1

J. MIKE WALKER '66 **DEPARTMENT OF** MECHANICAL ENGINEERING

http://engineering.tamu.edu/mechanical (http://engineering.tamu.edu/ mechanical/)

Head: A. A. Polycarpou

The graduate program in mechanical engineering is designed to offer a choice in curriculum depending upon career objectives. Students interested in leading cutting-edge research, teaching, creating new knowledge, or some combination of those activities may follow the Master of Science and Doctor of Philosophy route. Those interested in practicing engineering at an advanced level in government or industry may pursue the Master of Engineering in Mechanical Engineering. Students are able to tailor an individual program consistent with a degree choice and focus area of their interest.

Each mechanical engineering graduate course is designed to provide a clear presentation of the underlying principles and theories essential to an understanding of the subject. Analytical and experimental techniques are described when required to apply the subject material to modern problems facing the engineers of today. In many cases, the course material supplements active research in mechanical engineering areas currently conducted at Texas A&M and other prominent research centers around the world. Active research facilities are available for advanced manufacturing, biomechanics, design, plastics engineering, artificial intelligence, robotics, non-destructive testing, fracture testing, metallurgical studies, experimental stress analysis, vibrations and rotating machinery, turbomachinery, fluid dynamics, power generation, combustion, in situ lignite gasification, heat transfer, energy management, corrosion, solar energy and wind tunnel studies.

Faculty

Albakri, Mohammad, Assistant Professor Mechanical Engineering-Qatar PHD, Virginia Polytechnic Institute and State University, 2016

Allaire, Douglas L, Associate Professor Mechanical Engineering PHD, Massachusetts Institute of Technology, 2009

Amiri, Ahmad, Research Assistant Professor Mechanical Engineering PHD, Texas A&M, 2022 PHD. Texas A&M University, 2022 PHD, University of Malaya, 2017

Anand, Nagamangala, Regents Professor Mechanical Engineering PHD, Purdue University, 1983

Antao, Dion S, Assistant Professor Mechanical Engineering PHD, Drexel University, 2013

Balas, Mark, Professor Mechanical Engineering PHD, University of Denver, 1974

Balawi, Shadi Omar, Instructional Associate Professor Mechanical Engineering PHD, University of Cincinnati, 2007

Bandyopadhyay, Arkasama, Research Assistant Professor Mechanical Engineering PHD, University of Texas Austin, 2020

Banerjee, Debjyoti, Professor Mechanical Engineering PHD, University of California at Los Angeles, 1999

Benjamin, Chandler C, Research Assistant Professor Mechanical Engineering PHD, University of Wisconsin, Madison, 2017

Borazjani, Iman, Associate Professor Mechanical Engineering PHD, University of Minnesota, 2008

Charoenphol, Phapanin, Instructional Assistant Professor Mechanical Engineering DEN, University of Michigan, 2012

Claridge, David E, Professor Mechanical Engineering PHD, Stanford University, 1976

Cope, Dale A, Associate Professor of the Practice Mechanical Engineering PHD, Wichita State University, 2002

Corleto, Carlos Roberto, Professor of the Practice Mechanical Engineering PHD, Texas A&M University, 1990

Darbha, Swaroop V, Professor Mechanical Engineering PHD, University of California at Berkeley, 1994

El Borgi, Sami, Professor Mechanical Engineering-Qatar PHD, Cornell University, 1993

Elliott, Matthew, Instructional Associate Professor Mechanical Engineering PHD, Texas A&M, 2013

Erdemir, Ali, Professor Mechanical Engineering PHD, Georgia Institute of Technology, 1986

Felts, Jonathan R, Associate Professor Mechanical Engineering DEN, University of Illinois Urbana Champaign, 2013

Gao, Wei, Associate Professor Mechanical Engineering PHD, University of Texas, 2014 PHD, University of Texas at Austin, 2014

Gopalswamy, Swaminathan, Professor of the Practice Mechanical Engineering PHD, University of California, 1991

Grunlan, Jaime C, Professor Mechanical Engineering

PHD, University of Minnesota, 2001

Guo, Bing, Associate Professor Mechanical Engineering-Qatar PHD, Tsinghua University, China, 1998

Haglund, John S, Instructional Associate Professor Mechanical Engineering

PHD, Texas A&M University, 2003

Han, Je C, Distinguished Professor

Mechanical Engineering

PHD, Massachusetts Inst of Technology, 1977

Hasnain, Zohaib, Assistant Professor

Mechanical Engineering

PHD, University of Maryland, 2014

Hassan, Ibrahim, Professor Mechanical Engineering PHD, Manitoba University, 1995

Hassan, Yassin A, University Distinguished Professor and Regents

Professor

Mechanical Engineering-Qatar PHD, University of Illinois, 1980

Hipwell, M Cynthia, Professor Mechanical Engineering

PHD, University of California at Berkeley, 1996

Hogan, Harry A, Professor Mechanical Engineering PHD, Texas A&M University, 1984

Hubbard Jr, James, Professor Mechanical Engineering

PHD, Massachusetts Institute of Technology, 1982

Jacobs, Timothy J, Professor Mechanical Engineering PHD, University of Michigan, 2005

