมพันธ์ WU online newsletter

-เห็นควรมอบงานวิเทศสัมพันธ์ดำเนินการ

ประชาสัมพันธ์

20/7/2566
20 ก.ค. 66
20 ก.ค. 66

อนุญาต และมอบตั้งเสนอ

20 ก.ค. 66

สำเนารวม

- เรียน คณบดีคณะวิศวกรรมศาสตร์
- เรียน คณบดีคณะศิลปศาสตร์
- เรียน คณบดีคณะสถาปัตยกรรมศาสตร์
- เรียน คณบดีคณะบริหารธุรกิจ
- เรียน คณบดีคณะครุศาสตร์อุตสาหกรรมและเทคโนโลยี
- เรียน คณบดีคณะเกษตรศาสตร์
- เรียน คณบดีคณะอุตสาหกรรมเกษตร
- เรียน คณบดีคณะสัตวแพทยศาสตร์
- เรียน คณบดีคณะวิทยาศาสตร์และเทคโนโลยี
- เรียน คณบดีคณะเทคโนโลยีการจัดการ
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- เรียน ผู้อำนวยการวิทยาลัยการโรงแรมและการท่องเที่ยว



มหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย
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June 2023 Newsletter: WU International Connect

1 ข้อความ

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สอ.(วิชาการ) 1454
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30 มิถุนายน 2566 เวลา 14:16

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Dear Colleagues and Friends,

Greetings from Walailak University (WU), Thailand!

We are pleased to share with our honorable international colleagues WU monthly online newsletters, entitled “WU International Connect,” showcasing highlights in the following 5 domains: current publication, teaching, research, international outlook, and industrial collaboration. With this email, please find our June issue in the link <http://online.anyflip.com/wvpqb/ezmd>

We would greatly appreciate it if you could share the link to your colleagues and partner universities. We would also be happy to support your international outlook. Please kindly share great stories on your end to us via this email (interaffairs.wu@gmail.com) and we will post them on “WU International Connect.”

We send you our warm regards, best wishes for your great health and well-being and until next month.

Sincerely yours,

เรียน อธิการบดี มทร.ศรีวิชัย


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มหาวิทยาลัยวลัยลักษณ์ประชาสัมพันธ์ WU monthly online newsletter ประจำเดือน มิถุนายน ในหัวข้อเรื่อง "WU International Connect" โดยนำเสนอในเรื่องการสอน การวิจัย แนวนโยบายระหว่างประเทศ และความร่วมมือ ทั้งนี้สามารถอ่านรายละเอียดเพิ่มเติมได้ที่ <http://online.anyflip.com/wvpqb/ezmd>

จึงเรียนมาเพื่อโปรดพิจารณาของานวิเทศสัมพันธ์ ประชาสัมพันธ์ไปยังคณะ/วิทยาลัย

จึงเรียนมาเพื่อโปรดพิจารณาของานวิเทศสัมพันธ์ ประชาสัมพันธ์ไปยังคณะ/วิทยาลัย ดังเสนอ

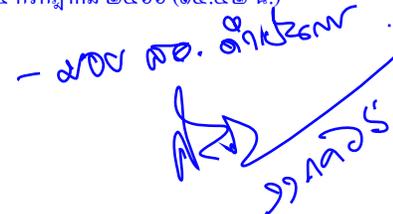
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เรียน อธิการบดี เพื่อโปรดพิจารณา


 6 ก.ค.66

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WU

INTERNATIONAL CONNECT

June 2023



WU

INTERNATIONAL CONNECT



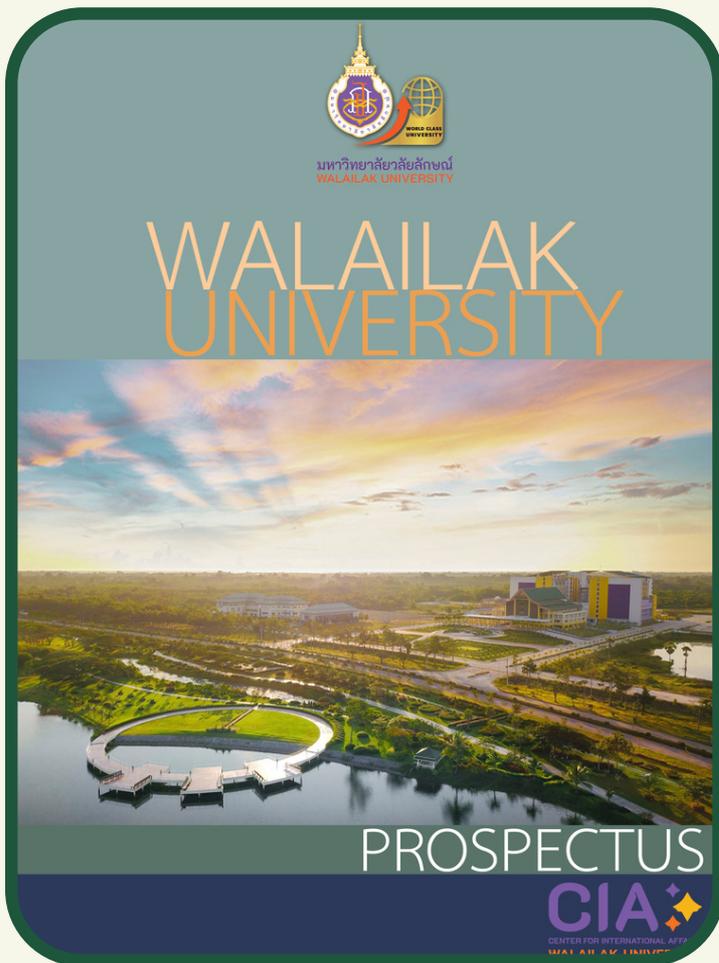
Walailak University offers international students' brightest future with world-class facilities

Welcome all international students to Walailak University (WU), ranked 1501+ among world-class institutes and 11th in Thailand by the Times Higher Education World University Rankings 2023 and awarded the best green university by the UI GreenMetric World University Rankings for 3 consecutive years since 2020, in the beautiful upper south of Thailand. As an essential key to one's brightest future, quality education needs determined learners, professional lecturers, and well-equipped infrastructure. WU's achieved world university rankings have proved her determination to assure all dimensions of academic excellence.

