

One-Page CV

Mohamed Maalej, PhD, P.Eng. (Ontario)
Professor

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Google Scholar Profile: <http://scholar.google.ca/citations?user=ND-bXioAAAAJ&hl=en&oi=ao>

Researchgate Profile: https://www.researchgate.net/profile/M_Maalej

ORCID: <http://orcid.org/0000-0003-0657-0090>

Academic/Professional Background

Education

| | | | |
|-------|-------------------|------------------|------|
| PhD | Civil Engineering | Univ. Michigan | 1994 |
| M.S. | Civil Engineering | MIT | 1991 |
| B.S. | Civil Engineering | Col. State Univ. | 1989 |
| Minor | Mathematics | Col. State Univ. | 1989 |

Academic Positions (Dates: MM/YY)

02/11-Present Professor, Department of Civil & Env. Engineering, University of Sharjah, UAE

08/06-01/11 Associate Prof., Department of Civil & Env. Engineering, University of Sharjah, UAE

07/04-06/06 Associate Prof., Department of Civil Eng., National University of Singapore, Singapore

08/99-06/04 Assistant Prof., Department of Civil Eng., National University of Singapore, Singapore

Administrative Positions (Dates: MM/YY)

09/17- 03/18 Founding Director, Office of International Relations, University of Sharjah, UAE

02/16- 08/17 Acting Dean, College of Engineering, University of Sharjah, UAE

09/14-01/16 Chair, Dept. of Civil & Environmental Engineering, University of Sharjah, UAE

03/11-08/13 Vice Dean, College of Engineering, University of Sharjah, UAE

06/09-02/11 Acting Dean, College of Engineering, University of Sharjah, UAE

09/07-06/09 Vice Dean, College of Engineering, University of Sharjah, UAE

Membership of Professional Bodies

Professional Engineers Ontario, Member since 1998

Research Training

Supervised & Trained 7 PhD Students, 9 MSc/MEng Students, 2 Postdoctoral Fellows

Research Interests

- High Performance Fiber Reinforced Cementitious Composites (HPFRCC)
- Impact/blast resistance of HPFRCC
- Structural dynamics and earthquake engineering
- Micromechanics of fibrous composites
- Corrosion durability of reinforced concrete
- Structural repair and retrofitting
- Structural health monitoring

Technology/Expertise

Publications

56 Articles in International Refereed Journals
 36 Conference Articles/Presentations
 3 Books/Book Chapters
 1 Patent

Citations

More than **3000** citations as per Google Scholar Data. SCOPUS h-index: **31**

Technology/Expertise Application

- Analysis and Design of Protective Structures
- Structural Health Monitoring
- Structural Repair and Retrofitting

Consultancy

- Security study of key Installations (KIns), Singapore
- Structural health monitoring of HDB building estates, Singapore

Representative Research Projects

- Innovative Vibration Attenuation Devices for Equipment and Structures (Competitive Research Project No. 15020401009-P), University Research Board, University of Sharjah (2015-2017); AED 48,000.
- Engineered Cementitious Composites For Blast-Resistant Structures, Defense Science and Technology Agency, Singapore (R-379-000-002-422); (2002-2006); \$ 1,513,000.

Patents

Kuang, S.C.K.; Quek, S.T. & **Maalej, M.** "Plastic optical fiber sensor," US Patent No. 7,496,247 (February 2009).

