

CHAPTER 4 : PUBLICATIONS

4.1 Journal Publication

Through its well-equipped laboratories and sound working environment as well as willingness to take on new challenges in research development, our high calibre academic staffs are also actively involved in contributing articles in their related field. Most of the written papers have been accepted and published in international and local journals.

In 1990, one of the paper written by the student supervised by Dr. Mohd. Zaimi Abd. Majid entitled "*Recovery from Delay*" won the first prize winner in the competition among Institutes of higher education in Asia Pacific.

This competition was organised by the American Institute of Construction, Nanyang University of Technology and C-Premier of Singapore.

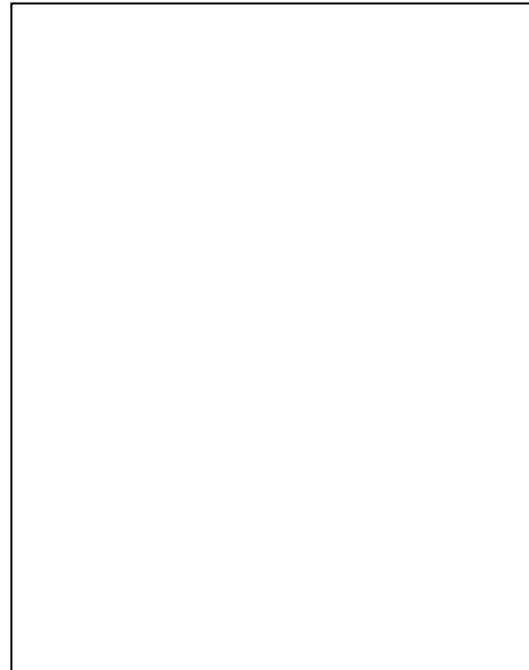
In 1996 Ahmad Khairi Abd. Wahab was awarded the best paper in the 10th Congress of the Asia-Pacific Division of the International Association for hydraulic Research (APD-IAHR) entitled "*The Mechanism of a Dynamic Land-Water Interface in a Finite Element Flow Computation*"



Two plaques and S\$200 were awarded to the students supervised by Dr. Muhd. Zaimi Abd. Majid at 2nd International Conference on Modern Techniques in Construction in 1990

Meanwhile the paper written by Assoc. Prof. Dr. Ramli Nazir entitled "Centrifuge Model Studies on Moment Carrying Capacity of Short Pile in Sand" was awarded consolation prize at the 1998 UTM Publication Award Ceremony. This paper was published in the Journal of Institution of Engineers, Malaysia (IEM) in December 1997. In 1999 another paper by the faculty members won of the UTM Publication Award. The paper entitled "Limiting Sway for Unbraced Steel Frame with Column Bending on Minor Axis" was jointly written by Assoc. Prof. Dr. Abdul Karim Mirasa, Ir. Dr. Mahmood Md. Tahir and Dr. Hanim Othman and published by Journal Technology December 1998.

Since 1988, the faculty produces its very own journal namely Civil Engineering Journal. This journal contains most research papers written by the academic staff from every department in the faculty. To date, 11 volumes of Civil Engineering Journals have been published. Some of the research papers, published in international journal, are listed in **TABLE 4.1**. The rest of the published research papers from 1995 are listed in the APPENDIX D.



The Vice Chancellor of UTM, Dato' Ahmad Zaharudin Idrus presenting the publication award to Assoc. Prof. Dr. Ramli Nazir in 1998.