Walailak University offers to her valuable students world-class teaching professionals with the United Kingdom Professional Standards Framework certificates (UKPSF) issued by Advanced Higher Education, the best well-equipped smart classrooms in Thailand, a fully-furnished sports pavilion, luxurious dormitories, environmentally friendly shuttle services on campus, exquisite green spaces for recreational refreshment, and an on-campus highly advanced healthcare center. As WU graduates, your academic excellence will be professionally enhanced with your choice of 8-month internship experiences anywhere around the world.

WU is a golden gateway towards quality education for all who are determined to embrace their brightest future. Your distinguished trust in WU is our most valuable honor to serve as your best education home for your successful future.

See more information on WU online prospectus at <https://cia.wu.ac.th/prospectus/>





WALAILAK UNIVERSITY'S VISION

To be an institution of good governance, a source of knowledge for critical problems facing the nation, to unfailingly address community needs, and to strive for international recognition for excellence.

MISSIONS

Walailak University aims to discover, seek, maintain and disseminate knowledge and academic excellence for the progress of society. At the heart of its obligation is to develop individuals who are both professionally-proficient and morally strong.

The University's Four Commitments:

- 1.To lead high level training of students based on world standards, consistent with socio-economic development of the South of Thailand and Thailand as a whole;**
- 2.To conduct studies, research in order to develop new knowledge that can be of benefit to national productivity, and can help enhance international competitiveness of Thailand;**
- 3.To provide and share expertise and technical services to organizations, both private and government sectors, including research and training and technological transfer in areas that can help develop the region and country;**
- 4.To act as a center for the conservation and restoration of art and culture.**

CONTENT

HIGHLIGHT

Walailak University Rises to the 401-600 Band in 2023 Times Higher Education Impact Rankings, Ranks Top 100 Worldwide in Four SDGs: Zero Hunger, Clean Water and Sanitation, Sustainable Cities and Communities, and Life Below Water

CURRENT PUBLICATIOINS

Current Q1 Publication in June 2023

TEACHING

Walailak University 2023 Freshman Orientation and Preparation: UKPSF-based Teaching and English Proficiency.

RESEARCH

WU Joins Forces with Local Government Organizations in Pak Phanang District and Hua Sai District, Enhancing Water Resource Management and Protecting Watershed Biodiversity in the Pak Phanang River Basin

INTERNATIONAL COLLABORATION & OUTLOOK

Walailak University Expands Global Opportunities for Students through Educational Collaborations with Australian Universities

Highlight

Walailak University Rises to the 401-600 Band in 2023 Times Higher Education Impact Rankings, Ranks Top 100 Worldwide in Four SDGs: Zero Hunger, Clean Water and Sanitation, Sustainable Cities and Communities, and Life Below Water



Walailak University has made significant progress in world's recognition of its contributions to the United Nations Sustainable Development Goals, moving up to the 401-600 band in the 2023 Times Higher Education Impact Rankings among 1,591 participating universities worldwide across 112 countries/regions. This achievement places Walailak University in joint 10th in Thailand. The results were officially released on 1 June 2023, at 11:30 AM BST or 5:30 PM ICT (Thailand local time).

The 2023 Times Higher Education (THE) Impact Rankings assessed the university's performance in four key areas: research, stewardship, outreach, and teaching, against the United Nations Sustainable Development Goals (SDGs). This marks the third consecutive year Walailak University has been ranked by THE Impact Rankings, with the university now placed 401st-600th globally. This achievement is a remarkable improvement from its previous ranking of 601st-800th in 2022.

According to the 2023 THE Impact Rankings, Walailak University received an overall score of 72.3 out of 100. Among all 17 SDGs, the university excelled in four SDGs: SDG2 (Zero Hunger), SDG6 (Clean Water and Sanitation), SDG11 (Sustainable Cities and Communities), and SDG14 (Life Below Water), securing a place among the top 100 worldwide.

Professor Dr. Sombat Thamrongthanyawong, President of Walailak University, said, "Walailak University places significant emphasis on the United Nations Sustainable Development Goals. In 2022, we were ranked between 601-800 globally. The higher rank means we performed better in our contributions to the United Nations Sustainable Goals. We are very proud of this global role of ours". More details: <https://www.wu.ac.th/en/news/22832/>

Walailak University is ranked 601+ in Asia, Joint 13th in Thailand, According to Times Higher Education Asia University Rankings 2023



Walailak University has been ranked at 601+ out of 669 universities across 31 territories in Asia, according to the Times Higher Education Asia University Rankings 2023, which were released on 22 June 2023 at 14.00 BTS or at 20.00 Thailand local time. This achievement positions Walailak University in joint 13th out of 18 universities ranked in Thailand.

This is the first year Walailak University has been ranked in the Times Higher Education (THE) Asia University Rankings after attaining reporter status in last year's rankings. The THE Asia University Rankings employ the same 13 indicators as the THE World University Rankings, but the weightings were adjusted to align with the priorities of Asian institutions.

Among the five assessed areas—teaching (25%), research (30%), citations (30%), international outlook (7.5%), and industry income (7.5%)—Walailak University has the highest score in industry income, with a score of 37.2; followed by international outlook (36), teaching (21), citations (14.5), and research (13).

In comparison to other Thai universities in each assessed area, Walailak University is ranked 6th in international outlook, 11th in citations, 13th in research and teaching, and 18th in industry income.

Tsinghua University in China tops the rankings this year, achieving the No.1 position in Asia. The National University of Singapore is ranked No.1 in ASEAN, and 3rd in Asia. Meanwhile, Chulalongkorn University, King Mongkut's University of Technology Thonburi, and Mahidol University share the joint No.1 spot in Thailand and are ranked 201-250 in Asia.

Professor Dr. Sombat Thamrongthanyawong, President of Walailak University, said, "This is the first time Walailak University has achieved the THE Asia University Ranking. Through dedicated development efforts, the university has become known and recognized globally. Parents and students who come to study here can be confident in our standards and take pride in the university's reputation. With the implementation of our strategic plans to propel the university towards global rankings, we are confident that our global and other rankings will continuously improve."

Previously, THE World University Rankings 2023 placed Walailak University at 1501+ among 1,799 universities ranked worldwide. The university was also placed at 401-600 by THE Impact Rankings for its global contribution to the United Nations Sustainable Development Goals (SDGs) and excelled among the top 100 globally in 4 SDGs: SDG2 Zero Hunger, SDG6 Clean Water and Sanitation, SDG11 Sustainable Cities and Communities, and SDG14 Life Below Water. Additionally, QS Asia University Rankings 2023 placed Walailak University at 551-600 among 760 Asian universities.

