

Jalal Alsarraf, Associate Professor of Marine Engineering Technology

Education:

1989, Diploma in Marine Engineering Technology, College of Technological Studies, PAAET, Kuwait.
1998, B.Sc., Mechanical Engineering, Georgia State, USA.
2002, M.Sc., Ocean Engineering, University of Rhode Island, USA.
2011, Ph.D., Marine Offshore, Subsea Engineering & Material Engineering, Cranfield University, UK.

Number of years of service on this faculty:

Eighteen Years
2000 – 2006 Assistant Teacher of Marine Engineering.
2006 – 2016 Present Associate Professor of Marine Engineering.
2017 – 2018 Present Associate Professor Marine Engineering

Other related experience:

1991 to 1992, Marine Assistant Engineer, Al-Ahmadi Port, Kuwait Oil Company.
1992 to 1997, B.Sc. Scholarship Georgia State, USA.
1997 to 2000, Head of Central Workshops Department & Head of Heavy Equipment Department, Ministry of Works, Kuwait.
2000 to 2002, M.Sc. Scholarship, University of Rhode Island, USA
2002 to 2006, Assistant Teacher, College of Technological Studies, PAAET, Kuwait
2006 to 2010, PhD. Scholarship, Cranfield University, UK.
2010 to 2017, Assistant Professor, Automotive and Marine Engineering Technology, College of Technological Studies, PAAET, Kuwait.
2017 to Present, Associate Professor, Automotive and Marine Engineering Technology, College of Technological Studies, PAAET, Kuwait.

Teaching interests:

Fluid Mechanics, Thermodynamics, Internal Combustion Engines, Marine Ship Systems, Marine Machinery, Steam Engineering, Ships Propulsion Systems

Courses taught at PAAET:

Engineering Thermodynamics, Fluid Mechanics, Marine Diesel Engines, Auxiliary Machinery, Ships Propulsion Systems, Ship Systems, Inspection and Maintenance, Ship Safety, Projects, Field Training 1 & 2, Marine Relations, Steam Engineering, Marine Diesel Plant Simulator, Material Technology, Refrigeration and Air-Conditioning .

Research interests:

Experimental Research including Corrosion and Corrosion control, Heat and Mass Transfer, Welding Characterization, Neural network applications,

Principal publications of last five years:

1. K. Alawadhi, A.S. Aloraier, S. Joshi, J. Alsarraf, and S. Swilem, Investigation on Preferential Corrosion of Welded Carbon Steel Under Flowing Conditions by EIS, Journal of Materials Engineering and Performance Volume 22(8) August 2013—2403.
2. Khaled Alawadhi, Abdulkareem Aloraier, Suraj Joshi, Jalal Alsarraf, Effect of Inhibitors on Weld Corrosion under Sweet Conditions Using Flow Channel, International Journal of Mechanical, Industrial Science and Engineering Vol:8 No:4, 2014, 46-49.
3. Khaled Alawadhi, Mylène Martinez, Abdulkareem Aloraier, Jalal Alsarraf, Effect of inhibitors on preferential weld corrosion under sweet conditions, Anti-Corrosion Methods and Materials Vol: 61 No: 3 (2014) 172–181.
4. Khaled Alawadhi, Richard Brown, Jalal Alsarraf, A replacement of chromate coating for adhesive bonding of stainless steel in a corrosive environment, International Journal of Engineering & Technology, Vol: 3 No: 3 (2014) 396-408.