TABLE 4.1 : List of Published Research Paper

No.	Papers Published in International Journal
1.	Aziz Ibrahim & Nalluri, C., "Local Scour Profiles Beneath Submarine Pipelines." Journal of International association for Hydraulic Research (IAHR), Delft, 1986.
2.	Mohd Zulkifli Ghazali. "Engineering Masonry-Education, Training and Code of Practice" in <i>ACEM Journal</i> , 1987.
3.	Amir Hashim Mohd Kassim. "Rainfall network design through Comparative Kriging Methods, Hydrological Sciences". <i>Journal Des Sciences Hydrologiques</i> 36:3, 1991.
4.	Amir Hashim Mohd Kassim, "The Turning bands Method with the Fast Fourier Transform as an Aid to the Determination of Storm Movement." <i>Journal of Hydrology</i> 127, pp: 1-4, 1991.
5.	Amir Hashim Mohd Kassim, "Classification of Storm Profiles using Crossing Properties." <i>Journal of Hydrology</i> 127, pp: 1-4, 1991.
6.	Mohd Warid Hussin, "Deflection and Cracking Performance of Fibrous Ferrocement Thin Sheets." <i>Journal of Ferrocement</i> . Vol. 21:1, pp: 31-41, 1991.
7.	Ismid, M., H. Suzuki & T. Saisho. "Occurrences of Brachyuran Larvae in the Surf Zone of Fukiage Beach, Kagoshima Prefecture, Japan (I) families Grapsidae & Ocypodidae." <i>Benthos Research</i> , 46 : 11-24.1994.
8.	Ismid. M., H. Suzuki and T. Saisho, "Occurences of Brachuran Larvae in the Surf Zone of Fukiage Beach, Kagoshima Prefecture, Japan (II) families Leucosiidae & Xanthidae & Pinnotheridae." <i>Benthos Research</i> , 46 : 25-32. 1994.
9.	A.L. Saleh & M.H. Aliabadi, "Crack growth Analysis in Concrete Using The Boundary Element Method", <i>Engng. Fract. Mech.</i> , 51(4), 533-545, 1995.
10.	A.L. Saleh & M. H. Aliabadi, "Boundary Element Analysis of The Pullout Behaviour of an Anchor Bolt Embedded in Concrete", <i>Mech. Of Cohesive-Frictional Materials</i> , 1, 235-249, 1996
11.	M.Z. Abd. Majid, "International Expansion of Malaysia Contractors." <i>International Journal of Engineering Construction and Architectural Management</i> , Blackwell, Oxford, United Kingdom, 1996.
12.	Mohd. Warid Hussin, "Palm Oil Fuel Ash – A Potential Pozzolanic Material in Concrete Construction", <i>Journal of Ferrocement</i> , Vol. 27, No.4 : 321-327, 1997.
13.	Mohd. Warid Hussin, "The Effectiveness of Palm Oil Fuel ash in Preventing Expansion Due to Alkali-Silica Reaction", <i>Cement & Concrete Composite Journal</i> , Vol. 19, No. 4 : 367-372, 1997.

No.	Papers Published in International Journal
14.	M.Z. Abd. Majid and Ronald McCaffer, Discussion of, "Assessment of Work Performance of Maintenance Contractors in Saudi Arabia", <i>Journal of Management in Engineering</i> , ASCE, Vol.13, No.5, 1997.
15.	M.Z. Abd. Majid, "Cause of Delays in the Construction Industry", <i>International Journal of Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1997.
16.	M.Z. Abd. Majid, " Time Cost Relationship of Public Sector Projects in Malaysia." <i>International Journal or Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1997.
17.	M.Z. Abd. Majid, " Foreign Labour Utilisation in the Malaysian Construction Industry : The Myth of Transience." <i>International Journal or Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1997.
18.	Azam, M. & Hj. Mokhtar, N., "Wave Breaking Over Mud Flats", <i>Journal for Coastal Research</i> , USA, 1998.
19.	A.L. Saleh & M.H. Aliabadi, "Crack Growth Analysis in Reinforced Concrete Using BEM", <i>Journal of Eng. Mech.</i> , ASCE, 124(9), 949-958, 1998.
20.	A.L. Saleh & M.H. Aliabadi, : "Influence of Openings in Reinforced Concrete Beam." <i>Building Research Journal</i> , 46(4), 277-290, 1998.
21.	Lewis, R.W., Schrefler, B.A. and Abd. Rahman, N., "A finite Element Analysis of Multiphase Immiscible Flow in Deforming Porous Media for Subsurface System", <i>Communication in Numerical Methods in Engineering</i> . John Wiley & Sons. Vol. 14(2), 135-149, 1998.
22.	M. Mustaffar & H.L. Mitchell, "Improved Area-Based Matching by Using Surface Gradients in the Pixel Co-ordinate Transformation", <i>International Society of Photogrammetry & Remote Sensing Journal</i> , 1998.
23.	M.Z. Abd. Majid, "Construction Delays and Overrun: Analysis and Time Optimization", <i>International Journal or Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1998.
24.	M.Z. Abd. Majid, "Organisational Culture of Large Malaysian Construction Contractors." <i>International Journal or Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1998.
25.	M.Z. Abd. Majid and Ronald McCaffer, "Factors of Non-Excusable Delays that Influence Contractors", <i>Journal of Management in Engineering</i> , ASCE, Vol. 14. No. 3, 1998.

