UNIVERSITI SAINS MALAYSIA

CURRICULUM VITAE

1. Name: **Megat Azmi Megat Johari (M.A. Megat Johari)**

2. Current Position: Professor; Deputy Dean (Academic, Students & Alumni)

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   Scopus ID: 30967553800

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   Researcher ID: G-5264-2011

4. Academic Qualifications: BSc (Ohio Northern); MSc & PhD (Leeds)

5. Career History: Tutor at USM: 1990-2000; Lecturer at USM: 2001-present

6. Field(s) of Specialization: Concrete Materials & Technology

7. Current Research Areas/Topics: Supplementary cementitious materials; high strength and high performance concrete; engineered cementitious composites; ultra-high performance fiber reinforced concrete; green concrete; alkaline activated binders; geopolymer; concrete repair & strengthening

8. Appointment as Editorial Board Member:

   - Malaysian Construction Research Journal
   - Journal of Civil Engineering, Science and Technology

9. Appointment as Journal Article Reviewer:

   - Advances in Civil Engineering
   - Advances in Civil Engineering Materials
   - Advances in Concrete Construction
   - Advances in Materials Science and Engineering
   - Advances in Mechanical Engineering
   - Computers and Concrete
   - Construction and Building Materials
   - Cement and Concrete Research
   - Desalination and Water Treatment

- Environmental Science and Pollution Research
- International Journal of Environment and Waste Management
- International Journal of Physical Sciences
- Journal of Civil Engineering and Construction Technology
- Journal of Civil Engineering and Management
- Journal of Construction in Developing Countries
- Journal of Engineering and Technological Sciences
- Journal of Hazardous Materials
- Journal of Thermal Analysis and Calorimetry
- Jurnal Kejuruteraan UKM
- Malaysian Construction Research Journal
- Materials and Structures
- Proceedings of ICE Construction Materials
- Songklanakarin Journal of Science and Technology
- The Arabian Journal for Science and Engineering

10. Involvement in Testing and Consultancies:

- Structural Appraisal on Cracking Problems at Aras 2 Reinforced Concrete Beams of The Bilik Kuliah Block for the Proposed Politeknik Perlis. Konsortium BINTONG BBB Sdn. Bhd. 2002.

- Concrete Assessment Work on Reinforced Concrete Beams at Dataran Lang, Pulau Langkawi. U.E. Kurnia Sdn. Bhd. Structural and Concrete Repair Specialist. 2004.

- Non-Destructive Testings on Repaired Precast T-Beams for The Project: Membina Jambatan Sungai Muda (Kuala Muda), Seberang Perai Utara, Pulau Pinang. Pembinaan Mitrajaya Sdn. Bhd. 2005.

- Assessment of Floor Cracking Problem and Verification of Crack Repair for the Project: Cadangan Membaiki Keretakan Lantai Perpustakaan Pusat Islam, Pusat Islam Malaysia, Kuala Lumpur. NLS Hitech Niaga Sdn. Bhd. 2006.

- Structural Assessment of Roof Slab at Agricultural Chemicals (M) Sdn. Bhd. Factory Building. 2007.

- Testing and Assessment Work on Concrete Structures for the Project: Cadangan Kerja Pembaikan Struktur Konkrit Bangunan Asrama Dan Blok Akademik, UiTM Pulau Pinang. WAN Structure Builders Sdn. Bhd. 2008.

- Ultrasonic Pulse Velocity Testing on Diaphragm Beams for the Project: Landasan Keretapi Berkembar dari Ipoh ke Padang Besar, N6-S22, Alor Pongsu. Dekon Sdn. Bhd. 2009.

- Ultrasonic Pulse Velocity Testing on Diaphragm Beams for the Project: Landasan Keretapi Berkembar dari Ipoh ke Padang Besar, N6-S22, Alor Pongsu. PML Construction (M) Sdn. Bhd. 2009.

- Ultrasonic Pulse Velocity Testing of Reinforced Concrete Pile Cap for the Project: Landasan Keretapi Berkembar dari Ipoh ke Padang Besar, Alor Pongsu. MMC Gamuda JV. 2009.

