

Education

University of Southern California (USC)

PhD – Material Science

M.S. - Mechanical Engineering

LA, CA

2000– 2005

1998-2000

Sultan Qaboos University

B.S. - Mechanical Engineering

Muscat, Oman

1991 –1996

Experience

Institute of Applied Technology, Abu Dhabi, UAE

Director of Abu Dhabi Polytechnic

Nov 2012 – Present

- Maintain professional branding of Abu Dhabi Polytechnic through ensuring high quality educational system and outcomes by leading all the academic and administrative effort to professional level and establish collaboration with many key industrial partners such as ADNOC, ENEC, ADWEA, ETIHAD, AMMROC, Mubadalah and professional certification bodies such as Siemens, Festo, WellCAP, Oracle, Microsoft, EC council, CompTia, KHNP, Kepco, and many more.
- Finalize establishing ADPOLY Center of Expertise by Securing Funding of 100 million AED for professional training equipment only to facilitate training from about 200 students and trainees at a time.
- Design and lead the efforts to uplift the academic programs to applied bachelor degree for three engineering technology programs of adpoly
- Design and lead the effort to establish two new academic programs towards applied bachelor in autonomous systems and applied bachelor in meteorology science in collaboration with prospective industries.
- Design and administer the merger of Al Ain International Aviation Academy (AAIAA) with ADPOLY to become a satellite campus.
- Prepare, negotiate, and maintain the annual budget of ADPOLY.

Associate Director of Abu Dhabi Polytechnic

Sep 2011 – Oct 2012

- Design College structure and Academic structure: Lead the effort of building up the academic structure, student services, licensure and accreditation of adpoly as a post-secondary academic institution with 2 academic programs namely Higher Diploma in Nuclear Technology and Higher Diploma in Semiconductor Technology.
- Establish and lead efforts to start new higher diploma programs in information security and petroleum engineering technology.
- Design and lead the effort to create adpoly center of expertise to commercialize the academic programs as well as retool the professional manpower with professional certification to from professional training and exam board prospective with European and American bench marked training.
- Prepare, negotiate, and maintain the annual budget of ADPOLY.
- Secure quality staffing and manpower recruitment.

Project Manager of Abu Dhabi Polytechnic

June 2010 – Sep 2011

- Design Nuclear Educational Program: Curriculum and Administration
- Establish and administer new high tech educational programs for AD Polytechnic. ADPOLY Started with nuclear technology higher diploma and Semiconductor technology higher diploma. Few more programs will be initiated later like Oil and Gas technology, Aerospace engineering technology, alternative Energy and Nano Technology to serve providing AD with highly skilled manpower to fulfill Vision 2030.
- Prepare, negotiate, and maintain the annual budget of ADPOLY.
- Secure quality staffing and manpower recruitment.
- Design, administer and directly involved in students recruitment campaigns

United Arab Emirates University Al-Ain, UAE

Assistant Professor

2005 – 2010

- Research Areas: Composite Materials, Creep Analysis, Rheology
- Successfully established and accomplished, externally funded, interdisciplinary and individual research projects.
- Taught the following courses: Computer Aided Drafting, Mechanics of Materials, Engineering Materials, Statics, Composite Materials, Failure Analysis, Design and Ethics, Machine Design.

Composite Technology Corp., USA

Sep 2005 – Jan 2010

Consultant

- Design, Analysis, Simulation and Testing of Composite Core-Aluminum Overhead Power Transmission Conductor.

USC

1999-2005

Research Assistant

- Design and building an acoustic testing chamber.
- Design and analysis of acoustic honey comb sandwich panels.
- Design, test and analyze composite core for overhead conductor ACCC.

Etisalat, UAE

1997

AC Engineer (Trainee)

- Supervised the workers in the field and designed A/C systems for new shelters (cabinets) and Etisalat's buildings (maintenance)

ADMA OPCO, Abu Dhabi, UAE

1996- 1997

Drilling Supervisor (Trainee)

- Supervised the drilling processes and the crew on the rig and performed cost analysis of the rig operations based on review of the drilling supervisor on board.

