

thebullet-in

1st edition / January 2017 "aims for new innovations"



CONGRATULATIONS ISCEE 2016 !!!

From the 5th to 6th December 2016, the Faculty of Civil and Environmental Engineering (FKAAS) successfully held an International Symposium on Civil and Environmental Engineering (ISCEE 2016) at Novotel Hotel, Malacca. This symposium is a joint effort by three faculty research centres namely the Micro-pollutant Research Centre (MPRC), the Smart Driving Research Center (SDRC) and the Jamilus Research Centre (JRC) and involved three parallel sessions as follows:

1. International Conference on Sustainable Environment and Water Research - ICSEWR, 2016 - MPRC
2. International Conference on Sustainable Infrastructure Engineering, ICSIE, 2016-SDRC
3. International Conference on Sustainable Construction and Structures, ISuCOS 2016-JRC

This symposium is an excellent effort towards developing and improving the quality of research of the faculty as well as the university, along with global industrial development. It is also in accordance with the vision and mission of FKAAS to become an international knowledge hub specialising in civil and environmental engineering. In addition, ISCEE 2016 provides the perfect platform where academia and industry from all around the world meet to discuss the latest issues, create networking opportunities, present research papers and gain new knowledge. These encounters and experiences will undoubtedly improve the quality of research among scientists and researchers at an international level. ISCEE 2016 managed to gather numerous academic staff and researchers who come from all parts of the

world. Out of 217 research papers presented at the symposium, 177 were from local institutions (57 research papers by UTHM staff, 59 research papers by UTHM students and 61 research papers from other local institutions) while 40 originated from 7 different countries which involved Indonesia, Japan, the Netherlands, Kuwait, UAE and India.

ISCEE 2016 introduced a keynote speaker who has vast experience in the field of civil engineering, Professor Dr Ahmad Tarmizi Abd Karim, who is also the Deputy Vice Chancellor of Development and Facilities, UTHM. Professor Dr Ahmad represented ICSWER 2016, Professor Dr Rosli Hainin from Universiti Teknologi Malaysia represented ICSIE 2016 whereas Professor Dato Ir Dr Mohd Saleh Jaafar from Universiti Putra Malaysia who is also an Adjunct Professor of FKAAS represented ISuCOS 2016. ISCEE 2016 also introduced a representative from overseas, Professor Dr. Atsushi Koike from Kobe University, who is an expert in the field of transportation and railway engineering. Additionally, ISCEE 2016 was officiated by the Chief Secretary of the Ministry of Works, Y.Bhg Dato' Sri Zohari Hj Akob.

On the next day, ISCEE 2016 held a plenary session among industry experts who discussed issues pertaining to sustainable construction. More than 300 participants attendent the session. The panelists involved were Datuk Ir(Dr) Hj Adanan Mohamed Hussain , former Director of JKR Malaysia, Prof Ir Dr Amir Hashim Mohd Kassim, Ir Shamrul-Mar Shamsuddin and Prof Dr Mohd Idrus Masirin who played the role of the moderator during the session.

FOREWORDS

HEAD OF JRC



Assalamualaikum Warahmatullahi Wabarakatuh and warmest greetings.

Alhamdulillah, all grace to Allah SWT for this opportunity to leave some opening remarks in this "The **bullet-in**". Thank you and congratulations to the all committee members for their efforts which are in accordance with the latest changes and developments at our faculty and university.

"The **bullet-in**" is one of its kind as it reports the research activities for all three Centres of Research (CoR) which are JRC, MPRC and SDRC. "The **bullet-in**" will be published periodically - three times a year and will be led by each CoR and for this first appearance - "the **bullet-in**" / 1st edition / Jan 2017 is led by JRC.

With the existence of "The **bullet-in**", CoRs can now become more advance and highly competitive in this IT era.

To sum up, I would like to welcome all FKAAS and university members to give us feedback in order to make this bulletin more interactive and informative.

