



**Name** : Mohd Khairi bin Abu Husain  
**Date of Birth** : 30 April 1982  
**Nationality** : Malaysian  
**Marital Status** : Married with 3 children  
**Home Address** : No. 14 Jalan Tanggilan P11/28, Presint 11, 62300 Putrajaya, MALAYSIA  
 : Tel: +603 8861 8130 (Home) / +601 9368 2493 (Mobile)

**Corresponding Address** : UTM RAZAK School of Engineering and Advanced Technology  
 Level 7, Menara Razak, Universiti Teknologi Malaysia  
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**ACADEMIC QUALIFICATION**

2008 - 2011 : **PhD in Offshore Engineering**  
 University of Liverpool (United Kingdom)  
 Projects undertaken: Efficient (Simulation) Methods for Derivation of Probabilistic Properties of Offshore Structural Response Due To Random Wave Loading

2004 - 2007 : **MEng (Hons) in Civil and Environmental Engineering**  
 University of Liverpool (United Kingdom)  
 Projects undertaken: Determination of the 100-year Waveheight for the Forties Field in the North Sea

2000 - 2003 : **Diploma in Civil Engineering**  
 Universiti Teknologi Malaysia (Malaysia)

**AWARDS AND HONORS RECEIVED**

Feb 2018 : **Gold Medal Award**  
 The 17<sup>th</sup> International Expo on Inventions and Innovations  
 Malaysia Technology Expo 2018, Malaysia

May 2017 : **Excellent and Appreciation Award 2016**  
 The Excellent and Appreciation UTM 2017  
 Universiti Teknologi Malaysia, Malaysia

March 2017 : **Scholarship Recipient for SAKURA Exchange Program in Science**  
 Japan Science and Technology Agency, Japan

March 2017 : **Silver Medal Award**

December 2016	:	UTM Razak School Poster Day Competition Universiti Teknologi Malaysia, Malaysia <b>Best Teaching Lecturer Award</b> The Excellent and Appreciation UTM Razak School of Engineering and Advanced Technology 2017 Universiti Teknologi Malaysia, Malaysia
October 2016	:	<b>Silver Medal Award</b> The 18 <sup>th</sup> Industrial Art & Technology Exhibition (INATEX) 2016 Universiti Teknologi Malaysia, Malaysia
January 2008	:	<b>Scholarship Recipient for PhD Program</b> Ministry of Higher Education, Malaysia
July 2007	:	<b>Brigadier Parkman Prize</b> The University of Liverpool, United Kingdom
July 2007	:	<b>Hele-Shaw Prize</b> The University of Liverpool, United Kingdom
July 2006	:	<b>Concrete Society (North West Region) Prize</b> University of Liverpool, United Kingdom
September 2004	:	<b>Scholarship Recipient for Master Degree Program</b> Public Service Department, Malaysia
June 2002	:	<b>Dean Award</b> Universiti Teknologi Malaysia, Malaysia

#### **PROFESSIONAL EXPERIENCE**

Jan 2018 – present	:	<b>Managing Director</b> ACTS Smart Solutions Sdn Bhd (UTM's registered spin-off company) Universiti Teknologi Malaysia, Malaysia
Jan 2017 - present	:	<b>Research Fellow</b> UTM Ocean Thermal Energy Centre (UTM OTEC) Universiti Teknologi Malaysia, Malaysia
Oct 2012 - present	:	<b>Senior Lecturer</b> UTM Razak School of Engineering and Advanced Technology Universiti Teknologi Malaysia, Malaysia
Mar 2014 - Feb 2015	:	<b>Structural Engineer</b> (Industrial Attachment) MMC Oil & Gas Engineering Sdn Bhd, Malaysia
Sep 2007 - Sep 2012	:	<b>Lecturer</b> Kolej Sains dan Teknologi Universiti Teknologi Malaysia, Malaysia
Feb 2008 - Jan 2011	:	<b>Teaching Assistant / Lab Instructor</b> University of Liverpool, United Kingdom
Jan 2003 - Jun 2003	:	<b>Civil Construction Site Supervisor</b> (Industrial Attachment) IBSUL Holding Sdn Bhd, Malaysia

#### **JOURNAL EDITOR/EDITORIAL/ADVISORY PANEL**

1. Editorial Board Member for the 6<sup>th</sup> International Graduate Conference on Engineering, Science and Huminity (IGCESH2016)
2. Editorial Board Member for the 2<sup>nd</sup> National Workshop on Ocean Energy 2016 Proceedings

3. Panel Reviewer of Jurnal Teknologi, UTM Publisher (2014) (Scopus Indexed)
4. Editorial Board Member for the International Conference in Engineering Business Management 2014 Proceeding (ICEBM2014)
5. Editorial Board Member of International Conference on Robust Quality Engineering 2013 Proceeding, (ICRQE2013)

## **ADMINISTRATIVE EXPERIENCE**

### **Faculty Level**

- |                     |   |   |
|---------------------|---|---|
| June 2017           | : | <p><b>Panel Reviewer of Research Proposal Evaluation</b><br/> Fund: Dana Penyelidikan UTM Razak School 2017<br/> Proposal Title: Confine Space Risk Assessment Practices in Malaysia<br/> (Ref. No: PY/2017/00950)</p>  |
| June 2017           | : | <p><b>Panel Reviewer of Research Proposal Evaluation</b><br/> Fund: Dana Penyelidikan UTM Razak School 2017<br/> Proposal Title: Occupational Safety And Health Management System In the Malaysian Higher Educational Institution<br/> (Ref. No: PY/2017/00991)</p> |
| April 2017          | : | <p><b>Panel Assessor for First Stage Assessment of Engineering Doctorate Programme</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |
| April 2017          | : | <p><b>Panel Assessor for First Stage Assessment of PhD Programme</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |
| April 2017          | : | <p><b>Panel Assessor for First Stage Assessment of MPhil Programme</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |
| Jan 2017 - Apr 2017 | : | <p><b>Chairman for UTM Razak School Research Week 2017</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |
| March 2017          | : | <p><b>Task Force Committee of Experience &amp; Knowledge Sharing Session</b><br/> (Applying for Private Sector &amp; International Grant)<br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>                           |
| March 2017          | : | <p><b>Task Force Committee of Bengkel Harta Intelek dan Spin-off Company</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |
| March 2017          | : | <p><b>Task Force Committee of Committee of 3 Minute Thesis Competition,</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>   |
| March 2017          | : | <p><b>Task Force Committee of Committee of UTMRS Poster Day</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>   |
| Dec 2016 - May 2017 | : | <p><b>Marketing Coordinator (Academic Program)</b><br/> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia</p>  |

