

Full Curriculum Vitae Associate Professor Ts. Ir. Dr. Kuok King Kuok (Kelvin)



▪ Personal details

Name: Kuok King Kuok

Address: 296, Lot 9262, Lrg Seng Goon 5A2, Tmn Springfield, 93250 Kuching, Sarawak, Malaysia.

Phone: +60-82-260 850 (Office), +60-16-854 4298 (Mobile)

E-mail: kkuok@swinburne.edu.my; kelvinkuok100@gmail.com

▪ Academic qualifications

2010 PhD in Civil Engineering, University Technology of Malaysia (UTM)

2004 Master of Civil Engineering, University Malaysia Sarawak (UNIMAS)

2003 Professional Diploma in Management, University of Western Australia (UWA) and Australian Institute of Management (AIM)

2000 Bachelor of Engineering (Hons) in Civil, University Technology of Malaysia (UTM)

1997 Diploma in Civil Engineering, University Technology of Malaysia (UTM)

▪ Employment history

Jun2022–present **Adjunct Associate Professor**, Department of Civil and Construction Engineering, School of Engineering, Swinburne University of Technology, Melbourne, Australia

Nov2021–present **Associate Professor**, Faculty of Engineering, Computing and Science, Swinburne University of Technology Sarawak Campus

Jan2014–Nov2021 **Senior Lecturer**, Faculty of Engineering, Computing and Science, Swinburne University of Technology Sarawak Campus

Aug2009–Dec2013 **Lecturer**, Faculty of Engineering, Computing and Science, Swinburne University of Technology Sarawak Campus

- Dec 2001-Jul 2009 **Civil Engineer** at Department of Irrigation and Drainage (DID) Sarawak
 a) Civil Engineer at Water Management and Land Development Branch, DID Sarawak Headquarter (May 2009 to Jul 2009)
 b) Hydrology Field Engineer at Hydrology and Water Resources Branch, DID Sarawak Headquarter (Sept 2006 to May 2009)
 c) Assistant Divisional Engineer at Kuching-Samarahan Regional Office (Dec 2001- Aug 2006)
- Sep2002-Dec 2002 CS Consultant Sdn. Bhd. as **Design Engineer** and seconded to Kumpulan Ikram Project Management Team (KIPs) as **Project Engineer**.
- May2001-Sep2002 **Road, Civil and Structural Design Engineer** at PU Engineering Sdn. Bhd., Kuching Sarawak
- Jan 2000-Apr 2001 **Structural Design Engineer** at Perunding EC Sepakat Sdn. Bhd., Kuching,

▪ **Professional Recognition**

- 2005 **Professional Engineer with Practising Certificate registered with Board of Engineers, Malaysia.** PE No.: C112339
 Title conferred: **Ir., Professional Engineer with Practising Certificate (PEPC)**
- 2005 **Corporate Member of Institution of Engineers, Malaysia**
 IEM Membership No.: M24401
 Status conferred: **Corporate Member (MIEM)**
- 2007 **Member of ASEAN Engineer registered**
 Membership No: 02278
 Status conferred: **ASEAN Engineer**
- 2010 **Member of Asia-Pacific Economic Cooperation (APEC)**
 Membership No: MY A 00333
 Status conferred: **APEC Engineer**
- 2010 **Member of EMF International Professional Engineer**
 Membership No: MY E 00333
 Status conferred: **International Professional Engineer (IntPE)**
- 2011 **ASEAN Chartered Professional Engineer** registered with ASEAN Chartered Professional Engineer Coordinating Committee and Malaysia Monitoring Committee. Membership No: ACPE-00371/MY
 Status conferred: **ASEAN Chartered Professional Engineer (ACPE)**
- 2020 **Malaysia Board of Technologists (MBOT)**
 Membership No: PT20100373
 Title conferred: **Professional Technologist (Ts.)**

▪ **Awards**

- 2023 **Outstanding Student Feedback on Teaching (SFT) score of ≥ 9.0** for Sem 2 2022 by Swinburne University of Technology
- 2023 **Bronze Medal** for Invention/Innovation Imputerainfall-Missing Data Imputation at the 24th Industrial and Art Exhibition (INATEX 2023) , Dewan Sultan Iskandar, UTM Johor Bahru
- 2022 **Vice-Chancellor's Accountable Award** (Program Outcome Assessment System leading to Engineering Full Professional Accreditation – Sarawak) from Swinburne University of Technology.
- 2022 **Gold Medal** for Swinburne Sustainable Development Goal Innovate Competition Organised by Swinburne Sarawak
- 2022 **Outstanding IEM Student Section Awards Session 2021/2022** at National level for Institution of Engineers Malaysia Swinburne Sarawak Student Section
- 2022 **Outstanding Student Feedback on Teaching (SFT) score of ≥ 9.0** for Sem 1 2022 by Swinburne University of Technology
- 2022 **Gold Medal** for Korean Invention News (KINEWS) in 8th WORLD INVENTION INNOVATION CONTEST under the category of AICA special awards.
- 2022 **Bronze Medal** for INTEX22 Innovation Technology Expo under Technology and Engineering Cluster
- 2022 **2021 Research Success Grants Awards** by Swinburne University of Technology (RM8,000)
- 2022 **Best Paper Award** in 5th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2022) to be held in Malaysia on the 26th - 27th May 2022.
- 2021 **Outstanding Student Feedback on Teaching (SFT) score of ≥ 9.0** for Sem 2 2021 by Swinburne University of Technology
- 2021 **Best Paper Award** in International Conference on Recent Trends in Construction Materials and Structures (ICON2021) Vellore Institute of Technology (VIT), Vellore, India – 25th & 26th November 2021.
- 2021 **Outstanding Student Feedback on Teaching (SFT) score of ≥ 9.0** for Sem 1 2021 by Swinburne University of Technology
- 2021 **Outstanding IEM Student Section Awards Session 2020/2021** at National level for Institution of Engineers Malaysia Swinburne Sarawak Student Section
- 2020 **2020 Research Success Awards** by Swinburne University of Technology
- 2020 **Outstanding IEM Student Section Awards Session 2019/2020** at National level for Institution of Engineers Malaysia Swinburne Sarawak Student Section
- 2019 **Publication Award 2019** by Swinburne University of Technology
- 2019 **10-year Service Award** by Swinburne University of Technology
- 2019 **Best Paper Award** in International Conference on Applied Sciences, Engineering, Technology & Management (ICASETEM), 16th & 17th October 2019 at Asia Pacific University of Technology & Innovation (APU), Kuala Lumpur.

- 2017 **Outstanding IEM Student Section Awards Session 2016/2017** at National level for Institution of Engineers Malaysia Swinburne Sarawak Student Section
- 2016 **Outstanding IEM Student Section Awards Session 2015/2016** at National level for Institution of Engineers Malaysia Swinburne Sarawak Student Section

▪ **Research and scholarship summary**

Over the past 12 years, I have focused my research in the areas of impact of climate change on flooding, rainfall patterns, weir operation, equatorial soil loss and sediment yield, and slightly shifted towards building information modelling (BIM) in recent years. To date, I have successfully won four national competitive research grants and two industry consultancy projects worth over RM381,000.00, which have largely funded my research activities on a continuous basis from 2011 to present. I have published 93 peer-reviewed research papers, of which 9 are book chapters, 50 are journal publications, 28 are in conference proceedings, two magazines and three newspaper articles and one scholarship learning and teaching publication. These include WOS, SCI, Scopus and ERA indexed journals as listed in my publication list. My current citation count is 385 with a h-index of 11, i10-index of 13 based on Google Scholar tracking.

Higher Degree Research Supervisions:

| | Name | Level and Tittle | Current and Position | Role |
|-----------|---------------------|--|---|-----------------------------------|
| 1. | Dr Kueh Sze Miang | PhD, "Artificial Neural Networks in Downscaling and Projections of Long Term Future Precipitation and Development of Future Intensity-Duration-Frequency Curves" | Completed in 2016 Lecturer at iCATS University College, Kuching, Sarawak, Malaysia | Principal Coordinating Supervisor |
| 2. | Prof. Dr. H.M Rasel | PhD, "Seasonal Rainfall Forecasting using Artificial Neural Networks" | Completed in 2019 Full Professor in Rajshahi University of Engineering & Technology, Bangladesh | Associate Supervisor |

| | | | | |
|----|--------------------|--|---|-----------------------------------|
| 3. | Mohd. Elfy Mersal | Master, "Impact of Bengoh Dam Construction to Erosion and Sedimentation along Sg. Sarawak Kiri Using Infoworks River Simulation (RS)" | Completed in 2020 Lecturer at Swinburne University of Technology Sarawak Campus | Principal Coordinating Supervisor |
| 4. | Dr. Mohanad Akeila | PhD, "Adoption of Building Information Modelling in 3D printing for Refugees' Shelter in Middle East" | Completed in 2021 Project Manager at Sharjah National Oil Corporation, United Arab Emirates | Principal Coordinating Supervisor |
| 5. | Dr. Lai Wai Yan | PhD, "Rainfall Data In-filling Model with Novel Artificial Neural Network" | Completed in 2021 Design Engineer At WAHBA Consulting Sdn. Bhd., Kuching, Sarawak, Malaysia | Principal Coordinating Supervisor |
| 6. | Anson Sim | PhD, "Combination of Statistical and Dynamic Methods for Deriving Rainfall Intensity Duration Frequency (IDF) Curves for major towns in Sarawak" | On - going | Principal Coordinating Supervisor |
| 7. | Louis Teng | PhD, "Forecasting and Simulation of Inflows for Operation and Management of Batu Kitang Submersible Weir" | On - going | Principal Coordinating Supervisor |
| 8. | Samuel Law | PhD, "Development of Equatorial Soil Loss Equation under Simulated Rainfall Conditions" | On - going | Principal Coordinating Supervisor |
| 9. | Amelia Chai | PhD, "Properties of Treated Local Marine Sand using Harvested Rainwater in Mortar and Concrete" | On - going | Principal Coordinating Supervisor |

| | | | | |
|-----|-------------------|---|------------|-----------------------------------|
| 10. | Mohd. Elfy Mersal | PhD, "Development of Borneo Bamboo Nanocellulose Fiber Filter Membrane for Water Treatment in Rural Areas of Sarawak" | On - going | Principal Coordinating Supervisor |
|-----|-------------------|---|------------|-----------------------------------|

Scholarly Activities:

International Conference Keynote Speaker:

- Technological Association Malaysia National Conference, 15 April 2023, Kuching, Sarawak, Malaysia. Title: Application of Building Information Modelling (BIM) Technology in Drainage System using Autodesk Infraworks.
- International Conference on Interdisciplinary Approaches to Sustainable Designs of Future Cities (ICIASDFC-22), 27th - 28th October 2022, Jakarta, Indonesia. Title: Application of Novel Artificial Neural Networks in Hydrology.
- The 5th International Symposium on Water Pollution and Treatment (ISWPT 2022), 28th – 29th October 2022, Bangkok. Title: Water Resources Management in Sarawak River Basin, Borneo Island.
- Key Speaker in Association of Professional Technicians & Technologist Live Webinar Series with the title: Application of Drone in Visual Inspection for Construction Project on 25 Feb 2022.
- 4th Broadening Skillset Series on title "Potential of Artificial Neural Network" on 17 Aug 2022 at Swinburne Sarawak.

TV Invited Guest:

- Invited guest for Sejahtera Asia Talkshow to review and share with the public on flood phenomena 2021 in Sarawak, hosted by TVS on 19th January 2021.