No.	Papers Published in International Journal
26.	Abd. Rahman, N. and Lewis, R.W., "Finite element modelling of multiphase immiscible flow in deforming porous media for subsurface system", <i>Journal of Computers and Geotechnics</i> , Elsevier Science, March, Vol.24(1) : 41-63, 1999.
27.	Fadhali, Hj. Zakaria & Hussin, M.W., "Strength Properties of Hybrid and Polypropylene Fibers Reinforced Slag Cement Mortar Prisms. <i>Journal Ferrocement</i> , AIT, Bangkok, 1999.
28.	Khairul Anuar Kassim & Barry G. Clarke, "Constant Rate of Strain Consolidation Equipment and Procedure for Stabilised Soil", <i>Geotechnical Testing Journal</i> , ASTM, Vol. 22, No.1 : 13-21, 1999
29.	M.Z. Abd. Majid, "The Crisis Preparedness of Construction Companies." <i>International Journal of Engineering Construction and Architectural Management</i> , Blackwell, Oxford, UK, 1999.
30.	Ramli Nazir, "Moment Carrying Capacity of Short Pile Foundation in Cohesionless Soil", <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , American Society of Civil Engineers (ASCE), Vol. 125, No. 1 : 1-11, 1999
31.	Omar, W., and Clark, L.A., "Shear Capacity of Honeycombed Reinforced Concrete Beams". <i>Journal of The Institute of Structural Engineers</i> , UK, 1999.
32.	Zaini Ujang, G. K. Anderson and D.J. Elliott, " Transport Mechanism in Reverse Osmosis Membranes", <i>Journal Desalination</i> (The Netherlands), 1999.

4.2 Conferences, Seminar and Symposia

Apart from publishing research papers in journals, our academic staff actively participating in symposia, conferences and seminars both at National and International level. Among the conferences/seminar attended were International Conference on Global Natural Resource Monitoring and Assessments (IATSS), East Asia-Pacific Conference on Structural Engineering (EASEC-2), CANMET/ACI International Conference, DBMC, Durability of Building Material International Conference, International Offshore Mechanics & Arctic Engineering (OMAE), Conference on Concrete Engineering & Technology (CONCET), Asian Science & Technology Congress (ASTC). Seminar of Association of South East Asia Institute of Higher Learning (ASAIHL) Malaysia Science and Technology Congress (COSTAM), Short Course on Soil Investigation and Design for Slope (SCOFG), Remote Sensing Application in Water Resources Engineering etc.

The faculty also organised a series of conferences and seminars. Some of the important one including International Conference in Geotechnical Engineering (GEOTROPIKA), Asia Pacific Structural and Construction Engineering Conference (APSEC), Regional Conference on

Computer Applications in Civil Engineering (RCCACE) are among the conferences conducted by the faculty. The full listing of symposia, conferences, seminars and short courses can be found in the APPENDIX E.

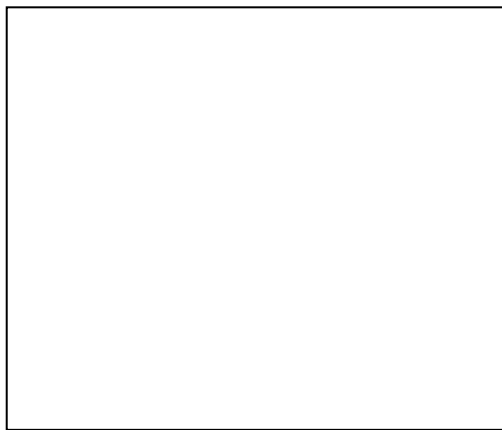


Proceeding for Conferences organised by the faculty

4.3 Books Publication

Within our first 30 years the faculty has managed to establish a reputation for high quality teaching and research development. With all the experiences and knowledge gained through teaching and research, the academic staff are also actively involved in producing textbooks to assist learning activities. The first book published by the academic staff was "Bahan dan Binaan" written by Mat Lazim Zakaria in 1987. In 1998, Mr. Amat Sairin Demun was awarded for a consolation prize for his book entitled "Hidroliik Saluran Terbuka dan Penggunaan Komputer" published in 1997 at the UTM publication award ceremony.

Besides writing original textbooks, translation of English books into Bahasa Malaysia has started since 1980's with the first book entitled "Konkrit Tetulang, Teori Rekabentuk dan Contoh" by Mat Lazim Zakaria and Nasly Mohamed Ali was published in 1982. In 1997, one of the book translated by Nasly Mohamed Ali et. al. entitled "Structural Dynamics : Theory and Computation was awarded the best translated book by PERSAMA-SIME DARBY.