Honors and Awards

- Third Prize winner of First Arab Industrial Projects Competition (2009)- Arab world
- First prize winner of First Arab Industrial Projects Competition (2009)- UAE level
- Three Million Dirhams Grant by Khalifa Fund to start a Recycling Factory.
- MS and PhD Scholarships awarded by UAEU, 1998-2005.
- Ranked Second among 22 graduates of Bachelor Degree, ME, SQU, Muscat, Oman, 1996.
- Honor Student, 1992.

Projects

- Date Palm Tree Composites. Grant for research by UAEU 200,000 Dhs.
- Construction of High Load Creep Frame. Grant for research by UAEU 20,000 Dhs.
- Stress Induced Corrosion of Stainless Steel Elements Used in Refinery Tray Clamps.
- Stress Corrosion Cracking of Stainless Steel Used in Manufacturing Brine Circulating Pumps Used in Desalination Plants.
- Adhesion and Compatibility between Date Palm Tree Natural Fibers and Thermoplastics. Ph.D. Student Research (Boukettaya Sonia) collaboration with Dr. Hachmi, Tunisia University.
- Founding and establishing Abu Dhabi Polytechnic.
- Founding and Establishing Adpoly Center of Expertise.

Workshops

- Six Sigma Training Course, Al-Ain, UAE.
- ABET Workshop, Al-Ain, UAE.
- Marketing for Better Business, Al-Ain, UAE.
- International Public Relations Interaction, Egypt.
- Start Your Business (SYB), Dubai, UAE.
- Creativity and Critical Thinking, Egypt.
- Rheology for TA Machines, LA, USA.

- Introduction to Management, Dubai, UAE.
- Project Management, Abu Dhabi, UAE.
- Local Leadership Development training, Abu Dhabi, UAE

Graduate Students Supervision

- Afif Harhara, MS Material Science.
- Ahmad Ibrahim, MS Material Science.
- Waseem Ahmad, MS Material Science.
- Sonia Bukettaya, PhD Mechanical Engineering.

Professional and Institutional Services

- Chair, Open House Committee, Mechanical Engineering Department.
- Member, Mechanical Engineering Research Committee.
- Member, IWIL University Committee.
- Member, Tawazun Program Committee.
- Member, Engineers Registration Committee, Economy Development Department, 2009 AD, UAE.
- Member, Mechanical Engineering Curriculum Committee.
- Member, Mechanical Engineering Continuous Improvement Committee.
- Member, Mechanical Engineering Senior Design Project Committee.
- Member, Mechanical Engineering Outcome Assessment Committee.
- Member, Material Science Graduate Program Committee.
- Member, Mechanical Engineering Applied Mechanics Focus Group.
- Member, Mechanical Engineering ABET Committee.
- Member, Industrial Training Committee, College of Engineering,
- Member, Faculty recruitment committee.
- Member of the organizing committee of the International Conference on Bio-Nanotechnology: Future Prospects in the Emirates, 18-21 November, 2006, Al-Ain, UAE.
- Member of the organizing committee of the 2nd International Conference on Nanotechnology: Future Prospects in the Region, 16-21 November, 2008, Al-Ain, UAE.
- Member of the Engineering Education Symposium, April 2009, Al-Ain, UAE.
- Official Delegate and Nuclear Summer internship Supervisor to South Korea July 2010.
- Official Delegate to the human capital sub-committee of the Technology Development Committee of the Executive Council, 2011, AD, UAE
- Chairman of Skills 4 Life Steering Committee, 2012, AD UAE.
- Deputy Chairman of Human Resources Committee of IAT, 2014, AD, UAE.
- Chairman of Academic Personnel Committee of IAT, 2014, AD, UAE.
- Member of Executive Committee of IAT, 2013-2014, AD, UAE.

Skills

- Leadership and Decision making.
- Confidence and self reliance.
- Creativity and inventiveness.
- High quality presentation skills.
- Social and effective public relations.