- Concrete Strength Evaluation for the Project: Cadangan Membina Satu (1) Blok Bangunan Hotel 7 Tingkat Dengan Bilik Sebanyak 99 Bilik Di Atas Lot 15412s (Bahagian A) & Lot 12746s, Regat Dato' Mahmud, Bandar Ipoh, Perak Darul Ridzuan, Untuk Tetuan Seemsoon Development Sdn. Bhd. 2010.

- Concrete Strength Evaluation of RC Piles for the Project: Cadangan Membina 241 unit Rumah Teres 1 tingkat di atas PT179386-PT179937, PT179937-PT180119, di Panorama Lapangan Perdana, Pasir Puteh, Ipoh, Mukim Ulu Kinta, Daerah Kinta Untuk Tetuan Gopeng Road Development Co. Sdn. Bhd. 2011.

- Structural Assessment of the Tanah Merah Public Market (Kajian Penilaian Struktur di Pasar Besar Tanah Merah), Majlis Daerah Tanah Merah, Kelantan, May-August 2015.

- Assessment Work for Dam Structures: Spillway (2 Nos) and Intake Structure (1 No.) for the Project/Study: Formal Safety Inspection for Bukit Merah Dam, Perak, June 2015.

- Compressive Strength of Concrete Cores for the Project: Cadangan Membina dan Menyiapkan 1 Blok Pangsapuri Kos Sederhana Jenis A (170 Unit), Pangsapuri Kos Sederhana Jenis B (170 Unit) & 1 Blok Podium Tempat Letak Kereta 2 ½ Tingkat serta Kerja-Kerja Infrastruktur Yang Berkaitan, Seri Anggun Fasa 3 Di Mukim 12, Jalan Sultan Azlan Shah, Pulau Pinang, November 2015.

- Concrete Testing Works For the Project: "Cadangan Kerja-Kerja Pembaikan Kerosakan Struktur Konkrit Serta Lain-Lain Kerja Berkaitan Di Bangunan Perdana Universiti Teknologi Mara Cawangan Pulau Pinang, Kampus Permatang Pauh", July 2016.

- Concrete Coring Work and Testing for the Project: Cadangan Membina dan Menyiapkan Satu Blok Pangsapuri 24 Tingkat Kos Sederhana di Atas Tanah Tebusguna Kerajaan, Kampung Pisang Awak, Seksyen 4, Bandar Jelutong, Daerah Timur Laut, Pulau Pinang, December 2016.

11. Completed & On-Going Research Grant:

- "Investigation on the Suitability of Metakaolin Produced from Locally Available Kaolinitic Clay as a Mineral Admixture for Concrete", USM short-term grant, Project leader, 2001-2003.
- Performance of High-Strength Metakaolin Concrete Subjected to Different Curing Regimes. USM short term grant, 2009-2012.
- Performance of palm oil fuel ash self-compacting concrete subjected to different curing and exposure regime. Research University Grant. RM195,400. 2010-2013.
- Development of Green Palm Oil Fuel Ash-Based Geopolymer Mortar for Superior Performance in Aggressive Environments. Research University Grant. RM201,979. 2013-2017.

12. Completed PhD Supervision:

1. MOHD FADZIL BIN ARSHAD, PhD, Influence of Multiple Blended Binders on Engineering Properties and Durability of Concrete, 2011, **Main Supervisor**.

2. NURDEEN MOHAMED O. ALTWAIR, PhD, Properties and Performance of Engineered Cementitious Composites Containing Palm Oil Fuel Ash, 2013, **Main Supervisor**.

3. ABDULLAH MOHSEN AHMED ZEYAD, PhD, Influence of Steam Curing on Engineering and Fluid Transport Properties of High Strength Green Concrete Containing Palm Oil Fuel Ash, 2013, **Main Supervisor**.

4. MUSTAFA JUMA A. MIJARSH, PhD, Palm Oil Fuel Ash Based-Geopolymer Mortar: Synthesis and Evaluation of Performance, 2015, **Main Supervisor**.

5. MORUF OLALEKAN YUSUF, PhD, Synthesis of Alkaline Activated Binder for Mortar and Concrete Using Binary Blending of Ground Steel Slag and Palm Oil Fuel Ash, 2015, **Main Supervisor**.

6. MOHD HANIF ISMAIL, PHD, Properties and Performance of High Strength Concrete Containing Ternary Blended Binder, 2016, **Main Supervisor.**

7. AZHAR BIN ABDUL HALIM, PhD, Treatment of Semi-Aerobic Leachate using Organic and Mineral Based Composite Adsorbent, 2009, **Co-Supervisor**.

