



THAILAND HALALA ASSEMBLY 2024

Toward Halal Trust Through Digital Technology 2AIs "ความไว้วางใจด้านฮาลาลผ่านเทคโนโลยีดิจิทัลสองเอไอ"



INTERNATIONAL CONFERENCE งานประชุมวิชาการด้านวิทยาศาสตร์ และมวัตกรรมฮาลาลนานาชาติ

https://www.thailandhalalassembly.com



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Join us at the **Thailand Halal Assembly 2024**, an international conference on halal science and innovation, taking place on **December 19–20, 2024**, at Al Meroz Hotel in Bangkok. This year's is themed **"Toward Halal Trust through Digital Technology 2AIs"**, hosted by the Halal Science Center, chulalongkorn University.

The assembly brings together leading thinkers, researchers, and industry experts to discuss and explore advancements in halal science and technology. It features the International Halal Science and Technology Conference 2024 (IHSATEC), the 17th Halal Science, Industry, and Business Conference, and the International Halal Route Workshop. In addition, a special exhibition on halal innovation showcases Thailand's digital transformation of the halal industry through two key applications of AI



The first "**AI**" – Actual Implementation – highlights the integration of human expertise in systems like HAL-Q, halal forensic laboratories, innovations, and religious rulings (Fatwas). The second "AI" – Artificial Intelligence – uses AI to manage big data, supported by the THAIs platform, enhancing trust across industry, consumer, and business sectors in Thailand's halal product and services. These innovations aim to reduce operational costs, improve competitiveness, and emphasize Thailand's leadership in the digital age of halal industry.





We invite you to participate in this premier event to connect, innovate, and elevate the future of the global halal economy.



THAILAND HALAL ASSEMBLY 2024

INTERNATIONAL CONFERENCE

งานประชุมวิชาการด้านวิทยาศาสตร์ และนวัตกรรมฮาลาลนานาชาติ

19-20 DECEMBER 2024 at Al Meroz Hotel Bangkok

Toward Halal Trust Through Digital Technology 2AIs

"ความไว้วางใจด้านฮาลาลผ่านเทคโนโลยีดิจิทัลสองเอไอ"

Incorporating Three Leading Events

• IHSATEC 2024:

The International Halal Science and Technology Conference 2024

Conference Paper Submission Deadline is on **29 November, 2024**

• 17th HASIB:

The 17th Halal Science, Industry and Business Conference

International Halal Route Workshop





GRAND OPENING CEREMONY



MR. AKANAT PROMPHAN

Minister of Industry, Thailand



H.E. MR. İHSAN ÖVÜT

Secretary General of the Standards and Metrology Institute for the Islamic Countries (SMIIC), Türkiye



POLICE MAJOR GENERAL SURIN PALARAE Secretary General of the Central Islamic Council of Thailand (CICOT), Thailand

SPEAKERS



PROF.DR. SOMBAT TREEPRASERTSUK Vice President of Chulalongkorn University, Thailand



ASSOC, PROF, DR. WINAI DAHLAN

Founding Director, The Halal Science Center, Chulalongkorn University (HSC-CU), Thailand



ASSOC. PROF. DR. WINAI DAHLAN Founding Director, The Halal Science Center Chulalongkorn University Thailand

ASSOC. PROF. DR. PAKORN PRIYAKORN

the Halal Standard Institute of Thailand

DR. KASINEE KATELEKHA

Assistant Director, The Halal Science Cen



PROF. DR. FARIDAH HJ HASSAN Department of Ranking at UiTM Global, Universiti Teknologi MARA Malaysia

ASSOC. PROF. DR.NASSER AL-HABSI

Assistant Dean for duate Studies & Research ood Science and Nutrition,



PROF. DR. IRWANDI JASWIR Dean for Academic, Research, and ublication at INHART, the Internation Islamic University Malaysia (IIUM), Malaysia Public

PROF.DR.SURAINI BINTI ABD AZIZ Professor at Faculty of Biotechnology & Biomolecular Science Universiti Putra,