Conference Committee Member:

- **Technical Committee Member** for the 2nd International Conference of Water Resources 2012 (ICWR 2012), organised by Universiti Teknologi Malaysia and Department of Irrigation and Drainage Malaysia, 5-9 November 2012, Langkawi, Malaysia.
- **Technical Committee Member** for the 3rd International Conference of Water Resources 2015 (ICWR 2015), organised by Universiti Teknologi Malaysia and Department of Irrigation and Drainage Malaysia, 24-25 November 2015, Langkawi, Malaysia.
- **Technical Committee Member** for the 4th International Conference of Water Resources 2018 (ICWR 2018), organised by Universiti Teknologi Malaysia and Department of Irrigation and Drainage Malaysia, 27-28 November 2018, Langkawi, Malaysia.
- **International Advisory Board** for International Conference on Artificial Intelligence, Robotics and IoT (ICAIRIOT) organized by Institute for Engineering Research and Publication (IFERP), 27th - 28th Nov 2019 in Hotel Regal, Hong Kong.
- **Reviewer Committee** for International Conference on Applied Sciences, Engineering, Technology & Management (ICASSTEM) organized by Institute For Engineering Research and Publication (IFERP) and in association with Asia Pacific University of Technology & Innovation (APU), 16-17 October 2019, Kuala Lumpur, Malaysia

- **International Scientific Committee** for ENCON2020, 2020 International UNIMAS 13th Engineering Conference (EnCon), 27-28 October 2020, Kuching, Sarawak.
- **International Advisory Committee** for 3rd International Conference on Recent Trends in MultiDisciplinary Research (ICRTMDR-21), 26-27 Dec 2020, Maldives.
- **International Advisory Committee** for International Conference of Applied Sciences, Engineering, Technology & Management (ICASETEM-2021), organised by Crown University Int'l Chartered Inc Santa Cruz Province in Argentina South America and in association with Institute For Engineering Research and Publication (IFERP), 12th & 13th June 2021, Argentina.
- **National Advisory Committee** for the 4th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE 2021), 29th & 30th June 2021, Kuala Lumpur, Malaysia.
- **International Advisory Committee**, 4th International Conference on Recent Trends in MultiDisciplinary Research (ICRTMDR-21), 3rd & 4th December 2021, Maldives.
- **Technical Committee Member** for the 5th International Conference of Water Resources 2021 (ICWR 2021), organised by Universiti Teknologi Malaysia and Department of Irrigation and Drainage Malaysia, 23-25 November 2021, Malaysia.
- **Scientific Review Committee** for 5th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2022), 26th-27th May, 2022-Malaysia
- **International Advisory Committee** for 2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-2022), 15th-16th July 2022, Vietnam.
- **Review Committee member** for International Conference on Interdisciplinary Approaches to Sustainable Designs of Future Cities (ICIASDFC) 27th - 28th October 2022, Jakarta, Indonesia
- **Scientific Committee** for International Conference on Climate change on Agriculture, Ecosystems and Human Health (ICCC 2022), November 16-18, 2022 at Marriott Resort and Spa, Miri City, Sarawak, Malaysia.
- **Scientific Committee** for International Conference on Multidisciplinary Research and Practices (ICMRP-2022). 22nd - 23rd November 2022, Thailand
- **Scientific Committee** for International Conference on Future Road of Multidisciplinary Streams (ICFMRS-2022), 21st - 22nd December 2022, Uttarakhand, India.

Industry collaboration:

- Confidentiality Agreement with 3DVJNCJ CREATIONS, a 3D printing company based in Dubai, UAE for studying the feasibility of constructing refugee camp in middle-east using 3D printing technology.
- MOU with WenHong Plastic Industry Sdn Bhd Kuching Sarawak for studying the potential of WenHong stormwater module in designing effective detention drain.

Journal and Conference Reviewers:

- International Journal of Advances in Soft Computing and Its Applications (IJASCA), Journal of Environmental Management, Neural Computing and Applications, KSCE Journal of Civil Engineering, MODSIM Conference Australia year 2015 and 2017, Journal of Water and Climate, Scientific Reports, ENCON 2020 conference, AI Scholar Expert Reviewer team, etc.

▪ Grants and other income

1. Lai, S. H., **Kuok, K. K.** and Faridah, O., "Determination of Design Rainfall for Malaysia under the Changing Climate", *Exploratory Research Grant Scheme (ERGS) PHASE 1/2011*, 2011-2014. **MYR90,000.00**. Status: Completed. Project Role: **Co-Investigator**.
2. **Kuok, K. K.**, Chiu, P. C. and Elfy, M. M., "Impacts of Climate Change to Erosion and Sedimentation at Sarawak Kiri River after Bengoh Dam Construction", *Exploratory Research Grant Scheme (ERGS) PHASE 1/2013*, 2013-2016. **MYR90,000.00**. Status: Completed. Project Role: **Principle Investigator**.
3. **Kuok, K. K.** and Sobri, H., "Development of Future Equatorial Soil Loss and Sediment Yield Equations Due to Impact of Climate Change", *Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia*, 2019-2022. **MYR 95,000.00**. Project Status: On-going. Project Role: **Principle Investigator**.
4. Chin, M. Y., **Kuok, K. K.**, Ngu, L. H. and Tay, F. S., "Properties of Treated Local Marine Sand using Harvested Rainwater in Mortar and Concrete." *Sarawak Research Grant Council (SRGC), Ministry of Education, Science & Technology Research Sarawak*, 2020-2022. **MYR 50,000.00**. Project Status: On-going. Project Role: **Co-Investigator**.
5. **Kuok, K. K.**, Rezaur, M.R. and Chin, M.Y., "Development of Borneo Bamboo Nanocellulose Fiber Filter Membrane for Water Treatment in Rural Areas of Sarawak." Yayasan Sarawak Grant, 2022-2024. **MYR215,000.00**. Project Status: On-going. Project Role: **Principal Investigator**
6. Chin, M.Y., Lau, H.H. and **Kuok, K. K.**, "Fundamental mechanism of interfacial bonding between untreated and treated silicon manganese waste as coarse aggregate and cement matrix in concrete." Swinburne Internal Research Grant Phase 2/2021, 2021-2023. **MYR20,000.00**. Project Status: On-going. Project Role: **Co-Investigator**.

Industry Consultancy Project:

1. **Kuok, K. K.**, "Combination Of statistical and dynamic methods for deriving Rainfall Intensity Duration Frequency (IDF) Curves for major towns in Sarawak". *Jurutera Jasa Sdn. Bhd.*, 2018/2025. **MYR 36,000.00**. Status: On-going. Role: **Project Leader**.
2. **Kuok, K. K.**, "Design and analysis of on site detention tank and rain harvesting tank using stormwater module". *WenHong Plastic Industry Sdn. Bhd.*, 2019-2021. **MYR 20,000.00**. Status: On-going. Role: **Project Leader**.
3. Chin, M.Y., Rezaur, M.R., **Kuok, K. K.**, Khusairy, M.B. and Elfy, M.S. "Use of Calcium Fluoride Sludge as (i) Partial Cement Replacement for Cement Mortar and (ii) Filler Material for Polymer Composites." 2021. INDUSTRY GRANT From LONGi (KCH) SDN BHD. MYR38,768.00. Project Status: On-going. Project Role: **Co-Investigator**.

STEM Program:

4. Special Funding for IEMSSSS for Organising Mini Science Expo in Secondary Schools in Sarawak (2019)

- a) RM1000 from Ministry of Education, Science & Technology Research Sarawak
 - b) RM1000 from SEHATI Research Centre owned by Sarawak United People Party
5. Special Funding for IEMSSSS for Organising Mini Science Expo in Secondary Schools in Sarawak (2020)
- a) RM6000 from Ministry of Education, Science & Technology Research Sarawak
 - b) RM1300 from SEHATI Research Centre owned by Sarawak United People Party
 - c) RM1000 from Yayasan Sarawak Foundation
 - d)
6. Special Funding for IEMSSSS for Organising Mini Science Expo in Secondary Schools in Sarawak (2021)
- a) RM3000 from Ministry of Education, Science & Technology Research Sarawak
 - b) RM1000 from IEM Sarawak Branch

▪ **Selected Scientific Publications:**

Book Chapters

1. Jajarmizadeh, M., Harun, S., **Kuok, K. K.**, and Sabari, N. S. (2015). Contribution of climate forecast system meteorological data for flow prediction. *In ISFRAM 2014* (pp. 89-98). Springer, Singapore.
2. Kueh, S.M., **Kuok, K.K.**, Harun, S., and Jajarmizadeh, M. (2016) Forecasting Long Term Precipitation using Cuckoo Search Optimisation Neural Network Models. *In Contribution of Statistics Modelling In Hydrological Phenomena Prediction* (pp. 1-32). Penerbit UTM Press. ISBN: 978-983-52-1182-9
3. Ohueri, C. C., Enegbuma, W. I., **Kuok, K. K.**, Wong, N. M., Ng, L. T., & Kenley, R. (2018). Preliminary evaluation of synergizing BIM and Malaysian carbon reduction and environmental sustainability tool. *In International Conference on Sustainability in Energy and Buildings* (pp. 218-227). Springer, Cham. DOI: 10.1007/978-3-03004293-6_22.
4. **Kuok, K.K.**, Chiu, P.C. and Selamat, A. (2019). Comparison of Bat Neural Networks and Bat Optimisation Neural Networks for Rainfall Forecasting: Case Study for Kuching City. *In Advancing Technology Industrialization Through Intelligent Software Methodologies, Tools and Techniques: Proceedings of the 18th International Conference on New Trends in Intelligent Software Methodologies, Tools and Techniques (SoMeT_19)* (Vol. 318, p. 79-92). IOS Press, Netherland, 2019. DOI: 10.3233/FAIA190040 (**Scopus**)
5. Chiu, P.C., Selamat, A., Krejcar, O., and **Kuok K.K.** (2019). Missing Rainfall Data Estimation Using Artificial Neural Network and Nearest Neighbor Imputation. *In Advancing Technology Industrialization Through Intelligent Software Methodologies, Tools and Techniques: Proceedings of the 18th International Conference on New Trends in Intelligent Software Methodologies, Tools and Techniques (SoMeT_19)* (Vol. 318, p.p 132-143). IOS Press, Netherland, 2019. DOI: 10.3233/FAIA190044 (**Scopus**)
6. Law, S.L.G., **Kuok, K.K.**, and Trinidad, S.G. (2021). Experimental Study on Effects of Plot Length on Runoff Depth Under Natural Precipitation. *In IOP Conference Series: Materials Science and*

- Engineering* (Vol. 1101, No. 1, p. 012010). IOP Publishing. DOI: 10.1088/1757899X/1101/1/012010.
7. Law, S.L.G., **Kuok, K. K.**, and Trinidad, S.G. (2021). An Experimental Study on The Correlation of Natural Rainfall Intensities and Raindrop Size Distribution Characteristics. *In IOP Conference Series: Materials Science and Engineering* (Vol. 1101, No. 1, p. 012009). IOP Publishing. DOI:10.1088/1757-899X/1101/1/012009.
 8. **Kuok, K.K.**, Chan, C.P. and Harun, S. (2021). Cuckoo Search Optimisation Neural Networks for Runoff Simulation in a Equatorial Rural Watershed. *In Water Management and Sustainability in Asia (Community, Environment and Disaster Risk Management* (Vol.23, pp.87-97). Emerald Publishing Limited, Bingley. DOI: 10.1108/S2040-726220210000023015 (**Scopus**)
 9. Chiu, P. C., Selamat, A., Krejcar, O., & **Kuok, K. K.** (2021). Imputation of Rainfall Data Using Improved Neural Network Algorithm. *In Lecture Notes in Computer Science: Proceedings of ICPR, International Conference on Pattern Recognition (ICPR International Workshops and Challenges), January 10–15 2021, virtual/Del Bimbo A. et al.(eds)* (Vol. 12664, pp. 390-406). Springer. DOI: 10.1007/978-3-030-68799-1_28
 10. Bakri, M. K. B., Rahman, M. R., Yurkin, Y., Burkov, A., **Kuok, K. K.**, Yun, C. M., ... & Khui, P. L. N. (2022). Recycled plastic and textile waste biocomposites. *In Recycled Plastic Biocomposites* (pp. 97-118). Woodhead Publishing/Elsevier. DOI: 10.1016/B978-0-323-88653-6.00007-9
 11. Bakri, M. K. B., Rahman, M. R., Matin, M. M., Yurkin, Y., Burkov, A., Jayamani, E., **Kuok, K. K.**, Chin, M. Y. . & Omoregie, A. I. (2022). Marine-based reinforcing materials for biocomposites. *In Recycled Plastic Biocomposites* (pp. 229-245). Woodhead Publishing/Elsevier. DOI: 10.1016/B978-0-323-88653-6.00010-9
 12. Bakri, M. K. B., Rahman, M. R., Yurkin, Y., Burkov, A., **Kuok, K. K.**, Jayamani, E., ... & Omoregie, A. I. (2022). Resources and energy recovery with recycled plastic biocomposites. *In Recycled Plastic Biocomposites* (pp. 261-280). Woodhead Publishing/Elsevier. DOI: 10.1016/B978-0-323-88653-6.00004-3.
 13. Bakri, M. K. B., Rahman, M. R., Yurkin, Y., Burkov, A., Matin, M. M., **Kuok, K. K.**, ... & Khui, P. L. N. (2022). Food residue to reinforce recycled plastic biocomposites. *In Recycled Plastic Biocomposites* (pp. 29-49). Woodhead Publishing/Elsevier. DOI: 10.1016/B978-0-323-88653-6.00013-4
 14. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Jer, J. L. S., Bakri, M. K. B., & Matin, M. M. (2022). Bottom Ash as Sand Filler Replacement in Concrete. *In Waste Materials in Advanced Sustainable Concrete* (pp. 97-120). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_6
 15. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Chai, A. P. S., Ding, A. B. S., & Bakri, M. K. B. (2022). Glass Waste as Coarse Aggregate Filler Replacement in Concrete. *In Waste Materials in Advanced Sustainable Concrete* (pp. 25-44). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_2
 16. Yun, C. M., Rahman, M. R., Huda, D., **Kuok, K. K.**, Sze, A. C. P., Lin, D. C. X., & Bakri, M. K. B. (2022). Plastic Waste as Fine Aggregate for Sand Filler Replacement in Concrete. *In Waste Materials in Advanced Sustainable Concrete* (pp. 149-168). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_9
 17. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Seng, A. L. K., & Bakri, M. K. B. (2022). Pervious Concrete Properties and Its Applications. *In Waste Materials in Advanced Sustainable Concrete* (pp. 1-23). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_1
 18. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Kung-Jiek, J. T., & Bakri, M. K. B. (2022). Uncrushed Cockleshell as Coarse Aggregate Filler Replacement in Concrete. *In Waste Materials in Advanced Sustainable Concrete* (pp. 63-80). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_4

