

ABDULLAH MOHAMMED AL-SHABIBI

PERSONAL INFORMATION

DATE OF BIRTH: July 6, 1971
AREA OF SPECIALIZATION: Mechanical Engineering
CONTACT INFORMATION: Mechanical and Industrial Engineering Department
College of Engineering
Sultan Qaboos University
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EDUCATION AND EMPLOYMENT INFORMATION

EDUCATION

YEAR	FIELD OF STUDY	DEGREE	INSTITUTE
2001	Mechanical Engineering	Ph. D.	University of Michigan, Ann Arbor, USA
1996	Mechanical Engineering	M. Sc.	University of Michigan, Ann Arbor, USA
1993	Mechanical Engineering	B.S.	Sultan Qaboos University, Oman

WORK EXPERIENCE

YEAR	POSITION	PLACE
1993-1994	Demonstrator	Sultan Qaboos University, Oman
1996-1997	Asst. Lecturer	Sultan Qaboos University, Oman
2001-2002	Lecturer	Sultan Qaboos University, Oman
2002-Present	Asst. Professor	Sultan Qaboos University, Oman

HONORS, AWARDS & SCHOLARSHIPS

1. Fulbright Scholarship from the US government for research stay at University of Michigan, June – August 2007.
2. DAAD Scholarship from the government of Germany for research stay at Aachen University, Dec. 2004 – Feb. 2005.
3. Scholarship to pursue Ph. D. in Mechanical Engineering at University of Michigan, Ann Arbor, USA, 1997-2001.
4. Scholarship to pursue Master Degree in Mechanical Engineering at University of Michigan, Ann Arbor, USA, 1994-1996.

5. Award for outstanding academic achievement handed by his Majesty the Sultan during the graduation ceremony, 1991
6. Award for outstanding academic achievement, Sultan Qaboos University, 1991.
7. Award for outstanding academic achievement handed by his Majesty the Sultan during the graduation ceremony, 1990
8. Award for outstanding academic achievement, Sultan Qaboos University, 1990.
9. Award for outstanding academic achievement handed by his Majesty the Sultan during the graduation ceremony, 1989
10. Award for outstanding academic achievement, Sultan Qaboos University, 1989.

TEACHING

UNDERGRADUATE COURSES

Year and Semester	Course Code & Title	Number of Students	Contact Hours/Week
SP 2014	MEIE3102/10 (Solid Mechanics)	35	4
	MEIE3102/20 (Solid Mechanics)	26	4
FL 2013	MEIE2102/10 (Statics)	9	4
	MEIE2102/20 (Statics)	25	4
SP 2013	MEIE3102/10 (Solid Mechanics)	32	4
	MEIE3102/20 (Solid Mechanics)	30	4
	MEIE3102/30 (Solid Mechanics)	20	4
FL 2012	MEIE2102/10 (Statics)	35	4
	MEIE2102/20 (Statics)	14	4
SP 2012	MEIE3102/10 (Solid Mechanics)	45	4
	MEIE3102/20 (Solid Mechanics)	43	4
FL 2011	MEIE2102/10 (Statics)	31	4
	MEIE2102/20 (Statics)	16	4
SP 2010	MEIE3102/10 (Solid Mechanics)	41	4
	MEIE3102/20 (Solid Mechanics)	37	4
FL 2009	MEIE2102/10 (Statics)	41	4
	MEIE2102/20 (Statics)	38	4
SP 2009	MEIE3102/10 (Solid Mechanics)	38	4
	MEIE3102/20 (Solid Mechanics)	34	4
FL 2008	MEIE2102 (Statics)	34	4
	MEIE3102 (Solid Mechanics)	41	4
SU 2008	MEIE2102 (Statics)	33	8
SP 2008	MCTE3230 (Properties and Strength of Materials)	33	4
	MEIE3102 (Solid Mechanics)	39	4
FL 2007	MEIE2129 (Basic Mechanics)	39	4
	MEIE3102 (Solid Mechanics)	38	4
	MEIE5110 (Applied Finite Element Method)	35	2
SP 2007	MEIE3104 (Engineering Drawing &	38	5

