



Engineering Heritage Journal / Galeri Warisan Kejuruteraan (GWK)



ADDRESS OF PUBLISHER & EDITOR'S OFFICE

C-3A-15 Centrio Pantai Hillpark 59200 Kuala Lumpur,
Malaysia
Tel.: +60 327332657
Fax: +60 327332658

EDITORIAL STAFF:

Editor-in-Chief

Dr. Nastaein Qamaruz Zaman
School Of Civil Engineering,
Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal,
Pulau Pinang, Malaysia

Associate Editors

Dr. Fadzli Mohamed Nazri
School Of Civil Engineering, Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal, Pulau Pinang, Malaysia

Dr. Nur Sabahiah Abdul Sukor
School Of Civil Engineering, Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal, Pulau Pinang, Malaysia

Dr Lau Woe Jye
Advanced Membrane Technology Research Centre
(AMTEC),
Faculty of Petroleum and Renewable Energy Engineering,
Universiti Teknologi Malaysia, 81310 Skudai, Johor.

Dr Hatijah Basri
Fakulti Sains, Teknologi Dan Pembangunan Insan
Universiti Tun Hussein Onn Malaysia
Batu Pahat Johor

Frequency : Bi-annual (2 issue per year)

ISSN: 2521-0904 (Print)
ISSN: 2521-0440 (online)

Price:

Single issue: 50 MYR
Price for abroad
Single issue: 25 USD

Web:

<https://www.zibelinepub.com>

E-mail:

info@zibelinepub.com

Contents

	Editorial	
1	ANALYSIS OF PASSENGERS' ACCESS AND EGRESS CHARACTERISTICS TO THE TRAIN STATION	1-4
2	INFLUENCE OF SEED LOADS ON START UP OF MODIFIED ANAEROBIC HYBRID BAFFLED (MAHB) REACTOR TREATING RECYCLED PAPER WASTEWATER	5-9
3	COMPARISON BETWEEN MEASURED TRAFFIC NOISE IN KLANG VALLEY, MALAYSIA AND EXISTING PREDICTION MODELS	10-14
4	VALIDATION OF MICROSCOPIC DYNAMICS OF GROUPING PEDESTRIANS BEHAVIOR: FROM OBSERVATION TO MODELING AND SIMULATION	15-18
5	FINITE ELEMENT ANALYSIS ON LATERAL TORSIONAL BUCKLING BEHAVIOUR OF I-BEAM WITH WEB OPENING	19-22
6	LITERATURE REVIEW FOR THE DEVELOPMENT OF DIKE'S BREACH CHANNEL MECHANISM CAUSED BY EROSION PROCESSES DURING OVERTOPPING FAILURE	23-30

Editorial

The prime objective of the Galeri Warisan Kejuruteraan (GWK) is to publish scientific and technical research contributions in the fields of civil and environmental engineering. GWK provide a medium by means of which fruits of these researches may be brought to the attention of world's civil communities. In particular regard to the latter, the environmental preservation of natural media (soils and rocks) and the mitigation of soil pollutions, natural and technological risks are now not only major societal challenges, but they are also the source of scientific and technical developments that could be extremely beneficial. GWK focuses on all aspects of civil and environmental engineering and will accept the original research contributions (previously unpublished) from all areas of established engineering disciplines. The papers may be theoretical, experimental or both. Submissions are acceptable in both Bahasa Malaysia and English. We look forward to receive your scholarly work for publication in GWK.

Scientific Board

Editor In Chief

Dr. Nastaein Qamaruz Zaman
School Of Civil Engineering,
Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal,
Pulau Pinang, Malaysia

Associate Editor

Dr. Fadzli Mohamed Nazri
School Of Civil Engineering, Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal, Pulau Pinang,
Malaysia

Dr. Nur Sabahiah Abdul Sukor
School Of Civil Engineering, Universiti Sains Malaysia,
Engineering Campus, Nibong Tebal, Pulau Pinang,
Malaysia

Dr Lau Woe Jye
Advanced Membrane Technology Research Centre
(AMTEC),
Faculty of Petroleum and Renewable Energy
Engineering,
Universiti Teknologi Malaysia, 81310 Skudai, Johor.

Dr Hatijah Basri
Fakulti Sains, Teknologi Dan Pembangunan Insan
Universiti Tun Hussein Onn Malaysia
Batu Pahat Johor

Editorial Members

Assoc. Prof. Aeslina Abdul Kadir
Faculty of Civil and Environmental Engineering,
Universiti Tun Hussein Onn (UTHM)

Dr. Noor Faizah Fitri Md. Yusof
School of Civil Engineering, Universiti Sains Malaysia

Assoc. Prof. Norhayati Abd. Hamid
Faculty of Civil Engineering, Universiti Teknologi Mara

Dr. Nor Hayati Abd Ghafar
Faculty of Civil and Environmental Engineering,
Universiti Tun Hussein Onn (UTHM)

Assoc. Prof. Fatimah De'nan
School of Civil Engineering, Universiti Sains Malaysia

Dr. Mohd Ashraf Mohamad Ismail
School of Civil Engineering, Universiti Sains Malaysia

Dr. Farid Ezanee Mohammad Ghazali
School of Civil Engineering, Universiti Sains Malaysia

Assoc. Prof. Fadzil @ Padzil Hassan
Faculty of Architecture Planning and Surveying,
Universiti Teknologi Mara

Dr. Mohd. Remy Rozainy Mohd Arif Zainol
School of Civil Engineering, Universiti Sains Malaysia

Engineering Heritage Journal / Galeri Warisan Kejuruteraan (GWK)



Assoc. Prof. Mohd Sanusi S. Ahamad
School of Civil Engineering, Universiti Sains Malaysia

Prof. Datin Dr. Maryati Mohamed
Universiti Tun Hussein Onn Malaysia

Professor Dr. Mohd. Razman Salim
Universiti Teknologi Malaysia

Associate Professor Dr. Wardah Tahir
Universiti Teknologi Mara

Professor Ir. Dr. Amir Hashim Mohd Kassim
Universiti Tun Hussein Onn Malaysia

Professor Ab Aziz Abdul Latiff
Universiti Tun Hussein Onn Malaysia

Associate Professor Dr. Tan Lai Wai
Universiti Tun Hussein Onn Malaysia

Fatehah Mohd Omar
Universiti Sains Malaysia