



College of Engineering



**Abdullah Al Shabibi**  
MIED, College of Engineering

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### **Education:**

- **PhD in Mechanical Engineering.**  
University of Michigan, Ann Arbor, USA,  
1997 – 2001.
- **MSc in Mechanical Engineering.**  
University of Michigan, Ann Arbor, USA,  
1994 – 1996.
- **BEng in Mechanical Engineering.**  
Sultan Qaboos University, 1988-1993.

### **Selected Honors & Awards:**

- **DAAD Scholarship , Dec. 2004 – Feb. 2005.**
- **Fulbright Scholarship, June – August 2007.**
- **PhD Scholarship, 1997-2001.**
- **MSc Scholarship, 1994-1996.**

## **PROFILE**

Dr. Abdullah Al Shabibi is an Associate Professor in the Department of Mechanical and Industrial Engineering at Sultan Qaboos University. He is currently serving as the Assistant Head of Mechanical and Industrial Engineering Department. He has PhD in Mechanical Engineering from University of Michigan, Ann Arbor. His research interests include Thermo-elastic Instability of Contact Problems, Finite Element Modeling and Analysis, Design and Analysis of Composite Materials Applications in Gas and Oil Industry.

## **WORK EXPERIENCE**

- **2024 - Present**  
Assistant Head of Department, Department of Mechanical Engineering and Industrial Engineering (SQU).
- **2020 - 2021**  
Head of Department, Department of Mechanical Engineering and Industrial Engineering (SQU).
- **2015 - Present**  
Associate Professor, Department of Mechanical Engineering and Industrial Engineering (SQU).
- **2002 - 2015**  
Assistant Professor, Department of Mechanical Engineering and Industrial Engineering (SQU).
- **2001 - 2002**  
Lecturer, Department of Mechanical and Industrial Engineering (SQU).
- **1996 - 1997**  
Assistant Lecturer, Department of Mechanical and Industrial Engineering (SQU).
- **1993 - 1994**  
Demonstrator, Department of Mechanical Engineering (SQU).

## **RESEARCH INTERESTS**

- **Thermo-Elastic Instability of Contact Problems**
- **Finite Element Modeling and Analysis**
- **Composite Materials Applications in Gas and Oil Industry**
- **Pressure Vessels Integrity and Failure**

## Professional Credentials, Certifications, or Licensing

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- None

## Membership in Professional Organization

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- The American Society of Mechanical Engineers (ASME), 2021 - Present

## Professional Development Activities

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- Attended a workshop on “AI in Research”, SQU, Oman, May 2025.
- Attended a workshop on “Active Learning”, SQU, Oman, April 2025.
- Attended a workshop on “AI in Teaching”, SQU, Oman, April 2025.
- Attended a workshop on “Critical Thinking Skills for the 21st Century”, SQU, Oman, May 2017.
- Attended a workshop on “Introduction to CDIO Initiative”, SQU, Oman, 18 May 2017.
- Visit to The University of Nottingham, Nottingham, UK, October 2015.
- Visit to Institute of Laser and System Technologies, Hamburg University of Technology, Hamburg, Germany, 2014.
- Attended a workshop on 'What's Good About Technology in Teaching', September, 2013, Oman.
- Attended a workshop on 'Advanced E-Learning', October, 2012, Oman.
- Participated in a workshop on “Renewable Energy and its Applications”, SQU, Oman, November, 2006.
- Visit to RWTH Aachen University, Germany, December, 2004.
- Participated in the 11th IUTAM Summer School on Friction and Instabilities, Udine, Italy, 2000.