PROF. DR. ABDELAZIZ BOURAS Professor at College of Engineering, Qatar



F. DR. AHMED SEFFAH College of logical Inno ved Universi UAE ersity



The Halal Science Center Chulalongkorn University



MUR SHARALYN



Manager at Halal Development Majlis Ugama Islam Singapura amic Religious Council of Singapo



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DR. AMALIA MOHD HASHIM Head of Laboratory, Halal Products Research Institute, Universiti Putra Malaysia,



The Halal Science Center, Chulalongkorn University, Thailand



DR. ACHAREE SUKSUWAN



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FARHAN TUFAIL Director of tification Services,

DR. NAWAWEE ARAWAN

ASSOC. PROF. WORASIT CHOOCHAIWATTANA ngkon Business School, alongkorn University, Thailand



ASSIST. PROF. DR. PRADORN SUREEPONG

stant Directo ience Cente

DR. SIMAR KANWAL te of Nul Chemistry Unit









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Toward Halal Trust Through Digital Technology 2AIs



CONFERENCE JUDGING COMMITTEES

SCIENCE & TECHNOLOGY



PROF.DR.SURAIN or at Fac



PROF. DR. A HMED M. YOUSSEF

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PROF. DR. SIRICHAI ADISAKWATTANA

d of Phytochemical and tional Food Research Unit for Clinical Nutrition,



PROF. DR. UMAIR ARSHAD

n De of Food Science Government College University,Faisalabad,



ASSOC. PROF. DR. SUV SAPWAROBOL

culty of Allied Health Scien Chulalongkorn University, Thailand



ASST. PROF. DR. PAKPUM SOMBOON



ASST. PROF. DR.MUHAMMAD SAJID ARSHAD De nt of Food Se t College Un

ASST. PROF. DR. SUKRIT SIRIKWANPONG

ion and University



DR. SIMAB KANWA Institute of Nutrition, Food Chemistry Unit

SOCIAL SCIENCE & MARKETING



PROF. DR. H. SAPTA NIRWANDAR, S.E.,



ASSOC. PROF. DR. SRAWUT ctor of Muslim Studies Cente Ialongkorn Un Thailand

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Regional (Director of DOST XI DOST Halal Science and gy Program Lead)

Toward Halal Trust Through Digital Technology 2AIs December 19-20,2024 at Al Meroz Hotel Bangkok



IHSATEC 2024: 17th HASIB

The International Halal Science and Technology Conference 2024 (IHSATEC): 17th Halal Science Industry and Business (HASIB)

Poster & Oral presentation

IHSATEC 2024: International Halal Science and Technology Conference 2024 is pleased to invite academicians and scientists to participate and submit your abstracts ans full papers covering all aspects of Halal Science and Technology fields.

- Food Science and Nutrition
- Food safety and Management
- Natural Products and Bioactive Compounds
- Biotechnology and Molecular Biology
- Cosmetic Science
- Blockchain and Internet of Things (IoT)
- Health and Physical Science
- Nanoscience and Technology
- Digital Marketing and Data Driven
- Business and Marketing

Reward for academic presentation

- 1. The Best Oral Presentation
- 2. The Best Paper
- 3. The Best Poster Presentation
- 4. Popular vote poster presentation



detailed information

or

Toward Halal Trust Through Digital Technology 2Als December 19-20,2024 at Al Meroz Hotel Bangkok





IHSATEC : HASIB



Toward Halal Trust Through Digital Technology 2AIs December 19-20,2024 at Al Meroz Hotel Bangkok







AS Journal of Halal Science, **Industry and Business**

CALL FOR PAPER Journal of Halal Science, Industry, and Business (JHASIB) is a peer-review journal published by The Halal Science Center, Chulalongkorn University Thailand and Research Synergy Foundation Indonesia. JHASIB publish bi-annually in May & November.