Wassalam

Thank you.
Shahiron Shahidan

CHIEF EDITOR

Alhamdulillah,
Welcome to the inaugurals issue of "The **bullet-in**" - a place where compilation of the research activities for all three Centres of Research (CoR) which are JRC, MPRC and SDRC meets. "The **bullet-in**" gives a fresh, alternative view of the current research affairs, both inside and outside of our faculty and covering all diverse research categories done by our faculty members.
As a team we have put many hours of work



into this new venture and we all hope that it could be beneficial to everyone and acts as an inspiration to all to come out with more great researches, publications and professional ventures in the future. When we embarked on this journey we decided that we wanted all the faculty members to be involved as much as possible in every publications and if any of you great researchers have any suggestions or articles to share, you may submit it direct to me - you know where to find me...

Regards,
Muhamad Hanafi Rahmat

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PUBLICATIONS, CITATIONS AND H-INDEX OF JRC- MEMBERS

Figures 1 to 4 represent the analysis of publications for the Jamilus Research Center (JRC) – Sustainable Construction up to the year of 2016. In 2016, the publications for JRC members increased dramatically (167 Publications) from 2015 by approximately 82% compared to year 2013 and 2014 (Figure 1).

In addition, the report also shows the top 10 JRC members up to the year of 2016 in terms of publications and citations. Figure 3 and Figure 4 shows the ranking for publications and citations respectively. Prof Ir Dr Abdul Aziz Abdul Samad tops both rankings with a grand total of 41 publications and 218 citations respectively.

Publications 2013-2016

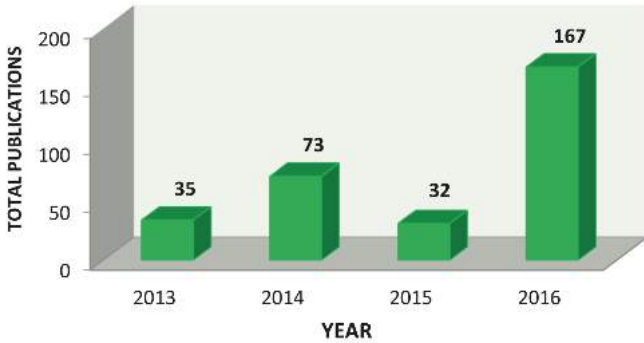


Figure 1 : Number of publications from 2013-2016

Total Citations 2013 - 2016

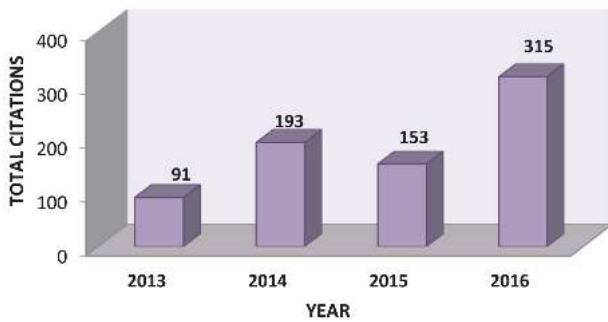


Figure 2 : Number of citations from 2013-2016

Figure 2 indicates the total citation for all JRC members from year 2013 up to year 2016. In 2014, the total number of citations increased by approximately 102 citations and decreased slightly by 40 citations in year 2015. In 2016 however, the total number of citations more than doubled which resulted in a grand total of 315 citations.

H- INDEX JRC MEMBERS 2016

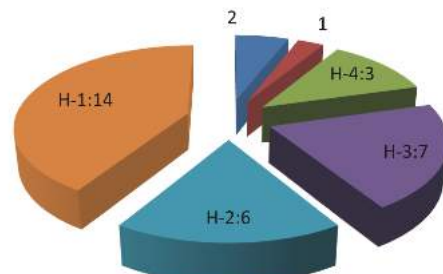


Figure 5 : H-Index

Figure 5 presents the H- Index by Scopus for JRC members in the year 2016. Currently, all JRC members are aiming for increasing H-Index figures. Table 1 shows the details and list of members with H-index .

From Figure 5, it is clear that H-index 1 takes the lead. It indicates that all JRC members are growing their citations and H-index figures at a positively proportional rate. The total H-index values increase from time to time due to the increasing of number of citations. At the moment, 35 out of 73 members in JRC achieved the H-Index values this year compared previous years where only 21 members achieved the H-index. It is highly anticipated that by 2017, all JRC members will be able to increase their H-index values.