Walailak University and National Research Council of Thailand Collaborate to Organize Regional Research Expo 2023



Walailak University and National Research Council of Thailand (NRCT) have partnered to organize the Regional Research Expo 2023. The event, scheduled to take place from 28-30 June, focuses on the theme of Research and Innovation for Sustainable Improvement of Quality of Life - Southern Model.

On 8 June 2023, Professor Dr. Sombat Thamrongthanyawong, Acting President of Walailak University, along with Dr. Wiparat De-ong, Executive Director of NRCT, and Mr. Sompong Makmanee, Deputy Governor of Nakhon Si Thammarat Province, announced the organization of the Regional Research Expo 2023 which is scheduled to take place from 28 to 30 June 2023. The press conference was attended by university executives, NRCT executives, professors, officials, and media representatives at Hua Tapan Chamber, Walailak University Hospital.

Professor Dr. Sombat mentioned that Walailak University had the honor of being selected by NRCT, under the Ministry of Higher Education, Science, Research, and Innovation, to host this 12th Regional Research Expo. This expo revolves around the theme Research and Innovation for Sustainable Improvement of Quality of Life - Southern Model. Walailak University has been recognized as a leading research-intensive university, and this expo aims to foster collaboration among southern region research networks. The expo also serves as a platform to promote and accelerate the application of research and innovation outcomes, ensuring comprehensive and highly effective dissemination of knowledge and accomplishments throughout the region. Moreover, it facilitates the transfer of research findings, technologies, and innovations to benefit diverse communities, playing a pivotal role in driving future research and community development. More details: <https://www.wu.ac.th/en/news/22874/>

CURRENT PUBLICATOINS



Title: Aqueous cannabidiol β -cyclodextrin complexed polymeric micelle nasal spray to attenuate in vitro and ex vivo SARS-CoV-2-induced cytokine storms

Abstract

Cannabidiol (CBD) has a number of biological effects by acting on the cannabinoid receptors CB1 and CB2. CBD may be involved in anti-inflammatory processes via CB1 and CB2 receptors, resulting in a decrease of pro-inflammatory cytokines. However, CBD's poor aqueous solubility is a major issue in pharmaceutical applications. The aim of the present study was to develop and evaluate a CBD nasal spray solution. A water-soluble CBD was prepared by complexation with β -cyclodextrin (β -CD) at a stoichiometric ratio of 1:1 and forming polymeric micelles using poloxamer 407. The mixture was then lyophilized and characterized using FT-IR, DSC, and TGA. CBD- β -CD complex-polymeric micelles were formulated for nasal spray drug delivery. The physicochemical properties of the CBD- β -CD complex-polymeric micelle nasal spray solution (CBD- β -CDPM-NS) were assessed.



Scan for more information

Title: Diamond-like carbon (DLC)-coated titanium surface inhibits bacterial growth and modulates human alveolar bone cell responses in vitro

Abstract

Modifying the titanium alloy (Ti-6Al-4V) surface plays a key role in improving biological responses. The present work aimed to determine the response of human alveolar bone cells to the diamond-like carbon (DLC) film and to evaluate the antibacterial effect of DLC-coated titanium. The alloys were deposited with different compositions, including C₂H₂ (DLC), carbon tetrafluoride (CF₄:C₂H₂; F-DLC), and tetramethylsilane (Si(CH₃)₄:C₂H₂; Si-DLC). The surface morphology and wettability were measured using an atomic force microscopy (AFM) and a contact angle measurement. Titanium coated with DLC, F-DLC, or Si-DLC increased surface roughness and hydrophobicity. The ratio of spreading cells to initial rounded attaching cells at 20 min of all modified surfaces was higher than that of the control surfaces. F-DLC showed better cell spreading at 20 min compared to other conditions, as observed by scanning electron microscopy (SEM). The DLC, F-DLC, and Si-DLC coating significantly promoted cell proliferation compared to the Ti-6Al-4V control surfaces. ALP mRNA expression was significantly reduced on DLC surfaces compared to the control on day 14. Additionally, ALP and BMP2 mRNA expression increased on F-DLC-coated surfaces, but there were no statistically significant differences. However, DLC surfaces promoted higher mineral deposition than the control. The lower Staphylococcus aureus colony was observed on the surface of the DLC and F-DLC. In conclusion, the DLC-modified Ti-6Al-4V surface modulates cell attachment, proliferation, osteogenic marker gene expression, and bacterial growth. Herein, DLC-coated titanium alloys are still needed for continued development as an alternative biomaterial in dental applications.



Scan for more information



Title: Reinforcement control with fuzzy-rules emulated network for robust-optimal drug-dosing of cancer dynamics

Abstract

In this article, a nonlinear mathematical model of the biological phenomena in chemotherapy cancer treatment is considered as a class of unknown discrete-time systems when the input data and the measured output are only available. The input data are the drug administration represented as the control effort and the output is the tumor cells population. As a result, the actor-critic architecture is constructed without the full-state observer. Two sets of IF-THEN rules are utilized for fuzzy rules emulated networks by human knowledge according to the pharmacokinetic and pharmacodynamic details. The learning laws are derived from the concept of the incoherent reward function. Thus, the convergence of the internal signals and the robustness are accomplished by the theoretical and numerical results. Furthermore, the comparative results are given to demonstrate the effectiveness of the proposed scheme.



Scan for more information



Title: Antibacterial and antioxidant activities, lethality assay and chemical profile in crude extract of *Biancaea sappan* (L.) Tod. for anti-Vibrio agent

Background and objectives

The bacterial infections are still an important cause of death for organisms leading to interesting finding the new antibacterial agent from natural source. The antimicrobial activity of *Biancaea sappan* extract (BSE) has been reported with a few mentions of anti-Vibrio efficiency. In this study, the heartwood extract from *B. sappan* was investigated for antibacterial activity, stability, toxicity, and anti-Vibrio in seawater.