5. Jalal M. Al-Sarraf, S.A.M. Swilem, Khaled A. Alawadhi Decision making for stable inspection planning of deteriorating structures based on constraint reliability and uncertainties, International Journal of Engineering & Technology, Vol: 3 No: 3 (2014) 409-425.
6. Jalal Alsarraf, Majed A. Alwatheeqi, Esam A.M. Husain, Khaled Alawadhi, Buckling and Pull-In Instability of Multi-Walled Carbon Nanotube Probes Near Graphite Sheets Using Power Series and Padé Approximants, International Int. Journal of Engineering Research and Applications, Vol. 4, Issue 12(Part 1), December 2014, pp 22 – 28.
7. Esam A. M. Husain, A. Husain, A. Abdel Nazeer, J. M. Al-Sarraf, K. Al-Awadhi, A. Shekeban, M. Murad, Behavior of Electrodeposited Layer on Mg (ZE41A) Alloy Under Tribo-Corrosion Condition International Journal of Electrical Science 10 (2015) 5194 – 5208.
8. Murad, Ahmad E.; Alnaqi, Abdulwahab A.; Mullali, Hassan A.; Alsarraf, Jalal; Alawadhi, Khaled; AlRashed, Abdullah A. A. A.; Morad, Mukhtar M. A., Thermal performance of disc brakes using genuine and non-genuine brake pads in Kuwait, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 11, Number 8 (2016) pp 5806-5810.
9. Khaled Alawadhi, Abdulwahab A. Alnaqi, Jalal Alsarraf, Hasan A. Mulla ali, Ahmad E. Murad Numerical Investigation of Turbulent Flow over a Rotating Circular Cylinder under Marine Conditions, International Journal of Engineering Research and Application ISSN : 2248-9622, Vol. 7, Issue 2, (Part 5) February 2017, pp.29-37.
10. Khaled Alawadhi, Abdulwahab A. Alnaqi, Jalal Alsarraf, and Esam AM. Husain, Numerical Investigation of a Marine Pump to Estimate the Erosion Rate Density with Changing Parameters. International Journal of Applied Engineering and Technology, 2017 Vol. 7 (2) April- June 2017 pp12– 27.
11. Jalal Alsarraf, Khaled Alawadhi , Abdulwahab Alnaqi, S.A.M. Swilem, A new approach using hybrid Power series – Cuckoo Search op-timization algorithm to solve electrostatic pull-in instability and deflection of nano cantilever switches subject to van der Waals Attractions, International Journal of Engineering & Technology, 6 (2) (2017) 29-35.
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Scientific and professional societies of which a member:

1. American Society of Mechanical Engineers, Member 1997
2. Kuwait Society of Engineers, Member 1998
3. National Association of Corrosion Engineers, Member 2010

Honors and awards:

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Institutional service in last five years:

1. 2017 Member of the Programs and Curriculum Development Committee
2. 2017 Member of the Research Committee
3. 2017 Member of the Evaluation Committee
4. 2016 Member of the Research Committee
5. 2016 Chairman of the Programs and Curriculum Development Committee
6. 2015 Member of the Student Advisement Committee
7. 2015 Member of the Academic Accreditation Committee
8. 2015 Member of the Scholarship Committee
9. 2014 Member of the of Budget Committee
10. 2014 Chairman of the Evaluation Committee
11. 2014 Member of the Scholarship Committee

12. 2013 Member of the Research Committee
13. 2013 Member of the Promotion Committee
14. 2013 Chairman of the Budget Committee
15. 2013 Member of the Appointment Committee
16. 2012 Member of the Research Committee
17. 2012 Chairman of the Budget Committee
18. 2012 Member of the Promotion Committee
19. 2012 – Now Member in a number of short-term committees to achieve specific purposes

Professional service in last five years:

1. Member, Organizing Al-Takatof Al-Kuwaiti exhibition for companies and national industries 2015
2. Member of the Projects Jury Committee, Kuwait Science and Engineering Competition, 2016 - 2018
3. Member of the Inventions Jury Committee, International Invention Fair in Middle East, 2015 - 2018

Professional development activities in last five years:

1. Attended a number of Workshops and condensed courses conducted by the Center of Evaluation and Development, PAAET, 2012-2017.
2. Attending many seminars organized by PAAET.
3. Attended a number of Workshops and condensed courses conducted by the Center of Evaluation and Development, PAAET, 2011-2016.