8. ALIK ANAK DUJU, PhD, Structural Stress Grading of Selected Sarawak Timber Species Using Non-Destructive Tests, 2009, **Co-Supervisor**.

9. MOHD HAZIMAN BIN WAN IBRAHIM, PhD, Engineering Properties and Microstructure of Brickwork under Aggressive Environment, 2011, **Co-Supervisor**.

10. RAMADHANSYAH PUTRA JAYA, PhD, Properties of Concrete Containing Rice Husk Ash under Aggressive Environments Subjected to Wetting and Drying, 2012, **Co-Supervisor**.

11. BASSAM A. O. TAYEH, PhD, Characteristics of The Interfacial Bonding Between Normal Concrete Substrate And Ultra High Performance Fiber Concrete Repair Material, 2013, **Co-Supervisor**.

12. ISKANDA BIN OPENG, PhD, Influence of Moisture Content on Creep Bending of Selected Sarawak Timber Structures, 2013, **Co-Supervisor**.

13. SHAHIRON SHAHIDAN, PhD, Damage Classification in Reinforced Concrete Beam by Acoustic Emission Signal Analysis, 2014, **Co-Supervisor**.

14. NOR HAZURINA OTHMAN, PhD, Effect of Cockle (Anadara Granosa) Shell as Partial Cement Replacement on the Properties of Concrete, 2014, **Co-Supervisor**.

15. MAJED A. A. ALDAHDOOH, PhD, Development of POFA-Based Green Ultra-High Performance Fiber Reinforced Cementitious Composites as Retrofitting Material, 2014, **Co-Supervisor**.

13. Completed MSc Supervision:

1. MUHD NORHASRI BIN MUHD SIDEK, MSc, Effect of Curing and Exposures Conditions on Strength Performance and Durability Characteristics of Concrete Containing Metakaolin, 2010, **Main Supervisor**.

2. AHMAD ZAKI, MSc, Assessment of Rebar Corrosion Using Ground Penetrating Radar and Image Processing, 2013, **Main Supervisor**.

3. NURHANA ZAKARIA, MSc, Influence of Palm Oil Fuel Ash as Supplementary Binder on Properties of Polymer Modified Concrete, 2014, **Main Supervisor**.

4. ZAINURUL ZAINUL, MSc, Influence of Palm Oil Fuel Ash as a Supplementary Binder on Properties of Self-Compacting Concrete, 2014, **Main Supervisor**.

5. ALIAKHBAR MAHMOUDI KOUCH AKSARAEI, MSc, Corrosion Resistant Performance of High Strength Green Concrete Containing Palm Oil Fuel Ash, 2014, **Main Supervisor**.

6. SYAMSUHAILI BINTI SAID, MSc, Effects of Time-Dependent Deformation on the Strength of Masonry, 2010, **Co-Supervisor**.

7. FARAH ALWANI BINTI WAN CHIK, MSc, Properties of Concrete Block Containing Rice Husk Ash, 2010, **Co-Supervisor**.

8. CHE NORAZMAN BIN CHE WAN, MSc, Engineering Properties of Porous Asphalt Subjected to Short Term and Long Term Ageing, 2010, **Co-Supervisor**.

9. ALI PAPZAN, MSc, Forecasting the Compressive Strength of Self-Compacting Concretes Containing Mineral Admixtures by Artificial Neural Networks, 2011, **Co-Supervisor**.

14. On-Going Postgraduates Supervision:

1. NORFANIZA MOKHTAR, PhD, A Study on Self-Healing Concrete Using Bacteria, **Main Supervisor.**

2. RAMI J. A. HAMAD, PhD, Performance of Structural Concrete Beam Reinforced with Fiber Reinforced Polymer Rebars at Elevated Temperatures, **Main Supervisor.**

3. Salami Babatunde Abidoun, PhD, Development of Engineered Geopolymer Composites Using Plam Oil Fuel Ash, **Main Supervisor**.

4. OTMAN MOSBAH MOHAMED ELBASIR, PhD, Performance of Alkaline Activated Binder Containing POFA, GGBS and Fly Ash in Aggressive Environment, **Main Supervisor**.