	Computer Graphics)		
	MCTE3230 (Properties and Strength of Materials)	21	4
FL 2006	MEIE2102 (Statics)	40	4
	MEIE3102 (Solid Mechanics)	30	4
SP 2006	MCTE3230 (Properties and Strength of Materials)	37	4
	MEIE3102 (Solid Mechanics)	46	4
FL 2005	MEIE2102 (Statics)	37	4
	MEIE3102 (Solid Mechanics)	27	4
SU 2005	MEIE2102 (Statics)	-	8
SP 2005	MEIE3102/10 (Solid Mechanics)	32	4
	MEIE3102/20 (Solid Mechanics)	32	4
FL 2004	MEIE2102/10 (Statics)	27	4
	MEIE2102/20 (Statics)	25	4
	MECH5198 (Seminar I)	40	1
SP 2004	MEIE3101 (Solid Mechanics)	35	4
	MEIE4182 (Applied Mathematics for Engineers)	30	4
FL 2003	MEIE3202/10 (Dynamics)	12	4
	MEIE3202/20 (Dynamics)	24	4
	MEIE3105 (Lab I)	7	2
SU 2003	MEIE3201 (Statics)	49	8
SP 2003	MEIE3102/10 (Solid Mechanics)	34	4
	MEIE (Seminar 1)	31	1
	MEIE3102/20 (Solid Mechanics)	14	4
FL 2002	MEIE3201 (Statics)	36	4
	MEIE3146 (Engineering Drawing & Computer Graphics)	62	5
SU 2002	MEIE3201 (Statics)	31	8

GRADUATE COURSES

Year and Semester	Course Code & Title	Number of Students	Contact Hours/Week
SP 2012	MEIE6212 (Directed Studies)	1	3
SP 2006	MEIE6212 (Directed Studies)	1	3

SUPERVISED FINAL YEAR PROJECTS (MAIN SUPERVISOR)

Year	Project Title	Number of Students
2014	Design of eco car for shell eco marathon: Phase III	4
2013	Design of a single slope solar still	4
2013	Design of eco car for shell eco marathon: Phase II	3
2012	Design of stair left chair	3
2012	Design of eco car for shell eco marathon: Phase I	4
2009	Design of a brick making machine	3
2009	Pipeline testing equipment	3
2008	Design improvement of date palm climbing machine	3
2008	Design of a left machine for a hypermarket store	3
2007	Recycling of a car wash waste water	3
2005	Design of tool's dragging device for horizontal well inspection	2
2005	Smart wells: design of well tractor	3
2004	Design and control of a parabolic solar collector system	4
2004	Date palm climbing machine	2

SUPERVISED MASTER THESIS

- Supervisor, Effect of mandrel geometry and surface properties on solid tubular expansion, Teeba Salim Al Akhzami, completed, September 2014

SUPERVISED PHD THESIS

- Co-supervisor, Thermo-mechanical Analysis of Dry Clutches, Oday A. Ibrahim, Hamburg University of Technology, Germany, in progress.
- Co-supervisor, Performance Analysis of Swelling Elastomer Seals in Petroleum Applications, Maaz Akhtar, Sultan Qaboos University, Oman, completed, September 2014.

SERVING AND CHAIRING GRADUATE COMMITTEE:

- Thesis Examining Committee Chair, Master Thesis, "Transient groundwater flow modeling of Al Batinah coastal region (Barka)", Prerana Chitrakar, September 2014.
- Thesis Examining Committee Member, Master Thesis, "Experimental evaluation for the effect of frequency and amplitude of vibration on drill string buckling in horizontal wells", Idris Said Al Anquoudi, 2014.
- External Examiner and Thesis Examining Committee Member, Master Thesis, "Finite Element Analysis of Mechanical Behavior of Cellular Structure", Isra Sadiq Al Muscati, 2013
- External Examiner and Thesis Examining Committee Member, Master Thesis, "Modeling, simulation, and testing of swelling elastomer seals", Moosa Salim Al Kharusi, 2012

- Thesis Examining Committee Member, Master Thesis, “Developing of an elastic/plastic envelope of pipes running through curved wellbore sections”, Mohammed Khalfan Al Khozaimi, 2004

CURRICULUM DEVELOPMENT AND TEACHING MANAGEMENT

- Modified curriculum for:
 - MEIE2102 – Statics
 - MEIE3102 – Solid Mechanics
 - MEIE 4182 – Applied Mathematics for Engineers
- Incorporated guidelines for MEIE5193 (Final Year Project I) and MEIE 5194 (Final Year Project II)
- Developed laboratory experiments for MEIE 3102 (Solid Mechanics)