19. Yun, C. M., Rahman, M. R., Huda, D., **Kuok, K. K.**, Sze, A. C. P., Sering, R. A., & Bakri, M. K. B. (2022). Ceramic Tiles Waste as Coarse Aggregate Filler Replacement in Concrete. In *Waste Materials in Advanced Sustainable Concrete* (pp. 169-186). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_10
20. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Ang, W. W. W., Bakri, M. K. B., & Matin, M. M. (2022). Fly Ash High Volume Concrete Cast with Plastic Waste Filler. In *Waste Materials in Advanced Sustainable Concrete* (pp. 81-95). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_5
21. Yun, C. M., Rahman, M. R., Huda, D., **Kuok, K. K.**, Sze, A. C. P., Seng, J. K., & Bakri, M. K. B. (2022). Sawdust as Sand Filler Replacement in Concrete. In *Waste Materials in Advanced Sustainable Concrete* (pp. 133-148). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_8
22. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Zhiing, K. J. K., & Bakri, M. K. B. (2022). Glass Waste as Fine Aggregate Filler Replacement in Concrete Addition of Superplasticizer. In *Waste Materials in Advanced Sustainable Concrete* (pp. 45-61). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_3
23. Yun, C. M., Rahman, M. R., **Kuok, K. K.**, Sze, A. C. P., Qin, C. S., & Bakri, M. K. B. (2022). Bottom and Fly Ash as Sand and Portland Cement Filler Replacement in High Volume Concrete. In *Waste Materials in Advanced Sustainable Concrete* (pp. 121-132). Springer, Cham. DOI: 10.1007/978-3-030-98812-8_7
24. **Kuok, K.K.**, Tan, K.K.W., Chiu, P.C., Chin, M.Y., Rahman, M. R., Bakri, M. K. B. (2022) Application of Building Information Modelling (BIM) Technology in Drainage System Using Autodesk InfraWorks 360 Software. *CURRENT RESEARCH IN WATER RESOURCES, COASTAL AND ENVIRONMENT*. Proceedings of the 5th International Conference on Water Resources (ICWR), Springer. DOI: 10.1007/978-981-19-5947-9_18

Indexed Journals

1. **Kuok, K.K.**, and Bessaih, N. (2007). Artificial Neural Networks (ANNs) for Rainfall-runoff Modeling. *Journal of Institution of Engineers Malaysia*, Vol.68 No.3, September 2007.
2. **Kuok, K.K.**, Harun, S., and Shamsudin, S.M. (2010), Global Optimization Methods for Calibration and Optimization of the Hydrologic Tank Model's Parameters. *Canadian Journal on Environmental, Construction and Civil Engineering*, Vol. 1, No. 1, Feb. 2010. AM Publishers
3. **Kuok, K.K.**, Chiu, P.C., Chai, M.C., and Tiong, H.C. (2010). Relationship Between Storage Coefficient and Catchment Area Using HEC-HMS for Southern Region of Sarawak. *The IUP Journal of Soil and Water Sciences*, Vol. III, No. 4, Nov. 2010:20-33.
4. **Kuok, K.K.**, Harun, S., and Chiu, P.C. (2011). Investigation Best Number of Tanks for Hydrological Tank Model for Rural Catchment in Humid Region. *Journal of Institution of Engineers Malaysia*, Vol. 72 No.4, Dec 2011:1-11
5. **Kuok, K.K.**, Chiu, P.C., Kelvin. L., and Alvin, Y. (2011). Determination Number of Tanks for Tank Model at Southern Region of Sarawak. *The IUP Journal of Soil and Water Sciences*, Vol. IV, No. 4, Nov. 2011:34-46
6. **Kuok, K.K.**, and Chiu, P.C. (2013). Particle Image Velocimetry for Measuring Water Flow Velocity. Proceeding of International Conference of Civil & Construction Engineering, waset. 24th -25th December 2013, Bangkok Thailand, subsequently published in *International Journal of Environmental, Earth Science and Engineering* Vol:7 No:12, 2013
7. **Kuok, K.K.**, Mah, Y.S., and Chiu, P.C. (2015). Wastewater Reclamation, Recycling and Reuse Potential: A Case Study for Kuching City, Sarawak. *Water Utility Journal*, European Water Resources Association. ISSN (electronic version):1792-748X

8. **Kuok, K.K.** and Chiu, P.C. (2017) Application of Particle Image Velocimetry (PIV) for Measuring Water Velocity in Laboratory Sedimentation Tank. *IRA-International Journal of Technology & Engineering*, ISSN 2455-4480; Vol.09, Issue 03 (December 2017) Pg. no. 16-26 Institute of Research Advances. **Indexed Journals**
9. **Kuok, K.K.**, Harun, S., and Shamsudin, S.M. (2009), Particle Swarm Optimization Feedforward Neural Network for Hourly Rainfall-runoff Modelling in Bedup Basin, Basin. *Int. J. of Civil and Env. Eng., IJCEE/IJENS*, Vol 9 No:10, p20-39,2009 (**impact factor 0.4883**)
10. **Kuok, K.K.**, Harun, S., and Shamsudin, S.M. (2010), Particle Swarm Optimization Feedforward Neural Network for Modeling Runoff. *Int. J. of Environ. Sci. Tech., IJEST.*, 7(1), 67-78, winter 2010, ISSN: 1735-1472. (**Impact Factor 2010: 3.157; 5yr IF:3.534 ISI/SCI, Scopus**) (**Q2**) DOI: 10.1007/BF03326118
11. **Kuok, K.K.**, Harun, S., Shamsudin, S.M., and Chiu, P.C. (2010), Evaluation of Daily RainfallRunoff Model Using Multilayer Perceptron and Particle Swarm Optimization Feedforwards Neural Networks, *Journal of Environmental Hydrology* Vol 18, paper 10, May 2010.(**Scopus**) (**Q4**)
12. **Kuok, K.K.**, Harun, S. and Chiu, P.C. (2011). Hourly Runoff Forecast at Different Lead-time for a Small Watershed Using Artificial Neural Networks. *International Journal of Advances in Soft Computing and Its Application*. Vol. 3, No.1, March 2011: 68-86 (**Scopus**) (**Q3**)
13. **Kuok, K.K.**, Harun, S. and Chiu, P.C. (2011). A Review of Integrated River Basin Management for Sarawak River. *American Journal of Environmental Sciences*, 7:276-285 (**Scopus**) (**Q3**) DOI: 10.3844/ajessp.2011.276.285
14. **Kuok, K.K.**, Harun, S., Chiu, P.C., and Lai, S.H. (2011). Comparison of Particle Swarm Optimization and Shuffle Complex Evolution for Auto-Calibration of Hourly Tank Model's Parameters. – *International Journal of Advances in Soft Computing and Its Application*. Vol. 3, No.3, Nov 2011: 120 (**Scopus**) (**Q3**)
15. **Kuok, K.K.**, Harun, S., and Chiu, P.C. (2011). Auto-Calibration of Daily and Hourly Tank Model's Parameters using Genetic Algorithm. *Malaysian Journal of Civil Engineering* 23(2):12-28 (**Impact factor 0.035**) (**Q4**).
16. **Kuok, K.K.**, Wee, S.H.G., and Chiu, P.C. (2012). Micro Hydro Potential in Sarawak: The case of Bakelalan. *International Journal of Hydropower and Dams*. Vol.19, Issue 2 2012: 80-84 (**Scopus**) (**Q4**)
17. **Kuok, K.K.**, Liew, Z.Z., and Chiu, P.C. (2012). Flood Map Development by Coupling Satellite Maps and Three-dimensional Drafting Software: Case Study of Sarawak River Basin. *Water SA January 2013 (Vol 39 No.1)* (**ISI, impact factor 0.447**) (**Scopus Q2**) DOI: 10.4314/wsa.v39i1.18
18. **Kuok, K.K.**, and Chiu, P.C. (2013). Particle Swarm Optimization for Calibrating and Optimizing Xinanjiang Model Parameters. *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 3, No. 9, 2012 (**Scopus Q3**) DOI: 10.14569/IJACSA.2012.030917
19. Mah, Y.S. and **Kuok, K.K.**, (2013).Field Investigation of Anthropogenic Impacted Lowland Riparian Zones. *Journal of Water Resource and Protection (JWARP)* Vol.5, 259-265 (**ERA**) DOI:10.4236/jwarp.2013.53026

20. **Kuok, K.K.**, and Chiu, P.C. (2013). Particle Swarm Optimization and Shuffle Complex Evolution for Calibrating Xinanjiang Model Parameters. *International Journal of Computers & Technology*. Vol 10, No 10 Sept 2013 (Impact Factor 1.341) DOI: 10.24297/ijct.v10i10.1202
21. **Kuok, K.K.**, Mah, Y.S. and Chiu, P.C., (2013). Evaluation of C and P Factors in Universal Soil Loss Equation for Trapping Sediment: Case study of Santubong River. *Journal of Water Resource and Protection*, 2013 (Vol 5 No.12) **(ERA)** DOI:10.4236/jwarp.2013.512121
22. Kueh, S.M., and **Kuok, K.K.** (2014). Forecasting Long Term Precipitation using Cuckoo Search Optimization Neural Network Models. *Environmental Engineering and Management Journal*. **(WOS, SCOPUS Q3, Impact factor 3.0541)**
23. **Kuok, K.K.**, Chiu, P.C., and Sobri, H. (2015). Evaluation of Multiobjective Particle Swarm Optimization for Optimizing Tank Model's Parameters. *International Journal Advance Soft Computing and its Application*. Vol. 7, No. 1, March 2015 pp 64-77. ISSN 2074-8523 **(Scopus) (Q3)**
24. **Kuok, K.K.**, and Chiu, P.C. (2015) Investigation of River Stage Simulation Before and After Bengoh Dam Construction: Case Study of Sarawak River Basin Malaysia. *International Journal of Science and Engineering Investigations (IJSEI)*. Vol. 4, issue 42, July 2015 ISSN: 2251-8843 **(2 Years Impact Factor: 0.88)**
25. Mah, Y.S., **Kuok, K.K.** and Teo, F.Y. (2015) Case study of exploited riparian corridors: rapid assessment of ecological health for riparian buffer Width. *International Journal of River Basin Management*. Taylor & Francis **(WOS, Scopus Q2)** DOI: 10.1080/15715124.2015.1068177 ISSN: 1571-5124 (Print) 1814-2060 (Online)
26. **Kuok, K.K.**, Mah, Y.S., Imteaz, M.A., and Kueh, S.M. (2015) Comparison of future intensity duration frequency curve by considering the impact of climate change: case study for Kuching city. *International Journal of River Basin Management*. Taylor & Francis **(WOS, Scopus Q2)** DOI: 10.1080/15715124.2015.1082478 ISSN: 1571-5124 (Print) 1814-2060 (Online)
27. Imteaz, M.A., Nguyen, T., and **Kuok, K.K.** (2015) Experimental and mathematical modelling study on clogging behaviour of bioretention systems. *Int. J. Hydrology Science and Technology*, Vol. 5, No. 1, 2015 **(Scopus) (Q3)** DOI: 10.1504/IJHST.2015.069280
28. Kueh, S.M., and **Kuok, K.K.** (2016) Precipitation downscaling using the artificial neural network BatNN and development of future rainfall intensity-duration-frequency curves. *Climate Research*. Vol. 68: 73–89, 2016. **(WOS, Scopus Q1)** DOI: 10.3354/cr01383
29. **Kuok, K.K.**, Chiu, P.C., and Elfy, M.M. (2017) Investigation of Sarawak River Kiri Sedimentation Before and After Bengoh Dam Construction. *International Journal of Geology, Agriculture and Environmental Sciences*, ISSN: 2348-0254, Vol 5, Issue 6, Pg. 9-12. **(Impact Factor:1.93)**
30. **Kuok, K.K.**, Kueh, S.M., and Chiu, P.C. (2018). Bat optimisation neural networks for rainfall forecasting: case study for Kuching city. *Journal of Water and Climate Change*, IWA publishing, 2018. **(WOS, Scopus Q2)** DOI: 10.2166/wcc.2018.136
31. Ohueri, C. C., Enegbuna, W. I., Wong, N. H., **Kuok, K. K.**, and Kenley, R. (2018). Labour productivity motivation framework for Iskandar Malaysia. *Built Environment Project and Asset Management*. **(WOS, Scopus Q2)** DOI: 10.1108/BEPAM-09-2017-0070