5. MOHAMED IBRAHIM, PhD, Development of Alkali Activated Concrete Utilizing Natural Pozzolan and Alternative Cementitious Materials, **Main Supervisor.**

6. NURIL IZZEATY ISHAK, PhD, High Strength Green Concrete Containing Ternary Blended Binder of Portland Cement, GGBS and RHA – Evaluation of Microstructure, Workability, Setting, Mechanical and Durability Characteristics, **Main Supervisor.**

7. SYED KHAJA NAJAMUDDIN, PhD, Development of Sustainable Alkali Activated Concrete Using Cement Kiln Dust and Nano Silica Gel, **Main Supervisor.**

8. MUHAMAD JAFNI JAAFAR, MSc, Properties of Preplaced Aggregate Concrete Using High Volume POFA Cementitious Grout, **Main Supervisor.**

9. ABDUALLAH MUFTAH MENSHAZ, PhD, Properties of Alkali Activated Binder Containing POFA, GGBS and Metakaolin, **Main Supervisor.**

15. Selected Journal Publications:

1) Ibrahim, M., **Megat Johari, M.A.**, Rahman, M.K., Maslehuddin, M., "Effect of Alkaline Activators and Binder Content on the Properties of Natural Pozzolan-Based Alkali Activated Concrete", Article accepted for publication by Construction and Building Materials.

2) Salami B.A., **Megat Johari, M.A.**, Ahmad, Z.A., Owolabi, T.O., Maslehuddin, M., Olatunji, S.O., "Alkaline activator/POFA ratio effect on POFA-EACC strength using Support Vector Regression", Accepted for publication in the Proceedings of the Institution of Civil Engineers - Construction Materials, DOI: http://dx.doi.org/10.1680/jcoma.16.00052, Article in press. 2017.

3) Elbasir, O.M.M., **Megat Johari, M.A.**, Ahmad, Z.A., "Effect of fineness of palm oil fuel ash on strength and microstructure of alkaline activated mortar", Accepted for publication in European Journal of Environmental and Civil Engineering, European Journal of Environmental and Civil Engineering, http://dx.doi.org/10.1080/19648189.2016.1271362 Article in press. 2017.

4) Rami J. Hamad, **Megat Johari, M.A.**, Rami H. Haddad, "Mechanical properties and bond characteristics of different fiber reinforced polymer rebars at elevated temperatures", Construction and Building Materials; 142 (2017), 521-535.

5) Zeyad, A.M., Megat Johari, M.A., Tayeh B.A., Yusuf, M.O., "Pozzolanic reactivity of ultrafine palm oil fuel ash waste on strength and durability performances of high strength concrete"; Journal of Cleaner Production, 144 (2017), 511-522.

6) Salami B.A., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Durability performance of palm oil fuel ash based engineered alkaline activated cementitious

composite (POFA-EACC) mortar in sulfate environment", Construction and Building Materials; 131 (2017), 229-244.

7) Zeyad A.M., **Megat Johari, M.A.**, Tayeh B.A., Yusuf M.O., "Efficiency of treated and untreated palm oil fuel ash as a supplementary binder on engineering and fluid transport properties of high strength concrete", Construction and Building Materials; 125 (2016), 1066-1079.

8) Aldahdooh M.A.A., Muhamad Bunnori N., **Megat Johari, M.A.**, Jamrah A., Alnuaimi A., "Retrofitting of damaged reinforced concrete beams with a new green cementitious composite materials", Composite Structures; 142 (2016), 27-34.

9) Salami B.A., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Impact of added water and superplasticizer on early compressive strength of selected mixtures of palm oil fuel ash-based engineered geopolymer composites", Construction and Building Materials; 109 (2016), 198-206.

10) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Evaluation of Slag Blended Alkaline Activated Palm Oil Fuel Ash Mortar Exposed to the Sulphuric Acid Environment", Journal of Materials in Civil Engineering; DOI: 10.1061/(ASCE)MT.1943-5533.0001315. © 2015 American Society of Civil Engineers.

11) Mijarsh, M.J.A., **Megat Johari, M.A.**, Ahmad, Z.A., "Compressive strength of treated palm oil fuel ash based geopolymer mortar containing calcium hydroxide, aluminium hydroxide and silica fume as mineral additives", Cement and Concrete Composites; 60 (2015), 65-81.