JHASIB's aims and scope focusing on the discussion of Halal-related matters, categorized into three principal themes:

Halal Science

Halal Science, Technology and innovation, Food Science and Nutrition, Natural Products and Bioactivate Compound, Cosmetic Science, Biotechnology and Molecular Biology, Health and Medical Science, Nanoscience and Technology, Environment and Green Technology

Halal Industries

Halal Block Chain and Digital Transformation, Post COVID-19 Management, The Implementation of Halal Regulation, Artificial Intelligence (AI), Halal Policy, Regulation and Law

Halal Business

Digital Marketing and Data-Driven Marketing, e-business and Mobile Commerce, Islamic Finance, Halal Education, Halal Tourism and Hospitality

Benefit for author:

- · Free of Charge to Submit in Journal
- Free Registration Fee* to Join RSF International Conference
- Opportunity to be selected as Editorial Team/reviewer Team/Trainer in Research Synergy Foundation*
- · Opportunity to be selected as Keynote Speaker at **RSF** International Conference

*Conferences will be selected by RSF Board



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HALAL SMEs ZONE

The showcase of entrepreneurs' potential to present innovative products that have been developed by the Halal Science Center Chulalongkorn University, with developments in the production process, products, and marketing both domestically and internationally. Entrepreneurs who presented their product innovations in this activity were selected by qualified committees as being ready and having the potential to receive the Halal SMEs innovation award, totaling 18 establishments from food and non-food products, such as Suwirun Tea Shop Thailand Premium Organic Tea, Madi Kombucha, Vanapan Vegan Nail Care, and many other products.

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Thailand Halal Assembly 2024 Exhibition: "TOWARD HALAL TRUST THROUGH DIGITAL TECHNOLOGY 2AIS"

The exhibition at Thailand Halal Assembly 2024 focuses on the concept of **"Halal Trust Through Digital Technology 2AIs"**, which integrates **Actual Implementation** with **Artificial Intelligence (AI)** to build confidence in halal products and industries in Thailand.



AI1: Actual Implementation

involves the real-world application of technologies to inspect and control compliance halal standards.

AI 2: Artificial Intelligence

utilizes technology that enhances the accuracy and efficiency of data management and halal systems.



The exhibition covers four key areas:

1. HAL-Q (Halal Assurance & Liability Quality System):

A halal quality management system using digital technology and AI to improve inspection efficiency, along with the application of **Big Data** and **Halal Blockchain** for transparency in the production process.

2. Laboratory Testing:

The use of **AI** and **Machine Learning** in testing samples for contaminants and analyzing data quickly.

3. H Numbers: A system for identifying raw materials and chemicals that meet halal standards using AI.

4. Halal Blockchain: The use of blockchain technology to create a traceability system for halal products, increasing transparency and preventing data tampering.



This exhibition highlights the use of digital technology and AI to support Thailand's halal industry, enhancing its credibility and strengthening its position on the global stage.





HSC INNOVATION ZONE

No.	Group	Halal Innovation Product	Inventor
1	Cosmetic	Acne cream product mixed with kaolin , bentonite and black cumin seed oil	Zamzam Ar-ur, Nassarin Palame, Assist. Prof.Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan
2		Natural sunscreen plus black cumin seed oil	Nassarin Palame, Zamzam Ar-ur, Assist. Prof.Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan
3		Antioxidant-Riched Hydrating Lip Balm from Perilla Seed Pomace extract	Baddariyah sohsansa, Nareeya Waloh, Assist. Prof.Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan
4		Anti acne film forming solution	Baddariyah Sohsansa, Nareeya Waloh, Dr. Acharee Suksuwan, Firadao Boonmalert, Assoc. Prof. Dr. Winai Dahlan
5		Najis Cleansing Clay Liquid Soap	Assoc. Prof. Dr. Winai Dahlan
6		Liposome Nanoparticle from Krill Oil for Storing Perilla Seeds Extract	Nareeya Waloh, Baddariyah Sohsansa, Dr. Acharee Suksuwan, Firadao Boonmalert, Suwaibah Sulong, Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan
7		Antibacterial Clay Suspension Solution	Kasinee Katelakha, Baddariyah Sohsansa, Nareeya Waloh, Assoc. Prof. Dr. Winai Dahlan