PERSAMA – SIME DARBY Award

Some of the translated and original textbooks, written by the faculty members, are listed in **TABLE 4.2** and **TABLE 4.3**.

Book

Original Books written by the
Academic Staff

Book

Translation Books written by The Academic Staff

Books

Books written by the academic staff

TABLE 4.2 : List of Original Books

No.	Original Books
1.	Mat Lazim Zakaria, <i>Bahan Dan Binaan</i> . Kuala Lumpur, Dewan Bahasa dan Pustaka. (1987)
2.	Mat Lazim Zakaria & Shahrin Mohamad, <i>Reka Bentuk Konkrit Prategasan</i> . Dewan Bahasa dan Pustaka, Kuala Lumpur. (1990)
3.	Fatimah Mohd. Noor, Faridah Jaffar Sidek & Goh Guit Keau. <i>Mekanik Bendalir untuk Kejuruteraan Awam</i> . Skudai. Unit Penerbitan UTM. (1991)
4.	Normah Mulop and Zaini Ujang, <i>Bahan Api dan Teknologi Pembakaran</i> , Dewan Bahasa dan Pustaka, Kuala Lumpur. (1991)
5.	Shahrin Mohamed. <i>Rekabentuk Struktur Keluli Menurut BS 5950</i> . Dewan Bahasa dan Pustaka, Kuala Lumpur. (1994)
6.	Shahrin Mohammad, A. Aziz Saim, Mohammad Ismail dan Redzuan Abdullah. <i>Rekabentuk Struktur Keluli</i> , Dewan Bahasa dan Pustaka, Kuala Lumpur. (1994)
7.	Azmahani Abdul Aziz, Zainab Arman Ali dan Zaiton Harun, <i>Buku Kerja Lukisan Kejuruteraan Awam Khusus Untuk Pelajar Awam Sahaja</i> , Edisi Kedua, (1995)
8.	Hadibah Ismail, Azmahani Abdul Aziz dan Fatimah Mohd Noor, <i>Hidraulik Saluran Terbuka</i> , Cetakan Awal. Skudai. Unit Penerbitan UTM. (1995)
9.	Fadhil Haji Othman. <i>Pemasalahan Alam Sekitar</i> , Dewan Bahasa Dan Pustaka – UTM. (1996)
10.	Abd. Latif Saleh, <i>Crack Growth in Concrete Using Boundary Element</i> , Computational Mechanics Publications (CMP). Southampton, UK. (1997)
11.	Amat Sairin Demun, <i>Hidraulik Saluran Terbuka Dengan Penggunaan Komputer</i> . Skudai: Penerbitan UTM. (1997)
12.	Yusof Ahmad, <i>Mekanik Statik</i> . Skudai: Unit Penerbitan UTM. (1997)
13.	Zaini Ujang, <i>Pengenalan Pencemaran Udara</i> , Dewan Bahasa dan Pustaka, Kuala Lumpur (1997)
14.	Yusof Ahmad, <i>Mekanik Dinamik</i> . Skudai: Unit Penerbitan UTM. (1998)
15.	Abdul Karim Mirasa, Mahmood Md. Tahir, Mohd Hanim Osman, <i>Monograf on "Structural Design of A Medium Rise Building to BS 5950"</i> , 1999