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Assoc. Prof. Dr. Nirundorn Matan



Assoc. Prof. Dr. Narumol Matan



Scan for more information

Title: Development of smoke flavour-antimicrobial packaging from coconut fibre using Litsea cubeba essential oil and wood smoke for dried fish preservation and reduction of PAH

Abstract

Dried fish is a rich source of protein and other nutrients but is highly susceptible to spoilage by moulds. The objective of this study was to develop smoke-flavour antimicrobial packaging from coconut fibre made from Litsea cubeba oil (LC) at 0.03%, 0.06%, and 0.09%w/w combined with wood smoking (WS) for 30, 45, and 60 min. Results showed that the developed packaging containing 0.06% LC and WS for 60 min could completely inhibit growth of spoilage mould and mould disease (Aspergillus niger) on dried fish. In addition, smoke flavour and LC vapour from the treated packaging could be absorbed into the surface of dried fish, improving its organoleptic properties and consumer satisfaction. Furthermore, treated dried fish kept in the developed packaging had a smoky flavour similar to smoked fish ($p > 0.05$).



Asst. Prof. Dr. Piyaluk Nurerk

Title: A monolith graphene oxide and mesoporous carbon composite sorbent in polyvinyl alcohol cryogel to extract and enrich fluoroquinolones in honey

Abstract

A porous monolith composite sorbent of graphene oxide (GO) and mesoporous carbon (MPC) in polyvinyl alcohol (PVA) cryogel was developed and employed for the solid phase extraction and enrichment of fluoroquinolones. Due to the porosity of the cryogel, the backpressure created by the sample flow was low, which helped stabilize the entrapped GO and MPC. The four target fluoroquinolones could then be adsorbed efficiently, repeatedly and simultaneously by hydrogen bonding, and hydrophobic and π - π interactions. The extracted fluoroquinolones were determined by high-performance liquid chromatography (HPLC). The developed method provided limits of detection ranging from 0.15 to 3.0 $\mu\text{g L}^{-1}$ and limits of quantification ranging from 0.5 to 10.0 $\mu\text{g L}^{-1}$. The developed sorbent successfully extracted trace fluoroquinolones in honey, achieving extraction recoveries in the range of 88.9–99.4 %, and good precision with RSDs between 0.7 % and 5.1 %. The advantages of the proposed porous monolith composite sorbent are its high extraction efficiency, simple and rapid procedure, good precision, good stability and reusability that enabled 10 extraction-regeneration cycles from a single sorbent.



Scan for more information



Dr.Hira Batool

Title: Development of the “1+2+X” Modular Course System for Information Technology Majors from the Perspective of Dual-Mode IT

Abstract

As the third generation of IT is developing rapidly, higher education institutions in China are looking to produce innovation-minded talent who can adapt to the dual-mode IT work environments of modern enterprises to meet the demands of the intelligent manufacturing national development strategy. So, this research aims to specify the hierarchical talent training system and mechanism for information technology majors in the higher education system. A 1+2+X modular curriculum system was proposed for the information technology majors based on the group-chain development model that focuses on combining discipline and industry (also known as vertical and horizontal integration). The data analysis was performed through a comparative analysis of the talent training objectives of the Chinese institutes and course systems’ national development strategies. The results support the idea that the 1+2+X modular curriculum system can help universities produce innovation-minded talent by designing their curriculum based on the industry and trends rather than just focusing on specialization training. The novelty of this research is that it promotes the idea of professional development along with course training. This paper recommends that future researchers implement the concept in vocational institutes.



Scan for more information



Asst. Prof. Dr. Rasimate Maungchang

Title: On Nordhaus-Gaddum type relations of δ -complement graphs

Abstract

The δ -complement graphs were introduced by Amrithalakshmi et al. in 2022. In their work, some interesting properties of the graphs such as δ -self-complementary, adjacency, and hamiltonicity were studied. In this work, we study the coloring aspect of the δ -complement graphs. In particular, we provide lower and upper bounds on the product and the summation between the chromatic number and the δ -chromatic number of a graph, in the same fashion as the well-known Nordhaus-Gaddum type relations. Classes of graphs that achieve those bounds are also given. Furthermore, we provide upper bounds on δ -chromatic numbers in terms of the clique numbers and compute the δ -chromatic numbers of certain graphs including ladder graphs, path graphs, complete m-partite graphs, and small-world Farey graphs.



Scan for more information



Dr. Bukhoree Sahoh

Title: The role of explainable Artificial Intelligence in high-stakes decision-making systems: a systematic review

Abstract

A high-stakes event is an extreme risk with a low probability of occurring, but severe consequences (e.g., life-threatening conditions or economic collapse). The accompanying lack of information is a source of high-stress pressure and anxiety for emergency medical services authorities. Deciding on the best proactive plan and action in this environment is a complicated process, which calls for intelligent agents to automatically produce knowledge in the manner of human-like intelligence. Research in high-stakes decision-making systems has increasingly focused on eXplainable Artificial Intelligence (XAI), but recent developments in prediction systems give little prominence to explanations based on human-like intelligence. This work investigates XAI based on cause-and-effect interpretations for supporting high-stakes decisions. We review recent applications in the first aid and medical emergency fields based on three perspectives: available data, desirable knowledge, and the use of intelligence. We identify the limitations of recent AI, and discuss the potential of XAI for dealing with such limitations. We propose an architecture for high-stakes decision-making driven by XAI, and highlight likely future trends and directions.



Scan for more information



Assoc. Prof. Dr. Narumol Matan

Title: Relatively low concentration of cardamon oil vapour for controlling enzymatic browning and maintaining the quality of rambutans

Abstract

Polyphenol oxidase (PPO), peroxidase (POD) activities, brown spot diseases, and the browning incidence of rambutans play an important role after harvest. As an anti-browning and antifungal agent containing bioactive compounds, potent cardamom oil vapour was investigated at 5 and 10 $\mu\text{L/L}$ inhibitors for 28 days to delay browning, reduce disease, and preserve the quality of rambutans. PPO and POD enzymes, disease incidence, colour attributes, total phenols concentrations and antioxidant were evaluated. Delayed browning with decreased PPO and POD activities, a high L^* , a low chroma, a low BI value and few disease-related browning incidents were found in rambutans treated with 5 $\mu\text{L/L}$ cardamom oil compared to the control group. The treated rambutans exhibited an enhanced number of total phenolic compounds and antioxidant potential and more free radical scavenging activity to prevent browning and maintain the rambutans' physicochemical qualities for 21 days of storage, compared to the control group, which only lasted seven days without browning.



Scan for more information

TEACHING

Walailak University 2023 Freshman Orientation and Preparation: UKPSF-based Teaching and English Proficiency.