12) Mijarsh, M.J.A., **Megat Johari, M.A.**, Ahmad, Z.A., "Effect of delay time and Na_2SiO_3 concentrations on compressive strength development of geopolymer mortar synthesized from TPOFA", Construction and Building Materials; 86 (2015), 64-74.

13) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Impacts of silica modulus on the early strength of alkaline activated ground slag-ultrafine palm oil fuel ash based concrete", Materials and Structures; 48 (2015), 733-741.

14) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Shrinkage and strength of alkaline activated ground steel slag-ultrafine palm oil fuel ash pastes and mortars", Materials and Design; 63 (2014), 710-718.

15) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Influence of curing methods and concentration of NaOH on strength of the synthesized alkaline activated ground slag-ultrafine palm oil fuel ash mortar/concrete", Construction and Building Materials; 66 (2014), 541-548.

16) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M., "Strength and microstructure of alkali-activated binary blended binder containing palm oil fuel ash

and ground blast-furnace slag", Construction and Building Materials; 52 (2014), 504-510.

17) Mijarsh, M.J.A., **Megat Johari, M.A.**, Ahmad, Z.A., "Synthesis of geopolymer from large amount of palm oil fuel ash – Application of the Taguchi method in investigating the main parameters affecting compressive strength", Construction and Building Materials; 52 (2014), 473-481.

18) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M, "Effects of H_2O/Na_2O molar ratio on the strength of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash based concrete", Materials and Design; 56 (2014), 158-164.

19) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M, "Performance of different grades of palm oil fuel ash with ground slag as base materials in the synthesis of alkaline activated mortar", Journal of Advanced Concrete Technology; 12 (2014), 378-387.

20) Mohammed, A.N., **Megat Johari, M.A.**, Zeyad, A.M., Tayeh, B.A., Yusuf, M.O., "Improving the engineering and fluid transport properties of ultra-high strength concrete utilizing ultrafine palm oil fuel ash", Journal of Advanced Concrete Technology; 12 (2014), 127-137.

21) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M, "Evolution of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash based concrete", Materials and Design; 55 (2014), 387-393.

22) Yusuf, M.O., **Megat Johari, M.A.**, Ahmad, Z.A., Maslehuddin, M, "Effects of addition of $Al(OH)_3$ on the strength of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash (AAGU) based binder", Construction and Building Materials; 50 (2014), 361-367.

23) Tayeh B.A., Abu Bakar B.H., **Megat Johari M.A.**, Zeyad, A.M., "Microstructural analysis of the adhesion mechanism between old concrete substrate and UHPFC", Journal of Adhesion Science and Technology; 28(18) (2014), 1846-1864.

24) Aldahdooh, M.A.A., Muhamad Bunnori, N., **Megat Johari, M.A.**, "Influence of palm oil fuel ash on ultimate flexural and uniaxial tensile strength of green ultra-high performance fiber reinforced cementitious composites", Materials and Design; 54 (2014), 694-701.

25) Altwair, N.M., **Megat Johari, M.A.**, Saiyid Hashim, S.F., "Influence of treated palm oil fuel ash on compressive properties and chloride resistance of engineered cementitious composites", Materials and Structures; 47 (2014), 667-682.

26) Tayeh B.A., Abu Bakar B.H., **Megat Johari M.A.**, Ratnam, M.M., "Existing concrete textures: their effect on adhesion with fibre concrete overlay", Proceedings of the ICE – Structures and Buildings; 167(6) (2014), 355-368.

27) Ramadhansyah, P.J., Abu Bakar, B.H., **Megat Johari, M.A.**, Wan Ibrahim, M.H., Hainin, M.R., Jayanti, D.S., "Strength and microstructure analysis of concrete containing rice husk ash under sea water attack by wetting and drying cycles", Advances in Cement Research; 26(3) (2014), 145-154.

28) **Megat Johari, M.A.**, Altwair, N.M., Saiyid Hashim, S.F., "Fracture and tensile characteristics of engineered cementitious composites containing POFA", Advances in Cement Research; 25 (4) (2013), 189-199.