References

- Prof. Yousef Hayek, ME Chairman - UAE University, 03-7133568, yhaik@uaeu.ac.ae
 - Dr. Abdelziz Khlaifat, Institute of Applied Technology, ADPOLY, 050-7586386, abdelaziz.khlaifat@adpoly.ac.ae
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Journal Papers

1. **Alawar A**, Bosze EJ, Nutt SR. A composite core conductor for low sag at high temperatures. IEEE Transactions on Power Delivery, vol.20, no.3, July 2005, pp. 2193-9. Publisher: IEEE, USA.
2. **Alawar A**, Bosze EJ, Nutt SR. A hybrid numerical method to calculate the sag of composite conductors. Electric Power Systems Research, vol.76, no.5, March 2006, pp. 389-94. Publisher: Elsevier, Switzerland.
3. E.J. Bosze, **A. Alawar**, O. Bertschger, Yun-I. Tsai and S.R. Nutt, High-temperature strength and storage modulus in unidirectional hybrid composites, Composites Science and Technology, Volume 66, Issue 13, October 2006, Pages 1963-1969.
4. **Ahmad Alawar**, Ahmed M. Hamed, Khalifa Al-Kaabi, "Date Palm Tree Fiber as Polymeric Matrix Reinforcement, DPF-Polypropylene Composite Characterization", Advanced Material research, Vols. 47-50, 2008, Pages 193-196
5. **Ahmad Alawar**, Ahmed M. Hamed, Khalifa Al-Kaabi, "Characterization of Treated Date Palm Tree Fiber as Composite Reinforcement", Composite B, Vol. 40 (2009), Pages 601–606
6. **Al-Awar, A.**, Aldajah, S. and Harhara, A. (2011), Stress corrosion cracking for 316 stainless steel clips in a condensate stabilizer. Materials and Corrosion Journal. doi: 10.1002/maco.200905589.
7. **Ahmad Alawar**, Waseem Siddique, "Effect of different chemical Treatment on Date palm Fibre/Polypropylene composite", JBMB, submitted.
8. Hamdan, M. O., **Alawar A.**, Elnajjar E., Siddique W., "Experimental Analysis on Vortex Tube Energy Separation Performance", Journal of Heat and Mass Transfer, (2011), DOI 10.1007/s00231-011-0824-6

Books and chapter of books

9. Ullah, A.M.M.S., Harib, K.H., **Al-Awar, Ahmed**. (2007). Minimizing Information Content of a Design using Compliance Analysis, in Reliability and Robust Design in Automotive Engineering, SAE Special Publication SP-2119, 2007, ISBN Number: 978-0-7680-1909-4, pages 319-326. <http://www.sae.org/technical/books/SP-2119>
10. Ahmad Alawar, "Mechanical Behavior of a Composite Reinforced Overhead Conductor", University of Southern California, Ph.D. Dissertation, 2005

Conference Papers

11. E. J. Bosze, **A. Alawar**, O. Bretschger, Yun-I. Tsai and S.R. Nutt, "Assessment Of Polymer Matrices For Composite Cores", SAMPE 2005 - Long Beach, CA May 1 - 5, 2005
12. Eric J. Bosze, **Ahmad Alawar** and Steven Nutt, "A Hybrid Polymer Matrix Composite For Electrical Transmission Line Supports", 36th ISTC – San Diego, CA - November 15 - 18, 2004.
13. E. J. Bosze, **A. Alawar**, Yun-I. Tsai and S.R. Nutt, Performance of a New Overhead Conductor Design using a Carbon/Glass Fiber Composite Core, SAMPE 2006 - Long Beach, CA April 30 - May 5, 2006.
14. Eric J. Bosze, **Ahmad Alawar**, Yun-I. Tsai, Steven R. Nutt, Dave Bryant, Gary Bowles, Performance of a New Overhead Conductor Design using a Carbon/Glass Fiber Composite Core, International Conference on Overhead Lines: Design, Construction, Inspection and Maintenance, Fort Collins, CO March 27-30 2006.
15. Ullah, A.M.M.S., Harib, K.H., **Al-Awar, Ahmed**. (2007). Minimizing Information Content of a Design using Compliance Analysis, SAE Technical Paper 2007-01-1209, SAE World Congress & Exhibition, April 16-19, 2007, Detroit, MI, USA. <http://www.sae.org/technical/papers/2007-01-1209>
16. **A. Alawar**, Ph.D. - E. Bosze, Ph.D. - D. Bryant, Upgrading the Electrical Transmission Grid Using High Efficiency ACCC/TW Conductor, Gridtech 2007 International Exhibition and Conference, New Delhi, India (4-5) Feb, 2007
17. **Ahmed Alawar**, Ahmed M. Hamed, Adel Hammami, Abdallah Al-Khanbashi, Khalifa Al-Kaabi, Date Palm Tree Fiber Characterization, The Eight Annual U.A.E. University Research Conference, Alain, 23-25, April, 2007, ENG – 358
18. **Ahmed Alawar**, Eric Bosze, Steven Nutt, High Temperature Strength and Creep of an Al Conductor with a Hybrid Composite Core, The Eight Annual U.A.E. University Research Conference, Alain, 23-25, April, 2007, ENG – 367
19. **Ahmad A. Alawar**, Eric J. Bosze, Steven R. Nutt, High Temperature Strength and Creep of an Al Conductor with a Hybrid Composite Core, 16TH INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS, Kyoto, Japan, 8-13 July, 2007.