Table 1 : H-Index

STAFF	H-INDEX
PROF IR DR ABDUL AZIZ ABDUL SAMAD	6
ASSOC PROF DR A S M AWAL	6
PROF DR ISMAIL BIN ABDUL RAHMAN	5
ASSOC PROF DR MOHD IRWAN JUKI	4
ASSOC PROF DR DAVID YEOH ENG CHUAN	4
DR SHAHIRON SHAHIDAN	4
ASSOC PROF DR MOHD HAZIMAN WAN IBRAHIM	3
ASSOC PROF DR NORIDAH MOHAMAD	3
DR NORWATI JAMALUDDIN	3
DR MOHD HILTON BIN AHMAD	3
DR RIDUAN BIN YUNUS	3
DR TONG YEAN GHING	3
ASSOC PROF DR ABD HALID BIN ABDULLAH	3
DR GOH WAN INN	2
DR FAISAL BIN SHEIKH KHALID	2
DR SASITHARAN A/L NAGAPAN	2
DR SITI HIDAYAH BINTI ABU TALIB	2
ASSOC PROF DR ZAINAL ABIDIN BIN AKASAH	2
DR HAZRUL BIN ABDUL HAMID	2
ASSOC PROF DR NOOR YASMIN BINTI ZAINUN	1
ASSOC PROF DR LOKMAN HAKIM BIN ISMAIL	1
DR ZAINORIZUAN MOHD JAINI	1
DR NORASHIDAH ABDUL RAHMAN	1
DR SITI RADZIAH ABDULLAH	1
DR SHAHRUL NIZA BIN MOKHATAR	1
DR NOORWIRDAWATI ALI	1
DR NICKHOLAS ANTING ANAK GUNTOR	1
PN NOOR AZLINA ABDUL HAMID	1
PN TUAN NORHAYATI TUAN CHIK	1
EN AHMAD FAHMY BIN KAMARUDIN	1
PN SHARIFAH SALWA BINTI MOHD ZUKI	1
DR RAFIKULLAH BIN DERAMAN	1
EN ISHAM BIN ISMAIL	1

PUBLICATIONS UP TO 2016

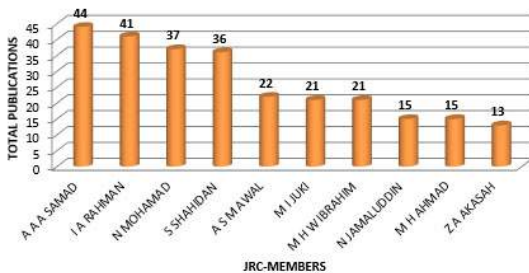


Figure 3 : JRC Members' Ranking in terms of Publications

JRC Ranking Citation up to 2016

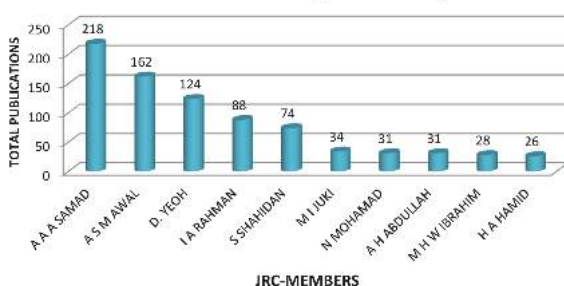


Figure 4 : JRC Members' Ranking in terms of Citations

AN HONORARY VISIT TO TAN SRI IR (DR) JAMILUS MD HUSSIN'S OFFICE



A commemorative photo with Tan Sri IR (Dr) Jamilus Md Hussin with the UTHM representatives

On the 4th January 2017, an honorary visit was made by the Jamilus Research Centre (JRC), Faculty of Civil and Environmental Engineering (FKAAS), which was led by the Deputy Vice Chancellor of Research and Innovation, Professor Dr Ruzairi Abd Rahim and the Dean of FKAAS, Associate Professor Dr Abdul Halid Abdullah, Associate Professor Dr Mohd Haziman Wan Ibrahim (Timbalan Dekan (AA)), Dr Nor Azizi Yusoff (Management Director UHSB), Dr Shahiron Shahidan (Head of JRC) and Dr Nor Haslinda Abas, to Tan Sri Ir (Dr) Jamilus Md Hussin's office at Wisma KLIA Holdings, Bandar Baru Bangi, Selangor. The purpose of this visit is to celebrate JRC's 5th anniversary ijn 2017 and to present JRC's 5-year achievement since its establishment. Since its establishment, JRC has achieved many milestones in terms of publication, research, innovation, tests and consultation. All these successes show that JRC is rapidly developing and is able to compete with other centres of research.