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HSC INNOVATION ZONE

No.	Group	Halal Innovation Product	Inventor
8	Food	Red Tilapia Fish Noodles Fortified with Wolffia and the Production Method	Firadao Boonmalert, Sarin Chaovasuteeranon, Kunthira Salae, Dr.Najwa Yanya Santiworakun, Assoc. Prof. Dr. Winai Dahlan
9		Halal plant-based liquid egg	Dr. Kasinee Katelekha, Dr.Najwa Yanya Santiworakun, Firadao Boonmalert, Suwaibah Sulong, Assoc. Prof. Dr. Winai Dahlan
10		Microcapsule Powder from Cold-pressed Black Seed Oil and Its Production Method	Dr. Najwa Yanya Santiworakun, Assistant Professor Dr. Tipayanate Ariyapitipan, Associate Professor Dr. Winai Dahlan
11		Low Fat Milk Fortified with Microcapsule Containing Black Cumin Seed Oil	Assoc. Prof. Dr. Winai Dahlan, Asst. Prof. Dr. Tipayanate Ariyapitipan, Dr. Najwa Yanya Santiworakun, Netnapa Ontao
12		Functional Salad Dressing Fortified with Omega-6 and Its Process	Netnapa Ontao, Dr. Najwa Yanya Santiworakun, Hasam Chebako, Assoc. Prof. Dr. Winai Dahlan
13		Japanese Sweet Potato Based Custard Fortified with Omega-6 and Its process	Suwaibah Sulong, Netnapa Ontao, Dr. Najwa Yanya Santiworakun, Assoc. Prof. Dr. Winai Dahlan
14		Healthy Salad dressing forties with Functional Ingredients from Wolffia	Hasam Chebako, Dr.Najwa Yanya Santiworakun, Netnapa Ontao, Assoc. Prof. Dr. Winai Dahlan
15		Al-formulated Halal Taro crips	Dr. Kasinee Katelekha, Hasam Chebako, Suwaibah Sulong, Firadao Boonmalert, Sarin Chaovasuteeranon



HSC INNOVATION ZONE

No.	Group	Halal Innovation Product	Inventor					
16	Food	Sweetened margarine with a balanced omega fat ratio	Assist. Prof.Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan, Rinrapat Thitiratpokin, Chutimon Eamsrisub, Matichon Lokkamloe					
17		Omega fat-balancing sauce for stir-fried holy basil dish	Assist. Prof.Dr.Sukrit Sirikwanpong, Assoc. Prof. Dr. Winai Dahlan, Matichon Lokkamloe, Krittika Shunthornpokin, Papatwan Chujid, Usa Manyeunyong					
18		Ready to reconstitute protein fortified with microcapsule derived from black cumin seed oil	Dr. Najwa Yanya Santiworakun, Netnapa Ontao, Dr. Acharee Suksuwan, Assoc. Prof. Dr. Winai Dahla					
19	•	Marian Plum Jelly	Dr.Nureesun Mahamud, Firadao Boonmalert, Sarin Chaovasuteeranon, Dr.Najwa Yanya Santiworakun, Assoc. Prof. Dr. Winai Dahlan					
20	Test Kits	Rapid Test kit on Non-Halal Animals in Halal Food Products	Dr.Anat Denyingyhot, Theerarak Srinulgray, Pornpimol Mahamad, Arnakorn Ruangprach, Suwainah Sa-I, Tuanyasmin Saerae, Mongkol Vesaratchavest, Winai Dahlan, Suwimon Keeratipibul					
21		Porcine DNA Detection Kit	Dr. Pornpimol Mahamad, Assoc. Prof. Dr. Winai Dahlan, Sukanya So-audon, Saveeyah Kahong, Monrudee Khemtham, Assoc. Prof. Vanida Nopponpunth					



HALAL HEALTH SCIENCE

The **"Halal Scientist Competition & Healthcare Innovation"** organized by the Halal Science Center Chulalongkorn University, showcases cutting-edge projects in Halal health science by high school students. This annual competition began with training for project mentors, followed by workshops for students who advanced through the first round, and culminated in the Coaching & Incubation stage and the thrilling Final Pitching. The competition reflects the creativity and dedication of Thai youth in developing innovative scientific projects. This year, the following remarkable projects were selected to be presented at the Thailand Halal Assembly:

-"Fabrication of Lithium Disilicate Glass-Ceramic Crowns for Dental Restoration" by Satri Nonthaburi School, Nonthaburi.