Short Courses

- Design of High Performance Fiber Reinforced Cementitious Composites
- Fracture and Fatigue

Awards

Annual Incentives Award for Distinguished Faculty Members in Scientific Research for AY 2008/2009

CURRICULUM VITAE

1. PERSONAL DATA

Name: Mohamed Maalej
Country of Origin: Tunisia
Nationality: Tunisian/Canadian
Address: Department of Civil & Environmental Engineering, University of Sharjah
P.O. Box 27272
University City, Sharjah, UAE

Tel : +971 6 505 3911
Email: mmaalej@sharjah.ac.ae

2. ACADEMIC/PROFESSIONAL PARTICULARS

Field of Specialization: Materials & Structural Engineering

(a) Academic Qualifications

Ph.D. in Civil Engineering, April 1994, University of Michigan, Ann Arbor, MI
Dissertation Title: "Fracture Resistance of Engineered Fiber Cementitious Composites and Implications to Structural Behavior." (GPA: 8.38/9.00)

M.S. in Civil Engineering, June 1991, MIT, Cambridge, MA Dissertation Title:
"Design of Joints for Sandwich Panels." (GPA: 5.00/5.00)

B.S. in Civil Engineering, May 1989, Colorado State University, Fort Collins, CO
Dissertation Title: "Cache La Poudre Water and Power Project." (GPA: 3.95/4.00)

(b) Academic Honors and Awards

- Annual Incentives Award for Distinguished Faculty Members in Scientific Research for AY 2008/2009
- KKCNN Choi Award, 17th KKCNN Symposium on Civil Engineering, Ayutthaya, Thailand, 13-15 December 2004
- University of Michigan Rackham Pre-Doctoral Fellowship (1993-1994)
- Presidential Prize (Tunisia, July 1991)
- Golden Key National Honor Society (inducted in 1988)
- Who's Who Among Students in American Universities and Colleges (1988-1989)
- Dean's Honor List at Colorado State University (6 semesters)
- Bachelor of Science with Highest Distinctions (May 1989)

(c) Membership of Professional Bodies

Professional Engineers Ontario, Member since 1998

3. CAREER DETAILS

(a) Academic Positions Held (Dates: MM/YY)

02/11-present Professor, Department of Civil & Environmental Engineering, University of Sharjah, Sharjah, UAE
08/06-01/11 Associate Professor, Department of Civil & Environmental Engineering, University of Sharjah, Sharjah, UAE
07/04-06/06 Associate Professor, Department of Civil Engineering, National University of Singapore (NUS), Singapore
08/99-06/04 Assistant Professor, Department of Civil Engineering, National University of Singapore (NUS), Singapore
03/96-08/99 Postdoctoral Fellow, Department of Civil Engineering, University of

Toronto, Toronto, Ontario
Fall 1997 Special Lecturer, Department of Civil Engineering, University of Toronto,
 Toronto, Ontario
05/94-06/95 Research Fellow, ACE-MRL, University of Michigan, Ann Arbor, Michigan

(b) Administrative Positions Held (*Dates: MM/YY*)

09/17-03/18 Founding Director, Office of International Relations, U. of Sharjah, UAE
02/16-08/17 Acting Dean, College of Engineering, University of Sharjah, Sharjah, UAE
09/14-01/16 Chair, Dept. of Civil & Env. Eng., University of Sharjah, Sharjah, UAE
02/11-08/13 Vice-Dean, College of Engineering, University of Sharjah, Sharjah, UAE
06/09-02/11 Acting Dean, College of Engineering, University of Sharjah, Sharjah, UAE
09/07-06/09 Vice-Dean, College of Engineering, University of Sharjah, Sharjah, UAE
08/06-08/07 Chair, College of Engineering Research & Scholarship Committee, UoS
07/04-06/06 Program Manager, Master of Science in Civil Engineering (MSCE), NUS