Today, at the Thaiburi Auditorium, Walailak University organized the 2023 Freshman Orientation and Preparation Program. This program, spanning from 1 June to 9 June 2023, provides students with essential information and assistance for a seamless transition into university life. Today's session centered around teaching and learning based on the United Kingdom Professional Standard Framework (UKPSF) and adapting to the new environment at Walailak University.

Approximately 1,300 freshmen attended the event at the auditorium, including the university's executives: President Sombat Thamrongthanyawong, Vice President Voravuth Somsak, Vice President Charun Bunyakan, and faculty members from various schools. The event was also broadcast live to lecture buildings within the university. This year, Walailak University admitted over 3,000 freshmen.

Since 2018, Walailak University has been implementing the UKPSF in all its teaching practices. The framework, which focuses on active learning, helps students develop critical, analytical, and synthetic thinking skills. Furthermore, the university's small class sizes cultivate a friendly learning environment and promote increased student engagement in class.

One of the highlights of the event was a session on "Why English and How to Be Good at It?" delivered by Vice President Surin Maisrikrod. Vice President Surin also emphasized the university's dedication to assisting students in improving their English skills during their studies. According to the EF English Proficiency Index 2022, Thailand was ranked 97th out of 111 countries and regions worldwide, placing it in the category of very low proficiency. Among Thailand's four main regions, the southern part ranked last.

More details: <https://www.wu.ac.th/en/news/22871/>

The Medical Technology Bilingual Program organized a short Intensive English course



The Medical Technology Bilingual Program organized a short course from 6 to 8 June 2023 at the Academic Building 7, School of Allied Health Sciences, Walailak University, to boost English proficiency for 3rd year students. The course covered TOEIC test structure, vocabulary self-learning guidelines, and language core topics. Its aim was to enhance students' English language skills for academic writing and international communication. By participating, students gained benefits such as improved TOEIC performance, enhanced academic abilities, and better preparedness for global collaboration and exchange programs. The course empowered students to effectively communicate complex ideas, present persuasive arguments, and engage in research and publishing endeavors. The activity provided a dedicated platform to develop language proficiency in line with the demands of the medical technology field. With a stronger command of English, students can thrive academically, broaden their horizons through international engagement, and contribute effectively to the dynamic realm of medical technology. More details: <https://sah.wu.ac.th/?p=18217&lang=en>

RESEARCH

WU Joins Forces with Local Government Organizations in Pak Phanang District and Hua Sai District, Enhancing Water Resource Management and Protecting Watershed Biodiversity in the Pak Phanang River Basin



From October 2022 to February 2023, Walailak University (WU), represented by the Center of Excellence in Sustainable Disaster Management and the Center for Academic Services, collaborated with local government organizations to arrange local stakeholder meetings on water resource management using transdisciplinary research methods in the irrigation areas of the Lower Pak Phanang River Basin through the Project "Achievement Evaluation in Developing Water Sources Under the Royal-Initiated Pak Phanang River Basin Development Project", funded by the Office of the Royal Development Projects Board (ORDPB).

The meetings served as a neutral stage for exchanging thoughts and ideas about the current situation of the basin, conflict mitigation on water resources, and co-operation agreement on cooperative water resource management that is consistent with the context of the geography and way of life of those communities. This mechanism is set to build sustainable water security and improve the ecological balance of the Pak Phanang River Basin. More details: <https://www.wu.ac.th/en/news/22873/>

ORDPB pays an Official Visit to follow up on the Progress of the Project “Achievement Evaluation in Developing Water Sources Under the Royal-Initiated Pak Phanang River Basin Development Project”



On January 10–11, 2023, Walailak University, represented by Asst. Prof. Dr. Pakorn Ditthakit, a researcher at the Center of Excellence in Sustainable Disaster Management, and the researchers of the Center for Academic Services, accompanied by the Chief Executives of the Subdistrict Administration Organization, local leaders, and the Regional Irrigation Offices in Pak Phanang District and Hua Sai District, welcomed the Senior Advisor Committee appointed by the Office of the Royal Development Projects Board (ORDPB) to follow up on the progress of the project “Achievement Evaluation in Developing Water Sources Under the Royal-Initiated Pak Phanang River Basin Development Project”.

During the meeting, the staff reported the progress of the project and discussed it with the committee on mobilizing the communities in Pak Phanang district and Hua Sai district toward sustainability at the Conference Room, the Administration and Coordination Center for Pak Phanang River Basin Development. For years, Walailak University has been working with local government organizations in Pak Phanang District and Hua Sai District, considered outstanding agricultural areas in Nakhon Si Thammarat, to provide academic services on water resource management for building sustainable careers for those local communities. More details: <https://www.wu.ac.th/en/news/22867/>

WU, Community Leaders, and Ban Thung Chon Sub-District Health Promotion Hospital Joining to Raise the Level of the Main Herb in the Recipe of "Phlai Massage Oil"



On May 23, 2023, Asst. Prof. Dr. Chawewan Klongsiriwet, Ms. Chanakan Sitthisak, lecturers from the School of Pharmacy and the working team of the Center for Academic Services (CAS) partnered with staff of Ban Thung Chon Sub-District Health Promotion Hospital, Ban Thung Chon community leaders, and mainstay of Village Health Volunteer carried out activities to propagate crude plant (phlai, curcumin, ginger, arivela viscosa, etc.) in the herb garden area of Thung Chon Sub-district Health Promotion Hospital by using Tricho-Orga-Soil, which was one of Walailak University's technologies, mixed with the soil in herb plots to build immunity in the soil and promote plant disease prevention in tuber herb by biological methods. In this regard, the faculty members provided advice on planting and harvesting plans for each type of crude plant in order to raise the upstream level of the herbal product production process before harvesting herbs that are essential and have reached their useful life to be raw materials for the transfer of product production technology of “Phlai Massage Oil” in June. More details: <https://www.wu.ac.th/en/news/22863/>

Fish Habitats: The Conservation Strategy to Maintain Healthy Marine Ecosystem for Archiving SDG 14



THA SALA, NAKHON SI THAMMARAT, 29 April 2023 – Walailak University, represented by Asst. Prof. Dr. Amonsak Sawusdee, Director of the Center for Academic Services, organized an event titled “The 21st Fish Habitat Creation for Sustainability” at Ban Nai Thung Fisherfolk Association.