During the visit, Tan Sri suggested that FKAAS and JRC place more focus in the field of Industrialised Building System (IBS) and Building Information Modeling (BIM) compared to other Malaysian Technical University Networks (MTUN). There is a high potential for reseach in IBS, for instance, where the production of universal joints to solve problems or leaking issues (especially in washrooms) for structures which use precast concrete. Tan Sri encouraged JRC members to connect to the industry in order to identify the problems which can be turned into research projects. To illustrate, many concrete materials which are available right now are often not economical. For example, Glass Fibre Reinforced Concrete (GFRC) which is often often used as building facades requires an exorbitant cost. Furthermore, Tan

Sri also suggested JRC to cooperate with DOSH (JKKP) to solve safety issues in the construction sector through the design-for-safety (Dfs) concept which has already been implemented in Singapore. On behalf of Premier Holdings, Tan Sri also agreed to collaborate with JRC to conduct short-term courses such as Project Management dan Railway Engineering for the diploma specialist program at KLIA College. On the whole, Tan Sri was very satisfied with JRC's achievements and approved the research clusters under JRC. It is Tan Sri's vision to make JRC one of the most excellent and competitive research centres in the region.

During the visit, the management director of UHSB also presented the progress of a collaboration between the government as well as the Japanese industry which is expected to make a visit to UTHM early in March 2017. Besides that, he also stressed that proactive measures are required in order to generate income for the university through the close collaboration between UTHM and its subsidiaries to ensure that the university continues to operate smoothly in the face of economic challenges. Based on its latest achievements, JRC and the Faculty of Civil and Environmental Engineering have contributed their expertise immensely in terms of consultation, civil engineering tests, seminars as well as professional courses. It is hoped that this excellence will be continued in developed a strong university workforce which can subsequently contribute positively to the nation. To sum up, this visit opened up new horizons especially in terms of structured positive initiatives between JRC, UTHM and UHSB. It is hoped that efforts like this will bring a positive impact to UTHM and the local community.

SUMMARY OF MPRC ACHIEVEMENTS IN 2016

1. Congratulation to Dr. Radin Maya Saphira Radin Mohamed for appointment as the new Head of MicroPollutant Research Centre starting from 1 January 2017 until 31 December 2018.

2. Congratulations to Assoc. Dr. Zawawi Daud on his successful to secure endowment for RM600,000 from Living Micro Corporation Sdn. Bhd. The event was took place at UTHM on 27 October 2016. The endowment was given in the form of machineries and will boost R&D activities in various field namely, animal feedstock, effective microbes in water treatment and others.

3. Congratulations to all MPRC members on the achievement for publications in Scopus (2016), H index (Scopus) and total of citations in 2016 (Scopus).

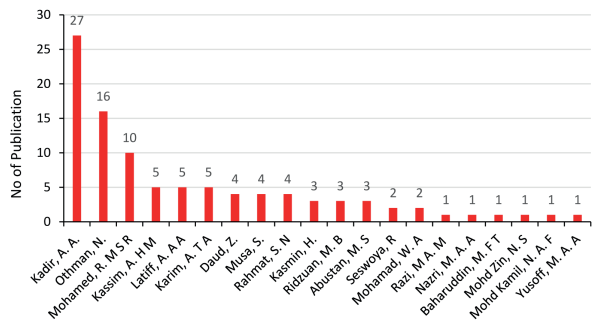


Figure 1: Total of publications indexed by Scopus in 2016

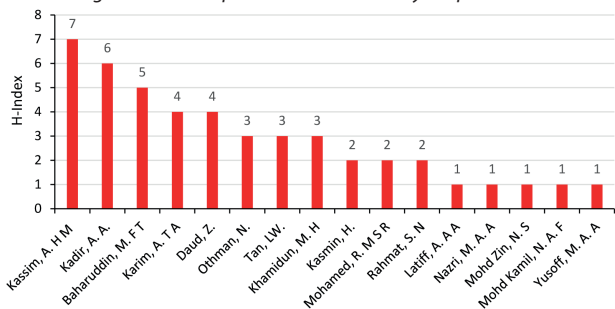


Figure 2: H-Index (Scopus)