Positions Highlights

- Developed Proposal for establishing the Office of International Relations (OIR) at the University of Sharjah, including the office organizational structure and office bylaws.
- Formed the University Committee for International Relations and Rankings (UCIRR) as part of organizational structure of the OIR.
- Led the UCIRR committee effort to prepare the institutional data for the QS Stars Audit exercise, which led to the outstanding results of the UoS in the Audit.
- Prepared the institutional data for submission to the QS and THE university ranking organizations.
- Represented the University of the Sharjah in collaboration/discussion meetings with current and potential international partners.
- Overseeing ABET & Local Accreditation efforts in the College
- Overseeing the development of three new programs, Sustainable and Renewable Energy Engineering (SREE), Mechanical Engineering (ME) and Nuclear Engineering (NE)
- Overseeing curriculum issues in the College as well as Development of new College Programs
- Supervising and following up on strategic planning activities in the College
- Overseeing & directing College Committees' activities
- Evaluating performance of faculty members in the College and making appropriate recommendations
- Planning and managing College Annual Budget in accordance College Priorities
- Promoting research activities in the College, including, creating more facilities and support for research, encouraging interdisciplinary research activities, building bridges with the industry and community, providing help to generate research opportunities for college faculty, improving the quality and enrolment in the college master programs, improving the impact & visibility of the college research activities, providing necessary support for local and international workshops and conferences.
- Leading strategic planning in the CEE Dept.
- Developing a new Dept. Organizational Structure leading to organizing and streamlining of Department work
- Overseeing curriculum issues in the Dept. in relation to National and International (ABET) accreditation requirements
- Developing the non-thesis option of the Master of Science in Civil Engineering (MSCE)
- Managing all aspects of the MSCE program, including curriculum, admission, monitoring student performance, etc...

4. Teaching

(a) Summary of Courses Taught

| Code | Module Name |
|---------|--------------------------------------------------------------|
| 0401243 | Dynamics |
| 0401310 | Structural Analysis |
| 0401311 | Structural Analysis I |
| 0401311 | Structural Analysis II |
| 0404311 | Fundamentals of Structural Analysis |
| 0401509 | Advanced Numerical Methods (Graduate) |
| 0401512 | Structural Dynamics & Earthquake Engineering (Graduate) |
| 0401506 | Applied Engineering Statistics (Graduate) |
| 0401405 | Numerical Methods |
| EG1109 | Statics and Mechanics of Materials |
| CIV261F | Engineering Mathematics I (University of Toronto) |
| CE2154 | Structural Analysis |
| CE2403 | Differential Equations and Computational Methods |
| CE2404 | Engineering Mathematics I |
| CE2405 | Engineering Mathematics II |
| CE2407 | Engineering and Uncertainty Analysis |
| CE3153 | Reinforced Concrete Design |
| CE3155 | Structural Analysis II |
| CE4105 | Design Project |
| CE5601 | Cement and Concrete Composite Materials (Graduate) |
| CE5701 | Engineering Fracture Mechanics (Graduate) |
| CE650 | Fracture and Micromechanics of Fibrous Composites (Graduate) |

(b) Training

Successfully completed a Professional Development Program (PDP) organized by the NUS Centre for Development of Teaching and Learning (CDTL). The program consisted of four core modules and two elective modules:

- Introduction to Pedagogy: Paradigms and theories that Shape Practice
- Large Group Teaching
- Small Group Teaching
- Teaching Practicum
- Use of IT in Teaching and Learning (elective)
- Assessment (elective)

(c) Research Students Supervised

| | | |
|-------------------------|------------------|----------------------------|
| Mr S.F.U. Ahmed | PhD (1999-2004) | Principal Supervisor (NUS) |
| Mr Santosh Sundararajan | PhD (2002-2004) | Principal Supervisor (NUS) |
| Mr Md Rafiqul Islam | PhD (1999-2004) | Co-supervisor (NUS) |
| Ms Lee Siew Chin | PhD (2002-2006) | Principal Supervisor (NUS) |
| Mr Wang Zengrong | PhD (2005-2006) | Principal Supervisor (NUS) |
| Mr Nguyen Minh Phuong | PhD (2005-2006) | Principal Supervisor (NUS) |
| Ms Patria Kusumaningrum | PhD (2005-2006) | Co-supervisor (NUS) |
| Mr Surachet Tanwongsva | MEng (1999-2001) | Principal Supervisor (NUS) |
| Ms Bian Yi | MEng (1999-2001) | Sole supervisor (NUS) |
| Mr Koh Soo Jin, Adrian | MEng (2000-2002) | Principal Supervisor (NUS) |
| Mr Leong Kok Sang | MEng (2002-2004) | Sole supervisor (NUS) |
| Ms Chia Yee CHHOA | MEng (2002-2004) | Principal Supervisor (NUS) |