ACADEMIC ADVISING

- Cohort 2011 (40) students
- Cohort 2005 (15) students
- Cohort 2001 (29) students

SERVICES

INSTITUTIONAL SERVICES

2014-Present	Member, College Alumni and Community Service Committee
2013-Present	Coordinator, Master Program
2012-Present	Coordinator, Applied Mechanics Focus Group
2012-Present	Member, Department Recruitment Committee
2012-2013	Member, College Staff/Student Liaison Committee
2011-Present	Member, Department Curriculum and Accreditation Committee
2011-Present	Chair, Department Industrial Training and Alumni Committee
2010-2014	Member, Department Postgraduate and Research Committee.
2009-2010	Secretary and Member, Industrial Advisory Board
2007-2013	Member, College Training and Alumni Committee
2005-2009	Coordinator, Master Program
2004	Member College Board
2003-2006	Member, Department Curriculum and Accreditation Committee
2003-2004	Advisor, ASME (American Society of Mechanical Engineers)-SQU Chapter
2002-2003	Member, Department Web and Publication Committee
2001-2005	Coordinator, Final Year Projects

PROFESSIONAL SERVICE

- Reviewed Journal Articles for the following Journals

- International Journal of Thermal Sciences
 - The Journal of Engineering Research
 - Simulation: Transactions of The Society for Modeling and Simulation International
- Reviewed Papers for the following conferences
 - International Conference on computational and experimental engineering and sciences
 - ASME Summer Heat Transfer Conference
 - International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics
- 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.

COMMUNITY SERVICES

- 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.

SCHOLARLY ACHIEVEMENTS

JOURNAL PAPERS

1. Oday. I. Abdullah, Wassan Abd Al-Sahb, **Abdullah M. Al-Shabibi**, "Thermoelastic analysis of multi-disk clutches using finite element method", *Tribologia*, 5, pp. 9-24, 2014
2. J. Abdo, **A. Al-Shabibi**, H. Al-Sharji, "Effects of tribological properties of water-based drilling fluids on buckling and lock-up length of coiled tubing in drilling operations", *Tribology International*, in press. (DOI: 10.1016/j.triboint.2014.01.028)
3. **Abdullah M. Al-Shabibi**, "Transient behavior of initial perturbation in multi-disk clutch system", *Tribology Transactions*, in press. (DOI: 10.1080/10402004.2014.945198)
4. J. Abdo, R. Zaier, E. Hassan, H. Al-Sharji, **A. Al-Shabibi**, "ZnO-clay nanocomposites for enhance drilling at HTHP conditions", *Surface and Interface Analysis*, Vol. 46, pp. 970-974, 2014.

5. O.I. Abdullah, J. Schlattmann, **A.M. Al-Shabibi** , “Thermo-mechanical Analysis of the Dry Clutches under Different Boundary Conditions”, *Tribology in Industry*, Vol. 36, No. 2, pp. 172-180, 2014.
6. O.I. Abdullah, J. Schlattmann, **A.M. Al-Shabibi** , “Stresses and Deformations Analysis of a Dry Friction Clutch System”, *Tribology in Industry*, Vol. 35, No. 2, pp. 155-162, 2013.
7. **A Al-Shabibi** and JR Barber, “Finite element implementation of the eigenfunction series solution for transient heat conduction problems with low Biot number”, *J. Mechanical Engineering Science*, 226(6), pp. 1579-1588, 2012.
8. A. C. Seibi, A. Karrech, T. Pervez, S. Al-Hiddabi, A. Al-Yahmadi, **A. Al-Shabibi**, “Dynamic effects of mandrel/tubular interaction on downhole solid tubular expansion on well engineering”, *Journal of Energy Resources Technology*, 131, 2009.
9. **Abdullah M. Al-Shabib**, J. R. Barber, “Transient solution of the unperturbed thermoelastic contact problem,” *Journal of thermal stresses*, 32, pp. 226-243, 2009.
10. **Abdullah M. Al-Shabibi**, J. R. Barber, "Transient solution of a thermoelastic instability problem using a reduced order model", *Int. Journal of Mechanical sciences*, 44, pp. 451-464, 2002.
11. C. Seibi, A. Gastli, **A. Al-Shabibi**, and H. Abdullah, “Running Forces in High Curvature Well Bores using Finite Element Analysis and Artificial Neural Networks,” *Journal of Petroleum Science & Technology*, Vol. 19 (5&6), pp. 521-534, 2001.
12. C. Seibi and **A. Al Shabibi**, “Pipe Bending and Running Forces in Medium to High Curvature Wells Using Finite Element Analysis”, *Journal of Energy Resources Technology, Transactions of the ASME*, Vol. 120, No. 4, pp. 263-267, 1998.
13. **Al-Shabibi**, M. Al-Hamadi, and J. Mathew, "Study of an airfoil with a flap and spoiler, *Journal of Aircraft*, Vol. 31, No. 6, pp. 1324-1327, 1994.