32. **Kuok, K. K.**, and Chiu, P. C. (2018). Indigenous drinking-water consumption pattern of residents in Kuching city: results of a pilot study. *Journal of Water, Sanitation and Hygiene for Development*, 8(4), 817-824. **(WOS, Scopus Q2)** DOI: 10.2166/washdev.2018.004
33. **Kuok, K. K.**, and Chiu, P. C. (2019). Space-saving rainwater harvesting tanks for double storyhouses in Kuching, Sarawak. *International Journal of Engineering & Technology*, 8 (1) (2019) 38-43. Scopus **(Scopus Q4)** DOI: 10.14419/ijet.v8i1.17437
34. Lai, W.Y., and **Kuok, K. K.** (2019). A Study on Bayesian Principal Component Analysis for Addressing Missing Rainfall Data. *Water Resources Management*. **(WOS, Scopus Q1)** DOI: 10.1007/s11269-01902209-8
35. Lai, W.Y., **Kuok, K.K.**, Shirley G.T., and Ling, D.K.X., (2019) A Study on Sequential K-Nearest Neighbor (SKNN) Imputation for Treating Missing Rainfall Data. *International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)*. 8(3), 363-368. **(Scopus)** DOI: 10.30534/ijatcse/2019/05832019
36. Teng, L.Y.H., **Kuok, K.K.**, Monzur, I., Lai, W.Y. and Ling, D.K.X. (2019) Development of Whale Optimization Neural Network for Daily Water Level Forecasting. *International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)*. 8(3), 354-362. **(Scopus)** DOI:10.30534/ijatcse/2019/04832019
37. Mohanad., F.E.A, **Kuok, K.K.**, and Matthew, W.N.H. (2019). The Adoption of 3D Printing in Middle East Refugee Camp toward Urbanized Sheltering Solution. *International Journal of Engineering & Technology*, 8 (1) (2019) 38-43. **(Scopus, Q4)** DOI: 10.14419/ijet.v8i3.29719
38. **Kuok, K.K.**, and Chiu, P.C. (2020). Optimisation of Rainwater Harvesting Tank Size for Residential Houses in Kuching, Sarawak. *Journal of Engineering Science and Technology (JESTEC)*. Vol. 15, No. 1 (2020) 541 – 554, School of Engineering, Taylor’s University, Malaysia. **(WOS, Scopus Q2)**
39. Samuel, L.L.G., and **Kuok, K.K.** (2020). Sensitivity Analysis of the Revised Universal Soil Loss Equation’s (RUSLE) for Rainfall Erosivity Factor (R-Factor) in Sarawak Region. *Test Engineering and Management (Scopus Q4)*.
40. Samuel, L.L.G., **Kuok, K. K.**, and Gato-Trinidad, S. (2020). Length-Steepness Factor of RUSLE on the Soil Loss Rate Estimation: A Sensitivity Evaluation. *Solid State Technology*, 63(6), 2048120486. **(Scopus Q4)**
41. **Kuok, K. K.**, Chiu, P. C., & Ting, D. C. M. (2020). Evaluation of “C” Values to Head Loss and Water Pressure Due to Pipe Aging: Case Study of Uni-Central Sarawak. *Journal of Water Resource and Protection*, 12(12), 1077. **(ERA)** DOI:10.4236/jwarp.2020.1212064
42. **Kuok K. K.**, Eva, Chen, and Po Chan, Chiu. (2020). Integration of IR4. 0 with Geospatial SuperMap GIS and InfoWorks ICM. *Solid State Technology*, 63(6), 21651-21662. **(Scopus Q4)**
43. Akeila, M., Preece, C., & **Kuok, K. K. K.** (2021). Evaluating the Environmental Performance of 3D Printed Shelters in Jordan. *Journal of Construction in Developing Countries*, 26(2), 117-134. **(WOS, Scopus Q3)** DOI: 10.21315/jcdc2021.26.2.6
44. Khui, P. L. N., Rahman, M. R., **Kuok, K. K.**, Bakri, M. K. B., Adamu, M., Tazeddinova, D., ... and Torebek, B. (2021). Small-size Jatropha Seed Biochar Extracted from Microwave Pyrolysis: Optimization of Its Biocomposites Mechanical Properties by Mixture Design. *BioResources*, 16(3), 4716-4730. **(WOS, Scopus Q2)** DOI: 10.15376/biores.16.3.4716-4730

45. Khui, P. L. N., Rahman, M. R., Ahmed, A. S., **Kuok, K. K.**, Bakri, M. K. B., Tazeddinova, D., ... & Torebek, B. B. (2021). Morphological and Thermal Properties of Composites Prepared with Poly (lactic acid), Poly (ethylene-alt-maleic anhydride), and Biochar from Microwavepyrolyzed *Jatropha* Seeds. *BioResources*, 16(2), 3171-3185. **(WOS, Scopus Q2)** DOI: 10.15376/biores.16.2.3171-3185
46. **Kuok, K. K.**, Chiu, P. C., & Chin, M. Y. (2021). Sarawak River Flow Behaviour after Matang Bypass Channel Construction during Low Tide Using InfoWorks River Simulation (RS). *Journal of Environmental Protection*, 12(01), 36. **(ERA)** DOI: 10.4236/jep.2021.121004
47. Chin, M. Y., Rahman, M. R., **Kuok, K. K.**, Chiew, W. Y., & Bakri, M. K. B. (2021). Characterization and Impact of Curing Duration on the Compressive Strength of Coconut Shell Coarse Aggregate in Concrete. *BioResources*, 16(3), 6057-6073. **(WOS, Scopus Q2)** DOI: 10.15376/biores.16.3.6057-6073
48. **Kuok, K. K.**, Tay, Y. Y. S., & Chiu, P. C. (2021). Integrated Coastal Zone Management to Protect the Sarawak Shoreline. *Journal of Coastal Conservation*, Springer. **(WOS, Scopus Q2)** DOI : 10.1007/s11852-021-00835-2
49. **Kuok, K. K.**, Chiu, P. C., Rahman, M. R., Bakri, M. K. B., & Chin, M. Y. (2021). Performance of Rainwater Harvesting Systems in Institutional Buildings Under Different Reliability and Future Economy Benefits. *Journal of Hunan University Natural Sciences*, 48(8). **(WOS, Scopus Q2)**
50. Chiu, P. C., Selamat, A., Krejcar, O., **Kuok, K. K.**, Enrique, H. V., & Giuseppe, F. (2021). Imputation of Rainfall Data using the Sine Cosine Function Fitting Neural Network. *International Journal of Interactive Multimedia and Artificial Intelligence*, 6(7). **(WOS, Scopus Q2, impact factor 3.137)**. DOI: 10.9781/ijimai.2021.08.013
51. Chiu, P. C., Selamat, A., Krejcar, O., and **Kuok, K. K.** (2021). Hybrid Sine Cosine and Fitness Dependent Optimizer for global optimization. *IEEE Access Computer Science*, 9, 128601-128622 **(WOS, impact factor 3.367, Scopus Q1)**.
52. Akeila, M., **Kuok, K.K.**, and Preece, C. (2021). Sheltering Execution Printable Plan in Jordan. *Saudi J Civ Eng*, 5(7), 212-221.
53. **Kuok, K. K.**, Mersal, M. E., Chiu, P. C., Rahman, M. R., Bakri, M. K. B., & Chin, M. Y. (2021). Stage-storage and Flood Risk Assessments of Upgraded Batu Kitang Submersible Weir. *Journal of Southwest Jiaotong University*, 56(5). **(Scopus Q2)**. DOI: 10.35741/issn.0258-2724.56.5.19
54. Akeila, M., Preece, C., & **Kuok, K. K. K.** (2021). Evaluating the Environmental Performance of 3D Printed Shelters in Jordan. *Journal of Construction in Developing Countries*, 26(2), 117-134. **(Scopus Q2, WOS)** DOI: 10.21315/jcdc2021.26.2.6
55. Yun, C. M., Bakri, M. K. B., Rahman, M. R., **Kuok, K. K.**, Khui, P. L. N., & Huda, D. (2022). Effect of Chemical Treatment on Silicon Manganese: Its Morphological, Elemental and Spectral Properties and Its Usage in Concrete. *Silicon*, 1-16. Springer **(Scopus Q2, WOS)** DOI: 10.1007/s12633-021-01569-4
56. Chiu, P. C., Selamat, A., Krejcar, O., **Kuok, K. K.**, Bujang, S. D. A., & Fujita, H. (2022). Missing Value Imputation Designs and Methods of Nature-Inspired Metaheuristic Techniques: A Systematic Review. *IEEE Access*. DOI: 10.1109/ACCESS.2022.3172319 **(Scopus Q1, WOS)**

57. Taib, N. A. A. B., Rahman, M. R., Huda, D., **Kuok, K. K.**, Hamdan, S., Bakri, M. K. B., ... & Khan, A. (2022). A review on poly lactic acid (PLA) as a biodegradable polymer. *Polymer Bulletin*, 1-35. Springer. **(Scopus Q2, WOS)** DOI: 10.1007/s00289-022-04160-y
58. Khui, N., Law, P., Rahman, R., Yun, A. H., Huda, D., Hamdan, S., Bakri, M. K., Matin, M. M., **Kuok, K. K.**, Chin, M. Y., Al-Bogami, A. S., Alamry, K. A. & Rahman, M. M. (2022). Characterization and Optimization of Organoclaypoly (melamine-co-formaldehyde)-methylated Solution Impregnated Pulai (*Alstonia* spp.) Wood Using Response Surface Methodology. *BioResources*, 17(2). **(WOS Q2, Scopus)** DOI: 10.15376/biores.17.2.2780-2809
59. Matin, P., Rahman, M. R., Huda, D., Bin Bakri, M. K., Uddin, J., Yurkin, Y., Burkov, A, **Kuok, K.K.** & Matin, M. M. (2022). Application of Synthetic Acyl Glucopyranosides for White-rot and Brown-rot Fungal Decay Resistance in Aspen and Pine Wood. *BioResources*, 17(2). **(WOS Q2, Scopus)** DOI: 10.15376/biores.17.2.3025-3041
60. **Kuok, K. K.**, Rahman, M. R., Bakri, M. K. B., Chan, C. P., Yun, C. M., Al-Bogami, A. S., ... & Rahman, M. M. (2022). Sustainable Clean Water Production Using Bamboo Activated Carbon for Rural Residents in the Borneo Island. *BioResources*, 17(2), 3227-3241. **(WOS Q2, Scopus)** DOI: 10.15376/biores.17.2.3227-3241
61. Rahman, A., Chowdhury, M. A., Hossain, N., Shuvho, M. B. A., Kowser, M. A., Rahman, M. R., Chani, M.T.S., **Kuok, K.K.** & Rahman, M. M. (2022). Improvement of Mechanical, Thermal, and Physical Behaviors of Jute/Cotton Biocomposites Reinforced by Spent Tea Leaf Particles. *Journal of Composites Science*, 6(5), 145. **(Scopus Q2, WOS)** MDPI. DOI: 10.3390/jcs6050145
62. James, A. A., Rahman, M. R., Huda, D., Aqlan, F. M., Matin, M. M., Bakri, B., **Kuok, K.K.** & Rahman, M. M. (2022). Synthesis and Characterization of Novel Nano-carbon Mixture from Dabai (*Canarium odontophyllum*) Nutshell. *BioResources*, 17(3). **(WOS Q2, Scopus)** DOI: 10.15376/biores.17.3.4452-4469
63. Mersal, M. E., **Kuok, K. K.**, Chiu, P. C., Rahman, M. R., Bakri, M. K. B., & Chin, M. Y. (2022). EFFECTS OF BENGHOH DAM CONSTRUCTION ON SEDIMENTATION AND EROSION IN THE SARAWAK KIRI RIVER. *Journal of Southwest Jiaotong University*, 57(4). **(Scopus Q2)** DOI: 10.35741/issn.0258-2724.57.4.16
64. **Kuok, K. K.**, Chiu, P. C., Rahman, M. R., Bakri, M. K. B., & Chin, M. Y. (2022). Effectiveness of Centralized Wastewater Treatment Plant in Removing Emerging Contaminants: A Case Study at Kuching, Malaysia. *Journal of Water Resource and Protection*, 14(9), 650-663. **(ERA)**. DOI: 10.4236/jwarp.2022.149034
65. Law, S. L. G., **Kuok, K. K.**, Trinidad, S. G., Chiu, P. C., Rahman, M. R., Bakri, M. K. B., & Chin, M. Y. (2022). Experimental Approach to Developing Equatorial Soil Loss Equation. *Journal of Hunan University Natural Sciences*, 49(10). (Scopus Q2) DOI:10.55463/issn.1674-2974.49.10.5
66. **Kuok, K. K.**, Mersal, M., Chiu, P. C., Chin, M. Y., Rahman, M., & Bakri, M. K. B. (2022). Climate change impacts on sea level rise to flood depth and extent of Sarawak River. *Frontiers in Water*, 4, 199. (WOS) DOI: 10.3389/frwa.2022.870936
67. Ging, S. L. L., **Kuok, K. K.**, Chan, C. P., Rahman, M. R., Bakri, M. K. B., & Yun, C. M. (2022). PHOTOGRAMMETRIC TECHNIQUE FOR ANALYZING RAINDROP SIZE DISTRIBUTION. *Journal of Southwest Jiaotong University*, 57(5). (Scopus Q2, WOS). DOI:10.35741/issn.0258-2724.57.5.30