| | | |
|-------------------------|--------------------|-----------------------|
| Ms Deena Puliyaressi | MSc (2002-2003) | Sole supervisor (NUS) |
| Mr. Salaheddine Qudah | MSc (2009-2011) | Sole supervisor (UoS) |
| Mr. Hamid Ali Yahya | MSc (2010-2013) | Co-supervisor (UoS) |
| Mr. Abdul Saboor Karzad | MSc (2014-2016) | Co-supervisor (UoS) |
| Mr. Hazem Al Farra | MSc (2018-Present) | Co-supervisor (UoS) |
| Mr. Yusef Tayasna | MSc (2017-Present) | Main supervisor (UoS) |

(d) Participation in Thesis and Oral Examination Committees

| | | |
|----------------------------|------|----------------------------|
| Teoh Bak Koon | PhD | VC's Appointee (2003) |
| MD Kabir Hossain Patoary | PhD | VC's Appointee (2004) |
| Kong Kian Hau | PhD | VC's Appointee (2004) |
| Liu Ding | PhD | Internal Examiner (2005) |
| Thamaraikkannan Vinayagam | PhD | Internal Examiner (2005) |
| Seow Puay Eng-Constance | PhD | Internal Examiner (2005) |
| Vinod Kumar Jain | PhD | External Examiner (2005) |
| Iftekhar Ahmad | MEng | University Examiner (1999) |
| Ramya A Hariraman | MEng | University Examiner (2000) |
| Lim Sun Nee | MEng | University Examiner (2000) |
| Siddhartha Kumar Mandal | MEng | University Examiner (2001) |
| Liu Ning | MEng | University Examiner (2001) |
| Sun Zhihui | MEng | University Examiner (2001) |
| SUN YAN | MEng | University Examiner (2001) |
| ZHANG ZIYANG | MEng | University Examiner (2001) |
| WANG JIEWEI | MEng | Internal Examiner (2002) |
| G A VIJAYAKUMAR | MEng | Internal Examiner (2002) |
| HAN HAIPENG | MEng | Internal Examiner (2002) |
| Qian Xue Kun | MEng | Internal Examiner (2003) |
| Kong Ruiwen | MEng | Internal Examiner (2003) |
| Wong Nam Yuen | MEng | Internal Examiner (2003) |
| Li Lian | MEng | Internal Examiner (2003) |
| Ma Kaiying | MEng | Internal Examiner (2003) |
| Wu Li Peng | MEng | Internal Examiner (2004) |
| Duong Truong Son | MEng | Internal Examiner (2004) |
| Hussein Ousman | MSc | Internal Examiner (2009) |
| Deena Badran | MSc | Internal Examiner (2010) |
| Michel Obied | MSc | External Examiner (2013) |
| Ghanim Kashwani | MSc | External Examiner (2013) |
| Humam MHD Alsebai | MSc | Internal Examiner (2014) |
| Omar Maher Naseef | MSc | Internal Examiner (2014) |
| Ahmad Al Mansouri | MSc | Internal Examiner (2015) |
| Eman Al-Burai | MSc | Internal Examiner (2017) |
| Abdalla Reyad Sobhy Elbana | MSc | Internal Examiner (2018) |
| Anas Cherkaoui | MSc | Internal Examiner (2018) |

(e) Singapore-MIT Internship Program

The NUS Centre for Construction Material and Technology (CCMT) hosted a Third year student from the Massachusetts Institute of Technology. The Student, Mr Michael Chen, was supported by the Singapore-MIT Alliance to complete a 3-month internship program. Mr Chen worked under my supervision from June to August 2002 on an intensive research program focusing on the study of interfacial

stress concentration in RC beams strengthened in flexure with externally-bonded fiber-reinforced polymer (FRP).