BOOK CHAPTERS

1. **Abdullah M. Al-Shabibi**, “The Thermo-Mechanical Behavior in Automotive Brake and Clutch Systems”, *New Trends and Developments in Automotive System Engineering*, Edited by Marcello Chiaberge, Publisher: InTech, ISBN: 978-953-307-517-4, 2011.
2. Jamil Abdo, Danish Haneef and **Abdullah Al-Shabibi**, “Finite Element Modeling of Elastic-Plastic Contact of Rough Surfaces”, *Finite Element Analysis*, Edited by David Moratal, Publisher: Sciyo, ISBN: 978-953-307-123-7, 2010.

CONFERENCE PROCEEDINGS ARTICLES

1. **Abdullah M. Al Shabibi**, “Analytical and Numerical Solution for Tubular Expansion Using Non-Flat Conical Mandrel”, International Conference on computational and experimental engineering and sciences, Changwon, Korea, 12-17 June 2014.

2. **Abdullah M. Al Shabibi** and M. Tahat, "Thermal Performance of a Single Slope Solar Water Still with Enhanced Solar Heating System", International Conference on Desalination, Environment and Marine Outfall Systems, Muscat, Oman, 13-16 April 2014.
3. **Abdullah M. Al Shabibi** and M. Tahat, "Designing a Single Slope Solar Water Still and Testing it in Omani Climate", International Conference on Renewable Energies and Power Quality, Cordoba, Spain, 8-10 April 2014.
4. K. Alzebdeh, **A. Al-Shabibi** and T. Pervez, "Micromechanical Modeling of Two-Dimensional Periodic Cellular Materials", ASME 2013 International Mechanical Engineering Congress & Exposition ASME2013, San Diego, California, USA, November 15-21, 2013.
5. Jamil Abdo, Danish Haneef, **Abdullah Al-Shabibi**, "High temperature and high pressure nanoclay modified drilling fluids", 4th International Conference on Integrity, Reliability & Failure, Funchal, Portugal, 23-27 June, 2013.
6. Danish Haneef, Jamil Abdo, **Abdullah Al-Shabibi**, "Effect of lubricity of drilling fluids on buckling of coiled tubing in drilling operations", 4th International Conference on Integrity, Reliability & Failure, Funchal, Portugal 23-27 June, 2013.
7. **Abdullah M. Al Shabibi**, Jamil Abdo, "Analytical and numerical solution for expandable tubular", 4th International Conference on Integrity, Reliability & Failure, Funchal, Portugal, 23-27 June, 2013.
8. O.I. Abdullah, J. Schlattmann, **A.M. Al-Shabibi**, "Transient thermoelastic analysis of multi-disc clutches" 9th Arnold Tross Colloquium, Hamburg, Germany, June 14, 2013.
9. **Abdullah M. Al Shabibi**, "Finite Element Solution of a Small Perturbation in Thermo-Elastic Instability Systems", International Conference on computational and experimental engineering and sciences, Seattle, USA, 24-28 May 2013.
10. Oday I. Abdullah¹, Josef Schlattmann, **Abdullah M. Al-Shabibi**, "Stresses and deformations analysis of a dry friction clutch system", 13th International Conference on Tribology, Kragujevac, Serbia, 15 – 17 May 2013.
11. **Abdullah M. Al Shabibi**, "Solution for transient heat conduction problem with low Biot number", 8th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Malta, 16-19 July 2012.
12. M. Tahat, **Abdullah M. Al-Shabibi**, and Ali Al-Alawi, "Solar cooker", 7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19-21 July 2010, Antalya, Turkey.
13. **Abdullah M. Al-Shabibi**, "Solution of a non-linear heat conduction problem in automotive clutch and brake systems", ASME 2009 Summer Heat Transfer Conference, San Francisco, California, USA, 19-23 July 2009.
14. **Abdullah M. Al-Shabibi**, "Solution of heat conduction problem in automotive brake and clutch systems", ASME 2008 Summer Heat Transfer Conference, Jacksonville, Florida, USA, 10-14 August 2008.
15. Maki K. Rashid, **Abdullah M. Al-Shabibi**, "A simulation Medium for a Single Wheel Mobile Robot using Neurofuzzy", 12th IASTED International Conference on Robotics and Applications, Honolulu, Hawaii, USA, 14-16 August, 2006.