- "Synthesis of Zinc Oxide Nanoparticles Using Bagasse Extract for Antibacterial Dishwashing Sponges" by Patanawittaya School, Yala.

- "Developing Application for Diabetic Retinopathy Classification from Retina Images Using Deep Learning" by the Demonstration School of Prince of Songkla University (Secondary Division), Pattani.

- "Gel patch for muscle relief pain from Samed Khao essential oil, Thung Talay Community" by Songkhla Islamic Foundation School, Songkhla.

- "The development of innovative possibilities for test kits for urinary tract stone disease Urinary screening stone test (USST)" by Thamwittaya Foundation School, Yala.



HALAL ROUTE WORKSHOP

Explore the **"Halal Route"** application – a revolutionary tool that is transforming and simplifying halal tourism, making it more accessible to everyone. This workshop will showcase its innovative features, reveal its potential, and highlight how it empowers businesses, travelers, and stakeholders within the global halal ecosystem.

Workshop Highlights:

- Keynotes on the vision and impact of the Halal Route application in halal tourism and ecosystem, its market potential, and the benefits to key stakeholders.

- Interactive session where participants can hands-on explore the app's functions and benefits.

-Q&A and Feedback to share your thoughts, ask questions, and contribute to shaping the future of halal tourism.



Event Details

Date: December 19, 2024 Time: 13:00 – 15:15 Location: Rifaee Room Join us to be part of this exciting journey into the future of halal tourism!



TENTATIVE CONFERENCE PROGRAM

	19 December 2024 (Thursday)	4 (Thursday)		20 December 2024 (Friday)	Friday)
Time (GMT +7)	Room-I (Grand Meroz Room)	Room-II (Rifaee Room)	ARCHWAY	Room-I (Grand Meroz Room)	АРСНИАУ
08:00 - 09:00	Partic	Participants Registration		Participants Registration	ation
06:00 - 00:60				IHSATEC2024; 17 th HASIB	IHSATEC2024; 17 th HASIB Poster session (3 min presentation + 2 min
09:30 - 10:00	Grand Opening Ceremony at Grand Meroz Room	r at Grand Meroz Room		Session-5: Halal Compliance with A New Frontier Food and Nonfood Innovation	Q&A) • Cluster 1: Business & Marketing, Social Science
					Cluster 2: Science, Technology, and Innovation
				Tea/Coffee Break	ak
10:00 -10:30	Exhibition visit by Chairman of Ceremony	irman of Ceremony	resent Viewi		
	Tea/Coffee Break	e Break			IHSATEC2024; 17th HASIB
10:30 - 11:00	Keynote Session Thailand Halal Trust and Confident with Als	ession d Confident with Als	n	Session 6: Oral Presentation (OP)	Poster session (3 min presentation + 2 min
11:00 -11:30	IHSATEC2024; 17 th HASIB			Science, Technology, and Innovation (8 min presentation + 2 min Q&A)	• Cluster 3: Science, Technology. and Innovation
11:30 - 12:00	Session 1: Advanced Power Als for Halal Trust				
12:00 - 12:30 12:30 - 13:00			Lunch and Dhuhr prayer	ır prayer	
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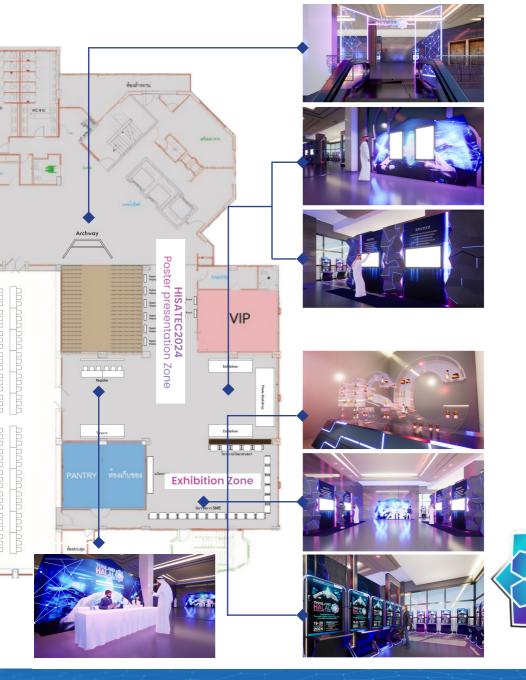