5. RESEARCH

(a) Research Interest

- High Performance Fiber Reinforced Cementitious Composites (HPFRCC)
- Impact/blast resistance of HPFRCC
- Structural dynamics and earthquake engineering
- Micromechanics of fibrous composites
- Corrosion durability of reinforced concrete
- Structural repair and retrofitting
- Structural health monitoring

(b) Publications/Citations

Published over 90 technical articles summarized as follows (see **Annex A** for full list):

| | |
|----|---------------------------------------------|
| 56 | Articles in International Refereed Journals |
| 36 | Conference Articles/Presentations |
| 3 | Books/Book Chapters |
| 1 | Patent |

My papers have been well cited, with more than **3000** citations as per Google Scholar Data. SCOPUS h-index: 31.

(c) Research Grants

- University Research Grant, Principal Investigator
Innovative Vibration Attenuation Devices for Equipment and Structures (Competitive Research Project No. 15020401009-P), University Research Board, University of Sharjah (2015-2017); AED 48,000.
- University Research Grant, Co-Investigator
Rapid Strengthening of Unreinforced Masonry Walls for Out-of-Plane Action (Competitive Research Project), University Research Board, University of Sharjah (2015-2017); AED 60,000.
- University Research Grant, Co-Investigator
Experimental Study on Shear strength of trapezoidal corrugated steel webs (Competitive Research Project), University Research Board, University of Sharjah (2015-2017); AED 65,000.
- University Research Grant, Principal Investigator
Engineered Cementitious Composite (ECC) for Hardening of Structures Against the Effects of Blast and Impact (Seed Project No. 060405), University Research Board, UoS College of Graduate Studies & Research (2007-2009); AED 20,000.
- University Research Grant, Principal Investigator
Engineered Composites and Functionally-Graded Concrete—A New Solution for the Durability of RC Structures (R-264-000-105-112); NUS Academic Research Fund (2000-2003); \$ 96,013.
- University Research Grant, Principal Investigator
Hybrid Optical Fibre Sensor System for Health Monitoring of Engineering Structures

(R-264-000-172-112), NUS Academic Research Fund (2004-2007); \$ 150,145.

- Research Project Funded by Government Agencies or Industry, Principal Investigator
Engineered Cementitious Composites For Blast-Resistant Structures, Part of a DSTA-NUS Joint R&D Program on Development of Advanced Protective Materials and Systems Against Close-in Blast and Penetration (R-379-000-002-422); DSTA (2002-2006); \$ 1,513,000.

(d) Patents

An International Patent Application has been filed with the US Patent Office based on an invention involving a new design of plastic optical fiber sensor. Details of patent application: International Patent Application No. PCT/SG2005/000155 Filing Date: 20 November 2006, Title: Plastic Optical Fiber Sensor, INTRO Ref: KUANG KSC 01-PCT/US.

Plastic optical fiber sensor, US Patent No. 7,496,247 (February 2009). Inventors: Kuang; Sze-Chiang Kevin (Singapore, SG), Quek; Ser Tong (Singapore, SG), Maalej; Mohamed (Sharjah, AE).

6. SERVICE

(a) Membership of Institutional, National, or International Scientific Advisory Boards

- Fiber-Reinforced Polymer Society (Singapore), Honorary Secretary (2002-2005), Council Member (2005-2006)
- ACI Singapore Chapter, Director (2002-2004), Secretary (2004-2006)
- Professional Engineers Ontario, Member since 1998.

