

CURRICULUM VITAE

Abdel-Hamid I. Mourad

Notarization. I have read the following and certify that this curriculum vitae is a current and accurate statement of my professional record.

Signature *Mourad*

Date: October 6, 2014

PERSONAL INFORMATION

Full Name: Abdel-Hamid Ismail Mourad (A-H.I. Mourad)

Academic rank : Professor

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Coordinator of Mechanical Engineering Graduate Program (MSc, BS-MS and PhD), Fall 2012-Present.

<http://www.engg.uaeu.ac.ae/Graduate/me/com.shtml>

Editor-in-Chief of the Emirates Journal for Engineering Research EJER, UAEU, Spring 2011-present.

<http://www.engg.uaeu.ac.ae/ejer/edi.htm>

EDUCATION

PhD (1996) Mechanical Engineering Department, Indian Institute of Technology, Powai, Bombay, India (IITB).
Applied Mechanics and Materials Science and Engineering

MSc (1989) Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.

BSc (1981) Mechanical Engineering Department, Faculty of Engineering, Helwan University, Cairo, Egypt.

PROFESSIONAL EXPERIENCE

- Professor (2014), Mechanical Engineering Department, United Arab Emirates University, UAE
- Professor (2009), Mechanical Design Department, Helwan University, Cairo, Egypt.
- Visiting Scholar/Associate Professor (July-August, 2007), Indian Institute of technology, Bombay, India (IITB)
- Associate Professor (June, 2005), Mechanical Engineering Department, college of Engineering, UAE University.
- Associate Professor (October, 2003), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.
- Assistant Professor (September 13, 2000), Mechanical Engineering Department, Faculty of Engineering, UAE University.
- Visiting Scholar (March, 1998), Department of Aerospace Engineering, Applied Mechanics and Aviation. The Ohio-State University, Columbus, USA.
- Assistant professor (March, 1996 - March 1998), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.
- Lecturer (November, 1995-March, 1996), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.
- PhD Scholar (June, 1991- November 1995), under INDO/ARE Cultural Exchange Program, Mechanical Engineering Department, Indian Institute of Technology, Bombay (IITB), India.
- Lecturer (May 13, 1989 - June 1991), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.
- Assistant Lecturer (October, 1984 – May 1989), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.
- Demonstrator (September, 1981 - October, 1984), Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt.

SCIENTIFIC AND PROFESSIONAL SOCIETIES

- American Society of Testing and Materials (ASTM)- membership # 1674013.
- American Society of Mechanical Engineers (ASME)- membership # 7793383.

PROFESSIONAL REGISTRATION

- Egyptian Syndicate of Engineers – membership# 19/5336
- Indian Institute of Technology Bombay (IITB) Alumni Association (code No 960002).

FELLOWSHIPS, HONORS, PRIZES AND AWARDS

Given for Research and Teaching Achievements

- Recipient of the monthly salary merit increase (from Associate Provost and Chief Academic Officer) as a recognition for the exceptional service and contribution to the success of UAEU students through the commitment and hard work (AY 2006/2007).
- Recipient of monthly salary increase (from the Vice Chancellor) as a recognition for offering excellent services (in teaching, and research), effective January 1, 2007.
- Visiting scholar (associate professor) to the Indian Institute of Technology, Bombay, India, June-August, 2007) with monthly honorarium/consolidated salary.
- As an international recognition for my research quality, three of my publications were ranked by Science Direct as TOP25 hottest articles (the most downloaded articles). The first one has been published in polymer testing journal (2005) and the other two papers have been published in engineering failure analysis (2007 and 2009). **(Certificates are attached at the end of the CV)**
- Elected through male students' voting (arranged by the Student Engineering Society, UAEU) as a Super Academy Faculty for my outstanding developments and excellence in teaching (AY 2004/2005). The award (plaque) and the certificate of appreciation have been received from the college of Engineering Dean during the graduation ceremony of male students, January 3, 2005.
- My Master's degree thesis proposal entitled "elastic plastic stable crack growth" was among the 8 proposals recommended for support (8 K USD) from the graduate scholarships program at the UAEU, May 31, 2002.
- Postdoctoral fellowship, March 1998, Department of Aerospace Engineering, Applied Mechanics and Aviation. The Ohio-State University, Columbus, USA, 1998.
- PhD Scholarship of the INDO/ARE Cultural Exchange Program for PhD, 1991.
- Inclusion in the 2006 and 2007 Editions of Who's Who in the world.

Given for Service Achievements

- Recipient (at the graduation ceremony of female students, May 28, 2007) of award (plaque), certificate and movie of appreciation for the outstanding development and activities and excellence in teaching (AY 2006-2007).
- Recipient of the certificate (September 2006) and the award/plaque (March, 2005) of appreciation for the outstanding contribution to the establishment of the "Roadway, Transportation and Traffic Safety Research Center of the UAE University.
- Recipient of the certificate of appreciation from the Industrial Training & Graduation Projects Unit, Faculty of Engineering, UAEU for the outstanding contribution to the unit activities (AY 07-08), e.g., supervising 31 GP II female students in their scientific trip to Al-Taweelah Power Plant, Abu-Dhabi, April 29, 2008.
- Recipient of the certificate of appreciation from the Industrial Training & Graduation Projects Unit, Faculty of Engineering, UAEU for the outstanding contribution to the unit activities (AY 05-06). Supervise 36 GP II male students in a scientific trip to DUCAB Company, Jabel Ali, Dubai Monday, November 14, 2005.
- Recipient of the certificate of appreciation from AL-AIN Municipality for my contribution to the delivery of workshop on "Effect of thermal aging and UV radiation on performance of locally manufactured waterproofing membranes", June 22, 2005.
- Recipient of four certificates of appreciation, for the outstanding contribution in the preparation of both male and female students Engineering Exhibitions "ENGEX 2002 & 2004".

- Recipient of the certificate of appreciation for the outstanding effort in the preparation of the Faculty of Engineering Safety Manual as per ABET format (2003).
- Recipient of the certificate of appreciation for the continuous advising/counseling and support to UAEU distinguished students/students with outstanding performance (AY 2002/2003).
- Recipient of the award of appreciation from the creativity Club of UAEU, for the outstanding contribution to the club activities (2002/2003).
- Assigned (by the DVC for Academic Affairs, Decree No. 279/2002, 2002) and delegated to MUARC to discuss a memorandum of understanding between UAEU and Monash University, Australia, for establishing the UAEU Accident Research Center MUARC [2002]
- Selected/ assigned by the Vice chancellor office, file No. 21/395, 13 April 2002, to participate in the activities of the Strategies in Traffic Safety Committees-Vehicles Safety and Integrity Committee, Ministry of Interior, Traffic Department, UAE
- Received the certificate of appreciation from the College of Engineering, Tanta University, Egypt, for the outstanding performance and organization of the 4th Engineering tournament held at the Engineering College, Tanta University, Egypt (January, 2000)
- Received the certificate of appreciation from the "General Administration of Students, Helwan University" for distinguished efforts in leading "Alkhada Student Association". The winner of the general 2nd rank in the "Tournament of the Student Associations Festival", 89/99.
- Received the certificate of appreciation for chairing the committee for nominating the student (both male and female) of the most outstanding and distinguished performance (exemplary student), Faculty of Engineering, Helwan University, Egypt (from 1996 up to 1999).

RESEARCH, SCOLARLY, AND CREATIVE ACTIVITIES

RESEARCH INTERESTS:

- Fracture mechanics
- Mechanical behavior of materials
- Biomaterials and Tissue engineering
- Stress analysis
- Characterization of materials
- Durability and degradation of polymeric and composite materials
- Finite element method.

HOSTING POSTDOCTORAL AND VISITING SCHOLARS

- Hosted visiting professors, postdoctoral and Fulbright scholars (2010-2013)

POSTGRADUATE STUDENTS SUPERVISED

Supervised the following Master and PhD theses in different research areas of interest:

PhD Theses

1. Sunitha Pulikkot, Nanofibrous Scaffolds For Stem Cell Transplantation, Anatomy Department, Medicine College, UAEU, 2010-in progress.
2. Khaled Djkhane, Study of the effect of temperature and water on low-density polyethylene film as a greenhouse cover, Department of Materials Sciences, Ibn-Khaldun University, Tiaret, Algeria, 2010-in-progress.
3. Bouabdallah Dahou, Ibn-Khaldun University, Tiaret, Algeria, (2010- in progress).
4. Local supervisor of student Fatima Saeed Al Mazrouei (TC-ENG), ADCO, Abu Dhabi. Student has registered in the PhD program of Manchester university, UK. (2013).
5. Hassan. F. Elsayed, High strain rate properties of polymers for biomedical application, Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt & Leeds University, UK, awarded 2001.