- Nov 2016 - Dec 2016 : **Task Force Committee Strategic Plan Workshop Research Management UTM RAZAK 2017-2020**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- August 2016 : **Task Force Committee Audit MyRA II**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.
- April 2016 : **Panel Reviewer of Research Proposal Evaluation**  
Fund: GUP Tier 2 2016/1 (Universiti Teknologi Malaysia)  
Proposal Title: Acoustical Performance Of Kenaf/Polypropelene Composite As A High Acoustic Absorber At Aircraft Hangar (Ref. No: PY/2016/07438)
- April 2016 : **Panel Reviewer of Research Proposal Evaluation**  
Fund: GUP Tier 2 2016/1 (Universiti Teknologi Malaysia)  
Proposal Title: Closure Effect Of Welding Residual Stress In Penetration Nozzles Of Pressure Vessel (Ref. No: PY/2016/06390)
- Nov 2016 : **Instructor of SACS Software Workshop**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- May 2015 - Apr 2017 : **Programme Coordinator for Doctor of Philosophy (PhD)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- May 2015 - Apr 2017 : **Advisor of Postgraduate Student Society UTM RAZAK School**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- May 2015 - Apr 2017 : **Programme Coordinator for Master of Science in Sustainable Infrastructure (Paperwork Task Force)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 - Dec 2013 : **Programme Coordinator of UTM Razak School Industrial Training Programme**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 - Dec 2013 : **Member of Board of Studies (BOS) for Master of Science in Disaster and Resilience Management**  
Malaysia – Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia.
- Jan 2012 - Dec 2013 : **Member of Board of Studies (BOS) for Master of Science in Sustainable Infrastructure**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 - Dec 2013 : **Member of Board of Studies (BOS) for Master of Science in Risk and Reliability Engineering**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 : **Panel Assessor of How to Get Yourself Employed (HTGYE) Programme**

- UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 - Dec 2013 : **Programme Coordinator for Executive Diploma of Safety and Health**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jan 2012 - Dec 2013 : **Programme Coordinator of UTM Razak School Postgraduate Research Colloquium**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- Jun 2012 - Dec 2013 : **Committee of MQA COPPA development for Master of Science in Sustainable Urban Design**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia

### University Level

- February 2018 : **Invited Speaker for Supervisory Orientation Course (AS101)**  
School of Graduate Studies, Universiti Teknologi Malaysia
- July 2017 : **Invited Speaker for SACS Workshop and Training**  
Faculty of Civil Engineering, Universiti Teknologi Malaysia
- April 2017 : **Panel Reviewer of Research Proposal Evaluation**  
Fund: GUP Tier 2 2017/1 (Universiti Teknologi Malaysia)  
Proposal Title: Heave Motion Response Prediction Of Non-Uniform Slender Body By Diffraction Potential Theory With Drag Equation (Ref. No: PY/2017/00621)
- March 2017 : **Task Force Committee of Public Talk - Merdeka Award Grant Recipient**  
Universiti Teknologi Malaysia
- Jun 2016 - May 2018 : **Research Champion for Private Grant**  
Universiti Teknologi Malaysia
- April 2016 : **Panel Reviewer of Research Proposal Evaluation**  
Fund: GUP Tier 2 2017/1 (Universiti Teknologi Malaysia)  
Proposal Title: Acoustical Performance Of Kenaf/Polypropelene Composite As A High Acoustic Absorber At Aircraft Hangar (Ref. No: PY/2016/07438)
- April 2016 : **Panel Reviewer of Research Proposal Evaluation**  
Fund: GUP Tier 1 2017/1 (Universiti Teknologi Malaysia)  
Proposal Title: Closure Effect Of Welding Residual Stress In Penetration Nozzles Of Pressure Vessel (Ref. No: PY/2016/06390)
- Mar 2016 - Mar 2017 : **Task Force Committee of Development of Master of Disaster Risk Management Programme**  
Malaysia - Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia, Universiti Teknologi Malaysia
- October 2012 : **Project Leader of Official Visit to Pannasastra University of Cambodia**  
Global Outreach Programme (GOP), Universiti Teknologi Malaysia

- Oct 2012 : **Committee of Graduation Ceremony of the University of Warwick and UTM Razak School of Engineering and Advanced Technology**  
Universiti Teknologi Malaysia
- October 2012 : **Co-project Leader of University Social Responsibility (USR)**  
Program Title: Humanity Service @ Cambodia  
Universiti Teknologi Malaysia

#### **NATIONAL COMMITTEE**

- October 2017 : **Committee of the 2<sup>nd</sup> National Symposium on Sustainable Infrastructure and Engineering (SustalN2017)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- May 2017 : **Committee of the 3rd National Workshop on Ocean Energy**  
UTM Ocean Thermal Energy Centre (UTM OTEC), Universiti Teknologi Malaysia
- Apr 2016 - Aug 2016 : **Committee of Building Information Modelling (BIM) Handbook Project**  
Construction Industry Development Board (CIDB)
- June 2016 : **Committee of the 2<sup>nd</sup> National Workshop and Training Courses on Ocean Energy**  
UTM Ocean Thermal Energy Centre (UTM OTEC), Universiti Teknologi Malaysia
- December 2015 : **Committee of the 1<sup>st</sup> National Symposium on Sustainable Infrastructure and Engineering (SustalN2015)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- March 2015 : **Committee of UTM-MESA Racing Team** (Overall Champion in Formula Student 2013 Tournament - National Level)  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- October 2012 : **Committee of National Seminar on Sustainable Urban Design for Liveable Cities (SUDLiC2012)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia

#### **INTERNATIONAL APPOINTMENT/COMMITTEE**

- February 2018 : **Reviewer of the Applied Ocean Research Journal**  
Elsevier Ltd, United Kingdom
- October 2017 : **Committee of UTM Razak School - International Conference on Advanced Technology (UTMRS-ICAT)**  
UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
- October 2017 : **Committee of the International Conference on Sustainable Infrastructure and Engineering (SustalN2017)**

		UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
October 2017	:	<b>Committee of the International Conference in Engineering Business Management (ICEBM2017)</b> Meiji University, Japan and UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
April 2017	:	<b>Advisor of The International Conference on Science and Humanities 2017 (ICOSH 2017)</b> Universitas Tama Jagakarsa, Indonesia and UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
March 2017	:	<b>Chairman of parallel session at 3rd Program of International Platform on Ocean Energy for Young Researcher 2017</b> Institute of Ocean Energy, Saga University, Japan
September 2016	:	<b>Sub-Committee of 4<sup>th</sup> AUN/SEED-NET Regional Conference On Natural Disaster 2016</b> AUN/SEED-NET ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN/SEED-Net) and Malaysia - Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia, Universiti Teknologi Malaysia
August 2016	:	<b>Committee of Seminar on Disaster Risk Management and Open Day</b> Malaysia - Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia, Universiti Teknologi Malaysia
April 2016	:	<b>Scientific Committee for the 6<sup>th</sup> International Graduate Conference on Engineering, Science and Huminity (IGCESH)</b> School of Graduate Studies, Universiti Teknologi Malaysia
October 2015	:	<b>Committee of the International Conference in Engineering Business Management (ICEBM2015)</b> Meiji University, Japan and UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
April 2013	:	<b>Chairman of parallel session at 1st International Conference on Robust Quality Engineering (ICRQE 2013)</b> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia
January 2013	:	<b>Committee of Seminar on Advanced Active Remote Sensing (SAARS)</b> UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia

#### **MoU/MoA/LoC/LoI**

1. Committee in drafting a Memorandum of Understanding (MoU) between UTM and National Hydraulic Research Institute of Malaysia (NAHRIM). Signed on 24 October 2017.
2. Committee in drafting a Nondisclosure Agreement (NDA) between UTM OTEC and Adastra Ip. Signed on 13 March 2017.
3. Committee in drafting a Nondisclosure Agreement (NDA) between UTM OTEC and Bangi Geosains. Signed on 30 March 2017.
4. Committee in drafting the Memorandum of Understanding (MoU) between UTM OTEC and Infrakomas Sdn. Bhd. Signed on 1 July 2016.

5. Committee in drafting the Memorandum of Agreement (MoA) between UTM OTEC and DCNS. 20 April 2016.
6. Committee in drafting the Letter of Collaboration (LoC) between UTM RAZAK School of Engineering and Advanced Technology and Institut Sultan Iskandar (ISI) on the support in organizing The 1st National Symposium on Sustainable Infrastructure and Engineering (Sustain). Signed on 2 October 2015.
7. Committee in drafting the Letter of Collaboration (LoC) between UTM RAZAK School of Engineering and Advanced Technology and Jabatan Pengaliran dan Saliran Malaysia (JPS) on the support in running Master of Science in Sustainable Infrastructure (MSSI). Signed on 2 October 2015.
8. Committee in drafting the Letter of Collaboration (LoC) between UTM RAZAK School of Engineering and Advanced Technology and Jabatan Pengaliran dan Saliran Malaysia (JPS) on the support in organizing The 1st National Symposium on Sustainable Infrastructure and Engineering (Sustain). Signed on 2 October 2015.
9. Committee in drafting the Letter of Collaboration (LoC) between UTM RAZAK School of Engineering and Advanced Technology and Jabatan Kerja Raya Malaysia (JKR) on the support in organizing The 1st National Symposium on Sustainable Infrastructure and Engineering (Sustain). Signed on 20 October 2015.
10. Committee in drafting the Letter of Collaboration (LoC) between UTM OTEC and UTM HOLDINGS Sdn. Bh. Signed on 2 September 2015.
11. Committee in drafting the Letter of Collaboration (LoC) between UTM OTEC and PASDEC HOLDINGS BERHAD. Signed on 2 September 2015.
12. Committee in drafting the Letter of Collaboration (LoC) between UTM OTEC and TECHNIP BERHAD. Signed on 2 September 2015.
13. Committee in drafting the Letter of Collaboration (LoC) between UTM OTEC and Korea Research Institute of Ships and Ocean Engineering (KRISO). Signed on 2 September 2015.
14. Committee in drafting the Letter of Collaboration (LoC) between UTM OTEC and XENESYS INC. Signed on 20 February 2014.
15. Committee in drafting the Memorandum of Understanding (MoU) between UTM OTEC and Saga University. Signed on 20 February 2014.

## **PROFESSIONAL MEMBERSHIP AND RECOGNITION**

1. Member of the Institute of Engineering and Technology (IET), United Kingdom, Membership No: 1100457246
2. Member of The Institution of Engineers Malaysia (IEM), Civil Engineering, Membership No: G65221.
3. Member of Board of Engineer Malaysia (BEM), Civil Engineering, Membership No: 78261A.
4. Member of The Institution of Civil Engineers (ICE), United Kingdom, Membership No: 62623394.
5. Member of the American Society of Mechanical Engineers (ASME), USA, Membership No: 000100676632.



**TEACHING EXPERIENCES****UNDERGRADUATE COURSES TAUGHT**

No.	Course Code	Semester	Credit Hour	University
1	(SMJM3053) Numerical Methods - Section 1	201720181	3	Universiti Teknologi Malaysia
2	(SRSI2915) Latihan Industri - Section 1	201220133	5	Universiti Teknologi Malaysia
3	(DDPA3052) Civil Engineering Laboratory - Section 1	201320141	2	Universiti Teknologi Malaysia
4	(DDPA2422) Geotechnical Engineering - Section 1	201220132	2	Universiti Teknologi Malaysia
5	(DDPA2413) Soil Mechanics - Section 1	201320141	3	Universiti Teknologi Malaysia
6	(FRSS2612) Diploma Project I: Proposal (Executive Diploma In Occupational Safety and Health) - Section 1	201220132	2	Universiti Teknologi Malaysia
7	(FRSS2624) Diploma Project II: Proposal (Executive Diploma in Occupational Safety and Health) - Section 1	201320141	4	Universiti Teknologi Malaysia
8	(SKAA1713) Soil Mechanics - Section 1	201120122	3	Universiti Teknologi Malaysia
9	(SAB2012) Highway Engineering Laboratory - Section 1	201120122	2	Universiti Teknologi Malaysia
10	(DDA2412) Soil Mechanics - Section 1	201220131	1	Universiti Teknologi Malaysia
11	(SAB2012) Civil Engineering Laboratory II - Section 40	201120122	2	Universiti Teknologi Malaysia
12	(DDPA2412) Soil Mechanics - Section 1	201220131	1	Universiti Teknologi Malaysia
13	(SKAA1713) Soil Mechanics - Section 40	201120122	2	Universiti Teknologi Malaysia

**POSTGRADUATE COURSE TAUGHT**

No.	Course Code	Semester	Credit Hour	University
1	(URSP0010) Research Methodology - Section 3	201720181	1	Universiti Teknologi Malaysia
2	(URSP0010) Research Methodology - Section 3	201620172	3	Universiti Teknologi Malaysia
3	(URSP0010) Research Methodology - Section 1	201620172	3	Universiti Teknologi Malaysia
4	(URSP0013) Research Methodology - Section 5	201620172	3	Universiti Teknologi