Friday)	АВСНМАУ	Academic Judging Committee Meetings								ry noe awards		ny			ence		ule.
20 December 2024 (Friday)	Room-I (Grand Meroz Room)			Lunch and Juniaat prayer	Session 7: Ecotoring Collaboration and	Establishing Academic Networks	between Thailand and GCC Countries: Exploring Partnerships and Technology Transfer Opportunities	Tea/Coffee Break	Award Ceremony	Award Ceremor	- Halal SMEs award • IHSATEC2024 awards / Junior Halal Science awards	Closing Ceremony		End of The Conference			*** Please scan the QR code to check the current schedule.
	АРСНИАУ	Poster Presentation Poster Viewing										the QR cod					
19 December 2024 (Thursday)	Room-II (Rifaee Room)	Halal Route Workshop	Hatal Route Workshop HASIB Hatal Route Workshop HASIB Session 1 "Halal Route O Hatal Thai Beauty "Tourism" HASIB "Intere of Hatal Thai HASIB "Intere of Hatal Thai HASIB "Intere of Hatal Thai HASIB "Interestive Workshop of aly, and the Hatal Route Application" + 2 min "Interactive Workshop of the Hatal Route Application" HASIB Ite Hatal Route Application" Itea/Coffee Break Itea HASIB Itea Itea Itea Itea Itea HASIB Itea Itea								*** Please scan t						
	Room-I (Grand Meroz Room)		IHSATEC2024; 17 th HASIB	IHSATEC2024; 17th HASIB	Session-3: Oral Presentation (OD)	Clair resentation (Cr) Science, Technology, and Innovation (8 min presentation + 2 min Q&A)	Tea/Coffee Break	IHSATEC2024; 17 th HASIB	Session-4:	Oral Presentation (OP) Science, Technology, and (8 min presentation + 2 min O&A)	Preparing for Welcoming Dinner		Maghrib prayer at Asiatique the Riverfront		emerican.		
	Time (GMT +7)		13:00 - 13:30	13:30 - 14:00 Halal Wellness and Beauty		14:00 - 14:30	14:30 - 15:00		15:00 -15:30		15:30 - 16:00	16:00 - 16:30	17:00 - 17:30	17:30 - 18:00	18:00 - 18:30	18:30 - 19:00	00.02 - 00.61









Toward Halal Trust Through Digital Technology 2AIs December 19-20,2024 at Al Meroz Hotel Bangkok

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ACCOMMODATION



Airport Rail Link - Ramkhamhaeng Station



Sports Authority of Thailand



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ICON SIAM



Suvarnabhumi Airport

Donmueang International Airport



Please scan the QR code to evaluation for The International Halal Science and Technology Conference 2024 (IHSATEC): 17th Halal Science Industry and Business (HASIB)









HASIB 2 Session 2 : Halal Wellness and Beauty

Overall Evaluation THA 2024



HASIB 1 Session 1 : Advanced Power Als for Halal Trust



HASIB 3 Session 5 : Halal Compliance with A New Frontier Food and Nonfood Innovation



HASIB 4 Session 7 : Fostering Collaboration and Establishing Academic Networks between Thailand & GCC Countries: Exploring Partnerships &Technology Transfer Opportunities



Halal Route Workshop Session 1 : Halal Route: Unlocking the Future of Halal Thai Tourism & Session 2 : Interactive Workshop of

the Halal Route Application



Oral Presentation THA 2024 (Academic Presentation)



Poster Exhibition THA 2024 (Academic Presentation)







ecember 19-20,2024 at Al Meroz Hotel Bangko



THE HALAL SCIENCE CENTER CHULALONGKORN UNIVERSITY

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