Master Theses

6. Muzamil Hassan, Development of Polymeric Heat Insulators Based on Local Clay Fillers, Chemical Engineering Department (2012-in progress).
7. Hamda Hmouda Al Ketbi “Development and Characterization of Hydroxyapatite Ceramic Filters for the Removal of Heavy Metal Ions from Aqueous Media” M.Sc. Program in Environmental Science, awarded spring 2013.
8. Nuha Fathi Hussien, Fiber-reinforced calcium sulfate bone cement composites with enhanced bioactivity, mechanical properties and controlled biodegradability, awarded 2011.
9. Mohammed El Sayed El Sayed Allam, study on the fracture behaviour of friction stir spot welded joints”, MSc program of Mechanical Engineering (awarded 2012)
10. Amer Said malaeb, Safety evaluation of small and medium construction sites in the Emirate of Abu Dhabi –UAE, M.Sc. Program in Environmental Science, college of science, 2010, in progress.
11. Jaafer Yusuf Altarawneh “Fracture behaviour of cracked full scale steel pipes used for gas and oil industries” (awardee 2010).
12. Ahmed Ibrahim Ahmed, "Stress corrosion cracking of stainless steels used in manufacturing brine circulating pumps used in desalination plants", (awarded 2009).
13. Yahya Abdulla Alzafin Almuhaire, "Stress corrosion cracking of two types of ductile Ni-resist cast irons used in desalination plants", Materials Science and Engineering Program, United Arab Emirates University, 2007.
14. Aladdin Ihsan Abu-Assi, “Ductile crack growth”, External Scholarship Program for Master Studies, School of Graduate Studies, United Arab Emirates University, 2005.
15. Raniah Omar Akkad, "Thermal properties of polyethylene-polypropylene blends", Materials Science and Engineering Program, United Arab Emirates University, 2005.
16. Rauda Saeed Ali Saif Al-Sadi, “Effect of thermal aging and UV radiation on performance of locally manufactured waterproofing membranes”, Materials Science and Engineering Program, United Arab Emirates University, 2005.
17. Nasser Abdullah Ali Al-Ghailani, “The evaluation of the long term performance of reinforced composites materials based on vinylester resin", Materials Science and Engineering Program, United Arab Emirates University, 2002.
18. Mohammed Juma Humaid al-Ghafri, “Studies on Stable Crack Growth”, Materials Science and Engineering Program, United Arab Emirates University, 2002.
19. Amro Abdel-Hadi, “Fatigue behavior of oblique notches”, Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt, 2001.
20. Doaa Mohamad Nafee, “Investigation of die drawing process effects on the behaviour of polymeric materials”, Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo, Egypt, 1998.
21. Abullah Rashid, "An investigation on the effect of heat treatment on the mechanical behavior of low alloy steel”, Materials Science and Engineering Program, United Arab Emirates University (pending).
22. Aisha A. M. Shaiban Al-Muhairy, "The effect of some manufacturing process variables on the characteristics of vitreous enameling coatings of directional signs", Materials Science and Engineering Program, United Arab Emirates University (pending).
23. Shamsah Jameel Abdullah, “The Impact of the raw material recipe on the manufacturing and behavior of unplasticized polyvinyl chloride (PVC-U) Pipes (pending).
24. Ali Khamis Juma Alkaabi, Impact of Local recycling on quality of irrigation pipes and ways to improvement in GCC (pending).

RESEARCH GRANTS

a. Internally Funded Individual Research Projects (UAEU):

1. Co-PI (with Dr. Mohammad Sayem, Chemical & Petroleum Engineering Department) of the research project “Development and characterization of biocompatible polymeric powder coatings”, approved for funding with a total grant of 30,000.00 Dhs, 2013
2. PI of the research project “Development of forming limit diagrams for sheet-metals: Experimental and theoretical study”, approved for funding with a total grant of 30,000.00 Dhs, 2011
3. PI of the research project (1682-07-01-10), Characteristics of Fracture behavior of friction stir spot welded joint, approved for funding with a total grant of 15,000.00 Dhs (grant #1682-07-01-10), March 11, 2010.
4. PI of the research project “Durability of FRP composites exposed to sea-water and high temperature under sustained loading”, approved for funding with a total grant of 20,000 Dhs, January 12, 2009.

5. PI of the research project "Thermomechanical characteristics of hydroxyapatite-polymer Composites", approved for funding with total grant of 20,000 Dhs, Grant # 03-05-7-11/07 (2007-2008).
6. Co-PI of the research project "Stress Corrosion Cracking of Materials Used in Manufacturing Brine Circulating Pumps of Desalination Plants", approved for funding with a total grant of 17000 Dhs. Grant # 09-05-7-11/07, (2007-2008).
7. Co-PI of the research project "A study on the Performance of Ductile Ni-Resist Austenitic Cast Iron Used in Desalination Plants", approved for funding with a total grant of 17,000.00 (2004-2005).
8. Co-PI of the individual research project "A study on the evaluation of porcelain enamels of directional signs used in the United Arab Emirates", Funded by UAEU Research Council with a total grant of 17.000 Dhs, Grant # 01-05-11/03. AY 2002-2003,
9. Co-PI of the individual research project "Long term performance of fiber-reinforced composite", Individual research grant, UAEU Research Council, Grant # 22-7-11/01, 2001-2002.
10. PI of the individual research project "Investigation on Stable Crack Growth", Funded by the Research Council, UAEU with a total grant of 12000 Dhs, Grant # 01/11-7-21/01, 2001-2002.

b. Internally Funded Interdisciplinary Research Projects: (UAEU)

11. C-PI, (with Dr. Mohammad Mozumder (PI) and Dr. Muftah Elnaas of chemical and petroleum engineering department) of the Startup project "Development of Superhydrophobic Self-Cleaning Powder Coatings for Solar Panels". The approved total budget is 44200.00 AED, August, 2013
12. C-PI (with Dr. Mohammad Mozumder (PI) of chemical and petroleum engineering department and Md. Emdadul Haque, college of Medicine) of the UPAR Grant for the research project "Development and characterization of nanobiocomposites for biomedical applications". Approved for funding by the University Research Council (URC). The approved total budget is 385000.00 AED, April, 2013
13. CO-PI (Ali Hilal Alnaqbi, PI) of the Startup project "Fibre in Fibre Bioartificial Liver Device (so-called Emirates EmLAD) Evaluation using Adult Stem Cells" The approved total budget is 500000.00 AED, August, 2013.
14. PI (with Dr Yasser of faculty of science and Prof. Sherif Karam of faculty of medicine) of Interdisciplinary project "Formation, Characterization and In Vitro Evaluation of Alumina Nanoparticles-reinforced Polymer Composites for Biomedical Applications", 2013
15. PI the research project "Development of Novel Hydroxyapatite-polymer Composites as Medical Devices for Hard Tissues Replacements. Recommended for funding with total grant of 180,000 Dhs (fall 2006), grant # 04-05-7-12-06. (2007-2010).
16. Co-PI of the Interdisciplinary project (with Dr. Basem Alu-Jadayil of chemical and petroleum engineering department) "Waterproof Polymeric Heat Insulators Based on Micronized and Nano-Sized Fillers". The project has been approved for funding (Grant of 120,000.00 Dhs), Fund Code 31N092, 2011.

c. Externally Funded Research Projects

17. Co-PI of the NRF research project (with Dr. Yaser Afifi Chemistry Department, Faculty of Science and Prof. Sherif Karam of Faculty of Medicine) "Nanofibrous scaffolds for stem cell transplantation II. Development, biomechanical characterization and in vitro and in vivo evaluation" 320,000.00 march 2013-march 2015.
18. Co-PI of the NRF research project (with Dr. Yaser Afifi Chemistry Department, Faculty of Science and Dr. Sharif Karam of Faculty of Medicine) "Nanofibrous Scaffolds for Stem Cell Transplantation". It has been approved for funding from the National Research foundation, UAE (Grant of 482, 000.00 Dhs), April 2011- April 2013.
19. Co-PI of the NRF project (with Dr. Eisa A. Al Matroushi of chemical and petroleum Engineering and Dr. Yaser Afifi of Chemistry Department) Evaluation of Hydroxyapatite-reinforced Cellulose Nanofibrous Membranes for Water Treatment, (Grant of 320,000.00 Dhs), March 2013 –March 2015.
20. Co-PI of the NRF research project (with Dr. Basem Abu-Jadayil of Chemical and Petroleum Engineering), "Production of Heat Insulators Based on Scrap-Tires and Date pits", Grant AED 744,562.50), UAEU Research Competition-2011.
21. PI of the project, Design and Construction of a Versatile Portable Testing Frame. The project funded by ADWEA (Grant of 155,000.00 Dhs) May, 2009- in progress.
22. Co-I (with Dr. Abdelkader Dhahi and Dr. Bouaza Amar) of the research project "Study of the durability of polyethylene films used in the dry environmental conditions in the eastern highlands regions of Algeria. The project has approved for funding by Agence National pour le Développement de la Recherche Universitaire (AUDRU) (total budget of 15000 EURO), the project started on 05/05/2011-in progress.
23. Co-PI, Effectiveness of FRP Bars in Reinforcing Concrete Structures in the Gulf Region, approved for funding (Grant of 300,000 Dhs) Dubai Municipality Center, April, 2008.

24. Contributed in securing an international funding (with a total of two million Dhs.) for an externally funded project, "In-depth Crash Investigation of Roadway Crashes in Al-Ain", through the UAE Roadway Transportation and Traffic Safety Research Center (2004-2007). The project has been conducted by the team work of the UAEU Traffic Safety Research Center in collaboration with the Monash University Accident Research Center, Australia.
25. PI of the research project "Elastic-plastic stable crack growth, Research project for Master Degree", Funded by External Scholarship Program for Master Studies, School of Graduate Studies-UAEU with a total grant of \$ 8 thousand US (2002-2004).

PUBLICATIONS

Patents:

- 1- US - Patent Application No. 13863123 for " Serviceable Bioreactor" in the name of United Arab Emirates University (Inventors: Ali Abdullah Hilal-Alnaqbi and Abdel-Hamid Ismail Mourad)
- 2- US Patent Application [US U0018-00079 (RCD 13/011 R4997-03969)] for: Thermal Insulation Material Made of Date-Pits and Unsaturated Polyester (Inventors Basem Abu-Jdayil and Abdel-Hamid Mourad)

Refereed International Journal Papers

1. A-H. I. Mourad, Aladdin Abu-Assi and Fahmy M. Haggag, Yuh J. Chao, Novel Technique for Normalizing Load-Displacement Curves in Fracture Testing, Materials Performance and Characterization, special issue on Fracture Toughness, accepted for publications, doi:10.1520/MPC20130084 / Vol. 3 / No. 3 / 2014 / available online at www.astm.org.
2. A-H.I Mourad, J. altarawneh, A. E. Domiaty, Y. J. Chao, and F. Haggag, Fracture Toughness Measurements from Circumferentially-Notched Pipes Tests, special issue on Fracture Toughness, Materials Performance and Characterization, accepted for publications doi:10.1520/MPC20130083 / Vol. 3 / No. 3 / 2014 / available online at www.astm.org
3. Mohammad Sayem Mozumder, Abdel-Hamid I. Mourad, Hiran Perinpanayagam, and Jesse Zhu, NanoTiO₂-Enriched Biocompatible Polymeric Powder Coatings: Adhesion, Thermal and Biological Characterizations, Advanced Materials Research, Vol. 995, pp 113-124, 2014.
4. Abdelkader Dehbi, Abdel-Hamid I. Mourad, Khaled Djakhdane, Ali Hilal-Alnaqbi, Degradation of thermomechanical performance and lifetime estimation of multilayer greenhouse polyethylene films under simulated climatic conditions, Polymer Engineering and Science, DOI: 10.1002/pen.23895, 2014.
5. A-H. I. Mourad, Abdelkader Dehbi, On the use of tri-layers low density polyethylene greenhouse cover as a substitute for mono-layer cover, Plastics, Rubber and Composites: Macromolecular Engineering, 43 (4), 111-121, 2014.
6. Waleed K. Ahmed, A-H. I. Mourad, Wail N. Al-Rifaie, Characterization of stiffened circumferentially cracked pipe with fiber reinforced polymer composite patch, Advanced materials letters, Vol. 5 (1), pp 39-43, 2014
7. https://amlett.com/uploads/articlesinpress/522b74e28016d1378579682_articlesinpreassfullabstratct.pdf
8. Muftah H. El-Naas, Abdel-Hamid I. Mourad, and Riham Surkatti, Evaluation of the Characteristics of Polyvinyl alcohol (PVA) as Matrices for the Immobilization of Pseudomonas Putida, International Biodeterioration & Biodegradation, Vol. 85, pp. 413-420, 2013.
<http://authors.elsevier.com/offsets/INBI3189/4286152f551af5067cc49bd43d2dce01>
9. Ali Hilal-Alnaqbi, Abdel-Hamid I. Mourad, Basem F. Yousef, and John D.S. Gaylor, Effect of Membranes on Oxygen Transfer Rate (OTR) and Consumption Within a Newly Developed Three-Compartments Bioartificial Liver Device: Advanced Experimental and Theoretical studies, Biotechnology and Applied Biochemistry, DOI: 10.1002/bab.1173, 2013.