				Malaysia
5	(URSP6013) Environmental Ethics - Section 4	201620171	3	Universiti Teknologi Malaysia
6	(URSP6013) Environmental Ethics - Section 3	201620171	3	Universiti Teknologi Malaysia
7	(URSP0010) Research Methodology - Section 1	201620171	3	Universiti Teknologi Malaysia
8	(URSP0010) Research Methodology - Section 3	201620171	3	Universiti Teknologi Malaysia
9	(URSP0010) Research Methodology - Section 1	201520162	3	Universiti Teknologi Malaysia
10	(URSP6013) Environmental Ethics - Section 4	201520161	3	Universiti Teknologi Malaysia
11	(URSP6013) Environmental Ethics - Section 3	201520161	3	Universiti Teknologi Malaysia
12	(URSP0010) Research Methodology - Section 1	201520161	3	Universiti Teknologi Malaysia
13	(MDS 2193) Sustainable Design and Construction for MSc in Sustainable Urban Design - Section 1	201320141	3	Universiti Teknologi Malaysia
14	(URSP0010) Research Methodology - Section 1	201220132	3	Universiti Teknologi Malaysia
15	(URSP0010) Research Methodology - Section 1	201320141	3	Universiti Teknologi Malaysia
16	(CIVE273) Wave Processes	201020111	3	University of Liverpool, UK
17	(CIVE273) Wave Processes	201120121	3	University of Liverpool, UK
18	(CIVE272) Information Technology II	200920102	2	University of Liverpool, UK
19	(CIVE272) Information Technology II	201120121	2	University of Liverpool, UK
20	(CIVE486) Design of Marine Structure	201020112	6	University of Liverpool, UK

## RESEARCH PROJECT UNDERTAKEN

### RESEARCH UNIVERSITY GRANT (RUG) SCHEME (Cummulative grant procured = RM378,000)

**Project Leader**      **Reassessment of the In-Service Offshore Structures by Accounting the Effect of Wave-In-Deck**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.K130000.2540.18H09

Amount: RM40,000

Status: On-going (1/7/2017 – 30/6/2019) - 2 Years

**Extreme Response Prediction for Linear Fixed Offshore Structures by Efficient Time Simulation Approach.**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.K130000.2540.11H30

Amount: RM50,000

Status: On-going (15/11/2015 - 14/11/2017) - 2 Years

**Efficient Derivation of the Probability Distribution of the Extreme Values of Offshore Structural Response**

Funder: Universiti Teknologi Malaysia (GUP Tier 1)

Ref. No: Q.K130000.2540.09H39

Amount: RM20,000

Status: Completed (1/7/2014 – 30/6/2015) - 1 Year

**Derivation of Long-Term Probability Distribution of the Extreme Values of Offshore Structural Response by an Efficient Time Simulation Techniques**

Funder: Universiti Teknologi Malaysia (GUP Tier 2)

Ref. No: Q.K130000.2640.07J02

Amount: RM34,000

Status: Completed (1/12/2012 – 31/12/2013) - 1 Year 1 Month

**Project Member**

**Efficient Derivation of the 100-Year Extreme Structural Responses for Fixed Offshore Structures**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.K130000.2540.17H99

Amount: RM40,000

Status: On-going (1/7/2017 – 30/6/2019) - 2 Years

**Feasibility Study Aiming At Identifying The Potential Opportunities Of Developing A Pioneer Underwater Ocean Turbines Power Plant On The One Fathom Bank**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.K130000.2540.15H31

Amount: RM40,000

Status: On-going (1/10/2016 – 30/9/2018) - 2 Years

**Improved Risk Assessment Procedure for Underground Gas Pipeline Explosion using Local Factors in Tropical Region**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.J130000.2522.11H40

Amount: RM50,000

Status: On-going (15/11/2015 - 14/11/2017) - 2 Years

**Prediction of Extreme Offshore Structural Response from Various Methods of Simulating Wave Kinematics**

Fund: Universiti Teknologi Malaysia (GUP Tier 1)

Vot No.: Q.K130000.2540.12H04

Amount: RM50,000

Status: On-going (15/11/2015 - 14/11/2017) - 2 Years

**Prediction of Extreme Offshore Structural Response by Hybrid Wave Kinematics Model**

Funder: Universiti Teknologi Malaysia (GUP Tier 1)

Ref. No: Q.K130000.2540.09H42

Amount: RM20,000

Status: Completed (1/7/2014 – 30/6/2015) - 1 Year

**Comparison of Probability Distributions of the Extreme Response Values from Different Methods of Simulation Wave Kinematics**

Funder: Funder: Universiti Teknologi Malaysia (GUP Tier 2)

Ref. No: Q.K130000.2640.06J89

Amount: RM34,000

Status: Completed (1/12/2012 – 31/12/2013) 1 Year 1 Month

**UTM RAZAK SCHOOL RESEARCH FUND SCHEME** (Cumulative grant procured = RM132,000)

**Project Leader Derivation of Short-term Probability of the Extreme Values of Offshore Structural Response by an Efficient Time Simulation and Finite-Memory Nonlinear System Techniques**

Funder: Universiti Teknologi Malaysia (Razak School Research Fund)

Ref. No: R.K130000.7740.4J085

Amount: RM50,000

Status: Completed (1/9/2012 – 28/2/2014) - 1 Year 6 Months

**Project Member Design, Fabrication and Installation of Ram-Pump to be Used by Orang Asli in Remote Area**

Fund: Dana Penyelidikan UTM Razak

Vot No.: PY/2017/00937

Amount: RM32,000

Status: On-going (1/8/2017 – 31/7/2019) - 2 Years

**Long-Term Distribution of the Extreme Values of Offshore Structural Response by Modified Finite-Memory Nonlinear System Modeling**

Funder: Universiti Teknologi Malaysia (UTM Razak School Research Fund)

Ref. No: R.K130000.7740.4J084

Amount: RM50,000

Status: Completed (1/9/2012 – 28/2/2014) - 1 Years 6 Months

**E-SCIENCE FUND** (Cumulative grant procured = RM700,000)

**Project Member An Attempt to Replicate the Composition of Zamzam Water by Processing Deep Sea Water**

Funder: Malaysian Ministry of Science, Technology and Innovation (E-Science)