(b) Membership of Conference Committees

- Member, Local Organizing Committee, 7th International Symposium on Ferrocement and Thin Reinforced Cement Composites, 27-29 June 2001, Singapore.
- Member, Local Organizing Committee, 6th International Symposium on Fiber-Reinforced Polymer (FRP) Reinforcement for Concrete Structures, July 2003, Singapore.
- Session Chairman, 6th International Symposium on Fiber-Reinforced Polymer (FRP) Reinforcement for Concrete Structures, July 2003, Singapore.
- Secretary, Local Organizing Committee, 8th International Conference On Inspection, Appraisal, Repairs And Maintenance Of Structures, 18 – 20 December 2003, Singapore.
- Member, International Committee, 5th International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC 5), July 10-13, 2007, Mainz, Germany.
- Member, Scientific Committee, Third Annual Scientific Research Forum, **University of Sharjah**, May 2-3, 2007.
- Member, Program Committee, 5th International Workshop on Signal Processing and its Applications (WoSPA 2008) 18-20 March 2008, University of Sharjah, Sharjah, United Arab Emirates.
- Member, International Advisory Committee of the International Conference on **COmputational Design in Engineering--CODE2009**, November 3~6, 2009 Seoul, Korea.

- Member, Technical Committee of The First Australasia and South-East Asia Structural Engineering and Construction Conference (ASEA-SEC-1), Perth, Australia, Nov 28-Dec 2, 2012.
- Member, Technical Program Committee for the 2nd Global Conference on Materials Science and Engineering (CMSE 2013), Xianning, China, on Nov. 20-22, 2013.
- Chair of a session entitled "Educational Assessment," at the 5th Arab-International Conference on Quality Assurance in Higher Education, March 2015.
- Co-Chair, International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), University of Sharjah, Sharjah, United Arab Emirates, April 18th – 20th, 2017.

(c) Service as Reviewer

Journals

- Journal of Materials in Civil Engineering (ASCE)
- Journal of Structural Engineering (ASCE)
- Journal of Composites for Construction (ASCE)
- ACI Structural Journal (ACI)
- Journal of Advanced Concrete Technology (JCI)
- Engineering Fracture Mechanics (Elsevier)
- Canadian Journal of Civil Engineering (CSCE)
- Composite Science and Technology (Elsevier)
- Structural Health Monitoring: An International Journal (SAGE)
- Structures and Buildings Journal (ICE)
- Construction and Building Materials (Elsevier)
- Engineering Structures (Elsevier)

Conferences

- 6th International Symposium on Fiber-Reinforced Polymer (FRP) Reinforcement for Concrete Structures, July 2003, Singapore.
- 8th International Conference on Inspection, Appraisal, Repairs And Maintenance of Structures, 18 – 20 December 2003, Singapore
- 3^{ed} International Conference on Construction Materials: Performance, Innovations and Structural Implications, 22-24 August 2005, Vancouver, Canada.
- 5th International Workshop on Signal Processing and its Applications (WoSPA 2008) 18-20 March 2008, University of Sharjah, Sharjah, United Arab Emirates.
- International Conference on COmputational Design in Engineering--CODE2009, November 3-6, 2009 Seoul, Korea.
- The First Australasia and South-East Asia Structural Engineering and Construction Conference (ASEA-SEC-1), Perth, Australia, Nov 28-Dec 2, 2012.
- International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), University of Sharjah, Sharjah, United Arab Emirates, April 18th – 20th, 2017.

(d) Membership of Journal Editorial Boards

- University of Sharjah Journal of Pure and Applied Sciences, ISSN No. 1811-1645 (2006-2007).

(e) Invited Presentations at Scientific Meetings/Workshops

- Delivered a lecture entitled "Design of Engineered Cementitious Composites" as part of a one day course on *Advances in Concrete Technology*, organized by the Singapore Concrete Institute and the Centre for Construction Materials and Technology, Singapore, 30 September 1999.

- Speaker at a One-Day Seminar on Structural Concrete organized by the Singapore Concrete Institute and the Centre for Construction Materials and Technology, Singapore, 23 May 2000.
- Delivered a lecture "Fracture and Fatigue" as part of a two-day short course on *Structural Steelwork Design to BS5950: Part 1 (2000)*, Organized by the PSA Corporation Limited, Singapore, 3-4 June 2003.
- Invited to present a paper entitle "Structural Applications of Hybrid Fiber Engineered Cementitious Composites—A Review" at the 6th International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC 6), June 19-22, 2011, Ann Arbor, Michigan, USA.