29) Aldahdooh, M.A.A., Muhamad Bunnori, N., **Megat Johari, M.A.**, "Development of green ultra-high performance fiber reinforced concrete containing ultrafine palm oil fuel ash", Construction and Building Materials; 48 (2013), 379-389.

30) Aldahdooh, M.A.A., Muhamad Bunnori, N., **Megat Johari, M.A.**, "Evaluation of ultra-high-performance-fiber reinforced concrete binder content using the response surface method", Materials and Design; 52 (2013), 957-965.

31) Aldahdooh, M.A.A., Muhamad Bunnori, N., **Megat Johari, M.A.**, "Damage evaluation of reinforced concrete beams with varying thickness using the acoustic emission technique", Construction and Building Materials; 44 (2013), 812-821.

32) Tayeh B.A., Abu Bakar B.H., **Megat Johari M.A.**, Ratnam, M.M., "The relationship between substrate roughness parameters and bond strength of ultra high-performance fiber concrete", Journal of Adhesion Science and Technology; 27 (16) (2013), 1790-1810.

33) Tayeh B.A., Abu Bakar B.H., **Megat Johari M.A.,** "Characterization of the interfacial bond between old concrete substrate and ultra high performance fiber concrete repair composite", Materials and Structures, 46 (5) (2013): 743-753.

34) Altwair, N.M., **Megat Johari, M.A.**, Saiyid Hashim, S.F., "Flexural performance of green engineered cementitious composites containing high volume of palm oil fuel ash", Construction and Building Materials; 37 (2012), 518-525.

35) Tayeh B.A. Abu Bakar B.H., **Megat Johari M.A.,** Voo, Y.L., "Mechanical and permeability properties of the interface between normal concrete substrate and ultra high performance fiber concrete overlay" Construction and Building Materials; 36 (2012), 538-548.

36) Halim A.A., Aziz H.A., **Megat Johari M.A.,** Ariffin K.S., Bashir, M.J.K., "Semi-aerobic landfill leachate treatment using carbon-minerals composite adsorbent", Environmental Engineering Science, Vol. 29, 5 (2012), 306-312.

37) **Megat Johari, M.A.**, Zeyad, A.M., Muhamad Bunnori, N. and Ariffin, K.S., "Engineering and transport properties of high-strength green concrete containing high volume of ultra-fine palm oil fuel ash". Construction and Building Materials; 30 (2012), 281-288.

38) Abu Bakar, B.H., Ramadhansyah, P.J., **Megat Azmi, M.J.**, "Effect of rice husk ash fineness on the chemical and physical properties of concrete", Magazine of Concrete Research; 63, 5, (2011), 313-320.

39) **Megat Johari, M.A.**, Brooks, J.J., Shahid Kabir and Rivard, P. "Influence of supplementary cementitious materials on engineering properties of high strength concrete". Construction and Building Materials; 25 (2011) 2639-2648.

40) Azhar Abdul Halim, Hamidi Abdul Aziz, **Megat Azmi Megat Johari**, Kamar Shah Ariffin, "Comparison study of ammonia and COD adsorption on zeolite, activated carbon and composite materials in landfill leachate treatment", Desalination; 262 (2010) 31-35.

41) Azhar Abdul Halim, Hamidi Abdul Aziz, **Megat Azmi Megat Johari**, Kamar Shah Ariffin, Mohd Nordin Adlan, (2010), "Ammoniacal nitrogen and cod removal from semi-aerobic landfill leachate using a composite adsorbent: Fixed bed column adsorption performance", Hazardous Materials; 175 (2010) 960-964.

42) Azhar Abdul Halim, Hamidi Abdul Aziz, **Megat Azmi Megat Johari**, Kamar Shah Ariffin, Yung-Tse Hung, (2009), "Removal of ammoniacal nitrogen and COD from semi-aerobic landfill leachate using low-cost activated carbon–zeolite composite adsorbent", International Journal of Environment and Waste Management (IJEWM), Volume 4-Issue 3/4 (2009), 399-411.

43) Brooks, J.J. and **Megat Johari, M.A.,** "Effect of metakaolin on creep and shrinkage of concrete", Cement and Concrete Composites; 23 (2001), 495-502.

44) Brooks, J.J., **Megat Johari, M. A.** and Mazloom, M., "Effect of admixtures on the setting times of high strength concrete", Cement and Concrete Composites; 22 (2000), 293-301.