68. **KUOK, K. K., & CHIU, P. C.** (2022). HYDROLOGICAL MODELLING AND EVALUATION OF DETENTION PONDS TRANSFORMED FROM ROUNDABOUT TO MITIGATE URBAN FLOODING. *Journal of Engineering Science and Technology*, 17(6), 4398-4409. (Scopus Q3, WOS).
69. **KUOK, K. K., CHAN, C. P., RAHMAN, M. R., BAKRI, M. K., & YUN, C. M.** (2023). MODELLING THE EFFECTS OF SOCIO-ECONOMIC DEMOGRAPHICS ON URBAN WATER USAGE IN KOTA SAMARAHAN, SARAWAK: A NEW EDUCATION HUB IN BORNEO ISLAND. *Journal of Sustainability Science and Management*, 18(1), 102-117. (Scopus Q3, WOS).
70. Lai, W. Y., **Kuok, K. K.**, Gato-Trinidad, S., Rahman, M. R., & Bakri, M. K. (2023). Metaheuristic Algorithms to Enhance the Performance of a Feedforward Neural Network in Addressing Missing Hourly Precipitation. *International Journal of Integrated Engineering*, 15(1), 273-285. . (Scopus Q3, WOS).
- 71.

Refereed Conference Proceedings

1. Bessaih, N., Mah Y.S., Mohd., S.M., **Kuok, K.K.**, and Rosmina A.B. (2003) Artificial Neural Network for Daily Runoff Estimation. *Proceedings of the Engineering and Technology Conference 2003, Kuching, Sarawak*, pp. 178-185.
2. Bustami, R.A., Bessaih, N., Mohd., S.M., and **Kuok, K.K.** (2003) Artificial Neural Networks for Water Level Estimation. *Proceedings of International Conference on Advancement in Science and Technology*, Kuala Lumpur, Malaysia, pp. 65-66.
3. **Kuok, K.K.**, Bessaih, N., and Mohd S.M. (2004). Artificial Neural Networks (ANNs) for Daily Runoff Forecasting. *Proceedings of UNIMAS Post-Graduate Engineering Colloquium*, 9th June 2004.
4. **Kuok, K.K.**, Harun, S., Shamsudin, S.M., and Chiu, P.C. (2008). Tank Model's Parameters Optimization Using Particle Swarm Optimization (PSO) Technique and Shuffle Complex Evolution (SCE) Technique. *Proceeding of Curtin University of Technology Science and Engineering International Conference (CUTSE'08)*, 24th - 27th November 2008, Miri, Sarawak.
5. **Kuok, K.K.**, Harun, S., Shamsudin, S.M., and Chiu, P.C. (2009). Optimization of Tank Model's Parameters Using Particle Swarm Optimization approach (PSO). *Proceeding of International Conference on Engineering and Education in the 21st Century (ICEE)*, 23rd - 25th Mac 2009, Kuching, Sarawak.
6. **Kuok, K.K.**, Harun, S., and Shamsudin, S.M. (2009). Hourly Rainfall-runoff Modelling Using Particle Swarm Optimization Feedforward Neural Network (PSO-NN). *Proceeding of International Conference of Water Resources (ICWR 2009)*, 26th – 27th May 2009, Langkawi, Kedah.
7. **Kuok, K.K.**, Harun, S., Shamsudin, S.M., and Chiu, P.C. (2010). Flood Forecasting Model Using Multilayer Perceptron and Recurrent Neural Network. *Proceeding of International conference of sustainable building and infrastructure 2010 (ICSBI 2010)*, 15th-17th June 2010, Kuala Lumpur Convention Centre
8. **Kuok, K.K.**, Harun, S., and Shamsudin, S.M. (2010). Comparison of Multilayer Perceptron (MLP) and Particle Swarm Optimization Feedforward (PSO-NN) Neural Networks for Modeling Runoff

of Bedup Basin, Malaysia. *Proceeding of 1st IWA Malaysia, young water professionals conference (IWAYWP2020)*, 2nd-4th Mac 2010, Kuala Lumpur.

9. **Kuok, K.K.**, Chiu, P.C., and Harun, S. (2011). Multiobjective Particle Swarm Optimization for optimizing Daily Tank Model's Parameters. *Proceeding of ASEAN Australian Engineering Congress*, 25th -27th July 2011, Kuching.
10. **Kuok, K.K.**, Kueh, S.M., and Chiu, P.C. (2011). Sarawak River Basin Long Storage Water Resource Beyond 2030. *Proceeding of National Seminar in Civil Engineering Research, SEPKA 2011, Universiti Teknologi Malaysia*. 13th - 15th, September, 2011, UTM Skudai, Johor.
11. **Kuok, K.K.**, Chiu, P.C., and Harun, S. (2011). Handling Multiobjective Particle Swarm Optimization for optimization of Hourly Tank Model's Parameters *Proceeding of Rivers' 2011, Universiti Sains Malaysia*, 6th -9th Dec 2011, Penang.
12. Kueh, S. M., **Kuok, K.K.**, and Vakhguelt, A. (2012). Prediction of Daily Precipitation of Kuching on Global Climate Change Projections using Statistical Downscaling Approach. *Proceeding of 5th Engineering Conference (EnCon 2012) Unimas*. 10th -12th July 2012, Kuching.
13. **Kuok, K.K.**, and Chiu, P.C. (2012). Calibration of Daily Xinanjiang model parameters using Particle Swarm Optimization. *Proceeding of International Conference of Water Resources (ICWR2012)*, 5th -9th Nov 2012, Pulau Langkawi.
14. Mah, D.Y.S. and **Kuok, K.K.K.** (2014). Riparian Buffers: Investigation on Riparian Health and Associated Width. *Proceeding of 13th International Conference on Urban Drainage*, Sarawak, Malaysia, 7-12 September 2014
15. **Kuok, K.K.**, Mah, Y.S., Monzur, A.I. & Kueh, S.M. (2014). Estimation of Future Intensity Duration Curve by Considering the Impact of Climate Change: Case Study for Kuching City. *Proceeding of 13th International Conference on Urban Drainage*, Sarawak, Malaysia, 7-12 September 2014. (IWA & IAHR Proceeding)
16. Kueh, S.M. & **Kuok, K.K.** (2014). Bat Neural Network to Forecast Impact of Climate Change on Long Term Rainfall Trend. *Proceeding of 19th International Conference on Transformative Research in Science and Engineering, Business and Social Innovation (SDPS 2014)* 15th -19th June 2014 Kuching, Sarawak, Malaysia.
17. Milad, J., Sobri, H., **Kuok, K.K.** and Norman, S.S. (2014). Contribution of Climate Forecast System Meteorological Data for Flow Prediction. *Proceeding of International Symposium on Flood Research and Management (ISFRAM 2014)* 28th Sep.-1st Oct. 2014, Kota Kinabalu Sabah, Malaysia. (ISI proceeding)
18. **KK Kuok**, PC Chiu & FY Teo (2015). Comparison of River Stage at Sarawak Kiri River Before and After Bengoh Dam Construction". *Proceeding of International Conference of Water Resources 2015 (ICWR2015)*, 23 & 24 November 2015, Pulau Langkawi.
19. Ohueri CC, Enegbuma WI, Ekambaram P, Wong MNH & **Kuok KK** (2017). Energy efficiency framework for Malaysia's green office building occupants. *Proceeding of 22nd International Conference on Advancement of Construction Management and Real Estate (CRIOCM 2017)*, Melbourne, Australia, 20 - 23 November, 2017 / Patrick X. W. Zou, Jay Sanjayan, Morshed Alam (eds), pp. 827-834

20. Teng, L.Y.H. & **Kuok, K. K.** (2018) Simulation and forecasting of precipitation in Kuching City by using Salp Swarm Optimization Neural Network. International UNIMAS International UNIMAS STEM Engineering Conference 2018.
21. Kho, K.K.Y. & **Kuok, K. K** (2018) Forecasting Long Term Precipitation using Snap-Drift Cuckoo Search Neural Network Model. International UNIMAS STEM Engineering Conference 2018.
22. **Kuok, K. K.**, Chiu, P. C. & Sobri. H. (2018) Cuckoo Search Optimisation Neural Networks for Rainfall-runoff Modelling: Case Study for Bedup Basin, Sarawak, Malaysia. International Conference of Water Resources 2018 ,Langkawi.
23. Lai, W.Y., **Kuok, K.K.**, Shirley G.T., & Ling, D.K.X., (2019) A Study on Sequential K-Nearest Neighbor (SKNN) Imputation for Treating Missing Rainfall Data. Proceeding of 10th International Conference on Computing, Technology and Engineering (ICCTE 2019) Corus Hotel Kuala Lumpur Hotel, Kuala Lumpur, Malaysia May 13-14, 2019.
24. Teng, L.Y.H., **Kuok, K.K.**, Monzur, I., Lai, W.Y. & Ling, D.K.X. (2019) Development of Whale Optimization Neural Network for Daily Water Level Forecasting. Proceeding of 10th International Conference on Computing, Technology and Engineering (ICCTE 2019) Corus Hotel Kuala Lumpur Hotel, Kuala Lumpur, Malaysia May 13-14, 2019.
25. **Kuok, K.K.**, Chiu, P.C. and Selamat, A. (2019). Comparison of Bat Neural Networks and Bat Optimisation Neural Networks for Rainfall Forecasting: Case Study for Kuching City. Accepted by Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET_19) that will take place on September 23~25, 2019, in Kuching, Sarawak, Malaysia.
26. Chiu, P.C., Selamat, A., Krejcar, O., and **Kuok K.K.** (2019). Missing Rainfall Data Estimation Using Artificial Neural Network and Nearest Neighbor Imputation. Accepted by Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET_19) that will take place on September 23~25, 2019, in Kuching, Sarawak, Malaysia.
27. Samuel, L.L.G., and **Kuok, K.K.** (2019). Sensitivity Analysis of the Revised Universal Soil Loss Equation's (RUSLE) for Rainfall Erosivity Factor (R-Factor) in Sarawak Region. International Conference on Applied Sciences, Engineering, Technology & Management (ICASETEM), 16th & 17th October 2019 at Asia Pacific University of Technology & Innovation (APU). **Best Paper Award.**
28. Akeila, M., **Kuok, K.K.K.**, and Preece, C. (2020). Evaluating The Structural Stability of 3D Printed. International Conference on Advances in Mechanical, Civil, and Construction Engineering (ICAMCCE) held in Dubai, UAE on 25 September, 2020 at: Dubai, UAE.
29. **Kuok, K.K.**, Tan, K.W.K., Chiu, P.C., Chin, M.Y., Rahman, M. R. & Bakri, M. K. B. (2021). Application of Building Information Modelling (BIM) Technology in Drainage System using Autodesk InfraWorks 360 software. International Conference of Water Resources 2021 (ICWR2021) Universiti Teknologi Malaysia, 23rd - 25th November 2021.
30. Chai, P.S.A., Chin, M.Y., **Kuok, K.K.**, Rahman, M. R. & Bakri, M. K. B. (2021). Sand Properties for Concrete Application. International Conference on Recent Trends in Construction Materials and Structures (ICON2021) Vellore Institute of Technology (VIT), Vellore, India – 25th & 26th November 2021. **Best Paper Award.**

Magazine Articles

1. **Kuok, K.K.** and Chiu, P.C. (2013). Isohyetal map development using three-dimensional drafting software: Case study of the Sarawak Region. JURUTERA Bulletin Institution of Engineers Malaysia, Oct 2013.
2. **Kuok K.K.** (2016) The Rainmaker, article published in Discover Magazine, Swinburne University Technology Sarawak Campus.