(f) University Service

University, College and Dept. Committee Involvements (2014-present)

Serving as Chair of the CEE Dept. as well as in numerous committees at the University of Sharjah, including the University Faculty Recruitment & Contract Renewal Committee (Member), College Strategic Planning Committee (Member), Engineering Management PhD Program Committee, Ad-hoc Internal Advisory Committee for UoS Research Institute of Sciences and Engineering etc... to name few.

University, College and Dept. Committee Involvements (2013-2014)

Served in numerous committees at the University of Sharjah, including the University Faculty Recruitment & Contract Renewal Committee (Member), University Strategic Research Domain Committee—Sustainable Infrastructure (Chair), College Strategic Planning Committee (Member), College Faculty Recruitment Committee (Member), CEE Dept. Strategic Planning Committee (Chair), CEE Dept. Faculty Recruitment Committee (Chair), CEE Dept. Graduate Studies Committee (Member) to name few.

University of Sharjah Administrative & Committee Involvements (2011-2013)

Served as Vice Dean of the College of Engineering as well as in numerous committees, including, College Council (Member), College Advisory Committee (member), College Faculty Promotion Committee (Member), University Faculty Recruitment & Contract Renewal Committee (member).

University of Sharjah Administrative & Committee Involvements (2009-2011)

Served as Acting Dean of the College of Engineering as well as in numerous committees, including, College Council (Chair), College Advisory Council (Chair), College Faculty Promotion Committee (Chair), and CE Dept. Research & Graduate Studies Committee (Member).

University of Sharjah Administrative & Committee Involvements (2007-2009)

Served as Vice-Dean of the College of Engineering as well as in numerous committees, including, College Council (Member), College Advisory Committee (Member), College Faculty Promotion Committee (Vice-Chair), and CE Dept. Research & Graduate Studies Committee (Member).

University of Sharjah Committees (2006-2007)

Served in numerous committees at the University of Sharjah, including the University Research Board (Member), College Council (Member), College of Engineering Research & Scholarship Committee (Chairman), College of Engineering Faculty Promotion Committee (Member), CE Dept. Research & Graduate Studies Committee (Chairman), CE Dept Accreditation Committee (member), CE Dept Senior Design Coordinator.

Committee for the Outstanding Faculty Performance Award and Sharjah Islamic Bank Award (May 2007)

Member of this Committee who's task is to examine the files of candidates nominated for the awards as per standard procedures, ensure that they fully meet all requirements, and nominate the winners.

CE Research and Graduate Studies Committee (2001-2006)

Duties include: reviewing half-yearly RS progress reports; review of exam results for MEng and PhD students; identification and monitoring of MEng and PhD problem cases, representing CE Department in BOE meeting for MEng/PhD program.

MSc Program Manager (2004-2006)

Duties include: evaluation of applications for admission in the MSc program (CE); review of examination results; identification and monitoring of problem cases; represent CE Department in BOE meeting for MSc program.

CE Research and Graduate Studies Committee (1999-2004)

Responsible for conducting a number of benchmarking exercises aimed at evaluating the research output of NUS Academic Staff in the Department of Civil Engineering. One of the criteria used to gauge staff research output was to look at the number of citations and refereed journal publication as well as the impact factors of the journals where the articles were published.

FOE Benchmarking Committee (2001-2003)

I had been nominated to represent the Civil Engineering Department in a faculty Task Force on Benchmarking of Graduate Programs. The objective in this benchmarking exercise is to "compare and contrast" the graduate programs in the NUS faculty of engineering against "selected programs" elsewhere. The primary focus of this exercise is on the research programs (MEng & PhD).