10. Ali Hilal-Alnaqbi, Abdel-Hamid I. Mourad, Basem F. Yousef, and John D.S. Gaylor, Experimental evaluation and theoretical modeling of oxygen transfer rate for the newly developed hollow fiber bioreactor with three compartments, *Bio-medical materials and engineering*, Volume 23, Issue 5, pp. 387-403, on line August 29, 2013.
11. Abdelkader Dehbi, A.-H. I. Mourad, Durability of mono-layer versus tri-layers LDPE films used as greenhouse cover: Comparative study, *Arabian Journal of Chemistry*, on line 30 April 2011. <http://dx.doi.org/10.1016/j.arabjc.2011.04.010>, (Corresponding Author)
12. Basem F. Yousef, Abdel-Hamid I. Mourad, Ali Hilal-Alnaqbi, Modelling of the Mechanical Behaviour of Polyethylene/ Polypropylene Blends Using Artificial Neural Networks, *International Journal of Advanced Manufacturing Technology*, Volume 64, Issue 5-8, pp. 601-611, 2013.
13. AM El-Kassasa, A-H.I. Mourad, Novel fibers preparation technique for manufacturing of rice straw based fiberboards and their characterization, *Materials & Design* 50, 757-765, September 2013. (Corresponding Author)
14. A.-H. I. Mourad, A. Khourshid, T. Sharef, Gas tungsten arc and laser beam welding processes effects on duplex stainless steel 2205 *Materials Science and Engineering: A*, Volume 549 , pp. 105-113, 15 July 2012. (Corresponding Author).
15. W. K. Ahmed and A-H. I. Mourad, Strengthening of Misaligned Welded Pipes with Outer Circumferentially Crack Using FRP Bandage Finite Element Analysis, *Journal of Mechanical Engineering and Technology*, 2 Sept. 2013, Vol. 1 (2), pp. 66-73, 2013. <http://www.bowenpublishing.com/jmet/paperInfo.aspx?PaperID=14276>
16. A-H.I. Mourad, Aly El-Domiaty, Y J Chao, Fracture toughness prediction of low alloy steel as a function of specimen notch root radius and size constraints, *Engineering Fracture Mechanics*, Volume 103, 79–93, May 2012. (Corresponding Author)
17. Abdelkader Dehbi, A-H.I. Mourad, Amar Bouaza, Degradation assessment of LDPE multilayer films used as a greenhouse cover: Natural and artificial aging impacts, *Journal of Applied Polymer Science*, 124, issue 4, pp. 2702-2716, 15 May 2012. (Corresponding author).
18. W. K. Ahmed, A-H. I. Mourad, Using Fiber Reinforced Polymer to Restore Deteriorated Structural Members, *International Journal of Material and Mechanical Engineering*, 2012, 1: 1-7, published online April 2012, <http://www.ijm-me.org/paperInfo.aspx?ID=1862> <http://www.ijm-me.org>
19. Abdelkader Dehbi, A-H. I. Mourad and Amar Bouaza, Ageing Effect on the Properties of Tri-Layer Polyethylene Film Used as Greenhouse Roof, *Procedia Engineering*, Volume 10, pp. 466-471, 2011.
20. Basem F. Yousef, A-H. I. Mourad and Ali Hilal-Alnaqbi, Prediction of the Mechanical Properties of PE/PP Blends Using Artificial Neural Networks, *Procedia Engineering*, Volumn, 10, pp. 2713-2718, 2011.
21. Abdel-Hamid I. Mourad, Aly El-Domiaty, Notch Radius and Specimen Size Effects on Fracture Toughness of Low Alloy Steel, *Procedia Engineering*, Volume 10, pp, 1348-1353, 2011. (Corresponding Author)
22. H. M. S. Iqbal, S. Bhowmik, R. Benedictus, J. Moon, C. Kim, A.-H. I. Mourad, Processing and Characterization of Space-Durable High-Performance Polymeric Nanocomposite, *Journal of Thermophysics and Heat Transfer*, 0887-8722 Voulme 25 issue 1, pp. 87-95, 2011.
23. A.-H.I Mourad, Beckry Abdel-Magid, Tamer El-Maaddawy, Maryam Grami, Effect of seawater and warm environment on glass/epoxy and glass/urethane composites, *Journal of Applied Composite Materials*, Volume. 17, Issue 5, pp. 557-573, October, 2010.
24. A.I. Aljoboury, A.-H.I. Mourad, A. Alawar, M. Abou Zour, O.A. Abuzeid, Stress corrosion cracking of stainless steels recommended for building brine recirculation pumps, *Engineering failure analysis*, Volume 17, issue 6, pp. 1337-1336, September 2010.

25. A.-H. I Mourad, Thermo-Mechanical Characteristics of Thermally Aged Polyethylene/ Polypropylene Blends, *Materials and Design*, Volume 31, Issue 2, pp. 918–929, February 2010.
26. M.H. El-Naas, A. H.I Mourad, S. Al-Zuhair, R. Surkatti, Characterization of polyvinyl alcohol (PVA) gel as support for microbial immobilization. *Special Abstracts/Journal of Biotechnology (Elsevier)* 150S: S1–S576 (2010).
27. A.-H.I Mourad and Mohamed Y. E. Selim, On the Awareness of UAE University Engineering Students with ABET Accreditation, *International Journal of Education Research*, Volume 4, Issue 2, pp. 1–16, 2010. (Corresponding Author).
28. A.-H. I. Mourad, R. O. Akkad , A. A. Soliman, and T. M. Madkour, “Characterization of thermally treated and untreated polyethylene-polypropylene blends using DSC, TGA and IR techniques”, *Plastics, Rubber and Composites: Macromolecular Engineering*, Volume 38, Number 7, pp. 265-278 (14), October 2009. (Corresponding Author)
29. A.-H. I. Mourad, H. Fouad Mohamed and Rabeh Elleithy, Impact of some environmental conditions on the tensile, creep-recovery, relaxation, melting and crystallinity behaviour of UHMWPE GUR410- medical grade, *Materials and Design*, 30, Issue 10, pp. 4112-4119, December 2009. (Corresponding Author)
30. Y.A. Alzafin, A.-H.I. Mourad, M. Abou Zour, O.A. Abuzeid, Stress corrosion cracking of Ni-resist ductile iron used in manufacturing brine circulating pumps of desalination plants, *Engineering Failure Analysis*, Volume 16, Issue 3, pp. 733–739, April 2009. (Corresponding Author)
31. H. F. Mohamed, A.-H. I Mourad, D.C. Barton, UV irradiation and aging effects on nanoscale mechanical properties of ultra high molecular weight polyethylene for biomedical implants, *Plastics, Rubber and Composites: Macromolecular Engineering*, Volume 37, Number 8, pp. 346-352, 2 May 2008. (Corresponding Author)
32. S. K. Maiti, K. Kishore, and A. -H. I. Mourad, “Bilinear CTOD/CTOA scheme for characterisation of large range mode I and mixed mode stable crack growth through AISI 4340 steel *Nuclear Engineering and Design*, Volume 238, issue 12, pp. 3175–3185, December 2008.
33. S. K. Maiti, S. Namdeo and A.-H.I. Mourad “A scheme for finite element analysis of mode I and mixed mode stable crack growth and a case study with AISI 4340 steel” *Nuclear Engineering and Design*, Elsevier, Volume 238, Issue 4, pp. 787-800, April 2008.
34. Y. A. Alzafin, A.-H. I. Mourad, M. Abou Zour, O. A. Abuzeid, “A study on the failure of pump casings made of Ductile Ni-resist cast irons used in desalination plants”, *Engineering Failure Analysis*, Volume. 14, Issue 7, pp. 1294-1300, October 2007. (Corresponding Author)
35. A. -H. I. Mourad, M. G. Alghafri, O. A. Abu Zeid and S. K. Maiti, "Experimental investigation on ductile stable crack growth emanating from wire-cut notch in AISI 4340 steel”, *Nuclear Engineering and Design*, Volume 235, Issue 6, pp. 637-647, March 2005. (Corresponding Author)
36. A.-H. I. Mourad, A. Al-Muhairy, O. A. Abu Zeid, "Evaluation of porcelain enamels of directional signs used in the UAE", *Engineering Failure Analysis*, Elsevier, Volume 12, pp. 299-306, April 2005. (Corresponding Author)
37. H. Fouad, A.-H.I. Mourad, D. C. Barton, "Effect of pre-heat treatment on the static and dynamic thermo-mechanical properties of Ultra-High Molecular Weight Polyethylene" *Polymer Testing*, Elsevier, Volume 24, Issue 5 pp. 549-556, August 2005. (Corresponding Author)
38. A.-H. I. Mourad, N. Bekheet, A. Al-Butch, L. Abdel-Latif, D. Nafee and D. C. Barton, “The effects of process parameters on the mechanical properties of die drawn polypropylene”, *Polymer Testing*, Volume 24, Issue 2, pp. 169-180, April, 2005.
39. Abdel-Hamid I. Mourad, "Effect of stress state on mode II stable crack extension", *Key Engineering Materials*, Trans Tech Publication Inc, Vols. 297-300, pp. 1604-1610, online since November 2005.