Ref. No: Q.J130000.2424.00G62

Amount: RM700,000

Status: Completed (1/3/2013 - 31/7/2016) 2 Years 11 Months 6 Days

**FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)** (Cummulative grant procured = RM190200)

**Project Member**      **Efficient Derivation of the Probability Distribution of Extreme Responses Accounting For the Nonlinearities of the Random Wave Field and Wave Load Mechanism**

Funder: Malaysian Ministry of Higher Education (FRGS Cycle 1/2014)

Ref. No: R.K130000.7940.4F584

Amount: RM109,200

Status: Completed (1/7/2014 – 30/6/2016) 2 Years 5 Months

**Project Member**      **The Effect of the Nonlinearities of the Random Wave Field on the Extreme (100-Year) Offshore Structural Response**

Funder: Malaysian Ministry of Higher Education (FRGS Cycle 1/2014)

Ref. No: R.K130000.7840.4F583

Amount: RM81,000

Status: Completed (1/7/2014 – 30/6/2016) 2 Years 4 Months

**CONTRACT RESEARCH PROJECT UNDERTAKEN** (Cummulative grant procured = RM266,750)

**Project Leader**      **Conceptual Design of Small Scale Integrated Marine Turbine**

Funder: National Hydraulic Research Institute of Malaysia (NAHRIM)

Amount: RM19,000

Status: On-going (25/7/2014 - 9/10/2017) 2 Months 15 Days

**Kajian Keberkesanan Terhadap Projek Berkaitan dengan BIM Di Malaysia**

Funder: CIDB E-Construct Services Sdn Bhd

Amount: RM100,000

Status: On-going (1/8/2016 - 1/10/2016) 2 Months

**Building Information Modelling (BIM) Handbook, 1st Edition**

Funder: CIDB E-Construct Services Sdn Bhd

Amount: RM47,750

Status: Completed (1/8/2016 - 1/9/2016) 1 Month

**Membangunkan Mikro Turbin Banki Secara Lestari Bagi Mempertingkatkan Taraf Hidup Serta Eko-Pelancongan Dikampung Sungai Tiang, Taman Negeri Royal Belum**

Fund: Malaysian Ministry of Higher Education (CCIN)

Vot No.: R.K130000.7840.4L192

Amount: RM100,000

Status: Completed (6/4/2016 – 11/7/2017) 1 Years 3 Months

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## POSTGRADUATE SUPERVISION

### PhD Student

No.	Year	Name	Status	Title	Roles of supervisor	Type
1.	2013	Afifuddin Husairi bin Mat Jusoh @ Hussain	Graduated	Implementation of Building Information Modeling (BIM) in Malaysia.	Main Supervisor	Research
2.	2014	Ezanizam bin Mat Soom	Graduated	Global Ultimate Strength Assessment for Lifetime Extension of Ageing Platforms.	Main Supervisor	Industrial PhD
3.	2017	Sayyid Zainal Abidin Bin Syed Ahmad	On-going	Simulation On Closed Kalina Cycle of Au/TiO <sub>2</sub> AND Ag/TiO <sub>2</sub> of Ammonia-Water Hybrid Nanofluids.	Main Supervisor	Research
4.	2017	Nurul 'Azizah binti Mukhlas	On-going	Efficient Nonlinear Model for the 100-year Extreme	Co - Supervisor	Research

				Offshore Structural Responses Prediction		
5.	2017	Loganathan Radzakrishnan	On-going	Decommissioning Of Offshore Facilities Based On Main Economic Drivers Using Decision Modeling Method	Co - Supervisor	Engineering Doctorate

***MSc. Student***

No.	Year	Name	Status	Title	Roles Of Supervisor	Type
1.	2016	Nurul Uyun binti Azman	Graduated	The Effects of Wave – in-deck in Conventional Pushover Analysis	Main Supervisor	Research
2.	2015	Abdulhiza bin Ibrahim	Graduated	Controlling Framework for Interface Management Activities in Engineering Phase of Oil and Gas Construction Project	Main Supervisor	MSc in Engineering and Business Management (MEBM)
3.	2015	Muhammad Bukhari bin Johari	Graduated	Optimization of Efficient Time Simulation for Prediction of Extreme Offshore Structural Response	Main Supervisor	Research
4.	2015	Nurul 'Azizah binti Mukhlas	Graduated	Efficient Derivation of Extreme Offshore Structural Response Exposed to Random Wave Load	Co – Supervisor	Research
5.	2015	Fathin Afina binti Abdull Muan	Graduated	Various Methods of Simulating Wave Kinematics on the Structural Members of the 100-year Responses	Co – Supervisor	Research
6.	2015	Muhammad Iz'aan bin Muhammad Shuib	Graduated	Hazard Identification, Risk Assessment and Risk Control (HIRARC) for Latex Gloves Manufacturer in	Main Supervisor	Executive Master in Occupational Safety and Health

				Melaka		Management (EMOSHM)
7.	2015	Rohaizad bin Mohd Som	Graduated	Risk Assessment in Chemical Injection System at UTP Plant	Main Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
8.		Mohd. Hanaffiah bin Arsat	Graduated	Risk Control on Falsework Failure During Concreting in Construction Project	Main Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
9.		It Seyaam A/P Somphorn	Graduated	Risk Assessment on Manual Handling IBS Block in Construction by Royal Engineer Regiment	Co – Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
10.		Mohd Azim bin Mahmud	Graduated	Developing a Safety and Health Guidelines at House Construction Site for Royal Engineer Regiment Field Squadron Personnel	Co – Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
11.		Syed Mohd Fadzly bin Syed Nokman	Graduated	Quantitative Research on The Production Needs Based on Existing Design and Newly Upgraded Portable Partition Using FMEA Failure Mode Effects Analysis as Tools	Main Supervisor	MSc in Engineering and Business Management (MEBM)
12.	2013	Edy Hermanto bin Janius	Graduated	Foreign Local Engineering Expertise Study on the Recruitment Behaviour in the Scope of Oil & Gas Industries in Malaysia.	Main Supervisor	MSc in Engineering and Business Management (MEBM)
13.	2013	Shaiful Munir bin Leman	Graduated	The Implementation of Skim Penarafan	Main Supervisor	Capstone Project