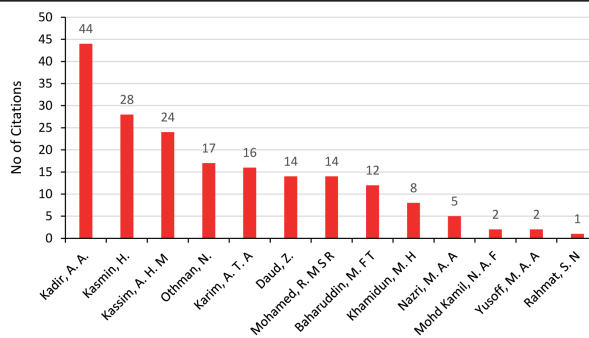


Figure 3: Total of citations in 2016 (Scopus)

4. On 11 October 2016 a meeting was held among UTHM (represent by MPRC & ATC), Kooridor Utara Malaysia and Ingenieur Bersekutu Sdn. Bhd at Kooridor Utara Malaysia office, Cyberjaya. The meeting is on Lembah Chuping Development Project.

5. MPRC joint a Training program hosted by FTK. The GE batch 1/2016 program by Johor Petroleum Development Corporation (JPDC) and UTHM was held on 20-28 October 2016. The activity designed for environment section following Training Standard and Specification provided by UTHM to JPDC. Six lecturers and two assistant engineers involved in the training. 50 UTHM students from several backgrounds of engineering and technology joint in the training. This training provide value added to UTHM students by getting fundamental knowledge about oil and gas working area. The training was funded by Johor State Government.

6. A meeting among MRPRC members was held on 31 October 2016. The main agenda for this meeting is to discuss on grant application from Johor Petroleum Development Corporation (JPDC). A few areas were pointed out in the meeting. It is advised that the proposal should be prepared for a duration of one year with a maximum budget of RM50,000

CONGRATULATIONS DR RADIN MAYA SAPHIRA!!!

Technically
Above The Rest



Universiti Tun Hussein Onn Malaysia



Sekalung Tahniah

Diucapkan Kepada
**Dr. Radin Maya Saphira
Radin Mohamed**

Di atas pelantikan sebagai
**Ketua Pusat
MicroPollutant Research Centre**



A VISIT TO THE UNIVERSITY OF HAWAI'I BY DR JOE

It was just about his appointment, head of Smart Driving Research Center (SDRC) have flown to visit Department of Civil and Environmental Engineering, University of Hawai'i at Manoa, Hawai'i, U.S.A., 1st – 2nd September, 2016. Warmly welcoming compliments from the chair of Department was really appreciated. Prof. Dr. Panos D. Prevedouros is Department chair for quite long. He and his assistant, Dr. Guohui Zhang have spent time to accompany head of sdrC to see around the campus.



Dr. Guohui Zhang, Dr.-Ing. Joewono Prasetijo and Prof Dr. Panos D. Prevedouros

Head SDRC have also opportunities to visit laboratories provided in the Department of Civil and Environmental Engineering, such as highway materials laboratory and traffic analysis laboratory.



Dr.-Ing. Joewono Prasetijo have spent sometime of discussion with some of postgraduate students who are under the supervision of Prof. Dr. Panos D. Prevedouros.

The Department of Civil and Environmental Engineering, University of Hawai'i at Manoa, U.S.A. are welcome for any joint cooperation and research. Currently, SDRC and Dr. Guohui Zhang are publishing joint paper works: "Performance Level of Road Geometric Design Based on Motorcycle – Cars Linear Speed Profile" which will be published under Sustainable Civil Infrastructures, Springer. Another paper work as joint research between SDRC – Ruhr Universität Bochum, Germany - University of Hawai'i is on preparation for publication.