20. Ullah, A.M.M.S., Fisher, Andrew., **Al-Awar, Ahmed**. (2008). Intelligent Computation of Imprecise Information for Engineering Design, SAE Technical Paper 2008-01-0706, SAE World Congress & Exhibition, April 14-16, 2008, Detroit, MI, USA.
21. **Ahmed Alawar**, Ahmed M. Hamed, Adel Hammami, Abdallah Al-Khanbashi, Khalifa Al-Kaabi, Date Palm Fiber as Polymeric Matrix Reinforcement, DPF-Polypropylene Composite Properties, The Ninth Annual U.A.E. University Research Conference, Al Ain, 21-23, April, 2008, Industry – 123
22. Waleed Khalil Ahmed, **Ahmad Alawar**, The Flexural Behavior of Adhesively Bonded and Welded Corrugated Steel Sheets - Finite Element Analysis, The Ninth Annual U.A.E. University Research Conference, Al Ain, 21-23, April, 2008, Industry – 126
23. **Ahmad Alawar**, Ahmed M. Hamed, Khalifa Al-Kaabi, Date Palm Tree Fiber as Polymeric Matrix Reinforcement, DPF-Polypropylene Composite Characterization, International Conference on Multi-Functional Materials and Structures, July, 28-31, 2008., Hong Kong, China. Paper Accepted.
24. **Ahmad Alawar**, Ahmed M. Hamed, Khalifa Al-Kaabi, Date Palm Fibers as Polymeric Matrix Reinforcement: Raw DPF/Polypropylene Composite Properties, 7th International Conference On Composite Science And Technology, Sharjah, 21-23, January, 2009
25. **Ahmad Alawar**, Ahmed M. Hamed, Khalifa Al-Kaabi, Date Palm Fibers as Polymeric Matrix Reinforcement: Raw DPF/Polypropylene Composite Properties, The Tenth Annual U.A.E. University Research Conference, 13 – 16 April, 2009.
26. Waleed Khalil Ahmed, **Ahmad Alawar**, Flexural Behavior of Adhesively Bonded Stiffened Panel in Comparison with Welded One, The Tenth Annual U.A.E. University Research Conference, 13 – 16 April, 2009.
27. O.A.Abuzaid, A.I. Aljobory, A.-H.I. Mourad, **A. Alawar**, M. Abou Zour, "Characterization of two types of stainless steels recommended for manufacturing brine recirculation pumps", The Tenth Annual U.A.E. University Research Conference, 13 – 16 April, 2009.
28. **Ahmad Alawar**, Waseem Siddique, "Effect of different chemical Treatment on Date palm Fibre/Polypropylene composite", Conference on Natural Fibers, 14-16 December, London, UK.
29. Hamdan, M. O., **Alawar A.**, Elnajjar E., Siddique W., "Feasibility of Vortex Tube Air-Conditioning System", Proceeding of the 8th ASME/JSME Thermal Engineering Joint Conference, Honolulu, Hawaii, AJTEC 13-17 March 2011.