Newspaper Articles

1. **Kuok, K.K.** (2010). Real-time Flood Forecasting and Monitoring System. Published in Campus & Beyond Column on 28 April 2010.
2. **Kuok, K.K.** (2013). Micro Hydropower Potential in Sarawak. Published in Campus & Beyond Column on 4 Sept 2013.
3. **Kuok, K.K.**, and Bakri, M. K. B (2021). Bio-nanocomposites as nanoengineered wastewater treatment. Published in Campus & Beyond Column on 28 April 2021.

▪ Teaching and learning experience summary

Through my academic career, I have taught a variety of units offered in Civil Engineering courses at Swinburne Sarawak, which include: CVE10005 Civil Engineering Project (old code HES1105), CVE30001 Urban Water Resources (old code HES3112), CVE40004 Water and Environmental Engineering (old code HES4146), CVE80006 Infrastructure Deterioration and Assessment (old code HES5191), CVE40006 Infrastructure Design Project (old code HES5190), CVE40008 Final Year Project Research 1 (new code ENG 400001), CVE40009 Final Year Project Research 2, DEC354 Project 1, DEC362 Project 2.

To date, I have taught courses at both bachelor and diploma levels where I have developed teaching materials, designed formative and summative assessments that are aligned to learning outcomes of the unit of study. Past student surveys affirm my demonstrated excellence in teaching. I have consistently achieved higher than Faculty and University average scores in Student Feedback on Teaching (SFT) surveys for all units taught, with a typical SFT score above 5 on a Likert scale of 6 before year 2016 and above 8 on the Likert scale of 10 after year 2016. I had successfully supervised 93 undergraduate Final year research projects, where some of them were published in quality Thomson Reuters and SCOPUS indexed publications. I also organize an annual site visit that exposes them to a clearer pathway and picture of the actual engineering world.

Undergraduate Final Year Project Supervision

Main Supervisor at Swinburne University Sarawak Campus

Sem 1, 2010

1. Relationship between HEC-HMS Parameters and Catchment Area for Sg. Bedup Basin, Sarawak by Chai Min Chung and Tiong Huo Chuang [Credit]
2. Rainfall-runoff Modelling for Sg. Bedup Basin Using HEC-HMS by Raymond Tan Sing Ngee and Aizuddin bin Mohammed [Credit] **Sem 2, 2010**

3. Development of Flood Forecasting model for Sg Bedup, SgBatu Gong and Sg Rayu using Manually Calibrated Tank Model by Kelvin Law and Alvin Yap [Credit]
4. Daily Rainfall-runoff Modelling for Sg. Bedup, SgBatu Gong and Sg Rayu Basin Using Tank Model by Emmanuel Lai and Henry Ngu [Credit]

Sem 1, 2011

5. Sarawak River Basin Long Storage Beyond 2030 (using flowrate data 2001) by Kueh Sze Miang [Distinction]
6. Sarawak River Basin Long Storage Beyond 2030 (using flowrate data 1992) by Leong Yun [Credit]
7. Analysis of Isohyet for Sarawak region using Autocad Civil 3D (comparison of data set Year 1980 and 2007) by Chong Ka Jin [Credit]
8. Analysis of Isohyet for Sarawak region using Autocad Civil 3D (comparison of data set Year 1990 and 2004) by Aldrich Chan [Credit] **Sem 2, 2011**

9. Assessment of Hydrological Network Station for Baram and Kemena Basin by Rasphal Singh [Credit]
10. Assessment of Hydrological Network Station for Upper Rajang and Krian Basins by Charles Lawrence [Credit]
11. Development of Flood Map in Sarawak River Basin by Coupling Google Earth and Autocad Civil 3D by Liew Zun Ziet [Distinction]
12. Development of Flood Map in Sarawak River Basin by Coupling Google Earth and Autocad Civil 3D by Sung Chin Guan [Distinction]

Sem 1, 2012

13. Design of storage detention pond according to MASMA at Sungai Maong, Kuching using Microsoft Excel by Atem Biar [Distinction]
14. Design of storage detention pond according to MASMA at Pulai, Johor using Microsoft Excel by NurNasuha [Credit]
15. Study of Urban Drainage Design at Part of Sungai Maong Catchment Area, Kuching by Mohd.Qhairry [Credit]
16. Study of Urban Drainage Design at Part of Batu Lintang Area, Kuching by Kelvin Chai [Credit]

Sem 2, 2012

17. Design of rain harvesting tank using Tangki NAHRIM for Batu Pahat by Chang Tze Seng [Credit]
18. Design of rain harvesting tank using Tangki NAHRIM for George Town by Yang Liang Wei [Credit]
19. Investigation of Buffer Zone Width using "Buffer Zone Calculator" for semi-rural catchment by Kho Kang Hong [Distinction]
20. Investigation of Buffer Zone Width using "Buffer Zone Calculator" for rural catchment by Lee Hong Xing [Distinction]

Sem 1, 2013

21. Design of Soccer Field Using Bio-Filter Drain by Sharifah Nur A. [Distinction]

22. Design of Open Space Between Building B and E, Swinburne University Sarawak Campus Using Bio-Filter Drain by Tang Sieu Wei [Distinction]
23. Drinking Water Consumption Patterns of Residents in Kuching City South by Lucas Ngu [Credit]
24. Drinking Water Consumption Patterns of Residents in Kuching City North by Chia Chung Aik [Credit]
25. Design of Reclaimed Water Supply System for Sama Jaya Free Industry Zone by Royston Gawing [Credit]
26. Design of Reclaimed Water Supply System for Sejingkat Industry Area by Abang Azmi Reza [Credit]

Sem 2, 2012 & Sem 1, 2013 Co-Supervisor at Unimas

27. Riparian Buffer: Case Study of Stutong River (Tabuan Jaya Baru, Kuching) by Lau Pei Ching (Unimas) [Distinction]
28. Riparian Buffer: Case Study of Kuap River (Stampin Resettlement Scheme, Kuching) by Lau Chung Xin (Unimas) [Distinction]

Sem 1, 2014

29. Comparison of Above-ground On-site Detention (OSD) Design Using Urban Stormwater Management Manual for Malaysia (MSMA2) and UPRCT'S OSD Handbook for Tabuan Area by Ashley Lim Sue Sien. [Distinction]
30. Comparison of Underground On-site Detention (OSD) Design Using MSMA 2ND Edition and UPRCT'S OSD Handbook for Padungan Area by Pua Jia Wei [Distinction]
31. Optimisation of Rainwater Tank Design for Single Storey Houses in Kuching, Sarawak by Christina Ng [Distinction]
32. Optimisation of Rainwater Tank Design for Double Storey Houses in Kuching, Sarawak by Clement Song [Distinction]
33. Application of Particle Image Velocimetry (PIV) for Measuring Water Velocity by Gary Tan Shi Jie [Distinction]
34. Implementation of Particle Image Velocimetry for Measuring Water Velocity by Fabian Yii Su Miang [Credit]

Sem 2, 2014

35. Comparison of Sedimentation Basin Design Using Urban Stormwater Management Manual and Water Sensitive Urban Design at Sungai Tuang by Chen Hoe Nam [Distinction]
36. Design and Analysis of Sedimentation Pond According to MSMA2 and WSUD for Kampug Gita Lama in Kuching, Sarawak by Desmond Ling Eng Kiong [Distinction]
37. Comparison of Runoff Simulation Before and After Construction of Bengoh Dam at the Upper Catchment of Sarawak River by Li Liang Wei [High Distinction]
38. Comparison of Runoff Behaviour Before and After Construction of Bengoh Dam at the Lower Catchment of Sungai Sarawak by Yang Ching Hian [High Distinction]

Sem 1&2, 2015

37. Effectiveness and Efficiency of Matang By Pass Channel for Flood Mitigation During Low Tide in Matang Area using Infoworks River Simulation by Fabian Chieng Yew Mann [Distinction]

38. Effectiveness and Efficiency of Matang By Pass Channel for Flood Mitigation During High/King Tide in Matang Area using Infoworks River Simulation by Lim Shen Fang [Distinction]

Sem 2 2015 & Sem 1 2016

39. Simulation of Total Nitrogen using InfoWorks River Simulation by Louis Teng [High Distinction]
40. Simulation of Dissolved Oxygen (DO) using InfoWorks River Simulation (RS) by Phui Hing Onn [Distinction]
41. Assessment of Temporal Rainfall Pattern in Kuching, Sibul & Sri Aman by Simon Lee [Distinction]
42. Assessment of Rainfall Pattern in Sarawak in Miri, Limbang & Bintulu by Kevin Kho Ka Yong [High Distinction]
43. Assessment of Storage Capacity for Upgraded Batu Kitang Submersible Weir by Ong Boon Kiang [Credit]

Sem 2 2016 & Sem 1 2017

44. Reassessment and Improvement of Water Reticulation Network at Taman Uni-Central using Infoworks WS based on Hazen William Equation by Danny Ting [High Distinction]
45. Reassessment and Improvement of Water Reticulation Network at Taman Riveria using Infoworks WS based on Darcy Weisbach Equation by Joanne Guan [Distinction]
46. Reassessment and Improvement of Water Reticulation Network at Taman Uni-Garden using Infoworks WS based on Colebrook White Equation by Alvin Ting [Distinction]
47. Analysis and Design of Drainage System at Kuching General Hospital using Infoworks Integrated Catchment Modelling (ICM) by Tan Sze Nian [Distinction]
48. Analysis and Design of Drainage System at Uni-Garden Area using Infoworks Integrated Catchment Modelling (ICM) by Sim Song Kim [Distinction]

Sem 1 2017 & Sem 2 2017

49. Flood Frequency Analysis for Sungai Sarawak Using HEC-HMS by Lai Wai Yan [High Distinction]
50. Flood Frequency Analysis for Sungai Rejang Using HEC-HMS by Eric Hii [Distinction]
51. Design of Space-saving Rainwater Harvesting Tank for Double-storey housed in Kuching by Farah Fairoza [Distinction]
52. Design of Space-saving Rainwater Harvesting Tank for Single-storey housed in Kuching by Kong Kai Huang [Credit]

Sem 2 2017 & Sem 1 2018

53. Water Usage Patterns for Residents in Kota Samarahan by Ahmed Basit [High Distinction]
54. Demographic Factors Affecting Domestic Water Usage Pattern in Kuching City by Tang Kah Seng [Distinction]
55. Assessment of Low Impact Development (Detention Pond) to Hydrograph Analysis using SWMM by Mouren Morris [Distinction]
56. Assessment of Low Impact Development (Harvesting Tank) to Hydrograph Analysis using SWMM by Clarence Henry [Credit]

57. Design, Draw and 2D Animation of Urban Drainage System using Autodesk Storm and Sanitary Analysis for Midway Link Garden by Kelvin Hong [Distinction]
58. Design, Draw and 2D Animation of Urban Drainage System using Autodesk Storm and Sanitary Analysis for Uni-Central by Jackson Tay [Distinction]

Sem 2 2017 & Sem 1 2018

59. Building Information Modelling (BIM) for Structural Analysis by Integrating Robot Structural Analysis and Revit for Residential Buildings by Ivan Tan [High Distinction]
60. Building Information Modelling (BIM) for Scheduling Analysis Incorporating Autodesk Revit and Navisworks Manage for Commercial Buildings by Lam Wei Sen [High Distinction]
61. Investigation of Infiltration Rate of Different Soil Types and Groundwater Storage rate using Stormwater Management Model (SWMM) by Sunardi [Distinction]
62. Analysis of Roundabout as Detention Pond using using SWMM by Alexander Bong [Credit]
63. Incorporating SuperMap GIS with Infoworks ICM for Water Simulation in Drainage System by Eva Chen [High Distinction]
64. Design and Analysis of Storm Drainage and Sanitary Sewer System Using Infoworks Integrated Catchment Modelling by Frendy Lim [Distinction]

Sem 1 2018 & Sem 2 2018

65. Stage-Storage Assessment of Batu Kitang Submersible Weir Upgrading Work by Lim Zi Chao [Distinction]
66. Development of Revised Universal Soil Loss Equation (RUSLE) Using Microsoft Excel by Samuel Law [High Distinction]
67. Analysis and Design of Storage Pond to Reduce Peak and Volume Runoff using Autodesk Storm & Sanitary Analysis Software for Riveria, Kota Samarahan by Kenny Chai [Distinction]
68. Design and Analysis of Sewerage Pipelines using Autodesk AutoCAD Civil 3D by Doreen Wong [Distinction]
69. Water level forecasting for Rejang River using HEC-HMS by Frank Liew [Distinction]
70. Analyzing Residential Building Performance using Building Information Modelling (BIM) by Alland Pectra [Distinction]