THE 19TH INTERNATIONAL SYMPOSIUM OF FSTPT

It was started in 2015, UTHM (Dr.-Ing. Joewono Prasetijo) was one of the special (foreign) member for Indonesian Inter-University Transportation Studies Forum (FSTPT). The forum would be a feasible stage to discuss among the transportation expertise from Indonesia and Malaysia. UTHM is the 129th of total member of 137 universities (until October 2016).

The current event International Symposium was 19th Indonesian Inter-University Transportation Studies Forum at the Universitas Islam Indonesia, 11 – 13 October 2016, Yogyakarta. SDRC have presented a research paper: "Critical Speed Prediction at Non-priority Intersection under Mixed Traffic Conditions".



SDRC is the 129th member of FSTPT

“ROAD SAFETY STRATEGIC PLAN 2016”



NBOS Cluster of Road Safety at Sri Gading Parliament

There was a prestigious event since Jabatan Keselamatan Jalan Raya (JKJR) Malaysia and Office of YB. Vice Minister of Transport have invited SDRC UTHM to join the workshop on PENYEDIAAN PELAN STRATEGIK KESELAMATAN JALAN RAYA PERINGKAT PARLI-MEN at 14 – 15 October 2016 in Batu Pahat. SDRC was one of several Government agencies to join the workshop such as JPJ, MIROS, JKR, Police, USM and ADUN Sri Gading. The list of agencies were the member of NBOS cluster of Road Safety at the Sri Gading Parliament which is lead by Prof. Dr. Ahmad Farhan Mohd Sadullah.

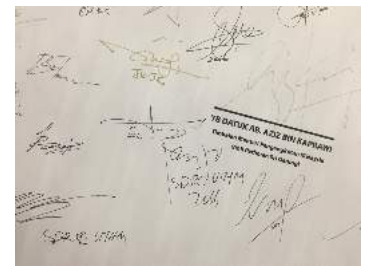
NBOS Cluster of Road Safety at Sri Gading Parliament would have come up with several strategies of improving safety especially at the area of Sri Gading. The strategies were considered as the base line and foundation of the safety “Outputs”. YB was willing to open and close the workshop sessions. There will be further discussion for another workshop of “Implementation

LAUNCHING CEREMONY OF NBOS ROAD SAFETY CLUSTER

SDRC member were invited to the MAJLIS PELANCARAN SEDUNIA MEMPERINGATI MANGSA KEMALANGAN JALAN RAYA DAN MAJLIS PELANCARAN NBOS KLUSTER KESELAMATAN JALAN RAYA PERINGKAT PARLIMEN at 19th November 2016 in Batu Pahat.

SDRC have not only invited as a guest but also one of the contributors and members of NBOS Cluster of Road Safety for Sri Gading Parliament. The purpose of this Majlis would be to commemorate the victims of road accidents all over the world in every of 20th November.

Opening speech was given by YB Vice of Ministry of Transport, Datuk Ab Aziz bin Kaprawi and followed with several activities such short walk surrounding Batu Pahat region.



Opening speech was delivered by YB Datuk Ab Aziz bin Kaprawi

LECTURE SERIES BY DR WESAM AHMED AL MADHOUN

SDRC Lecture Series – by Associate Prof. Dr. Wesam Ahmed Al Madhoun

SDRC have succeeded in conducting a Lecture Series at 29th November 2016 by having Dr. Wesam Ahmed Al Madhoun who gave a talk on “Traffic Emission Trends and Assesment Related Low Carbon Strategy: Malaysia and Palestine Experiences”.

Dr. Wesam currently is a representative of Islamic University of Gaza, Palestine. He has an excellent experiences through out the world of academics. He is also affiliate researcher of Massachusetts Institute of Technology, U.S.A.

Since the lecture relevant to the SDRC concerns of traffic, transport and pollutions, therefore, it was interested for number of students and lecturers. The students seems enthusiastic by asking several questions on relevant study and most questions were coming from postgraduate students. It was also a great pleasure to have Dean of the faculty to give brief of opening session. Discussion and presentation were start at 9.30 am and completed at about 13.00 pm.