				Hijau (pH) to Jabatan Kerja Raya Malaysia Project		
14.	2013	Hishamuddin bin Idris	Graduated	Safety Assessment in Masjid Bagan Pinang, N. Sembilan	Main Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
15.	2013	Mohd Faiz bin Abdul Razak	Graduated	A new Approach for Royal Malaysian Navy Fleet Maintenance Management	Co – Supervisor	MSc in Engineering and Business Management (MEBM)
16.	2013	Mohd Syafiq Ezzuddin bin Othman	Graduated	Safety improvement for steel structure design	Co – Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
17.	2013	Nor Amalina binti Mohamed Dani	Graduated	Concepts and Techniques of Value Analysis to Effectively Control Cost.	Co – Supervisor	MSc in Engineering and Business Management (MEBM)
18.	2013	Shazwan Azim bin Abd Azim	Graduated	Improvement of PETRONAS Carigali Behaviour Based Safety	Co – Supervisor	Executive Master in Occupational Safety and Health Management (EMOSHM)
19.	2013	Zulkifly bin Hassan	Graduated	Risk-based Asset Integrity Management for Offshore Floating Facilities in Malaysia.	Main Supervisor	MSc in Engineering and Business Management (MEBM)
20.	2013	Siti Masayu binti Yusof	Graduated	Outsourcing and Its Impact on Project Management	Co – Supervisor	MSc in Engineering and Business Management (MEBM)

## **POSTGRADUATE EXAMINATION /VIVA**

### **UTM STUDENTS/VIVA**

1. (2013 - present) - Panel Assessor for Engineering Doctorate Research Proposal Defense, UTM RAZAK School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.
2. (2013 - present) - Panel Assessor for PhD Research Proposal Defense, UTM RAZAK School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.
3. (2013 - present) - Panel Assessor for Master Research Proposal Defense, UTM RAZAK School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.
4. (2013 - present) - Panel Assessor for Master Project 1 and 2, Executive Master in Occupational Safety and Health Management (EMOSHM), UTM RAZAK School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.
5. (2013 - present) - Panel Assessor for Master Project 1 and 2, Executive Master in Engineering Business Management (MEBM), UTM RAZAK School of Engineering and Advanced Technology, Universiti Teknologi Malaysia.

## **PUBLICATIONS AND PAPER PRESENTED**

### **THESIS**

1. Abu Husain, M.K. (2011), "Efficient (Simulation) Methods for Derivation of Probabilistic Properties of Offshore Structural Response due to Random Wave Loading". PhD Thesis, Civil Engineering Dept., University of Liverpool, UK.
2. Abu Husain, M.K. (2007), "Determination of the 100-year Waveheight for the Forties Field in the North Sea". MEng Thesis, Civil Engineering Department, University of Liverpool, UK.

### **ORIGINAL BOOK**

1. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2015), "Prediction of Design Wave Heights: A Case Study for the Forties Field in the North Sea", Germany: Lambert Academic Publishing. ISBN 978-3-6597-1576-1.
2. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2013), "Prediction of Extreme Offshore Structural Response", Germany: Lambert Academic Publishing. ISBN 978-3-8433-7546-7.
3. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2013), "Derivation of Morison's Force Coefficients", Germany: Lambert Academic Publishing. ISBN 978-3-8433-7620-4.

### **BOOK CHAPTER**

1. Abu Husain, M.K., Mohd Zaki, N.I. (2016). "Managing Delay Project of Naval Shipbuilding Program in the Royal Malaysia Navy", Productivity and Quality in Engineering Business Management, Pustaka Sistem Pelajaran Sdn. Bhd., 2016, Pages, 108 – 143.
2. Abu Husain, M.K., Mohd Zaki, N.I. (2016). "Hazard Identification, Risk Assessment and Risk Control for Latex Gloves Manufacturer", Managing Risk in the Workplace, Pustaka Sistem Pelajaran Sdn. Bhd., 2016, Pages, 43 – 71.

### **EXPERT REPORT (3 nos)**

1. Abu Husain, M.K., Hussain, A.H., Mohd Zaki, N.I. and Harun, A.N., Kajian Keberkesanan Terhadap Projek Berkaitan dengan BIM Di Malaysia, Final Report Submitted to CIDB, (2017).
2. Abu Husain, M.K., Mohd Zaki, N.I. and Mukhlas, N.A., Conceptual Design of Small Scale Integrated Marine Turbine, Final Report Submitted to National Hydraulic Research Institute of Malaysia (NAHRIM), (2017).
3. Abu Husain, M.K., Husairi, and Mohd Zaki, N.I., Building Information Modelling (BIM) Handbook, 1st Edition, Final Report Submitted to CIDB, (2016).

### **PUBLICATIONS**

#### **JOURNAL**

##### **Impact Factor Journal (Nos = 6)**

1. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2018). "Extreme Structural Responses by Nonlinear System Identification for Fixed Offshore Platforms". *Ships and Offshore Structures*. Q1 Journal IF: 1.387. Web of Science. (Status: In Press). doi:10.1080/17445302.2018.1443377
2. Mukhlas, N.A., Mohd Zaki, N.I., Abu Husain, M.K., and Najafian, G. (2018). "Efficient Derivation of Extreme Offshore Structural Response Exposed to Random Wave Loads". *Ships and Offshore Structures*. Q1 Journal IF: 1.387. Web of Science. (Status: Accepted).
3. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2017). "Various Methods of Simulating Wave Kinematics on the Structural Members of the 100-year Responses". *Journal of Mechanical Engineering & Sciences (JMES)*. Q2 Journal IF: 0.431. Web of Science. ISSN:2289-4659 (Print), 2231-8380 (Online). doi:10.15282/jmes.11.4.2017.27.0293
4. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2017). "Prediction of Offshore Structural Response Extreme Values by Three Different Approaches of Efficient Time Simulation Technique". *Ships and Offshore Structures*. Q2 Journal IF: 1.387. Web of Science. ISSN:1744-5302 (Print), 1754-212X (Online) 1874-1495 doi: 10.1080/17445302.2016.1139258
5. Abu Husain, M.K., Mohd Zaki, N.I., Mallahzadeh, H. and Najafian, G. (2016). "Short-term Probability Distribution of the Extreme Values of Offshore Structural Response by an Efficient Time Simulation Technique". *Ships and Offshore Structures*. Q2 Journal IF: 1.387. Web of Science. ISSN:1744-5302 (Print), 1754-212X (Online) 1874-1495 doi: 10.1080/17445302.2014.986877
6. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2016). "Extreme structural response values from various methods of simulating wave kinematics". Q2 Journal IF: 1.387 SCOPUS Index. Article in press. ISSN:1744-5302 (Print), 1754-212X (Online) 1874-1495. doi: 10.1080/17445302.2014.987947

##### **Non-Indexed Journal (Nos = 1)**

1. Mukhlas, N.A., Abdullah Shuhaimy, N., Johari, M.B., Mat Soom, E., Abu Husain, M.K., and Mohd Zaki, N.I. (2016). "Design and Analysis of Fixed Offshore Structure – An Overview". *Malaysian Journal of Civil Engineering*. 28(3), pp. 503-5202. ISSN: 1823-7843.