Sem 2 2018 & Sem 1 2019

71. Managing Water Resources at Sarawak Kiri River Using Water Evaluation and Planning (WEAP) by Paul Chien [High Distinction]
72. Scheduling and Visualization of a Bridge Construction Project using Building Information Modelling (BIM) incorporated with Autodesk Revit and Autodesk Navisworks Manage by Michelle Ng Mung Ling [High Distinction]
73. Integration of Building Information Modelling (BIM) with Autodesk Revit and Navisworks Manage for Costing Estimation of Commercial Building by Chew Hui Sin [Distinction]
74. Investigation of Different Infiltration Rates for Different Soil Types for Residential Area in Kuching using SWMM by Yong Wan Pei [Distinction]
75. Design and Analysis of Underground Stormwater Detention Chamber at Padang Merdeka for Flood Reduction Using Stormwater Management Model by Tang Chun Yih [Distinction]

76. Design, Analysis and Comparison of Open and Covered Drainage Systems at Uni-Central, Kota Samarahan by Darren Ho [Distinction]

Sem 1 2019 & Sem 2 2019

77. Analysis and Design of Drainage System using WENHONG Stormwater Module at Saradise, Kuching by Jack Lau [Distinction]

78. Integrated Coastal Zone Management for Shoreline Protection in Sarawak by Sharon Tay [High Distinction]

79. Analysis and Design of On-site Detention (OSD) using WENHONG Stormwater Module by Ang Swee Chen [High Distinction]

80. Optimization of Rainwater Storage Tank Design for Building in Swinburne Sarawak by Wong Tiiong Tiing [Distinction]

Sem 2 2019 & Sem 1 2020

81. Model Development and Analysis for Open Channel Hydraulics Tank Using Solidworks by Addison Liu [High Distinction]

82. Model Development and Analysis for Open Channel Concrete Drain Using Solidworks by Aldington Liu [High Distinction]

Sem 1 2020 & Sem 2 2020

83. Managing Water Resource in Miri Using Water Evaluation and Planning (WEAP) by Aaron Tang Zi [Distinction]

84. WaterCAD Analysis of Water Reticulation Network Due to Pipe Aging: Taman Uni-Central, Kota Samarahan by Audrey Soh Yi Fang [High Distinction]

85. The Study on The Impact of Climate Change to Sea-Level Rise for Kuching City using Infoworks River Simulation (RS) by Brian Anak Otteran [High Distinction]

86. Sustainable Clean Water Supply System for Rural Residents in Sarawak by Jordan Lee Hsien Foong [High Distinction]

Sem 2 2020 & Sem 1 2021

87. The effectiveness of Rain Harvesting Tank for Reducing Runoff Peak in a Housing Estate using Stormwater Management Model (SWMM) by Adwin Lau Hui Sheng [High Distinction]

88. Implementing BIM for Drainage System using Autodesk InfraWorks 360 software by Kingston Tan Kia Wee Sem 2 2019 & Sem 1 2020 [High Distinction]

Sem 1 2021 & Sem 2 2021

89. Development of Infiltration trench for different soil types using Storm Water Management Model (SWMM) by Darren Lee Shaw Ming [Distinction]

90. Augmenting current BIM solutions by use of real-time Virtual Reality visualisation for Water Supply and Drainage Systems by Denzel Martin [Distinction]

91. Solidworks for Analysis of Flow Velocity and Pressure in Storage Tank by Adiba Syahirah Binti Zailani [Distinction]

92. Frequency analysis of extreme floods in Sarawak by Lau Lit Chun [Distinction]

93. Application of drone in visual inspection for construction project by Dennis Chang Choon Hor [High Distinction]

Sem 2 2021 & Sem 1 2022

94. Modelling of Low Impact Development (LID) Alternatives with SWMM by Elise Emmaculate Elias Gisain [High Distinction]
95. Storm Water Management of Low Impact Development in Urban Areas Based on SWMM by Jonathan Lau Shu Ming [High Distinction]
96. Optimisation of rainwater storage tank design for squatters at Kampung Sion by Frederic Liu Chen Onn [Distinction]

Student Feedback Teaching (SFT)

| Unit | HES1105 | HES3112/ CVE30001 | HES4146/ CVE40004 | HES5190 | HES5191 | HES5108 | DEC363 | CVE40008 | CVE40009 | DEC354 |
|---------|---------|----------------------|----------------------|---------|---------|---------|---------|----------|----------|--------|
| S2/2009 | | 5.41/6 | 5.21/6 | | | | | | | |
| S1/2010 | | 5.12/6 | | 5.32/6 | | | | | | |
| S2/2010 | | | 5.33/6 | | | | | | | |
| S1/2011 | | 5.43/6 | | 5.18/6 | | | | | | |
| S2/2011 | 4.90/6 | | 5.32/6 | | | | | | | |
| S1/2012 | | 5.119/6 | | | 5.339/6 | 5.385/6 | | | | |
| S2/2012 | NA | | NA | | | | | | | |
| S1/2013 | | 5.03/6 | | | 5.24/6 | | | | | |
| S2/2013 | NA | | NA | | | | | | | |
| S1/2014 | | 5.26/6 | | | | | | | | |
| S2/2014 | | | 5.39/6 | | | | | | | |
| S1/2015 | 5.30/6 | | | | | | 5.88/6 | 6.00/6 | | |
| S2/2015 | | | 5.38/6 | | | | 5.00/6 | | 6.00/6 | 5.38/6 |
| S1/2016 | | 8.26/10 | | | | | 8.20/10 | 7.85/10 | 8.93/10 | |
| S2/2016 | | | 8.85/10 | | | | | 9.27/10 | 10.00/10 | |
| S1/2017 | | 8.06/10 | | | | | | 9.80/10 | 9.10/10 | |
| S2/2017 | | | 9.09/10 | | | | | 9.75/10 | 9.16/10 | |
| S1/2018 | | 8.80/10 | | | | | | 9.30/10 | 9.75/10 | |
| S2/2018 | | | 8.97/10 | | | | | 8.88/10 | NA | |
| S1/2019 | | 8.29/10 | | | | | | 9.00/10 | 9.20/10 | |
| S2/2019 | | | 8.99/10 | | | | | NA | NA | |
| S1/2020 | | NA | | | | | | NA | NA | |
| S2/2020 | | | NA | | | | | NA | NA | |
| S1/2021 | | 8.72/10 | | | | | | 9.33/10 | NA | |

Scholarship of Learning and Teaching Publication

- **Kuok, K. K.,** Rahman, M. R., Bakri, M. K. B., Chiu, P. C., & Elfy, M. (2021). Students' Reactions to Online Learning during COVID-19 Pandemic: A Case Study of a Malaysian Private University's Capstone Unit. Proceeding of 4th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2021), 29th & 30th June 2021, Kuala Lumpur, Malaysia and was selected and published in Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol 12 (6), 9635 – 9647 (**SCOPUS**)

Leadership and Services

Internal Engagement:

- 2020-2022 Elected Academic Board Member, Swinburne Sarawak
- 2016-2019 Primary Civil Engineering Discipline Leader, Swinburne Sarawak
- 2016-2019 Member of Industry Advisory Committees (Internal) in Swinburne Sarawak
- 2018-2019 Member of Civil and Construction Course Advisory Committee in Swinburne Melbourne
- 2018-2019 Leader for Urban Research Cluster, Swinburne Sarawak **Student**

Experience and Engagement:

2012-present Main advisor for the Institution of Engineers Malaysia Swinburne Sarawak Student Section (IEMSSSS)

2020-present Main advisor for the Technological Association Malaysia Swinburne Sarawak Student Section (TAMSSSS)

Leadership Roles:

2020-2022 **Elected Academic Board Member, Swinburne Sarawak** - Academic Board is responsible for the governance of all matters directly relating to academic and research activities at Swinburne Sarawak for two years starting from 18 September 2020 until 17 September 2022. Till to date, I was involved in:

1. Approval for application of new courses include Bachelor of Engineering (Honours)(Software), Bachelor of Quantity Surveying (Honours), Diploma of Computer Science and Software Engineering, and Diploma of Quantity Surveying to Ministry of Higher Education (MOHE).
2. Endorsement of Panel of Assessors Evaluation Report for the Full Accreditation and Compliance Audit of Courses offered by Swinburne Sarawak for various programs.
3. Approval for the implementation of Swinburne Sarawak Industry Immersion program (SSIIP) for Engineering & Science.
4. Endorsement of Minutes of Meeting for Research Committee, and Academic Practice Committee.

2016-2019 **Civil Engineering Primary Discipline Leader**, School of Engineering, Computing and Science, Swinburne Sarawak. I was appointed as the Discipline leader of Civil Engineering Program in managing Civil Engineering courses in the School. As the Discipline leader of Civil Engineering Program, my main responsibilities included:

1. Lead Civil team for Engineering Accreditation Council (EAC) Malaysia and Engineers Australia (EA) accreditation include preparing Self Assessment Report (SAR).
2. Planning and managing teaching assignments for all academic staff in Bachelor of Civil Engineering courses.
3. Monitoring the performance and continuous quality improvement process of Civil Engineering course include appoint external examiners, prepare curriculum bench marking reports.
4. Managing and overseeing the implementation of Quality Equivalency Assurance procedures between Swinburne Sarawak and Swinburne Melbourne include monitor, review Course Planner and QEA, manage and approve Digital Unit Files and Qmon.
5. Chair Civil Panel Meeting include Pre-Semester Preview Meeting, Mid-Semester Monitoring Meeting and Post-Semester Review Meeting.
6. Assist with annual staff appraisals and confirmation by giving appropriate comments and feedback to the Dean upon request.

7. Advising the Head of School on human capital planning.

2012- present Student experience and engagement with **Institution of Engineers Malaysia Swinburne Sarawak Student Session (IEMSSSS)**

I had established and served as the main advisor for the Institution of Engineers Malaysia Swinburne Sarawak Student Section (IEMSSSS) since 2012. The activities organized since 2019 are including five club recruitment drives, two team building trips, three annual general meetings, three site visits, 14 talks include seminars and webinars, Mini Science Expo STEM program (physical and virtual), three CIDB green card courses, Pi Day, T-shirt design competition, four chillax sessions, clubs and societies week, humanity aid to Kampung Chawan Kuching Sarawak, blood donation drive, five workshops, and appreciation dinner.

2020- present Student experience and engagement with **Technological Association Malaysia Swinburne Sarawak Student Section (TAMSSSS)**

I had established and served as the main advisor for the Technological Association Malaysia Swinburne Sarawak Student Section (TAMSSSS) since September 2020. The activities organized since formation are two in-class recruitments, five webinars, Civil Week collaborated with other local universities include UM, USM, UTM, and INTI.

External Engagement:

- 2022 Appointment as external moderator for the Master of Engineering in Energy and Environment Programme, Unimas.
- 2018-present Appointed as Panel evaluator for Engineering Accreditation Council (EAC) by Board of Engineers Malaysia since 2018. Accredited Universiti Pertahanan Nasional Malaysia (UPNM) for Civil Engineering Program on 20 and 21 April 2021.
- 2020-present Appointed as Vice Chairman 1 for Technological Association of Malaysia (TAM) Sarawak Branch.
- 2021-present Appointed as Panel Accessor for Professional Technologist in Building and Construction field.
- 2020 Appointed as panel evaluator for Borneo Innovation Festival 2020 (BIF2020) organised by Polytechnic Kuching Sarawak.
- 2019 Project leader from Swinburne Sarawak to support Kampung Sion and Kampung Semada Community Project for designing the rainwater harvesting system, coordinated by Global Peace Foundation, an international, non-sectarian organization that promotes an innovative values-based approach to peacebuilding.
- 2019 Invited to give evening talk jointly organised by Swinburne Sarawak and IEM Sarawak. The topic is Design and Analysis of On Site Detention using Stormwater Module. The talk had attracted more than 80 participants.
- 2013 Guest lecture for Master of Engineering Students, Unimas.
2013. Organised Mini Exhibition for IEM Young Engineers Section on "Blood Donation – Save a Life' & Public Talk on Engineering 2013" at Hills Shopping Mall, Kuching,

Sarawak on 4th December 2013.