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124. Osama Abuzeid, A.-H.I. Mourad, Yahya Abdulla Alzafer Almuhairei "A study on the Performance of Ductile Ni-Resist Austenitic Cast Iron Used in Desalination Plants", 2004-2005.
125. Osama Abuzeid, A.-H. I. Mourad and A. Al-Muhairy, “A study on the evaluation of porcelain enamels of directional signs used in the United Arab Emirates, Individual research grant, UAEU Research Council, AY 2002-2003, Grant # 01-05-11/03.
126. Abdel-Hamid I. Mourad, "Investigation on Stable Crack Growth", Individual research grant, UAEU Research Council, Grant # 01/11-7-21/01, 2001-2002.
127. Adel-Hammami, A.-H. I. Mourad, Ahmed Al-Awar and Nasser Al-Ghuilani, “Long –term performance of fiber-reinforced composite, Individual research grant, UAEU Research Council, Grant # 22-7-11/01, 2001-2002.
128. S. K. Maiti and A.-H. I. Mourad, “Criterion for mixed mode stable crack growth-part I. Three point bend geometry”, Report No. ARDB-STR-TR-93-93-636-01, Mechanical Engineering Department, Indian Institute of Technology, Bombay, April 1993.
129. S. K. Maiti and A.-H. I. Mourad, “Criterion for mixed mode stable crack growth-part II. Compact tension geometry with and without stiffener”, Report No. ARDB-STR-TR-93-93-636-01, Mechanical Engineering Department, Indian Institute of Technology, Bombay, April, 1993.
130. Contributed to the development and checking of the Finite Element Package “Finite element package for elastic plastic analysis”, by S. K. Maiti, Report No. MED-SKM-TR-96-02, October 1996, Indian Institute of Technology, India.

Editor, Books, Chapters in Books, Edited Collections of Readings and Manuals

Editor

131. Editor: Mechatronics and Computational Mechanics II, Applied Mechanics and Materials, Selected, Peer Reviewed Papers from the 2013 2nd International Conference on Mechatronics and computational mechanics (ICMCM 2013), Frankfurt, December 30-31, Trans Tech Publications, 2014.
<http://www.ttp.net/978-3-03835-029-3.html>

Chapters in books

132. Co-author of “Engineering Drawing” text book For reparatory year, Faculty of Engineering-Matara, Helwan University, No. 99/7614, ISBN 977-19-8849-2, First edition, 1999, copyright ©1999/2000.
133. Co-author of "Man and Science" textbook, Arabic Edition, UAEU press, 2006.
134. Development of the educational material, Ethics Chapter, of “Man and Science (GEST 213) course, English Edition, the general education program, UAEU, first semester of AY 2008/2009.

On line Conference Proceedings/Edited Collections

135. S.K. Maiti, Namdeo and A.-H.I Mourad, "New scheme for FEA of mixed mode stable crack growth" in the book "Fracture of Nano and Engineering Materials and Structures", ISBN-10-1--4020-4971-4 (HB), ISBN-13 978-1-4020-4972-2 (HB), ISBN-10-1--4020-4972-2 (e -book), ISBN-13 978-1-4020-4972-9 (e-book), Proceedings of the 16th European Conference of Fracture, Alexandropoulos, Greece, July 3-7, 2006 Edited by E.E. Gdoutos, Published by Springer, pp1179-1181. <http://books.google.com/books>.
136. Abdel-Hamid I. Mourad, "Pure shear stable crack growth through compact –tension –shear specimen in plane state of stress, Advances in Fracture and Strength, Part 3, pp. 1604-1610, ISBN 0-87849-978-4, 4 vol.-set, Edited by Young-Jin Kim, Dong-Ho Bae and Yun-Jae Kim, copyright 2005 ttp Trans Tech Publications.
<http://www.ttp.net/978-0-87849-978-6.html> <http://www.ttp.net/978-0-87849-978-6/26.html>
http://books.google.ae/books/about/Advances_in_fracture_and_strength.html?id=950-AQAAIAAJ&redir_esc=y
<http://books.google.ae/books?hl=ar&id=950-AQAAIAAJ&q=mourad>
137. A. -H. I. Mourad, M. G. Alghafri and O. A. Abu Zeid, "Stable crack extension through AISI 4340 steel: Experimental investigation", published in the book "Advances in Fracture and Failure Prevention", ISBN 0-87849-938-5 Part 1, Pages 207-212, Edited by Kikuo Kishimoto, Masanori Kikuchi, Tetsuo Shoji and Masumi Saka, ttp Trans Tech Publications, Switzerland, 2004. Electronically available at, <http://www.ttp.net/978-0-87849-938-0.html>,
http://books.google.ae/books/about/Advances_in_fracture_and_failure_prevent.html?id=G5dRAAAAMAAJ&redir_esc=y <http://books.google.ae/books?hl=ar&id=G5dRAAAAMAAJ&q=mourad> <http://www.ttp.net/978-0-87849-938-0/4.html>
138. A. -H. I. Mourad, N. Bekheet, A. Al-Butch, L. Abdel-Latif and D. Nafee," Effect of die drawing process on the mechanical behaviour of polypropylene", published in the book "Advances in Fracture and Failure Prevention", ISBN 0-87849-938-5, Part 2, Page 1677-1682, Edited by Kikuo Kishimoto, Masanori Kikuchi, Tetsuo Shoji and Masumi Saka, ttp Trans Tech Publications, Switzerland, Germany, UK, USA, 2004.
<http://www.ttp.net/978-0-87849-938-0.html>, <http://www.ttp.net/978-0-87849-938-0/27.html>
<http://books.google.ae/books?id=QqxGmwEACAAJ&dq=Advances+in+fracture+and+failure+prevention+part+2&hl=ar&sa=X&ei=dOIGUpCjIIq54ATc5oHwDw&ved=0CC4Q6AEwAA>
139. H. F. M. Elsyed, D. C. Barton, L. A. Abdel-Latif, and A. H. I. Mourad "An experimental and numerical investigation of deformation and fracture of semicrystalline polymers under varying strain rates and triaxial states of stress", published in the book "Deformation, Yield and Fracture of Polymers", ISBN 1-86125-120-3, published by IOM Communications Ltd, A subsidiary of The Institute of Materials, 1 Carlton House Terrace, London SW1Y 5DB, UK, Page 321-324, 2000. 10-13 April 2000.
140. S. K. Maiti and A.-H. I. Mourad, "Assessment of Influence of state of stress on Mixed Mode Stable crack extension through stiffened TPB specimens, published in the book "Computational Structural Mechanics", ISBN 81-7023-411-5, Available on line, <http://books.google.com/books>, Editors P.K. Sinha and S. Parthan, Allied Publisher Limited, pp. 106-117, December 8-9, 1994.

Development of Finite Element Packages

141. Contributed to the development and checking of the Finite Element Package, "S. K. Maiti, Finite Element Package for Elastic Plastic Analysis", Report No. MED-SKM-TR-96-02, October 1996, IITB, India.

Manuals

142. Abdelrazak Zekri, A.-H. I. Mourad and M. Maraqa "Faculty of Engineering Safety Manual", <http://www.engg.uaeu.ac.ae/abet/> website, 2003.
143. Author of the laboratory manual of mechanics of materials 1 (GENG 305) course, mechanical engineering department faculty of engineering, United Arab Emirates university.

TEACHING ACTIVITIES

TAUGHT/DEVELOPED COURSES

Through my career, I have taught/developed a variety of courses at both undergraduate (freshman, sophomore, junior, senior) and graduate (Master and PhD) levels. These courses were diverse in level and nature. Varieties of teaching aids/methods are used in delivering the materials of these taught courses. Electronic learning tools such as Blackboard (course management software) and NetOp (in-class course delivery software) are used in the teaching process of some of these courses. Some of the courses taught are as follows:

A. UNDERGRADUATE LEVEL

UAEU University

1. Machine Design II (MECH412)
2. Machine Design I (MECH407)
3. Mechanics of Materials I (GENG 305) (Developer: IT-based active learning course/ Lap top course)
4. Mechanics of Materials I Lab (GENF 305) (Developed the Lab manual)
5. Mechanics of Materials I (GENG 305) coordination
6. Engineering Materials (MECH 390) (Developer: IT-based active learning course/Lap top course)
7. Engineering Materials Lab (MECH 390).
8. Intermediate Mechanics of Materials (MECH 547) (Developed)
9. Mechanics of Materials II (MECH 308)
10. Mechanics of Materials III (MECH 507)
11. Computer Aided Drawing (MECH 315)
12. Man and Science (GEST 231)-English course (Developed)
13. Man and Science (GEST 231-Arabic course (Developed)
14. Statics- (GENG240), (AY 2000-2002)
15. Mathematics and Engineering Applications I (MATH 1094)
16. Mathematics and Engineering Applications II (MATH 1754)
17. Graduation Project Coordination
18. Graduation Project I, AY 05-06 (MECH 585)
19. Graduation Project II, AY 05-06 (MECH 905)
20. Graduation Project I, AY 06-07 (MECH 585)
21. Graduation Project II, AY 06-07 (MECH 905)
22. Graduation Project I, 1st term, AY 07-08 (MECH 585)
23. Graduation Project II, 2nd term, AY 07-08 (MECH 585)
24. Graduation Project I, 2nd-term AY 08-09 (MECH 585)
25. Graduation Project II, 1st term-AY 09-010 (MECH 585)
26. Graduation Project II, 1st term-AY 010-011 (MECH 585)
27. Graduation Project II, 2nd term-AY 010 -011 (MECH 585)
28. Graduation Project I, 2nd term-AY 012 -013 (MECH 585)
29. Graduation Project II, 1ST term-AY 013 -014 (MECH 585)
30. Graduation Projects I Coordination (2nd 08-09)
31. Graduation Projects II Coordination (1st 09-010)
32. Graduation Projects I Coordination (2nd 09-010)

Other universities (Helwan University, etc)

33. Stress Analysis
34. Strength of Materials
35. Machine Design
36. Machine Elements Design
37. Engine Design
38. Engineering Drawing
39. Mechanical Drawing

40. Statics
41. Graduation Project. (Design of a 3 ton crane)

Development of Courses

Achieved fund from the UAE University to develop the following courses

- Laptop developed course, IT-based active learning, “Mechanics of Materials I (GENG 305)” for the use of laptop in teaching
- Laptop developed course, IT-based active learning, “Engineering Materials (MECH 390)”, for the use of laptop in teaching

Mubadala Development Company Fund,

- For the development of the Aerospace Structures (MECH 552) course, for minor in aerospace engineering program

Development of Lab Manual

- Developed the lab manual for mechanics of materials course (GENG 305) course

Development of Innovative Loading Frame:

- Achieved fund from ADWEA company for my graduation project, in which I have introduced with my students an innovative loading frame for evaluating the properties of polymeric and polymer composite materials subjected to different loading conditions and sustained load.

