





Universiti Kuala Lumpur Kuala Lumpur-Malaysia

# 1ST INTERNATIONAL CONFERENCE ON TOURISM, MANAGEMENT AND TECHNOLOGY 2019

## **19TH AUGUST 2019**

UNIVERSITI KUALA LUMPUR BUSINESS SCHOOL

### PROGRAM INTINERARY

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TIME	VENUE	PROGRAM	
12.00pm to 1.00pm	Lobby	Registration of participants	
1.00pm to 3.00pm	Lobby	Poster Presentation	
	Room 1	Media and Technology in Tourism	
	Room 2	Technology and Management on Tourism	
	Room 3	Tourism Policy and Planning	
3.30pm to 4.30pm	1. Tourism Impact on Community Development by Dr. Sharina   Osman (UniKL)   2. Community-Based Homestay; Prospect and Challenges by   Prof. Dato' Dr. Che Musa Che Omar (UniKL)   3. Traditional Frigate Mackrerel (Auxis Thazard) processing as   Balinese local wisdom by Prof. Ir. Suranaya Pandit (Universi   WARDEWA)   4. The role of social capital to boost growth of SMEs in tourism sector in Bali by Dr. Putu Suyatna Yasa (Universitas WARDEWA)		
4.30pm to 5.00pm		Awards Ceremony Closing Ceremony Group Photo	
5.00pm to 5.30pm		Hi-tea and Networking Session	
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### **CONCURRENT SESSION**

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Venue	Name of Presenter	Title
	Dr.Rima Kusuma Ningrum, Prof. Dr. Dewa Putu Widjana	Learning model in the implementation of health and medical tourism courses
Lobby (Poster)	Dr. I Made Mardika	Implications of cultural policies on Balinese sculpture industry
	Dr. Luh Putu Sudini, Dr. I Nyoman Sujana	Impact of tourism on physical environment in Bali
	Dr. A.A. Gde Raka	The role of culture in the development of tourism in Bali
	Dr. A.A Rai Sita Laksmi	The management of community based sustainable tourist attraction in "Penglipuran" villa
	Dr. Ni Wayan Sitiari, Dr. Ni Made Wahyuri	The role of capabilities of customer relationship management as mediator of market orientation and business performance of the sector hotel in Bali
Room 1: Media and Technology in Tourism	Nurul Husna Binti Abd Hamid	The Impact of Instagram Towards Youth Purchase Intention
	Dr. I Wayan Budiartha, Dr. Ni Wayan Kasni, Dr. Made Susini	Techniques of translation applied in promoting tourism
	Muhammad Hafiz Sultan Seavudeen	Factor Influencing Purchase Intention on Online Shopping of The University Students
	Siti Harijah Binti Ramli	The satisfaction level of educational technology on student's learning process
	Farra Anis Adilla Binti Ab Malek	The factor that influence the customer intention to online business
Room 2: Technology and Managemen t on Tourism	NorHayati Jabarrudin	Factors Influencing Behavioural Intention To Use The E-Wallet Amongst Millennial In Kuala Lumpur
	Muhammad Farhan Bin Rosli	Factor Affecting Purchase Intention of Customers on Food Delivery Application
	Daniel Salleh Bin Mohd Ali	Customer Satisfaction on E-Hailing Services among Students in Klang Valley
	Dr. Mirsa Umiyati, S.S, M.Num	Building sustainable tourism hierarchical framework in linguistic perspective
	Nazrul Hakimi Bin Jalani	Measuring Customer Satisfaction of the user of "SETEL APPLICATION"
Room 3: Tourism Policy and Planning	Dr. Sheikh Muhammad Hizam	Managerial Engagement And Performance: The Mediating Role Of Organizational Commitment In A Malaysian Telecommunication Company
	Shamzani Affendy Mohd Din	Inhalable and respirable dust mass concentration on soiled inorganic artefacts at the National Museum Malaysia
	Shamzani Affendy Mohd Din	Assessment of the Spa Premises Spatial Organization towards Muslim Friendly Floments
	Dr. Simon Nahak, Dr. I Nyoman Budiarta	Legal protection against foreign investor in Bali
1913	Dr. Dra, Ni Wayan Kasni, M,Num	Revitalizing traditional culinary in supporting sustainable tourism

#### INHALABLE AND RESPIRABLE DUST MASS CONCENTRATION ON SOILED INORGANIC ARTEFACTS AT THE NATIONAL MUSEUM MALAYSIA

#### Shamzani Affendy Mohd Din<sup>1</sup>, Otuyo Muhsin Kolapo<sup>1</sup> & Rashidi Othman<sup>2</sup>

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#### Abstract

Particulate matter (PM) plays a crucial role in altering the air quality, human health and materials. PM does not only affect human health but damages the museum's artefacts in many ways such as paint and materials deterioration, metal corrosion, fading of dyes and soiling of stone rubber, and textile. The main aim of this research is to quantify the mass concentration of suspended particulate matter in terms of respirable and inhalable particles at outdoors, indoors, and exhibition boxes of the National Museum Malaysia. This research was conducted for 32 days (16 weekdays and 16 weekends). The main target exhibition boxes for this research were those containing inorganic-based materials such as metals, stones, and ceramics. In total, 12 sample stations were surveyed, this includes three exhibition boxes each from Gallery A and B, an indoor area of both Gallery A and B, lobby and three outdoor locations at the front entrance, rear entrance, and right-wing of the building. Cyclone sampler head and Casella 7-Holes were used to capture respirable and inhalable samples, respectively. Result revealed that most of the average mass concentration obtained in all sample stations were beyond limited guidelines stated by the Department of Safety and Health (DOSH) and Department of Environment (DOE). The average mass concentrations of inhalable dust sampled at the metal and ceramic exhibition box of Gallery A at weekdays were the highest with an average mass concentration value of 0.4688 mg/m<sup>3</sup>, which is about 213 % more than the required standards. However, lower values were obtained for the respirable particles, but they were found to still beyond standard DOE guidelines for PM<sub>10</sub>. The highest respirable particles were found at the ceramic exhibition box of Gallery A with 0.3788  $mg/m^3$  average mass concentration. The result of respirable dust to the total inhalable dust were 55.4 % and 59.7 % for weekdays and weekends, respectively. The concluding part highlights recommendations on ways to reduce the transfer PM into the indoor area of the museum to reduce soiling defects. DOE, DOSH, as well as the Ministry of Natural Resources and Environment (MONRE), can use the result of this research to come up with a procedure to reduce the effect of airborne particulate matter on the museum artefacts. Hence, reducing government expenses by reducing the total cost of cleaning procedure toward damaged artefacts. Additionally, this study is beneficial to conservationists, museum management and curators by enlightening them on ways to reduce the damaging effect caused by airborne particulate matter.

Keywords; Particulate Matter (PM), Mass Concentration, Inorganic Artefacts, Soiling defect