## CONFERENCE PROCEEDINGS (Nos = 35)

### *Indexed Proceedings*

1. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2017), "Extreme Structural Responses by Nonlinear System Identification for Fixed Offshore Platform", Proceedings of the 2<sup>nd</sup> International Conference on Ships and Offshore Structures (ICSOS2017). Shenzhen, China.
2. Mat Soom, E., Abu Husain, M.K., Mohd Zaki, N.I., Azman, N.U., Zakiyuddin, A. and Najafian, G. (2017), "Comparison Methods for Derivation of the Failure Probability of Fixed Offshore Structures", Proceedings of the 2<sup>nd</sup> International Conference on Ships and Offshore Structures (ICSOS2017). Shenzhen, China.
3. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2017), "Long-term Probability Distribution of Fixed Offshore Structural Response using an Improved version of Finite Memory Nonlinear System Procedure", Proceedings of the 7<sup>th</sup> International Conference on Computational Methods in Marine Engineering, Nantes, France, pp. 485-495. ISBN: 978-849439286-3.
4. Azman, N.U., Abu Husain, M.K., Mohd Zaki, N.I., Mat Soom, E. and Najafian, G. (2017), "The Effect of Wave-in-deck in Conventional Pushover Analysis", Proceedings of the 7<sup>th</sup> International Conference on Computational Methods in Marine Engineering, Nantes, France, pp. 583-591. ISBN: 978-849439286-3.
5. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2016). "Prediction of 100-Year Responses of Fixed Offshore Structures using the Modified Version of Finite Memory Nonlinear System Models". In Proceedings of the 12<sup>th</sup> ISOPE Pacific-Asia Offshore Mechanics Symposium, PACOMS 2016, Gold Coast, Australia, pp. 61-72. ISBN: 9781880653982.
6. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2016). "The Effect of Different Methods of Simulating Wave Induced Water Particle Kinematics on the 100-Year Responses". In Proceedings of the 12<sup>th</sup> ISOPE Pacific-Asia Offshore Mechanics Symposium, PACOMS 2016, Gold Coast, Australia, pp. 144-152. ISBN: 9781880653982.
7. Hussain, A.H., Abu Husain, M.K., Mohd Zaki, N.I., Preece, C. and Abd Aziz, A. (2016). "A Typology of Clients' Organization Towards BIM Implementation in Malaysia", Saudi International Conference on Business, Economics and Management (SICBEM), Jeddah, Saudi Arabia.
8. Abu Husain, M.K., Mohd Zaki, N.I., Johari, M.B. and Najafian, G. (2016), "Extreme Response Prediction for Fixed Offshore Structures by Monte Carlo Time Simulation Technique", Proceedings of the ASME 35<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, Busan, Korea, pp. 7 pages.
9. Mohd Zaki, N.I., Abu Husain, M.K., Mukhlas, N.A. and Najafian, G. (2016), "Prediction of Offshore Structural Response Extreme Values by Modified Finite-Memory Nonlinear System Modeling", Proceedings of the ASME 35<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, Busan, Korea, pp. 7 pages.
10. Mat Soom, E., Abu Husain, M.K., Mohd Zaki, N.I., Najafian, G. and Azman, N.U. (2016), "Reliability Based Design and Assessment for Lifetime Extension of Ageing Offshore Structures", Proceedings of the ASME 35<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, Busan, Korea, pp. 6 pages.
11. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2016), "Derivation of Morison's Force Coefficients by Three Alternative Forms of the Method of Moments", Proceedings of the ASME

35th International Conference on Ocean, Offshore and Arctic Engineering, Busan, Korea, pp. 11 pages.

12. Mohd Zaki, N.I., Abu Husain, M.K., Abdullah Shuhaimy, N. and Najafian, G. (2016), "The Effect of Different Methods of Simulating Water Particle Kinematics on the 100-year Responses", Proceedings of the ASME 35th International Conference on Ocean, Offshore and Arctic Engineering, Busan, Korea, pp. 9 pages.
13. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2015), "The Accuracy and Efficiency of the Efficient Time Simulation Procedure in Derivation of the 100-Year Responses", Proceedings of the 6th International Conference on Computational Methods in Marine Engineering, Rome, Italy, pp. 987-998; 12 pages. ISBN: 978-849439286-3.
14. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2015), "Comparison of the Extreme Responses from Different Methods of Simulating Wave Kinematics", Proceedings of the 6th International Conference on Computational Methods in Marine Engineering, Rome, Italy, pp. 365-376; 11 pages. ISBN: 978-849439286-3.
15. Mat Soom, E., Abu Husain, M.K., Mohd Zaki, N.I., Mohd Nor, M.N.K. and Najafian, G. (2015), "Global Ultimate Strength Assessment (GUSA) for Lifetime Extension of Ageing Offshore Structures", Proceedings of the 25th International Ocean and Polar Engineering Conference Kona, Big Island, Hawaii, USA, pp. 431-435; 5 pages. ISBN: 978-1-880653-89-0.
16. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2014), "The Accuracy of the MFMNS and FMNS Models in Predicting the Long-term Distribution of the Extreme Values", Proceedings of the ASME 33rd International Conference on Ocean, Offshore and Arctic Engineering, San Francisco, USA, pp. V04AT02A009; 10 pages. Volume 4A: Structures, Safety and Reliability. ISBN: 978-0-7918-4542-4. doi: 10.1115/OMAE2014-23142
17. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2014), "Prediction of Extreme Values of Offshore Structural Response by an Efficient Time Simulation Technique", Proceedings of the ASME 33rd International Conference on Ocean, Offshore and Arctic Engineering, San Francisco, USA, pp. V04AT02A007; 8 pages. Volume 4A: Structures, Safety and Reliability. ISBN: 978-0-7918-4542-4. doi: 10.1115/OMAE2014-23126
18. H. Mallahzadeh, Y. Wang, Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2014), "Accurate Estimation of the 100-Year Responses from the Probability Distribution of Extreme Surface Elevations", Proceedings of the ASME 33rd International Conference on Ocean, Offshore and Arctic Engineering, San Francisco, USA, pp. V04BT02A044; 10 pages. Volume 4B: Structures, Safety and Reliability. ISBN: 978-0-7918-4543-1. doi: 10.1115/OMAE2014-24589
19. Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2013), "Comparison of Extreme Responses From Wheeler And Vertical Stretching Methods", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A048-; 10 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10594
20. Mohd Zaki, N.I., Abu Husain, M.K., Mallahzadeh, H. and Najafian, G. (2013), "Finite-Memory Nonlinear System Modelling of Offshore Structural Response Accounting for Extreme Values Residues", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A046-; 10 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10592