B. GRADUATE LEVEL

UAE University: Mechanical Engineering and Materials Science and Engineering Graduate programs (college of engineering) and Environmental Science Graduate Program (college of Science).

42. Mechanical Behaviour of Materials (MECH 605).
43. Advanced Solid Mechanics (MECH 630) (Developed)
44. Fatigue and Fracture Mechanics (MECH 620) (Developed)
45. Failure Analysis and Prevention (MTSE 614). (Developed)
46. Mechanical properties of materials (MTSE 630) (Developed)
47. Selected Topic in Mechanical Engineering (MECH 670)/Nondestructive tests (Developed)
48. Directed individual study (MECH 691)/Practical Fracture Mechanics. (Developed)
49. Special Topics in Metal and Alloys (MTSE 620)/ Fracture Mechanics (Developed)
50. Structure and Properties of Materials I (MTSE 602).
51. Direct Individual Studies (MECH 691)
52. Thesis supervision (MECH 690)
53. Thesis supervision (MTSE 660).
54. Thesis Research (ENVR 6111)
55. Independent study in Env. (ENVR 6220)

Other universities

56. Theory of Elasticity and Plasticity
57. Fracture Mechanics
58. Research Discussion

NOTE: Most of the graduate courses have been developed

Specialized Thesis Topics/MECH 690, MTSE 660, ENVR 6111)

59. Development and Characterization of Hydroxyapatite Ceramic Filters for the Removal of Heavy Metal Ions from Aqueous Media (MSc Program in Environmental Science)
60. Fiber-reinforced calcium sulfate bone cement composites with enhanced bioactivity, mechanical properties and controlled biodegradability (MTSE 660)

61. Fracture behaviour of cracked full scale steel pipes used for gas and oil industries (MTSE 660)
62. Study on the fracture behaviour of friction stir spot welding welds
63. The Evaluation of the Long Term Performance of Reinforced Composites Materials Based on Vinylester Resin (MTSE 660)
64. Studies on Stable Crack Growth (MTSE 660)
65. An Investigation on the Effect of Heat Treatment on the Mechanical Behavior of Low Alloy Steel (MTSE 660).
66. The Effect of Some Manufacturing Process Variables on the Characteristics of Vitreous Enameling Coatings of Directional Signs (MTSE 660)
67. Effect of Thermal Aging and UV Radiation on Performance of Locally Manufactured Waterproofing Membranes (MTSE 660)
68. Elastic Plastic Stable Crack Growth (MTSE 660)
69. Stress Corrosion Cracking of Two Types of Ductile Ni-Resist Cast Irons in Desalination Plants (MTSE 660).
70. Thermal and Mechanical Properties of Polyethylene- Polypropylene Blends in the (MTSE 660).
71. Impact of local recycling on quality of irrigation hose and ways to improvement in G.C.C (MTSE 660)
72. Stress corrosion cracking of stainless steel used in manufacturing brine circulating pumps used in desalination plants (MTSE 660)
73. The Impact of the raw material recipe on the manufacturing and behavior of un-plasticized polyvinyl chloride (PVC-U) (MTSE 660)

Other universities

74. High strain rate properties of polymers for biomedical application
75. Investigation of die drawing process effects on the behaviour of polymeric materials
76. Fatigue behavior of oblique notches

UNIVERSITY DEVELOPMENT AND COMMUNITY SERVICES

A. MEMBERSHIP OF COMMITTEES AND TASKFORCES

I have been involved in the activities of several committees at the Department, College, University, National and International levels. I have chaired some of them:

Department

1. Member of the promotion committee (Fall 2014)
2. Chair of teaching load committee (Fall 2014)
3. Chair of the mechanical engineering graduate studies committee (Fall 2012-present)
4. Member of the graduate study committee [09-present]
5. Member of minor in aerospace engineering committee [2012-present]
6. Member of ABET committee [pre -2013]
7. Member of continuous improvement quality committee [2012-present]
8. An ad-hoc committee member for evaluating and selecting new faculty [2009-2010]
9. Member of Sp. Goal 1 (Student Focused Activities) committee [2009-present]
10. Member of Sp: Goal (Research) committee [2009-2010]
11. Member of innovation and Laptop committee [2009-2010]
12. Member of advising committee [2008-2011]
13. Member of the outcomes assessment committee [2007-present]
14. Member of open house committee [2007-2009]
15. Member of applied mechanics focus group committee [2001-present]
16. Chair of students activities and ASME [2007-2009]
17. Member of ASME committee [2009-present]
18. Chair of graduating students and alumni committee [fall 06-spring 09]
19. Member of graduating students and alumni committee [pre- 09]

20. Contributed to the development of the exit exam and mid-year-study exam and the new assessment tools for design and manufacturing.
21. Member of research committee [06-09]
22. Chair of facilities sub-committee for ABET preparation [2003-2008].
23. Member of the facilities sub-committee for ABET preparation [2008-present].
24. Developed the section of the facilities in the SSR of the department
25. Equipped the ME labs with many equipment.
26. Chair of advertisement activity committee [2007-2008]
27. Chair of social events committee [2007-2008]
28. Chair of safety committee [2001-2003].
29. Chair of the "ENGEX" committee for the preparation of the Mechanical Engineering exhibition sections "ENGEX 2002 and ENGEX 2004" [2001-2004]
30. Organizing book fair in the department with Mr. Hassan Aaza, representative of McGraw-Hill Education.
31. Organizing committee member of the 2nd International Conference on Nanotechnology, November 17-20, 2008 at Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE.
32. Organizing committee member of the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
33. Chair of a session in the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
34. An ad-hoc committee chair for developing program outcomes direct measures instruments/Tools: industrial training students. [March, 2007]
35. An ad-hoc committee chair for developing program outcomes direct measures instruments/Tools: Graduation project students [March, 2007]
36. An ad-hoc committee member to verify the process of scraping the unused equipment items that are moved from ME labs and workshop.
37. An ad-hoc committee member for meeting with the consultant of the new campus/Maqam to discuss the lab requirements
38. Contributed to the review of the layouts and drawings of the Maqam labs and their suitability for the equipment..
39. Orientation of new un-specialized students [2007-2008].
40. An ad-hoc committee member for preparing and reviewing the MS-BS graduate program proposal of the Mechanical Engineering [Fall 2006].
41. Secretary of the Mechanical Engineering Department Council [2001-2002].
42. Member of development and updating the department home page committee [2000-2001].
43. Chair of computer and internet committee [2001-2003]
44. Member of computer and internet committee [2004-2005]
45. An ad-hoc committee member for preparing MSc graduate program proposal for the ME [2002-2003]
46. Member of ME department graduate program development [2001-2002].
47. Member of outcomes assessment and preparation for ABET [2001-2002]
48. Member of student affairs, activities and field trips [2001-2003]
49. An ad-hoc committee member for evaluating and selecting new faculty members and instructors [2000- 2004].
50. Chair of An ad-hoc committee for evaluating and selecting new lab engineer [2001-2002].
51. Member of continuous education and community services [2001-2002]
52. Member of educational outcomes assessment committee [2001-2002]]
53. Chair of an ad hoc committee to investigate the suitability of a list of out of service equipment in the Central Laboratory Unit for using ME department Labs (Sept., 26, 2002)
54. Member of scientific books purchasing committee, Faculty of Engineering-Matara, Helwan University, Cairo Egypt [1996-1998].
55. Member of teaching loads distribution, Faculty of Engineering-Matara, Helwan Univ. Cairo, Egypt [1996-1998].
56. Member of labs and equipment, Mechanical Design Department, Faculty of Engineering, Helwan University, Cairo Egypt [1996-1999].

College

Act as a member in the following committees

57. Editor-in-Chief of Emirates Journal for Engineering Research, EJER, College of Engineering [Spring 2012-present]
58. Editorial Committee Member of Emirates Journal for Engineering Research, EJER [2005-present]
59. Reviewer for the Emirates Journal for Engineering Research (EJER) [2005-present].
60. Member of graduate studies [2012-present]

61. Member of the college receiving and technical inspection committee [2001-2009]
62. Member of college alumni committee [2008-2009]
63. An ad-hoc committee member to verify the process of scraping the unused equipment items that are moved from ME labs and workshop.
64. An ad-hoc committee member for meeting with the consultant of the new campus/Maqam to discuss the lab requirements
65. Contributed to the review of the layouts and drawings of the ME Maqam labs and their suitability for the equipment..
66. Organizing committee member of the 2nd International Conference on Nanotechnology, November 17-20, 2008 at Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE.
67. Organizing committee member of the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
68. Chair of a session in the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
69. Member of college safety committee [2002-2008]
70. Contributing to the organizations of several safety workshops to students, staff, lab technician and faculty.
71. Member of college first year students' advisors committee [2002-]
72. Member of college of engineering safety manual preparation committee [DVCAA Decree # 1/2003]
www.engg.uaeu.ac.ae/services/SafetyManualFeb03.doc
73. Member of organizing committee of the 2nd International Conference on Nanotechnology: Future Prospective in the Region, 17-20th November, 2008 at the Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE.
74. Member of the graduation projects final/oral exam committee [2000-present].
75. Member of the industrial training students' final/oral exam committee [2000-present].
76. Reviewer (as a research committee member) of individual research proposals [2000-present].
77. Contributed to the first year student advising/CRU advising [07-08]
78. Academic advisor and evaluator of industrial training students weekly reports (2002-present)
79. Assigned by Industrial Training & Graduation Projects Unit, Faculty of Engineering to accompany and supervise 31 graduation project II female students in a scientific trip to Al-Taweelah Power Plant in Abu-Dhabi, April 29, 2008.
80. Assigned by Industrial Training & Graduation Projects Unit, Faculty of Engineering to supervise 36 graduation project II male students in a scientific trip to DUCAB Company, Jabel Ali, Dubai, Nov. 14, 2005.
81. Member of laboratories and equipment committee, Faculty of Engineering, Helwan Univ., Cairo, Egypt [1996-1998].
82. College annual scientific trip committee, Faculty of Engineering, Helwan University, Cairo, Egypt (chair, 1997)
83. Member of students' outstanding performance recognition committee, Faculty of Engineering, Helwan University, Cairo Egypt [1996-1999].
84. Chair of faculty sports committee, Faculty of Engineering, Helwan University, Cairo, [1996-1999].

