

MALAYSIAN JOURNAL OF CIVIL ENGINEERING

Published by Faculty of Civil Engineering, Universiti Teknologi Malaysia

Submission of manuscripts should be addressed to:

Editor

Malaysian Journal of Civil Engineering

Faculty of Civil Engineering

Universiti Teknologi Malaysia

81310 UTM, Skudai

Johor, Malaysia

Tel: (6) 07-5531508 Fax: (6) 07-5531575

E-mail: mjce@utm.my or zulyusop@utm.my

EDITORIAL COMMITTEE

Zulkifli Yusop, Assoc. Prof., Dr., *Chief Editor*

Ayob Katimon, Ir. Dr., *Co-editor*

Wahid Omar, Assoc. Prof., Ir., Dr.

Abd. Latif Saleh, Assoc. Prof., Dr.

Md. Abul Mansur, Prof., Dr.

Arham Abdullah, Dr.

Redzuan Abdullah, Dr.

Johan Sohaili, Dr.

Azmi Aris, Dr.

Nurly Gofar, Dr.

Mohd Rosli Hainin, Dr.

Nor Azah Binti Mohd Johan, *Editorial Assistant*

EDITORIAL ADVISORY BOARD

Mohd. Zulkifli bin Tan Sri Mohd. Ghazali, Datuk, Prof., Ir. Dr.

Universiti Teknologi Malaysia

Wahid Omar, Dato', Prof. Ir. Dr.

Public Work Department, Kuala Lumpur, Malaysia

Hasanan Md. Nor, Prof., Ir., Dr.

Faculty of Civil Engineering, Universiti Teknologi Malaysia

Van-Thanh Van-Nguyen, Prof., Dr.

Department of Civil Engineering and Applied Mechanics, McGill University, Montreal, Canada

Gue See Sew, Ir., Dr.

Gue & Partners Sdn. Bhd., Kuala Lumpur, Malaysia

Wan Hamidon Wan Badaruzzaman, Prof., Ir., Dr.

Department of Civil and Structural Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia

Azni Idris, Prof., Dr.

Department of Chemical and Environmental Engineering, Faculty of Engineering, Universiti Putra Malaysia

Mohd Nor Desa, Dr.

Regional Humid Tropics Hydrology and Water Resources Centre for Southeast Asia and the Pacific, Kuala Lumpur, Malaysia

Radin Omar Radin Suhaidi, Prof., Ir., Dr.

Malaysian Institute of Road Safety, Serdang, Selangor

R. Narayanan, Prof., Dr.

Formerly UMIST, United Kingdom

CONTENTS

- Electroosmotic Flows and Electromigrations during Electrokinetic processing of Tropical Residual Soil 74 - 88
Kamarudin Ahmad, Khairul Anuar Kassim, Mohd Raihan Taha
- Analysis of Concrete Beams with Circular Web Openings Using Strut-and-Tie Models 89 - 98
Md. Abul Mansur, Kiang-Hwee Tan, W. Weng
- Strength and Behaviour of Lightweight Ferrocement-Aerated Concrete Sandwich Blocks 99 - 108
Noor Ahmed Memon, Salihuddin Radin Sumadi, Mahyuddin Ramli
- Polyhydroxyalkanoates (PHAs) Production from Aerobic-Mixed Cultures 109 - 128
Mohd. Fadhil Md. Din, Zaini Ujang, Mark van Loosdrecht, Salmiati Muhd. Yunus, Mohd. Azlan Ahmad
- Condition Assessment of Marine Structures Using Functional Condition Index Approach 129 - 138
Sallehuddin Shah Ayop, Rosli Mohamad Zin, Mohammad Ismail
- Enhancing Suspended Solids Removal from Wastewater Using Fe Electrodes 139 - 148
Fadhil Othman, Johan Sohaili, Mohd Faiqun Ni'am, Zulfa Fauzia

The contents of the published articles do not necessarily represent the views of the Editorial Committee and the Faculty of Civil Engineering, Universiti Teknologi Malaysia.