16. Maki K. Rashid, **Abdullah M. Al-Shabibi**, "Automating Error Attenuation of Cutting Tools Using Smart Material", ASME 31st Design Automation Conference, Long Beach, USA, 24-28 September 2005.
17. Jamil A. Abdo, **Abdullah M. Shabibi**, "2^k factorial design for control of vibration in disc brake systems", 34th conference on Computers and Industrial Engineering, San Francisco, USA, 16-19 November 2004.
18. **Abdullah M. Al-Shabibi**, "Transient solution of a non-linear thermoelastic instability problem", International Conference on computational and experimental engineering and sciences, Madeira, Portugal, 26-29 July 2004.
19. **Abdullah M. Al-Shabibi**, "Transient solution of a non-homogenous thermoelastic problem", International Conference on computational and experimental engineering and sciences, Corfu, Greece, 24-29 July 2003.
20. **Abdullah M. Al-Shabibi**, and James R. Barber, "Transient solution of 2-D TEI problem using reduced order models", SAE International Conference, Detroit, USA, 5-8 March 2001.

TECHNICAL REPORTS

1. Effect of Mandrel Geomtry on the Solution of Tubular Expansion, Submitted to Deanship of Research, Sultan Qaboos University, Oman, 2014
2. Dynamic effects on solid tubular expansion, submitted to Petroleum Development Oman, 2003
3. Finite Element Simulation of Single and Double Sided Clutch System, Submitted to Raybestos Products Company, Indiana, USA, 2000
4. Pipe Bending and Running Forces in Medium to High Curvature Wells, submitted to Petroleum Development Oman, 1997

Research Contracts

Title	Role	Funded By	Amount (USD)*	Year
Defects interaction assessment	Principal Investigator	PDO	217,100	2014
Shell Eco Marathon	Principal Investigator	Shell Oman + LNG + SQU	58,500	2013
Effect of Mandrel Geometry on the Solution of Tubular Expansion	Principal Investigator	SQU	4,680	2005
Design and construction of a dish type sun-tracking solar collector	Co-investigator	SQU	11,700	2003
Dynamic effects on solid tubular expansion	Co-principal Investigator	PDO	10,400	2003
Finite Element Simulation of Single and Double Sided Clutch System	Principal Investigator	Raybestos Products Co., Indiana, USA	5,200	2000

Finite element modeling of clutch desk shear test	Principal Investigator	Raybestos Products Co., Indiana, USA	2,080	1999
Pipe bending and running forces in medium to high curvature wells	Co-principal Investigator	PDO	26,000	1996-1997

Research Grants

Title	Role	Funded By	Amount (USD)*	Year
Fulbright	Principal Investigator	US Government	10,400	2007
DAAD	Principal Investigator	German Government	5,200	2004

* some of the amounts listed above are approximate.

PROFESSIONAL DEVELOPMENT ACTIVITIES

- Visit to Institute of Laser and System Technologies, Hamburg University of Technology, Hamburg, Germany, 2014.
- Attended a one day workshop on 'What's Good About Technology in Teaching?', September, 2013.
- Attended a one day workshop on 'Advanced E-Learning'', October, 2012.
- Attended a workshop on Renewable Energy and its Applications, Sultan Qaboos University, Oman, November, 2006.
- Visit RWTH Aachen University, Germany, 2004
- Attended 11th IUTAM Summer School on Friction and Instabilities, Udine, Italy, 2000
- 1999: Two months of summer internship at Raybestos Products Company, Indiana, USA
- 2000: Three months of summer internship at Raybestos Products Company, Indiana, USA
- 1993: Two months of industrial training at Oman Oil Refinery.
- 1992: Two months of industrial training at Royal Oman Air force.
- 1991: Two months of industrial training at Petroleum Development of Oman.