University

85. Coordinator of the Mechanical Engineering Graduate Study Program (MSc, BS-MS, Phd) and UAE University.
86. Editor-in-Chief of the Emirates Journal For Engineering Research.
87. Organizing committee member of the 2nd International Conference on Nanotechnology, November 17-20, 2008 at Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE.
88. Organizing committee member of the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
89. Chair of a session in the 3rd International Conference on Nanotechnology ICN11, November 28-30, 2011, UAEU.
90. Assigned (by Director of General Education Program, UAEU) to contribute to the development of the educational materials for the General culture course "Man and Science" course, GEST 213- Arabic Edition, (2005-2006).
91. Co-author of the "Man and Science text book", Arabic issue- UAEU Press, AY 2006-2007. - GEST231)
92. Co-author of the "Man and Science text book", Arabic issue- UAEU Press, AY 2006-2007.
93. Assigned by Director of General Education Program to contribute to the development of the educational materials for the "Man and Science" course, GEST 213- English Versions, 1st semester, UAEU, April 8, 2008.
94. Organizing committee member of the 2nd International Conference on Nanotechnology: Future Prospective in the Region, 16-20th November, 2008 at the Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE.
95. Assigned by the head of ME (as a member of facilities committee) to participate in the meeting with representatives from the company responsible for the ME labs construction in the New Maqam Campus to discuss the equipment list of ME labs (1st term 2007-2008).
96. Editor-in-chief Emirates Journal for Engineering Research, UAEU [2012-present]
97. Executive committee member of Emirates Journal for Engineering Research, UAEU [2005-present]. Reviewer and assigning reviewers for the journal.

98. Assigned by the Head of Training and Graduation Project Unit to accompany and supervise the scientific trip for 31 graduation project II female students to Al-Taweelah power plant in Abu-Dhabi, April 29, 2008.
99. Assigned by Industrial Training & Graduation Projects Unit, Faculty of Engineering to accompany and supervise 36 graduation project II male students in a scientific trip to DUCAB Comp., Jabel Ali, Dubai Monday, Nov. 14, 2005).
100. Contributed to the first year student advising/CRU advising (AY 07-08)
101. Assigned by the chair of the ME research committee to reviewer for 3 research papers for the Research Award at the 8th UAEU Annual Research Conference, 2nd semester, AY 2006-2007. Thank you email received on April 08, 2007
102. Proctoring committee member for General Education Program courses.
103. Participating in the Final Exams Supervision and Observation Committees, Student Advising and Counseling Center [2000-...]
104. Contributed to the activities of the establishment of Dubi labs, 2008.
105. Member of the safety manual preparation committee [DVCAA Decree # 1/2003]
106. Assigned by the DVC for Academic Affairs (Decree No. 279/2002, 2002) to represent the to discuss a memorandum of understanding between UAEU and Monash University, Australia, for establishing Traffic Safety Research center of UAEU in collaboration with Monash University Accident Research Center, MUARC.
107. Contributed to all stages of the establishment of the Traffic Safety Research Center of the UAE University. Acknowledgement letter (11-9-2006) and wall plate (13 -3-2005) are received from Dr. Maitha Alshamsy, Provost for Research as a recognition for my efforts. The first stage started on April 7, 2001 by receiving an invitation to meet with delegation from General Motors to investigate car accident and the last stage ended with the establishment of the Traffic Safety Research Center of the UAE University in 2005.

National Level

108. Assigned (Vice chancellor office, file no. 21/395 date 13 April 2002) to represent the United Arab Emirates University in the activities of the Strategies in Traffic Safety Committees-Vehicles Safety and Integrity Committee, Ministry of Interior, Traffic Department, UAE,
109. Invited by Mr. Ahmad Abdel- Ghafar , the Director of Standardization Organization , Minstry of Finance and Industry, UAE, to meet with delegation from General Motors to investigate a car accident and to submit a report on the results of our investigation. The report has been prepared and submitted. On 26-2-2001. Mor details are available in Appendix CE.
110. Contributed to the establishing the United Arab Emirates Traffic Safety Center in collaboration with Monash University Accident Research Center MUARC [2001-2005]
111. Reviewed several Gulf standards of material testing and automobiles for Emirates Authority for Standardization and Metrology, UAE.

International Level

112. Member of the Materials & Fabrication Technical Committee, American Society of Mechanical Engineers ASME, Pressure Vessels and Piping Division (PVPD) [2008-present]. Participating in attending its meetings and contributing to all activities.
113. Member of the American Society of Mechanical Engineers (2002-present).
114. Member of the American Society of Testing and Materials committee of fracture and fatigue ASTM E08 (13-03).
115. Chair, organizing committee member, session chair and co-chair of many International Conferences
116. Editor and Editorial board member of several international journals

B- EDITOR-IN-CHIEF/EDITOR/ MEMBERSHIP OF EDITORIAL/ADVISORY BOARDS OF JOURNALS

- Editor-in-Chief of the Emirates Journal for Engineering Research EJER, UAEU, Fall 2011-present.
<http://www.engg.uaeu.ac.ae/ejer/edi.htm>
- Chief –editor, Bonfring International Journal of Software Engineering and Soft Computing,
<http://journal.bonfring.org/journalindex.php?id=7> http://journal.bonfring.org/editorial_board.php?id=7
- Editorial Board Member of American Journal of Polymer Science
<http://www.sapub.org/journal/editorialdetails.aspx?JournalID=1019&PersonID=13653>
<http://www.sapub.org/journal/editorialboard.aspx?journalid=1019> <http://www.sapub.org/Journal/index.aspx>
- Editor of SOJ Materials Science & Engineering <http://symbiosisonlinepublishing.com/materialsscience-engineering/>

- Editorial advisory board member for “Recent Patents on Materials Science” International Journal” ISSN: 1874-4648 (2006-2009)
<http://www6.cityu.edu.hk/appkchu/Recent%20Patents%20on%20Materials%20Science%20Editorial%20Board.pdf>

C- CHAIR/ADVISORY COMMITTEE MEMBER OF INTERNATIONAL CONFERENCE

- International advisory committee member for international conference on research and innovations in mechanical, material science and industrial engineering and management (ICMMIEM-2014), Cheistu Jyoti Institute of Technology & Science (C.J.I.T.S.), Andhra Pradesh, India from 1&2, March 2014, co-organized by Bonfring International Journals. <http://journal.bonfring.org/journals.php>
- International Conference Chair of “The International Conference on Mechatronic and Computational Mechanics” ICMCM 2012, December, 20-21, 2012, Dubai, UAE. <http://www.icmcm.org/2012/>
<http://www.icmcm.org/2012/committees.html>
- International Conference Chair of the “2013 the 2nd International Conference on Mechatronic and Computational Mechanics” ICMCM 2013, December, 30-31st, 2013, Frankfurt, Germany. <http://www.icmcm.org/committees.html>
<http://www.icmcm.org/index.html>
- Editor of the “Applied Mechanics and Materials” [Trans Tech Publication], the potential proceeding of the “2013 the 2nd International Conference on Mechatronics and Computational Mechanics ICMCM 2013” <http://www.icmcm.org/>
- International Conference Chair of “2012 International Conference on Automatic control and Mechatronic Engineering, ICACME 2012, 20-21st December, 2012, December Dubai UAE <http://www.icacme.org/2012/index.html>
<http://www.icacme.org/committees.html>
- International Program committee Chair of “2013 The 2nd International Conference on Automatic control and Mechatronic Engineering, ICACME 2013, June 21-22, 2013 Bangkok, Thailand, <http://www.icacme.org/index.html>
<http://www.icacme.org/com.html>

D- CONFERENCES TOPIC DEVELOPER/ORGANIZER AND SESSION CHAIR/CO-CHAIR

- Topic co-organizer of Materials and Fabrication MF-2P topic “Application of Fracture Mechanics in Failure Assessment”, Pressure Vessels and Piping (ASME PVP) conferences (2007-present)..
- Chair of the Technical Session 4.2A (MF-2-3), July 18, ASTM PVP2013, July 14-18, Paris, France, 2013
- Session developer of ASME PVP conferences.
- Session chair, of MF-2 sessions, ASME PVP 2010, conference, July 18-22, 2010, Bellevue, Washington, USA.
- Session co-chair of the MF-2-5 session, The ASME PVP 2009 Conference, Prague, July 26-30, 2009, Czech Republic.
- Session co-chair of the session (MF-2-1 session), The American Society of Mechanical Engineers (ASME PVP 2008), Pressure Vessels and Piping Conference (PVP 2008), Chicago, 27-31, 2008.
- Session chair, the 3rd International Conference on Nanotechnology: Future Prospects in the Region, November 28-30, 201, United Arab Emirates University, UAE, Al-Ain. <http://iasks.org/conferences/icn11>
- Organizing committee member of the 2nd International Conference on Nanotechnology: Future Prospects in the Region, 16-20th November, 2008, Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, United Arab Emirates University, UAE. Certificate of appreciation has been received. <http://www.engg.uaeu.ac.ae/icn08/>
- Session chair of the session "TS32, Effect of Biaxial/Mixed-Mode on Fatigue & Fracture" in the International Conference "Asian Pacific Conference on Fracture and Strength '04", (APCFS 2004), Lotte Hotel Jeju, Korea, October 6-8, 2004,.
- Session chair of the session “Fracture 4 session”, the 5th International Conference on Fracture and Strength of Solids, FEOFS2003, Tohoku University, Sendai, Japan, October 20-22, 2003.
- Materials and Fabrication MF-2 Technical Committee Member: ASME Pressure Vessels and Piping Division (PVPD), July 28, 2009-2013

E- REVIEWER OF TECHNICAL RESEARCH PAPERS FOR PUBLICATION IN INTERNATIONAL AND LOCAL REFEREED JOURNALS:

- Emirates Journal for Engineering Research (EJER), College of Engineering, UAEU (acting as editor-in-chief)
- Engineering Fracture Mechanics, Elsevier
- Polymer composites, John Wiley & Sons
- Journal of Polymer Research, Springer
- Journal of Applied Composite Materials, Springer.