TABLE 4.3 : List of Translated Books

No.	Translation Books
1.	Mat Lazim Zakaria & Nasly Mohamed Ali, <i>Konkrit Tetulang, Teori, Rekabentuk dan Contoh</i> , Skudai: Unit Penerbitan UTM. (1982)
2.	Ahmad Hilmy Abd. Hamid. <i>Kejuruteraan Lalulintas : Contoh & Penyelesaian</i> , Skudai: Unit Penerbitan UTM. (1990)
3.	A. Karim Mirasa & Shahrin Mohamed, <i>Struktur Kerja Keluli : Menurut Teori Keadaan Had</i> . Skudai: Unit Penerbitan UTM. (1991)
4.	Fatimah mohd Noor, Faridah Jaffar Sidek dan Goh Guit Keau. <i>Mekanik Bendalir untuk Kejuruteraan Awam</i> . Skudai: Unit Penerbitan UTM. (1991)
5.	Nasly Mohamad Ali, <i>Teori Struktur Lanjutan</i> , Skudai: Unit Penerbitan UTM (1991)
6.	Shahrin Mohamad & Abdul Karim Mirasa, <i>Struktur Kerja Keluli : Rekabentuk Menurut Teori Keadaan Had</i> . Skudai: Unit Penerbitan UTM (1991)
7.	Fatimah Mohd Noor, Hadibah Ismail, Mohammad Noor Hj. Salleh dan Abd. Aziz Ibrahim. <i>Hidrologi Kejuruteraan</i> . Skudai: Unit Penerbitan UTM. (1992)
8.	Mohamad Ismail. <i>Amalan Kerja Konkrit</i> . Skudai: Unit Penerbitan UTM. (1992)
9.	Mohamad Ismail, <i>Pengenalan kepada Konkrit</i> . Skudai: Unit Penerbitan UTM. (1992)
10.	Wan Mokhtar Wan Nawang & Frank, M. L., <i>Bibliography of Malaysian Hydrology**</i> . UNESCO:IHP Publication. (1992)
11.	Wan Mokhtar Wan Nawang & Shahabudin Mustapha, <i>Kejuruteraan Alam Sekitar</i> , Skudai: Unit Penerbitan UTM. (1992)
12.	Aminaton Marto, Fatimah Mohd Noor dan Fauziah Kasim, <i>Mekanik Tanah</i> . Skudai: Unit Penerbitan UTM. (1993)
13.	Ismail Hassan, <i>Analisis Plastik dan Teori Garis Alah</i> , Skudai: Unit Penerbitan UTM. (1993)
14.	Mahadzer Mahmud, <i>Masalah Kajidaya Tanah Kejuruteraan Asas Peringkat Ijazah</i> . Skudai: Unit Penerbitan UTM. (1993)
15.	Nasly Mohamad Ali, <i>Rekabentuk Untuk Kestabilan Struktur</i> , Skudai: Unit Penerbitan UTM (1993)
16.	Fatimah Mohd Noor. <i>Hidraulik Kejuruteraan Awam</i> . Skudai: Unit Penerbitan UTM. (1994)
17.	Mohd Azraai Kassim, Mohd Razman Salim dan Mohd Noor Othman. <i>Rawatan Kumbahan dalam Iklim Panas</i> . Skudai: Unit Penerbitan UTM (1994)

No.	Translation Books
18.	Hadibah Ismail, Mekanik Bendalir Untuk Jurutera Awam. Skudai: Unit Penerbitan UTM (1995)
19.	Othman Che Puan & Ahmad Hilmy Abd. Hamid. Pengenalan Perancangan Pengangkutan. Skudai: Unit Penerbitan UTM (1995)
20.	Nasly Mohamed Ali, <i>Dinamik Struktur-Teori & Pengiraan</i> , Skudai: Unit Penerbitan UTM (1996)
21.	Nasly Mohamed Ali, Roslida Abd. Samat, Abd. Latif Saleh, , Yusof Ahmad dan Hazlan Abd. Hamid, <i>Dinamik Struktur-Teori & Pengiraan</i> (Edisi Ketiga), Skudai: Unit Penerbitan UTM (1996)
22.	Mohd. Zulkifli Mohd. Yunus & Zulkarnain Mat Amin. Ukur Kejuruteraan Lanjutan-Masalah & Penyelesaian, Skudai : Penerbitan UTM. (1996)
23.	Nasly Mohamed Ali, <i>Dinamik Struktur-Suatu Pengenalan Kepada Kaedah Komputer</i> , Skudai: Unit Penerbitan UTM (1997)
24.	Wahid Omar & Abdullah Zawawi Awang, <i>Rekabentuk Konkrit Prategasan</i> , Terbitan UTM & Renong (1997)
25.	Kamsiah Mohd Ismail, Yusof Ahmad dan Zainab Arman Ali, <i>Analisis Struktur Pertengahan</i> , Skudai: Unit Penerbitan UTM. (1997)
26.	Mohd. Zulkifli Mohd. Yunus & Mohd. Razali Mahmud. Ukur Kejuruteraan-Masalah dan Penyelesaian, Skudai : Unit Penerbitan UTM. (1997)
27.	Nasly Mohamad Ali et al., <i>Analisis Struktur. Pendekatan Kesepaduan Klasik dan Matriks</i> , Skudai: Unit Penerbitan UTM (1999)
28.	Shahbudin Mustapha, <i>Garis Panduan Kualiti Air Minum</i> . Jilid 3.(1999)*
29.	Shahrin Mohamed, <i>Analisis Struktur</i> , Unit Penerbitan Akademik, UTM (1999*)