Peer Reviewer (2003-2004)

As a continuing effort to improve the teaching of MA1505 & MA1506 Mathematics I & II for engineering students, the Department of Mathematics conducted peer reviews on the lecturers of these modules. These were special peer reviews with the aim of improving quality of teaching but not for assessment of faculty members. The Department of Civil Engineering nominated me to represent the Department in this exercise.

FOE Task Force on Graduate Studies: Recruitment Strategies (2004-2005)

The Task Force was formed to look into strategies to improve and increase the recruitment of graduate students. The task aimed to (a) ascertain the possible reasons for the drop in the number of graduate students' applications, (b) make recommendations on strategies to reverse the trend, (c) recommend strategies to attract more Singaporean Ph.D.s, and (d) recommend strategies to recruit graduate students beyond our traditional sources.

(g) Service to Profession/Industry

Fiber-Reinforced Polymer Society (Singapore)

Honorary Secretary (2002-2005), Council Member (2005-2006).

ACI Singapore Chapter

Director (2002-2004), Secretary (2004-2006).

Housing and Development Board

Provided the Singapore Housing and Development Board (HDB) with feedback on a term contract for composite wrapping to structural members in various HDB estates (22 October 1999).

Provided HDB with ideas on how fiber optic sensing can be used to monitor the structural health of building estates in Singapore. HDB has subsequently adopted the proposed idea and installed a number of fiber optic sensors in a high-rise building for the purpose of monitoring its structural health during and after construction (September 2000).

Service to Industry (10 June–10 August 2005)

Provide consultancy services to CISCO in relation to their security study of Key Installations (KINs). The scope of the work consisted of assessing hardening needs and developing hardening options and solutions for KINs.

(h) Public Service

Member, Judging Committee for 2017 Abdul Hameed Shoman Arab Researchers Award (Amman, Jordan, July 2018)

Judge, Singapore Science and Engineering Fair (Singapore, March 2001)

ANNEX A: LIST OF PUBLICATIONS

International Refereed Journals

1. **Maalej, M.** and Li, V.C. (1994) "Flexural Strength of Fiber Cementitious Composites", ASCE Journal of Materials in Civil Engineering, Vol. 6, No. 3, pp. 390-406.
2. **Maalej, M.** and Li, V.C. (1994) "Flexural/Tensile Strength Ratio in Engineered Cementitious Composites", ASCE Journal of Materials in Civil Engineering, Vol. 6, No. 4, pp. 513-528.
3. Li, V.C., **Maalej, M.** and Hashida, T. (1994) "Experimental Determination of Stress-Crack Opening Relation in Fiber Cementitious Composites with Crack Tip Singularity", Journal of Materials Science, Vol. 29, No. 10, pp. 2719-2724.
4. **Maalej, M.** and Li, V.C. (1995) "Introduction of Strain Hardening Engineered Cementitious Composites in Design of Reinforced Concrete Flexural Members for Improved Durability", ACI Structural Journal, Vol. 92, No. 2, pp. 167-176.
5. **Maalej, M.**, Li, V.C. and Hashida, T. (1995) "Effect of Fiber Rupture on Tensile Properties of Short Fiber Composites", ASCE Journal of Engineering Mechanics, Vol. 121, No. 8, pp. 903-913.
6. **Maalej, M.**, Hashida, T. and Li, V.C. (1995) "Effect of Fiber Volume Fraction on the Off-Crack-Plane Fracture Energy in Strain Hardening Engineered Cementitious Composites", J. Am. Ceram. Soc., Vol. 78, No. 12, pp. 3369-3375.
7. Li, V.C., Wu, H.C., **Maalej, M.**, Mishra, D.K. and Hashida, T. (1996) "Tensile Behavior of Engineered Cementitious Composites with Discontinuous Random Steel Fibers", J. Am. Ceram. Soc., Vol. 79, No. 1, pp. 74-78.
8. Li, V.C. and **Maalej, M.** (1996) "Toughening in Cement Based Composites. Part I: Cement, Mortar, and Concrete", J. of Cement and Concrete Composites, Vol. 18, No. 4, pp. 223-237.
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