- Nuclear Engineering and Design. Elsevier.
- European Journal of Engineering Education, Taylor & Francis
- eEXPRESS Polymer Letters
- ASTM Materials Performance and Characterization journal
- The Scientific e-only Polymers International Journal (<http://www.e-polymer.org>.) (2006-2008)
- University of Sharjah Journal of Pure & Applied Sciences
- International Journal of Computations in Science and Engineering Research (IJCSE).
- Recent Patents on Materials Science” International Journal” ISSN: 1874-4648 (Print) ISSN: 1874-4656, <http://www.bentham.org/mats/EBM.htm>, Bentham Science Publishers Ltd. (2006-2009).

F- REVIEWER OF TECHNICAL RESEARCH PAPERS FOR PUBLICATION IN INTERNATIONAL CONFERENCE PROCEEDINGS:

- American Society of Mechanical Engineers, Pressure Vessel and Piping Division, ASME PVP (2007-present)
- 12th International Conference on Fracture (ICF12), July 12-17, 2009, Ottawa, Canada.
- TPC track member for the Third International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO’09), The American University of Sharjah, UAE, January 20 – 22, 2009.
- The third International Conference on Modeling, Simulation, And Applied Optimization (ICMSAO’09), The American University of Sharjah, UAE, January 20 – 22, 2009.
- TPC track member for the Seventh International Conference on Composite Science & Technology (ICCST/7), The American University of Sharjah, UAE January 20– 22, 2009.
- Reviewer of technical publications for the Seventh International Conference on Composite Science & Technology (ICCST/7), American University of Sharjah, UAE January 20– 22, 2009.

G- CONSULTANCY OR ADVISORY SERVICES RELATED TO THE AREA OF EXPERTISE (SAMPLES)

Consultancy and advisory service are given to many companies:

- Dubai Cable Company Pvt. Ltd. (DUCAB), Dubai 2005-2013
- RMJM, Robert Matthew Johnson Marshall) Abu Dhabi, 2010/2011
- Service Life Assessment of Different Power Plant Parts, ITM O & M Company Limited, Abu Dhabi, Budget of 78,000.00 Dhs, April 18, 2010.
- ASME Pressure Vessels and Piping Division (PVPD) Materials & Fabrication Technical Committee Member, July 28, 2009-present
- Contributed (as a team member) to the preparation of project proposal “Evaluation of the Technical Specifications and Performance of Centrifugally Cast GRP Pipes and Fittings Manufactured by ANABEEB- HOBAS. The UAE University center for externally funded projects (eFORS) was retained by the General Holding Corporation, GHC, to perform a technical study aiming at evaluation of the technical specifications and performance of centrifugally cast GRP pipes and fittings Manufactured by ANABEEB- HOBAS which is part of the GHC Corporation (January 12, 2009).
- Materials, Design and Manufacturing Consultant (Consulted in the design, manufacturing and testing processes of a hydraulic drawing system) for “Elhoda Drawing Company”, Qalube, Cairo, Egypt, 2005-2009.
- Material and testing consultant for DUCAB Company Jabel Ali, Dubai, 2005-2009. Consulted in conducting characteristic tests (thermal analysis) for 6 different polymeric materials used in DUCAB (January 2007). Consulted in purchasing a new testing machine for DUCAB Labs (May 2009).
- Consulted in conducting different standard tests to study the effect of raw material recipe on the on behaviour of PVC-U pipes for the Pipes Manufacturing Factories (ANABEEB), Mussafah Ind. Area, Abu Dhabi, 2007.
- Consulted in conducting thermal and mechanical tests to study the effect of recycling on the quality of irrigation pipes for Al Emarate Factory, Al-Ain, 2007.
- Involved, in the study on the performance of Ductile Ni-Resist Austenitic Cast Irons used in desalination plants, Dubai Electricity & Water Authority, Jebel Ali, Dubai. 2005-2007
- Involved in the study on “evaluation of Porcelain Enamels of Directional Signs Used in the UAE”, Al-Ain Town Planning Department, Al-Ain Municipality, UAE, 2003-2004.
- Involved in a study on the effect of thermal aging and UV radiation on performance of locally manufactured waterproofing membranes, Al-Ain Municipality, UAE, 2004.
- Contributed to the preparation of the College of Engineering Safety Manual as per ABET format. The manual was posted on the College of Engineering website, <http://www.engg.uaeu.ac.ae/abet> and is being followed

- Consulted in performing the mechanical tests on different extruded aluminum profiles for the Gulf Extrusion Company Limited, Jabal Ali, Dubai, UAE (the report submitted through the Central Laboratory Unit CLU of the UAEU, February 20, 2002).
- Consulted (as a member of the committee formed by the Mechanical Engineering Department) to investigate the crash of the model year Chevrolet Caprice Car that occurred on January 16, 2001 on Al-Itihad Street, Umm Al-Quwain. The basic observations and analysis made were reported to the Ministry of Finance and Industry and Emirates Authority for Standardization and Metrology, Abu-Dhabi, United Arab Emirates, 2001. Also, invited (April 7, 2001) to attend, as representative of UAEU, the meetings of representatives from Ministry of Finance and Industry with a delegation from General Motors Company (Holden Ltd, in Australia) to discuss important issues related to the crash and the car safety
- Invited (April 7, 2001) to attend, as representative of UAEU, the meeting of representatives from Ministry of Finance and Industry with a delegation from General Motors Company (Holden Ltd, in Australia). The meeting was relevant to the crash involving model year Chevrolet Caprice car that occurred on January 16, 2001.
- I was delegated for an academic mission to visit the Accident Research Center, Monash University, Australia during the period 3-20 August 2002 (DVC for Academic Affairs Decree No. 279/2002). The main objective of the visit was to initiate a collaborative research program in vehicle safety and to discuss a memorandum of understanding between Monash University and United Arab Emirates University for establishing Accident Research Center in UAEU in collaboration with Monash University Acceding Research Center, MUARC
- Contributed strongly to the establishment of the “Roadway, Transportation and Traffic Safety Research Center of the UAE University”.
- Revised, modified and wrote technical reports on the Saudi Arabia standard specifications. The reports were sent to the Ministry of Finance and Industry, UAE. Emirates Authority for Standardization and Metrology, Abu-Dhabi, United Arab Emirates (2001 –present)
- Nominated as a UAEU representative (MED File no. 20/294/2002 date 07-04-2002, Dean’s office file no. DoE 21-270/01-02 April 07,2002, Vice chancellor’s office, file no. 21/395 date 13 April 2002) to participate in the activities of Strategies in traffic Safety Committees-Vehicles Safety and Integrity Committee, Ministry of Interior, Traffic Department, UAE. The meetings of the committee were held regularly at Emirates Authority for Standardization and Metrology, Abu-Dhabi.
- Member of the Experts Counsel of Studies and Researches Unit of Small Projects, Part of the Center of Studies and Researches of Technological Development, Helwan University, Cairo, 1999.
- Member of the Experts Council of Local Manufacturing of Spare Parts, Equipment and Production Lines Unit, Part of the Center of Studies and Researches of Technological Development, Helwan University, Cairo, 2000.
- Consulted in performing the required standard tests (Visual examination, material tests, welding quality test, leakage test, hydraulic pressure test and explosion test) on a 3 kg gas cylinder for domestic use and issuing the compliance/ approval certificate through Faculty of Engineering, Helwan University, Cairo, Egypt, July 16, 1997. The cylinders were produced by the Arabic Company for Metal cutting, 6th of October City, Cairo.
- Reviewer as a research committee member several individual research project proposals for funding from research council, UAE Universities, 2006-2009)
- Reviewer as a research committee member several research papers of UAEU annual research conference for the best research awards. (2006-2009).
- Consulted to conduct the compression tests of the Master Thesis of student Gehan Mostafa Kotp Tolba “An Experimental Study on Preparation and Evaluation of Some Porous Materials, Chemical Engineering Department, Faculty of Engineering. Minia University, Egypt, 2007.

H- SEMINARS/WORKSHOPS DELIVERED, ORGANIZED OR ATTENDED AS CONTRIBUTION TO THE UNIVERSITY DEVELOPMENT

Delivered (samples)

- 1- Seminar presentation on “Methodology of polymers blending and recycling” to faculty members and students (undergraduate and graduate) of engineering college, Ibn-Khaldoun University, Tiaret, Algeria, 13-12-2011.
- 2- Seminar presentation on “Impact of environmental and process parameters on the properties of blended and recycled polymeric materials” to faculty members and students (undergraduate and graduate) of engineering college, Ibn-Khaldoun University, Tiaret, Algeria, 13-12-2011.