21. Mohd Zaki, N.I., Abu Husain, M.K., Wang, Y. and Najafian, G. (2013), "Short-Term Distribution of the Extreme Values of Offshore Structural Response by Modified Finite-Memory Nonlinear System Modeling", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A049-; 10 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10596
22. Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2013), "Efficient Derivation of the Probability Distribution of the Extreme Values of Offshore Structural Response: Comparison of Three Different Methods", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A045-; 12 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10590
23. Abu Husain, M.K., Mohd Zaki, N.I., Lambert, L., Wang, Y. and Najafian, G. (2013), "Long-Term Probability Distribution of Extreme Offshore Structural Response Via An Efficient Time Simulation Method", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A050-; 11 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10602
24. Mallahzadeh, H., Wang, Y., Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2013), "Efficient Derivation of the Probability Distribution of Extreme Responses Due to Random Wave Loading From the Probability Distribution of Extreme Surface Elevations", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02BT02A010-; 8 pages. SCOPUS Index. Volume 2B: Structures, Safety and Reliability. ISBN: 978-0-7918-5533-1. doi: 10.1115/OMAE2013-10917
25. Lambert, L., Najafian, G., Y., Cooper, J.E., Abu Husain, M.K. and Mohd Zaki, N.I. (2013), "Efficient Estimation of Offshore Structural Response Based on Threshold Upcrossing Rates", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02AT02A033-; 7 Pages. Volume 2A: Structures, Safety and Reliability. ISBN: 978-0-7918-5532-4. doi: 10.1115/OMAE2013-10385
26. Wang, Y., Mallahzadeh, H., Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2013), "Probabilistic Modelling of Extreme Offshore Structural Response Due to Random Wave Loading", Proceedings of the ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, Nantes, France, pp. V02BT02A007-; 6 Pages. Volume 2B: Structures, Safety and Reliability. ISBN: 978-0-7918-5533-1. doi:10.1115/OMAE2013-10905
27. Mallahzadeh, H., Mohd Zaki, N.I., Abu Husain, M.K. and Najafian, G. (2012), "Finite-Memory Nonlinear System Modelling of Offshore Structural Response Accounting for Extreme Values Residues", Proceedings of the ASME 31st International Conference on Ocean, Offshore and Arctic Engineering, Rio de Janeiro, Brazil, pp. 397-406; 10 Pages. Volume 2: Structures, Safety and Reliability. ISBN: 978-0-7918-4489-2. doi: 10.1115/OMAE2012-83655
28. Abu Husain M.K. and Najafian G (2011) "Efficient Derivation of the Probability Distribution of the Extreme Values of Offshore Structural Response taking Advantage of its Correlation with Extreme Values of Linear Response". In: Proceedings of the ASME 30th International Conference on Ocean, Offshore and Arctic Engineering. ASME/OMAE, Rotterdam pp 1-12.
29. Abu Husain M.K. and Najafian G (2010) "An Efficient Monte Carlo Simulation Technique for Derivation of the Probability Distribution of the Extreme Values". In: Proceedings of the ASME 29th International Conference on Offshore Mechanics and Arctic Engineering. ASME, Shanghai, China. pp 1-7.

### **Non-Indexed Conference Proceedings**

1. Johari, M.B., Abu Husain, M.K. and Mohd Zaki, N.I. (2016), "Estimation of Extreme Offshore Structural Response by Efficient Time Simulation", Proceedings of the 3<sup>rd</sup> International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers (OMase), Kuala Terengganu, Malaysia. pp. 1-8; 8 pages.
2. Mukhlas, N.A., Mohd Zaki, N.I. and Abu Husain, M.K. (2016), "Prediction of Offshore Structural Response Extreme Values by Accounting the Effect of Extreme Value Residues", Proceedings of the 3<sup>rd</sup> International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers (OMase), Kuala Terengganu, Malaysia. pp. 1-8; 8 pages.
3. Abdullah Shuhaimy, N., Mohd Zaki, N.I. and Abu Husain, M.K. (2016), "The Comparison of Different Method of Simulating Water Particle Kinematics On the 100year Extreme Response", Proceedings of the 3<sup>rd</sup> International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers (OMase), Kuala Terengganu, Malaysia. pp. 1-9; 9 pages.
4. Rozani, R., Mohd Zaki, N.I., Sarip, S. and Abu Husain, M.K. (2016), "Cost Inflated Enigma in Upstream Petroleum Industry Projects in Malaysia", Proceedings of the 3<sup>rd</sup> International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers (OMase), Kuala Terengganu, Malaysia. pp. 1-10; 10 pages.
5. Hussain, A.H., Abu Husain, M.K., Mohd Zaki, N.I., Che-Ani, A.I. and Ali, Z.M. (2015). "Examining the Challenges for the Adoption of Building Information Modeling (BIM) in Malaysia from Clients' Perspective". The 4<sup>th</sup> International Conference on Engineering Business Management (ICEBM) 2015, pp. 95-100, 22-23 August, Kuala Lumpur, ISBN 9789671338322.
6. Hussain, A.H., Abu Husain, M.K., Mohd Zaki, N.I., Che-Ani, A.I. and Ali, Z.M (2015). "Assessing the Construct Validity and Reliability of 'Twenty-Five Identified Potential BIM Uses (25\_PoBU)' in Construction Industry in Malaysia". The 4<sup>th</sup> International Conference on Engineering Business Management (ICEBM 2015), pp. 193-198, 22-23 August, Kuala Lumpur, ISBN 9789671338322.
7. Mallahzadeh, H., Abu Husain, M.K., Mohd Zaki, N.I. and Najafian, G. (2014), "Derivation Of Probability Distribution of Extreme Offshore Structural Response due to Combined Wave And Current Loading from the Probability Distribution of Extreme Surface Elevations", In: Proceedings of the 6<sup>th</sup> International ASRANet Conference for Integrating Structural Analysis, Risk and Reliability, Glasgow UK, pp. 1-10.

### **INVITED/GUEST SPEAKER**

1. Abu Husain M.K., 2-Day SACS Hands-on Workshop and Training, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 13-14 July 2017.
2. Abu Husain M.K., One-day Supervisory Orientation Course (AS101), Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 6 February 2018.

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