## Selected Journal Publications

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1. H. Al Naamani, F. Al Jahwari, T. Pervez, **A. Al Shabibi**, S. Joshi, “Numerical prediction with finite element analysis (FEA) of burst pressure in pipelines with interacting internal & external corrosion defects”. Engineering Research Express, 024, 6(4), 045585, 2024.
2. **Al Shabibi**, I. Aal Thani, I. F. Al Jahwari, K. Goher, “Failure analysis using finite element method of defective pipelines reinforced with composite repair system”. Petroleum Science and Technology, 2024.
3. M. Al-Maharbi, **A. Al-Shabibi**, S.Z. Qamar, “Manufacturing of low alloy steel sucker rods by continuous process - heat treatment and characterization”, Materials and Manufacturing Processes, 33(16), pp. 1889-1893, 2018.
4. Sultan Al-Owaisi, Adib Becker, Wei Sun, **Abdullah Al-Shabibi**, Majid Al-Moharbi, Tasneem Pervez, Hussain Al-Salmi, “An experimental investigation of the effect of defect shape and orientation on the burst pressure of pressurized pipes”, Journal of Pressure Vessels and Piping, 93, pp. 200-213, 2018.
5. O.I. Abdullah, J. Schlattmann, A. Senatore, **A.M. Al-Shabibi**, “ Investigation of Thermoelastic Problem of Multiple-Disc Friction Clutches Applying Different Thermal Loads, Heat and Mass Transfer, 54(11), pp. 3461–3471, 2018.
6. K. Alam, **Abdullah Al-Shabibi**, Riaz Muhammad, “Experimental Study on the Effect of Point Angle on Force and Temperature in Ultrasonically Assisted Bone Drilling,” Journal of Medical and Biological Engineering, 38(2), pp. 236-243, 2018.
7. K. Alam, S.H. Imran, **A. Al-Shabibi**, M. Ghodsi, V. Silberschmidt, “Experimental Study on the Effect of Drill Quality on Bone Temperature in Drilling”, Biomedical Engineering-Applications, Basis and Communications, 30(2),1850018, 2018.

8. K. M. Goher, Kong Chenhui, **A. Al Shabibi** and N. Z. Al Rawahi, "Transient Dynamic Impact Suppression of a Baja Chassis Using Frontal and Rear Shock Absorbers ", International Journal of Crashworthiness, 22(6), pp. 676-688, 2017.
9. J. Abdo, E. Hassan, **A. Al-Shabibi**, J. Kwak , "Design of a Testing Facility for Investigating of Fatigue Failure of Drill Pipes", The Journal of Engineering Research, 14(2), pp. 105-114, 2017.

## Selected Conference Participations

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1. **A.M. Al Shabibi**, A.M.A. Al Ismaili, M.A. Al Ghatrifi, H.I. Al Kindi, H.S. Al Mashrafi, "Testing fracture toughness of composite repair bonding". American Society of Mechanical Engineers, Pressure Vessels and Piping PVP, 2024.
2. **Abdullah M. Al Shabibi**, "Testing fracture toughness of pipe composite repair", 20th International Conference on Experimental Mechanics, Porto (Portugal), 2-7 July 2023.
3. K. Alam, S.Z. Qamar, **A. Al-Shabibi**, "An outcome-based approach for applied mechanics courses using bloom's taxonomy and ABET criteria". IEEE Global Engineering Education Conference, EDUCON, pp. 996–1002, 9453932, 2021.
4. **Abdullah M. Al Shabibi**, Majid Al Moharbi, "Effectiveness testing of defected pipes composite repair". 7th International Conference on Integrity - Reliability – Failure, Funchal (Portugal), 14-18 June 2020.
5. **Abdullah M. Al-Shabibi**, " Finite element implementation of the eigenfunction series solution for a transient heat conduction problem in thermo-mechanical systems". 14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Wicklow (Ireland), 22-24 July 2019.
6. **Abdullah M. Al Shabibi**, Majid Al Moharbi, Sultan Al Owaisi, "Determination of Burst Pressure for Defected Pipes", 6th International Conference on Integrity - Reliability – Failure, Lisbon (Portugal), 22-26 July 2018.
7. J. Abdo, E. Hassan, **A. Al-Shabibi**, "Fabrication of experimental setup for investigation of drill string fatigue failure", Proceedings of the ASME Design Engineering Technical Conference, Cleveland, USA, 2017.

## Selected Service Activities

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- Speaker at Oman Materials, Corrosion and Integrity Summit 2024.
- Member of National Team for Regulating Smart Cars, 2024.
- Member of University Academic Council, 2024.
- Evaluating Mechanical Engineering Program of a National Institute for the Ministry of Higher Education, Research and Innovation.
- Reviewing gas cylinders testing standards for the Directorate General for Standards and Metrology, Ministry of Commerce and Industry.
- Reviewing gas cylinders' safety valves and pressure regulator standards, Directorate General for Standards and Metrology, Ministry of Commerce and Industry.
- Member in the organizing committee of Industrial Research Exhibition: Towards Industrial Innovative Solutions, April 2014.
- Member in the organizing committee for International Conference on Applied Mechanics, Materials and Manufacturing, Organized by Department of Mechanical and Industrials Engineering, Muscat, Oman, December 13-15, 2010.
- Evaluating Mechanical Engineering Program of a National Institute for the Ministry of Higher Education.
- Reviewing gas cylinders testing standards for the Directorate General for Standards and Metrology, Ministry of Commerce and Industry.
- Reviewing gas cylinders' safety valves and pressure regulator standards, Directorate General for Standards and Metrology, Ministry of Commerce and Industry.