- 3- Seminar presentation on “Application of nanotechnology in the area of construction materials” to faculty members and students (undergraduate and graduate) of engineering college, Ibn-Khaldoun University, Tiaret, Algeria, 14-12-2011.
- 4- Delivered a departmental seminar presentation on “Characterization of Polymer Blends”, March 10, 2010.
- 5- Delivered a seminar presentation on my published papers submitted for promotion to professor rank, Permanent Scientific Committee, Supreme Council of Universities, Manufacturing Engineering, Mechanical Design, Weaving and Marine Engineering, 2009.
- 6- Delivered a seminar presentation on my research activities as a visiting associate professor to Mechanical Engineering Department, Indian Institute of Technology, India, from July 02 to August 20, 2007.
- 7- Delivered a seminar presentation on “Development of Novel Hydroxyapatite-polymer Composites as Medical Devices for Hard Tissues Replacements” Interdisciplinary projects seminars presentations, Arranged by Research affairs, UAEU, September 2006.
- 8- Invited by the Al-Ain Municipality to contribute to the delivery a seminar presentation on ‘Effects of Natural and Artificial Weathering on the Performance of Locally Manufactured Polymer-Modified Bituminous (PMB) Waterproofing Membranes’, Held at Al-Ain Municipality, June, 21, 2005.
- 9- Involved as a member of the research team of UAEU Traffic Safety Center, in the planning and delivering of professional development activities related to research, workshops, seminars, etc., that have been conducted through the center. I have contributed to the activities of session No 5- Vehicle Safety, Traffic Safety in the UAE: Reality and Vision Symposium, organized by the UAEU Traffic Safety Center, held on March 13-15, 2005.
- 10- Delivered a seminar presentation on the new developments in teaching the materials of two undergraduate courses (Mechanics of Materials I –GENG305- and Engineering materials-MECH 390) that I have assigned to develop/contribute to their development as IT-based active learning courses (Laptop courses) as per EBAT format, Laptop seminar, College of Engineering, December 15th, 2004.
- 11- Delivered a seminar presentation on my current research activities entitled "Characterization of Stable Crack Propagation through Metals", the 2nd seminar in the Departmental Seminar Series of 03-04, Wednesday April 9, 2003.
- 12- Workshop Seminar on "Optimum design of some of the internal combustion engine parts including a comparison between diesel and petrol engine parts from the following points of view: Geometry and configuration, material, production and power", in the Automotive Engineering workshop for UAEU male students in the period March 22-25, 2003. Location: Automotive Laboratory, Mechanical Engineering Department, Faculty of Engineering, Jimi campus. The workshop was organized by Mechanical Engineering Department in collaboration with UAEU Creativity Club.
- 13- Delivered a seminar presentation on "Fracture and Fatigue Behavior of Adhesive Sandwich Materials", latest development review article for the promotion to Associate Professor rank, presented to the Universities Supreme Council, The Permanent Scientific Committee for Mechanical Design and Applied Mechanics Associate Professor's Positions, Faculty of Engineering, Cairo University, Department of Mechanical Design and Production, the meeting of October 10th 2003.
- 14- Delivered a seminar on “The vision, mission, and impact of the UAEU at the local and regional levels with emphasis on the role of the UAEU Research Affairs”. The presentation was conducted in the Monash University Accident Research Center (MUARC), August 3-20, 2002.
- 15- Contributed to the delivery of the short course “Fortran Programming Using Visual FORTRAN 6.0”, organized by the Mechanical Engineering Department. The course included 5 sessions and conducted in the college of engineering computer laboratory 3. The course was offered to two groups, the first group attended from 12 to 15 May 2001, and the second group attended from 19 to 22 May 2001.
- 16- Contributed to the delivery of the training course “Lubrication Engineering”, organized by the Tenth of October Higher Institute of Technology, held at the Environment Services Center, Cairo, Egypt 1999.

Organized (samples)

1. Workshop on “Enterpreneurship”, by Professor Graham Horton, (Dean of University of Magdeburg, Germany and co-founder of Zephram Company, Germany), Eng. Jana Gors, Zephram Company, Germany, and Dr. John Meewella, Continuing Education Center, UAEU, Wednesday, May 6, 2009. Workshop on “How to pass your job interview” Dr. Abdulhamied Alromaithy Maqam campus, Wednesday March, 25, 2009.
2. Seminar on “Year 2109 - Welcome to the age of ROBOTS - The Next Revolution”, by Mr. Jamil Ahmed, IEEE, Tuesday 24th March, 2009.
3. Seminar on “Female students in Mechanical Engineering”, delivered by Eng Merhan Mohamed Kamel, From ADCO, April 27, 2009, MAQAM Campus, building 80, Room# 047. The seminar organized by ASME Society-Student Section, UAEU.

4. Seminar on “Pressure Vessel Design”, delivered by Eng Merhan Mohamed Kamel, From ADCO, May 4, 2009, MAQAM Campus, building 80, Room# 047. The seminar organized by ASME Society-Student Section, UAEU
5. Seminar on Educational Experience of UAEU Engineering Students”, April 1st, 2009, Maqam Campus, building 80, Room# MQ80 – 047. The seminar organized by ASME Society-Student Section, UAEU.
6. Seminar titled: Magnetic Purification of CD133+ Pluripotent Stem Cells by Nano Particles for Treatment of Spinal Cord Injuries”, delivered by Dr. Adeeb Alzoubi from Philadelphia University, Jordan, held on Sunday 22/3/09 at 10 am in the Maqam Campus Building 80 room 43. The seminar organized by ASME Society-Student Section, UAEU.
7. Workshop on “How to Pass Your Job Interview” by Dr. Abdelhamied Alromaithy, March, 2009 for Female students through ASME society-student section-UAEU.
8. Workshop on Mat lab application by Dr. Khalifa H. Hareb, 22-24, 2009 for male students through ASME Society-Student Section, UAEU.
9. Collaborated with McGraw-Hill representative (Mr. Hassan Zaza) in organizing a workshop and book fair, ME Department, Jimi Campus (1st term 07-08)
10. Organized the seminar, “ Stable Crack Growth and Fracture Mode Transition”, by John Ducate, Sr. Professor Bill Chao of Mechanical Engineering Department, University of South Carolina; also, Former Chief Editor of the Journal of Experimental Mechanics. The seminar arranged by the Mechanical Engineering Department on Wednesday (1:00-2:00 pm) 12th January, 2005, Mechanical Engineering Lecture Hall .
11. Organized the seminar, “Modern Trends in the Mechanics of Laminated Plates" by Dr. Dipl.-Ing. Christian Mittelstedt, Universität Siegen, Fachbereich 11 – Maschinentechnik, IMR - Institut für Mechanik und Regelungstechnik – Mechatronik, Paul-Bonatz-Str. 9-11, D-57068 Siegen, BR Deutschland / Germany, The seminar arranged by the Mechanical Engineering Department on 5th Feb. 05.
12. Participated in organizing a seminar on “Aspects of Rolling Bearing" given by Eng. Harald Grubel and Eng. Andre Du Preez from FAG Bearing in Germany, Mechanical Engineering Department Lecture Hall. February 25, 2004.
13. Participated in organizing the Seminar given by Prof. Brian Fildes of Monash University Accident Research Center on "The Research Activities of MUARC" MSL Laboratory, Mechanical Engineering Department Building, Faculty of Engineering, United Arab Emirates University, September 8, 2002.
14. Participated in organizing a seminar on “Elements of Total Quality Control Management” by Mr. Ahmad Abdel-Ghafar, Director of Standardization and Metrology Department, Ministry of Finance and Industry, 2001
15. Organized the "Annual Scientific Conference of the Mechanical Design Department", Faculty of Engineering, Helwan University, and participated in the annual Scientific Conferences of the Faculty of Engineering and Helwan University (1996-1999).

Attended (samples)

16. The 4-hour Technical Tutorial, Bolted Joint Design, Analysis, and Code Compliance, Presented by, Sayed Nassar, Oakland University, and Warren Brown, Integrity Engineering Solutions Pty. Ltd, Organized by Pressure Vessels & piping Division, American Society of Mechanical Engineers, July 16, 2013, Paris, France.
17. Several seminars and workshops organized by the Pressure Vessels & piping Division, American Society of Mechanical Engineers (2007-2013).
18. Several seminars and workshops organized by the UAEU ASME society (as a leader of ASME for many years).
19. Several research seminar series organized by Mechanical Engineering Department, (2000- 2013).
20. Workshop on “Credit Hours System”, Competency Development and on Going Training (CDOT) Centre, Helwan University, Egypt, 22-24 June, 2008.
21. Workshop on “Time and Conference Management”, Competency Development and on Going Training (CDOT) Centre, Helwan University, Egypt, 22-24 June, 2008.
22. Workshop on “Strategic Planning”, Competency Development and on Going Training (CDOT) Centre, Helwan University, Egypt, 29 June-1 July, 2008.
23. Workshop on “Quality Standards in Teaching”, Competency Development and on Going Training (CDOT) Centre, Helwan University, Egypt, 6-8 July, 2008.
24. Workshop on “Effective Presentation Skills”, Competency Development and on Going Training (CDOT) Centre, Helwan University, Egypt, 10-12 August, 2008.
25. Workshop on “Student Evaluation”, 20-23 August 2008, Faculty and Leadership Development Project, FLDP Center, Tanta University, Egypt.
26. College of Engineering Accreditation Workshop by Prof. Jerry Yeargan and Prof. Mario Gonzalez, May 20-22, 2007.
27. Seminar of two topics "Hydrogen energy: the key to a sustainable development of EU AND GCC countries & Exergetic efficiency of a PEM electrolyser at variable operating temperatures and pressures", 3rd in the Departmental

- Seminar series of 03-04, given by Dr Ayoub Kazim, ME Department Lecture Hall, College of Engineering, March 10, 2004
28. Seminar "Application of Nanomagnetic in Biotechnology", the first in departmental seminar series of 04-05, given by Dr. Yousef Al Hayek, Chairman of ME Department, Video Conference Room, Civil Engineering Department, College of Engineering, September 25, 2004.
 29. Seminar "Fiber Reinforced Composites: a world of exciting opportunities", 2nd in the Departmental Seminar series of 04-05, given by Dr. Adel-Hammami, ME Department, Video Conference Room, Civil Engineering Department, College of Engineering, October 2nd, 2004.
 30. Series of seminars on "Production Operations, Reservoir Modeling and Reservoir Characterization". The seminars were related to Hydraulic fracturing which involves a lot stress-strain analysis of reservoir rocks, organized by Chemical and Petroleum Engineering Department. Engineers from Schlumberger delivered the series seminars, which started on Saturday March 15th, 2003 for four weeks (on Saturdays).
 31. Seminar "Engineering decision-making fuzzy –logical reasoning", 1st in the Departmental Seminar series of 03-04, given by Dr. Sharif Ullah, ME Department lecture Hall, College of Engineering, March 16, 2003.
 32. Seminar "Natural Gas Vehicles", offered by Mr. Frank Chapel, senior executive from BP-Egypt. Place: College of Engineering Seminar Hall, 1st semester AY 2001-2002.