The momentous event was presided over by Mr. Apinan Chaowalit, Chief Executive of Tha Sala Subdistrict Administration Organization, followed by a presentation on the background of the event by Mr. Charoen Toitae, Head of the Ban Nai Thung Blue Crab Bank Learning Center.

Under the leadership of Asst. Prof. Dr. Amonsak Sawusdee, this conservation event is organized every year in April with the aim of creating places for fish to raise young, lay eggs, feed, and provide a sense of protection from predators. The fish habitat creation is applied with traditional marine conservation methods, reflecting the local marine stewardship of the community from the past to the present. It has raised public awareness of marine and coastal resources as considered natural resources for food, ensuring food security for the community and the nation.

More details: <https://www.wu.ac.th/en/news/22787>

INTERNATIONAL COLLABORATION & OUTLOOK

Memorandum of Understanding Signing Ceremony (MOU) between the Department of Medical Technology, School of Allied Health Sciences, Walailak University (MT-SAH-WU) and the Department of Medical Biotechnology and Laboratory Science, College of Medicine, Chang Gung University (MBLS-CM-CGU)



Academic collaboration established between the Department of Medical Technology, School of Allied Health Sciences, Walailak University (MT-SAH-WU) and the Department of Medical Biotechnology and Laboratory Science, College of Medicine, Chang Gung University (MBLS-CM-CGU). The Memorandum of Understanding Signing Ceremony (MOU) between MT-SAH-WU and MBLS-CM-CGU was held on June 8, 2023 at Chang Gung University, Taoyuan city, Taiwan.

Department of Medical Technology, School of Allied Health Sciences, Walailak University (MT-SAH-WU) led by Assoc.Prof.Dr. Jitbanjong Tangpong, Dean of School of Allied Health Sciences and the Department of Medical Biotechnology and Laboratory Science, College of Medicine, Chang Gung University (MBLS-CM-CGU) led by Prof. Dr. Chia-Rui Shen, Chair, Department of Medical Biotechnology and Laboratory Science, Chang Gung University, both universities agreed to have an academic collaboration which include staff and student mobility for research, professional training, teaching and learning purposes including attending the international conference, symposium, or seminar organized by WU or CGU. More details: <https://sah.wu.ac.th/?p=18287&lang=en>

Memorandum of Understanding Signing Ceremony (MOU) between the School of Allied Health Sciences, Walailak University (SAH-WU) and the College of Biomedical Science and Engineering, National Yang Ming Chiao Tung University (CBMSE-NYCU)



Assoc. Prof. Dr. Jitbanjong Tangpong, Dean School of Allied Health Sciences, said, “Our school, the School of Allied Health Sciences, we try our best to respond to the university policy and missions by maintaining international collaboration as well as looking for a new international collaboration. National Yang Ming Chiao Tung University is one of the top public universities in Hsinchu City, Taiwan and is ranked #202 by the QS World University Rankings in 2023. This was our great pleasure that NYCU accepted our study visit and agreed to have a MOU for academic cooperation in particular staff and student mobility for research and professional training”. Asst. Prof. Rachasak Boonhok, Asst. Dean for International Affairs, added “We received a very warm welcome from NYCU team led by Prof. Chun-Li Lin, Dean College of Biomedical Science and Engineering, Prof. Li-Wei Chou, Deputy Vice President for International Affairs, Prof. Jason C. Huang, Chair Department of Biotechnology and Laboratory Science in Medicine, Prof. Shr-Jeng Jim Leu, Department of Biotechnology and Laboratory Science in Medicine, who took us for NYCU Hospital tour, Prof. Yi-Fen Shih, Chair Department of Physical Therapy and Assistive Technology including all faculty and supporting staff.”

More details: https://sah.wu.ac.th/?p=18238&fbclid=IwAR3Kp4hzH1dzLr_2MabekycH35ARf1FEtY2vI1Meuqz16TKBM52b81DePaQ&lang=en

https://sah.wu.ac.th/?p=18238&fbclid=IwAR3Kp4hzH1dzLr_2MabekycH35ARf1FEtY2vI1Meuqz16TKBM52b81DePaQ&lang=en

Walailak University Partners with National Institute for Fusion Science, Japan, in Development of Biomass-Derived Binder-less Activated Carbon



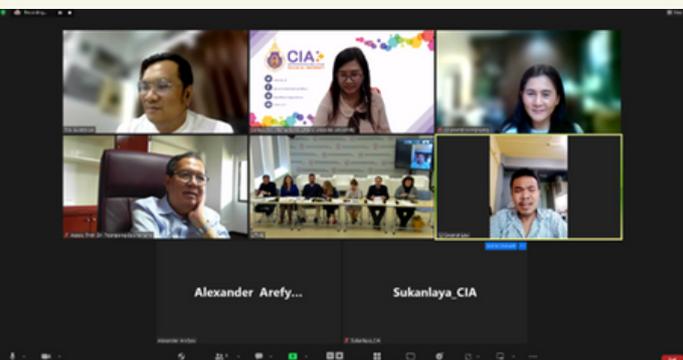
Walailak University Functional Materials & Nanotechnology Center of Excellence and Laboratory (FunTech) and Center for International Affairs (CIA) welcomed researchers from National Institute for Fusion Science (NIFS), Japan, today, at Honor Hall, Walailak university Hospital. The NIFS researchers led by Prof. Mitsutaka Isobe paid a courtesy call to Professor Dr. Sombat Thamrongthanyawong, President of Walailak University.

NIFS is an institution focused on advancing fusion science and offers postgraduate study and internship training in fusion development. Walailak University FunTech is collaborating with NIFS in the development of biomass-derived binder-less activated carbon.

“We are trying to develop this unique binder-less activated carbon,” said Associate Professor Dr. Mudtorlep Nisoa, the head of FunTech. “This activated carbon has the potential for energy storage and can be further developed into electrodes for supercapacitors.”