International Journal Editor:

- 2022 Editorial Team | Green Building & Construction Economics
- 2022 Editorial Board | Tropical Aquatic and Soil Pollution
- 2021 Expert scientific editor for Academic Exchange Information Center (AEIC)
- 2019-present Journal editor for journal Modern Management Forum, Universe Scientific Publishing Pte. Ltd., Singapore
- 2019 Journal Editor for Journal of Remote Sensing, PiscoMed Publishing, Singapore **Conference**

Session Chair:

- 2011 ASEAN Australian Engineering Congress 2011 at Kuching Sarawak, Malaysia
- 2013 International Conference of Civil & Construction Engineering at Bangkok, Thailand
- 2015 International Conference of Water Resources 2015 at Langkawi, Kedah, Malaysia
- 2018 International Conference of Water Resources 2018 at Langkawi, Kedah, Malaysia.
- 2021 International Conference on Innovative Research in Engineering and Technology (ICIRET-2021) held as Virtual.
- 2022 5th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2022) in Malaysia

External Examiners

- 2012 Master Thesis: Securing Instream Flow for Sarawak River Basin Development by Ting Sie Yew, Civil Engineering Department, Faculty of Engineering, Universiti Malaysia Sarawak under supervision of Professor Frederick Putuhena
- 2020 Master Thesis: Prediction of River Flow into Kenyir Dam Using Satellite Observations with Hybrid Cuckoo Search Artificial Neural Network by Wan Norsyuhada Binti Che Wan Zanial, Civil Engineering Department, Faculty of Engineering, Universiti Tenaga Nasional Malaysia under supervision of Professor Marlinda Malek.

Industry Linkage - MOU

- a) MOU signing with ARx Media Sdn Bhd on 2 Dec 2021
- b) MOU signing with TAM Malaysia on 20 Dec 2021

▪ **Industry Experience**

December 2002 to July 2009 - Department of Irrigation and Drainage Sarawak as Civil Engineer

May 2009 to July 2009 - Water Management and Land Development Branch, DID Sarawak HQ.

Projects involved are:

- a) Preparation of tender document for Proposed Improvement Works at Tg. Purun Irrigation Scheme, Lundu District, Kuching Division, Sarawak.
- b) Tender Evaluation for Proposed Development Granary Area at Paloh, Mukah Division, Sarawak – Construction and Completion of External Infrastructure for Area 2.
- c) Tender Evaluation for Proposed Improvement Works To Block C, Kali Kaba Controlled Drainage Scheme, Betong Division, Sarawak.

September 2006 to May 2009 - Hydrology and Water Resources Branch, DID Sarawak

HQ as Field Engineer and in charge for data collection and Instrumentation Units throughout Sarawak. Scope of works are:

- a) To monitor and ensure the telemetry stations that collect rainfall and water level data are in function all the time.
- b) Prepare tender document and call tender for:
 - 1) Purchasing one unit of Acoustic Doppler Current Profiler (ACDP) (150 thousands)
 - 2) Supply, Install, Testing and Commissioning Telemetry System and Infobanjir Portal for Kuching City and Surrounding Areas (7 millions).
 - 3) Purchasing 100 units of HS Data Logger (300 thousands)
- c) Coordinating and get advice from Epiteknic Sdn Bhd if the telemetry stations are malfunction.
- e) Ensure that the data collected are in the correct format for storing in HYSYS and TIDEDA system.
- f) Attending meeting to bid budget for rehabilitating the malfunction telemetry stations from Federal Government.
- g) Ensure all the data gauged from telemetry stations are published on the web all the time.
- h) Prepare proposal for setting up new telemetry stations for:
 - 1) Kuching and Sibul Divisions and surrounding areas.
 - 2) Trusan, Lupar, Kemena, Oya, Mukah, Balingian and Tatau Basins.
- i) Prepare quotation and evaluation report for purchasing all types of instrument and equipment including HS Tipping Bucket and data logger, ST2000 PLC, Lead Acid Battery, Dry Cell Alkaline Battery,) CMC3, Sediment Sampler, Different Types of Pneumatic water level sensors, Quartz Clock Seba Delta, Groundwater data logger, Solar Panel, Telemetry Housing, Handheld ADV FlowTracker, and Various Types of Strip Charts.
- j) Monitor and coordinate hydrological data (including water level, discharge, rainfall, evaporation) collected by Divisional office and headquarter and send it to Data Process Unit for compilation.
- k) Administrative and Management works including updating equipment inventory, station inventory, hydrological equipment.
- l) In-charge of hydro-workshop for repairing all types of gauging equipment.
- n) Leading the team to collect discharge data, sediment sampler data and water quality data that include PH, Turbidity, Temperature, Salinity, Conductivity and Dissolved Oxygen.

- o) Setting up a climate station at Samarahan Regional office that include sunshine recorder, tipping bucket cum logger, evaporation pan, Stevenson screen.
- p) Involve in preparing flood report especially in hydrological aspect.
- q) Comments on EIA reports in term of Hydrology and Water Resources submitted by Consultants.

December 2002 to September 2006 - stationed at Kota Samarahan as Assistant

Divisional Engineer, in charge of Technical and Hydrology Section in Samarahan Division. Main responsibility is preparation of tender document that include instructions to tenderers, specification, contract drawings and schedule of rates and quantities (BQ) at divisional level. Projects involved are:

- a) Upgrading bund to gravel road at RGC Gedong, Kota Samarahan which is about 2.7 km.
- b) Upgrading bund to gravel road at Mid Sadong Drainage Scheme Stage 1 which is about 3 km and construction of 1 No. of 2m x 2m R.C. Box Culvert.
- c) Construction of bund and drain, 1 No. of 1.525mx1.525m Tidal Control Gate (TCG) and 2 No's of 1.22mx 15m (5 spans) Belian Bridges at Lubok Buntin Drainage scheme and also the work supervision.
- d) Construction of 1 No. of 900 dia. mm Pipe culvert cum flat gate at Tanjung Bundong.
- e) Construction of 1. No. of Check Gates, 1 No. of 900 dia.mm control drop at Paya Payang Drainage Scheme.
- f) Construction of 1 No. of 3.66mx12 m Belian deck, I Beam bridge at Paya Payang Drainage Scheme.
- g) Construction of 1 No. of 1.525mx1.525m Tidal Control Gate (TCG) at Mid Sadong Drainage Scheme Stage 1.
- h) Construction of 3 No's of Check Gates and 1 No of 900 dia. mm control drop at Mid Sadong Drainage Scheme Stage 1.
- i) Construction of 400mmX500mm R.C. Canal, 1 no. of check gate, 1 no. of 1220mm dia. control drop and 3 end control at Paya Mending Irrigation Scheme.

In term of management and planning, my responsibilities are:

- a) Checking and approved the engineering plan submitted by consultants for Samarahan Division (50 projects).
- b) To plan the budget particularly for technical section.
- c) To assign the technical assistant to conduct the survey job and draft the survey and tender drawing.
- d) Site visit and identify the location for Tidal control gate (TCG), Check gates, Control drop before instruct technical assistant to conduct survey work.
- e) Supervision of contractual works.
- f) Provide guidelines and advising DID's site supervisors so as to ensure that quality of contractual work is maintained.
- g) Giving advice in term of erosion to Department of Land and Survey, Kota Samarahan on sand dredging in the river before issuing the license to applicants.

- h) Writing up for bidding project fund.
- i) Plan the amount of work done based on allocation.
- j) Investigate, identify problem and propose solution for Flash Flood.
- k) Determine the type of gate to be used based on the purpose of the gate suite with site condition.
- l) Comment and advice on river diversion and land amalgamation (determine the reserve river width).
- m) Plan and coordinate with concrete specialist (Sika Kimia Sdn. Bhd.) for repairing the cracked concrete gate.
- n) Contract administration and coordination including prepare interim payment.
- o) Attend, prepare minutes and sometimes chair the site meeting.

September 2002 to December 2002 - CS Consultant Sdn. Bhd. as Design Engineer and seconded to Kumpulan Ikram Project Management Team (KIPs) as Project Engineer

- a) Travelled all over Sarawak for supervising 30 Turnkey school Projects schools under Ministry of Education. Schools involved are SMK Tarat (Serian), SK Kapit and SMK Kapit No. 2 (Kapit), SK Bandar Semariang and SMK Bandar Semariang (Kuching), SK Tunku Abdul Rahman (Kuching), SMK Sibujaya and SK Sibujaya (Sibu), SMK Oya Dalat (Mukah), SMK Luar Bandar Sibu (Sibu), SMK Bukit Assek (Sibu), SMK Sungai Merah (Sibu), SMK Bandar Sibu, SMK Merapok (Lawas) and SMK Mata Parang (Samarahan), SMK Luak (Miri), SMK. Tunas Bakti (Samarahan) and so on.

CS Consultant Sdn. Bhd. as Design Engineer

- a) Steel girder (I. Beam) for roof at Tebedu Community Hall.
- b) Drainage and water supply design for Tebedu Community Hall.
- c) Drainage Design for United College Sarawak (UCS) new campus, Sibu

April 2001 to September 2002 - PU Engineering Sdn. Bhd. as Road, Civil & Structural Design Engineer

Road design including geometric design and drainage design using MX Professional (formerly branded as MOSS). The projects are:

- a) Proposed Construction Access Road about 3.5km to Federal Administration Center (PPP) at Rambungan, Kuching Division. The road designed is categorized as standard R5.
- b) Proposed Beladin Spur roads No. 1 and No. 3 which are 1 km and 450m respectively at Baladin Rural Growth Center (RGC) using 'MX Professional (MOSS)'. Roads designed are categorized as standard R3.
- c) Proposed Construction and Completion of Ulu Entabai Road, Phase II, Sarikei Division. Standard R3 road design which is about 3.5km.
- d) Preliminary design for Mukah Quarter Ring Road about 9 km.

Structural design using Esteem for designing Beams, slabs, columns. Using QSE and Staad III for roof truss Design. The projects that involved are:

- a) Proposed Construction And Completion Police Marine Wharf on Lot 4430, Block 31, Kemena L.D, Bintulu, Sarawak. R.C. include structural design using 'esteem' for 4 and 5-storey class G quarters, administration block, workshop and steel roof truss for surau and workshop.
- b) Proposed Construction And Completion Of Permanent Village Site for Jagoi Oil Palm Estate, Bau. R.C. structural design for garage cum fuel store, 4-door barrack, fertilizer cum chemical store, permanent office and semi-detachad house.
- c) Supervised Proposed Taman BUMIKO Housing Estate at Batu Kawah, Kuching.
- d) Survey and Preliminary design in water reticulation system from Simunjan Treatment plant to Bukit Punda.
- e) Take over from an engineer to redesign the sewerage system for Police Marine Wharf Project, Bintulu.

Jan 2000 to April 2001 - Perunding EC Sepakat Sdn. Bhd. as Structural Design Engineer

Involved in structural design including beams, slabs, columns, pilecaps, pad footing, staircase, timber and steel roof truss design. Also involved in timber and steel structure design. The projects involved are:

- a) Assist the senior civil engineer to survey the site for upgrading the sewerage system at Bintawa Fishing Village include the supervision work.
- b) Structural design for Seniawan Slaughter house (Pig Abattoir, Bau) including roof beam (using 'mbeam') and steel roof truss (using 'QSE') on Lot 731, Block 10, SenggiPoak Land District, Seniawan, Bau include the supervision work.
- c) Composite structural design for entrance porch at Wisma Sanyan, Sibul using metal deck to support concrete slab and steel roof truss to support metal deck on Lot 112, L54066, 1338, 350 (Partial) Block 5, Sibul Town Land District, Sibul.
- d) Proposed Construction and Completion of Dalat hospital include quarters class D, F & G, Labour Delivery Suite and the main building.
- e) Proposed Construction and Completion include hostels, 4-storey control tower, multipurpose hall, dining hall, TUDM shooting range and other facilities at Paradise camp, Kota Belud, Sabah.
- g) Proposed Construction and Completion of Class G quarter, hostel, prisoners building at Miri Prison, Sarawak.
- h) Proposed Construction and Completion of SMK. Ng. Dap, Kanowit include R.C. structural design for quarters class D, E and F.
- j) Proposed Construction and Completion of SMK. Mata Parang, Kota Samarahan include timber structure design for temporary building, R.C. structural design for quarter class F and surau.
- k) Proposed Construction and Completion of SMK. Merapok, Lawas.
- l) Steel portal frame design at Sabah.

▪ Referees

1. **Professor Van-Thanh-Van Nguyen, D.A.Sc, ing.**
Brace Endowed Chair Professor of Civil Engineering
McGill University
Department of Civil Engineering
Montreal, Quebec, Canada
Email: van.tv.nguyen@mcgill.ca
2. **Professor Dr. Sobri Harun**
Department of Hydraulics and Hydrology
Faculty of Civil Engineering (FKA)
Universiti Teknologi Malaysia
Email: sobriharun@utm.my