“The activated carbon contains numerous pores that enable the gradual emission of essential oils. These oils aid in slowing down the browning process of fruits and inhibiting the growth of microorganisms. This technology adds more value to biomass and, by utilizing the biomass instead of burning, helps reduce carbon dioxide emissions. It marks the beginning of a promising development and holds potential applications in agriculture, medicine, and the future of energy,” Dr. Mudtorlep added. More details: <https://www.wu.ac.th/en/news/22848/>

WU-CIA and UMTE, Russia Joined Zoom Discussion for Developing Academic Collaboration



On Friday, 9th June 2023, The Center for International Affairs (CIA), Walailak University organized a zoom meeting with St. Petersburg University of Management Technologies and Economics (UMTE), Russia. The meeting aims to seek for potential academic collaboration and strengthen friendship relation between the schools and departments. The meeting was run by Mrs. Jiraporn Kansuwan, a senior officer from the CIA, and was attended by UMTE's participants: (1) Assoc. Prof. Dr. Anna Rummyantseva, Vice Rector for Research and International Affairs, (2) Evgeny Schipanov, Director of the Institute of Economics, Management and Information Technologies (The institute has 3 departments which implement programmes and research in Management, Economics, IT, Sociology etc.), (3) Alexander Arefiev, Representatives of the departments of the Institute of Economics, (4) Management and Information Technologies: Department of Information Technologies and Mathematics, (4) Elena Ushakova, Department of Management and Public Administration, (5) Vitaly Mordovets, Department of Economics and Social and Economic System Management, (6) Elena Sintsova, Head of the department of International Finance and Accounting, (7) Evgenia Alexandrova, Head of the Department of Pedagogics and Psychology, (8) Mr. George Varlamov, International office. The participants from Walailak University were (1) Assoc. Prof. Dr. Poonpong Boonbrahm, Dean of the School of Informatics, (2) Asst. Prof. Siwarut Laikram, lecturer, School of Law, (3) Asst. Prof. Dr. Trairong Swatdikun, Head of Research Unit, School of Accounting and Finance (4) Asst. Prof. Dr. Chuleerat Kongruang, lecturer, School of Accounting and Finance, and Mrs. Jiraporn Kansuwan, CIA officer.

The meeting was taken 1.45 hours started by the presentation of each university. The discussion was the first initiative from each party. To implement an academic collaboration project by each school and department, many potential areas were proposed and discussed during the meeting. Potential areas of collaboration were included but not limited to finance and economic, stock market, accounting, information technology, management as well as pedagogics and psychology. More details: <https://www.wu.ac.th/en/news/22872/>

Walailak University's Center for International Affairs Organizes Orientation for French Exchange Students from Grenoble Institute of Technology



The Center for International Affairs (CIA) at Walailak University organized a welcoming orientation for two exchange students, Mr. Thomas Michel and Mr. Joan Gonthier, from Grenoble Institute of Technology, France. The event took place today at the CIA meeting room in the Cooperative Education Building.

The two students will be participating in a research-focused internship program at the School of Informatics, Walailak University, from June to August 2023. Mr. Thomas mentioned that he was seeking an international internship opportunity in Asia and was particularly impressed by Walailak University, which he believed would offer him valuable cultural experiences and academic growth. Mr. Joan also expressed his enthusiasm, stating that he looks forward to gaining more experience during his internship and engaging in activities with international students at Walailak University.

During the orientation, Mrs. Jiraporn Kansuwan, a senior staff member from the CIA, provided an overview of Walailak University to the students. And there was an experience-sharing session where Ms. Cho Zin, an international Ph.D. student in Health Environment and Safety from the School of Public Health, shared her study experiences at Walailak University.

The orientation covered various aspects of Thai culture, including the "DOs" and "DON'Ts," as well as the traditional Thai greeting known as the "Wai." The students were also informed about the university's facilities and the availability of electric shuttle cars for transportation within the campus.

More details: <https://www.wu.ac.th/en/news/22818>

WU and UPM researchers collaborated for international research publications in Assessing the Functional Movement Screen Test for Improving Oil Palm Harvesting



During 16-18 May 2023, Asst. Prof. Sukrit Sangkhano, Asst. Prof. Dr. Phisit Pouyfung, Mr. Kittithat Sudchoo from the Department of Occupational Health and Safety, School of Public Health, Walailak University (WU) together with Assoc. Prof. Dr. Ng Yee Guan and Prof. Dr. Shamsul Bahri Mohd Tamrin from Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (UPM) cooperatively hosted 2-day Ergonomics Risk Assessment Training for ergonomics trained Person, Level 1. 31 participants have been trained during the two-day training program. In addition, the researchers from WU and UPM have been developing proposal for submitting to Foundation for Professional Ergonomics (FPE) impact grant application 2023- 2024 that offers research fund for global researchers up to 2,500 USD for a successful applicant. Currently, the research team members are in preparation of writing co-authored Scopus Q1 manuscript entitled “Assessing the Functional Movement Screen Test for Improving Oil Palm Harvesting in south of Thailand”
More details: <https://sph.wu.ac.th/?p=8143&lang=en>

Public Health Youth Leadership Program in Jakarta, Indonesia



In a recent international endeavor, Ajarn Noppadon Preecha, Acting Assistant Dean for International Affairs, along with Ajarn Dr. Prasert Makkaew and Ajarn Narisara Kaewchutima, led a group of nine students known as ""#Dek Wirat."" Their destination was the Faculty of Health Science at Universitas Pembangunan Nasional Veteran Jakarta, Indonesia, which is part of the School of Public Health's international cooperation network. This initiative was carried out under the Public Health Youth Leadership Program, designed to advance foreign policy and enhance the School's global outreach. The project encompassed various activities aimed at enriching the student's knowledge and skills in public health. These activities included academic development sessions focusing on public health and study visits to explore environmental, safety, and occupational health practices in different workplaces. Additionally, the team engaged in recruiting organizations willing to participate in sending cooperative students abroad. More details: <https://sph.wu.ac.th/?p=8196&lang=en>

Walailak University Expands Global Opportunities for Students through Educational Collaborations with Australian Universities



On 20 June 2023, at the Honor Hall of Walailak University Hospital, Ms. Watinee Kharnwong, Director of Department of Education at Australian Embassy in Thailand, paid a courtesy visit to Professor Dr. Sombat Thamrongthanyawong, President of Walailak University. The purpose of the visit was to discuss educational collaborations between Walailak University and regional universities in Australia.

During the meeting, Professor Dr. Sombat briefed Director Watinee on an overview of Walailak University, including the transition from trimester system to semester system, an increase in the number of first-year students, both in terms of quality and quantity; and over 90 percent or 610 teaching staff have been certified by Advance HE based on the United Kingdom Professional Standard Framework.

Walailak University, recognized as one of 16 research-intensive universities in Thailand, was recently ranked by the Times Higher Education Impact Rankings 2023 at 401-600 among 1,591 universities worldwide. The university stands out as one of the top 100 universities globally in four Sustainable Development Goals: Zero Hunger, Clean Water and Sanitation, Sustainable Cities and Communities, and Life Below Water.

After the meeting with the president, Ms. Watinee met with representatives from the schools and colleges of Walailak University at Center for International Affairs meeting room, Cooperative Education Building, to discuss opportunities for educational collaborations with regional universities in Australia. These collaborations would encompass various areas such as student and staff exchange, research, cooperative education (internship), dual degree, training, visiting professors, etc. More details: <https://www.wu.ac.th/en/news/22913>

CIA and School of Political Science and Public Administration Joined Zoom Discussion with National Science Foundation, Sri Lanka



On Monday, 19th June 2023 the Center for International Affairs (CIA) organized a zoom meeting with Prof. Dr. Sepalika Sudhasinghe, Director General, National Science Foundation, (Ministry of Education), Sri Lanka. The objective of this meeting was to continue her wishes to collaborate with Walailak University where Prof. Dr. Sombat Thamrongthanyawong, a current president of Walailak University (WU) has been her inspiration leader since her Ph.D study at the National Institute of Development Administration (NIDA) in the program of Development Administration specialized in Public Policy Management. Her great success after graduation remind her thought to collaborate with WU in one day, and School of Political Science and Public Administration is the closest to her expertise and self-interest.

The discussion was great in a friendship atmosphere. Honored participants presented at the meeting from Walailak University were Prof. Dr. Wanna Choorit, Acting Vice President and Acting Dean of the School of Political Science and Public Administration, Asst. Prof. Dr. Siriporn Somboonboorana , Mr. Pacharapong Kumjumba, Miss Natthanan Puenbonthananan, Mr. Maytapat Paraman and Mrs. Pafun Nilsawas Duhamel, lecturer from the school while from the CIA side, we had Dr. Chirawat Wattanapanich, Acting Director, Miss Sukanlaya Thavonpon, Administrative officer and Mrs. Jiraporn Kanwan who monitored the meeting.

After the presentation of the two parties, a fruitful discussion brought into several key feasibility of future collaborations. Some possibility was raised by Prof. Dr. Sepalika Sudhasinghe were in the following;

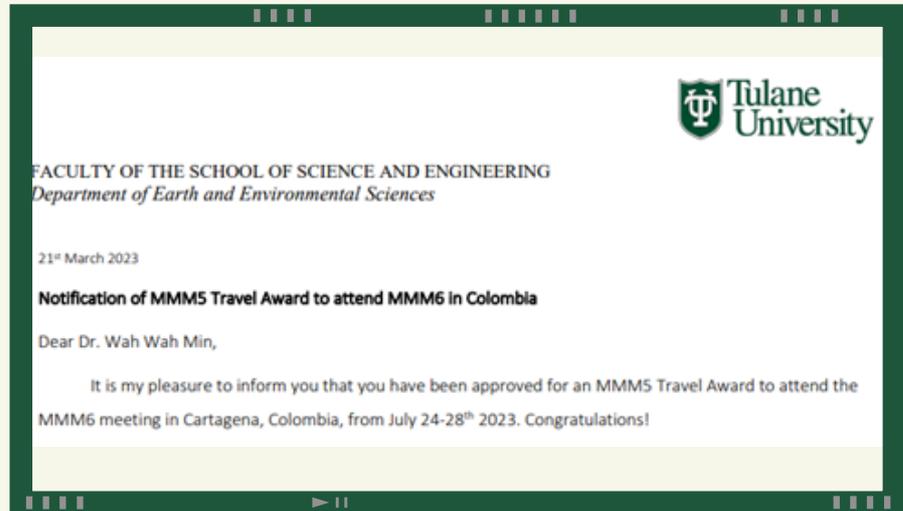
1. Public policy management and analysis
2. Policy formulation
3. Supervisor/ advisor in policy research for Master and PhD
4. Public management
5. Research reviewer
6. Curriculum development
7. Training program for senior executive's/ government personnel

For Walailak University, a key dimension to collaborate were in the following areas:

1. Sufficiency economy, Buddhism and labor mobility
2. Economic and tourism in collaboration with the University of Colombo, Sri Lanka (THE-WUR 601-800)
3. Women empowerment
4. Food Security and Anthropocene
5. Internship collaboration, visiting professor, guest lecturer/ speakers

REWARD

Congratulations to Dr. Wah Wah Min for being awarded MMM5 Travel Award to Colombia



Dr. Wah Wah Min, a specialist in Zoology and visiting professor of School of Science, Walailak University has been awarded MMM5 Travel Award to attend the sixth Mangrove Macrobenthos and Management Conference: MMM6 meeting in Cartagena, Colombia, from July 24th-28th 2023 from Tulane University, New Orleans, United State of America. The award covers flights, conference registration fee, lodging, and meals.

About 2023 MMM6 in Colombia: The Mangrove Macrobenthos and Management (MMM) conference series is the world's largest gathering of researchers and practitioners dedicated to the science and conservation of mangrove ecosystems (Friess et al., 2021: Estuarine, Coastal and Shelf Science 248 106742). The first meeting was convened in 2000 in order to analyze the health of mangrove ecosystems in different parts of the world. Five meetings have been held in different countries over the last 20 years (2019 Singapore; 2016 St. Augustine, USA; 2012 Galle, Sri Lanka; 2006 Collangatta, Australia; 2000 Mombasa, Kenya) have made it possible to identify the main trends in research and management at global and local scales.



In addition, since Dr. Wah Wah Min’s visiting professorship in 2022 at Walailak University, several of her academic achievements have been recognized and awarded the following recognitions:

1. Best Presenter in the parallel session during the International Conference on “Smart Education in the Post Covid Pandemic” at Walailak Research Convention during 28-29 March 2022.
2. Certificate of Publication for the article titled: Crab Species Specific Excavation and Architecture of Burrows in Restored Mangrove Habitat, published in Journal of Marine Science and Engineering in 2023, Volume 11, Issue 2, 310
3. Certificate of Appreciation in recognition of contribution as a manuscript peer reviewer for Indo Pacific Journal of Ocean Life in 2023

ASI

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THE SILK CLOTH



DESIGNING OF CONTEMPORARY SOUVENIRS