Jarrahbashi, Dorrin, Assistant Professor

Mechanical Engineering

PHD, University of California Irvine, 2014

Khraisheh, Marwan, Professor Mechanical Engineering-Qatar

PHD, Washington State University, 1996

Kim, Haejune, Instructional Assistant Professor

Mechanical Engineering

PHD, University of Wisconsin at Milwaukee, 2014

Kim, Won-Jong, Associate Professor

Mechanical Engineering

PHD, Massachusetts Inst of Technology, 1997

Kim, Yong-Joe, Associate Professor

Mechanical Engineering PHD, Purdue University, 2003 Krishnamoorthy, Aravind, Assistant Professor

Mechanical Engineering

PHD, Massachusetts Institute of Technology, 2016

Krishnamurthy, Vinayak, Associate Professor

Mechanical Engineering PHD, Purdue University, 2016

Kulatilaka, Waruna D, Professor Mechanical Engineering DEN, Purdue University, 2006

Lacy, Thomas E., Professor Mechanical Engineering

PHD, Georgia Institute of Technology, 1998

Lan, Shoufeng, Assistant Professor

Mechanical Engineering

PHD, Georgia Institute of Technology, 2017

Layton, Astrid C, Assistant Professor

Mechanical Engineering

PHD, Georgia Institute of Technology, 2014

Lee, ChaBum, Assistant Professor

Mechanical Engineering

PHD, Gwangju Institute of Science and Technology, 2012

Lee, Kiju, Associate Professor Mechanical Engineering

PHD, Johns Hopkins University, 2009

Li, Ying, Professor Mechanical Engineering PHD, University of Florida, 2007

Liang, Hong, Professor Mechanical Engineering

PHD, Stevens Institute of Technology, 1992

Malak Jr, Richard J, Associate Professor

Mechanical Engineering

PHD, Georgia Institute of Technology, 2008

Mansoor, Bilal, Associate Professor Mechanical Engineering-Qatar PHD, University of Michigan, 2010

Masad, Eyad A, Professor Mechanical Engineering-Qatar

PHD, Washington State University, 1998

Mathieu, Olivier E, Research Associate Professor

Mechanical Engineering

PHD, University of Orleans, 2006

McAdams II, Daniel A, Professor

Mechanical Engineering

PHD, The University of Texas at Austin, 1999

McFarland, Jacob, Associate Professor

Mechanical Engineering

PHD, Texas A&M University, 2013

McVay, Matilda W, Instructional Associate Professor

Mechanical Engineering

PHD, Texas A&M University, 1996

Mohiuddin, Mohammad W, Instructional Assistant Professor

Mechanical Engineering

PHD, Texas A&M University, 2008

Moreno, Michael R, Associate Professor

Mechanical Engineering

PHD, Texas A&M University, 2009

Muliana, Hanifah, Professor Mechanical Engineering

PHD, Georgia Institute of Technology, 2004

Needleman, Alan, University Distinguished Professor

Mechanical Engineering PHD, Harvard University, 1971

O'Neill, Zheng, Associate Professor

Mechanical Engineering

PHD, Oklahoma State University, 2004

Pagilla, Prabhakar R, Professor Mechanical Engineering

PHD, University of California at Berkeley, 1996

Palazzolo, Alan B, Professor Mechanical Engineering

PHD, University of Virginia, 1981

Pan, Heng, Associate Professor Mechanical Engineering

PHD, University of California-Berkeley, 2009

Pate, Michael B, Professor Mechanical Engineering PHD, Purdue University, 1982

Petersen, Eric L, Professor Mechanical Engineering PHD, Stanford University, 1998

Pharr, George, Associate Professor

Mechanical Engineering PHD, Harvard University, 2014

Polycarpou, Andreas A, Professor

Mechanical Engineering

PHD, University of Buffalo - The State University of New York, 1994

Powell-Palm, Matthew, Assistant Professor

Mechanical Engineering

PHD, University of California, Berkeley, 2020

Qiu, Jingjing, Associate Professor

Mechanical Engineering

PHD, Florida State University, 2008

Rajagopal, Kumbakonam, Distinguished Professor

Mechanical Engineering

PHD, University of Minnesota, 1978

Rasmussen, Bryan P, Professor Mechanical Engineering

PHD, University of Illinois, 2005

Rathinam, Sivakumar, Professor Mechanical Engineering

PHD, University of California at Berkeley, 2007

Reddy, Junuthula N, Distinguished Professor and Regents Professor

Mechanical Engineering

PHD, University of Alabama at Huntsville, 1974

Robbins, Andrew B, Research Assistant Professor

Mechanical Engineering

PHD, Texas A&M University, 2018

Ruimi, Annie, Associate Professor Mechanical Engineering-Qatar

PHD, University of California at Santa Barbara, 2005

Sadr, Reza, Professor

Mechanical Engineering-Qatar PHD, University of Utah, 2002

Sanandres, Luis A, Professor Mechanical Engineering

PHD, Texas A&M University, 1985

Saripalli, Srikanth, Professor Mechanical Engineering

PHD, University of Southern California, 2007

Schuller, Michael J, Instructional Associate Professor

Mechanical Engineering-Qatar DEN, Texas A&M University, 1985

Srinivasa, Arun R, Professor Mechanical Engineering

PHD, University of California at Berkeley, 1991

Staack, David A, Associate Professor

Mechanical Engineering PHD, Drexel University, 2008

Subramanian, Velumani, Instructional Associate Professor

Mechanical Engineering PHD, Bharathiar University, 1998

Suh, Chii-Der, Associate Professor

Mechanical Engineering

PHD, Texas A&M University, 1997

Tafreshi, Reza, Professor Mechanical Engineering-Qatar

PHD, University of British Columbia, Canada, 2005

Tai, Li-Jung, Associate Professor Mechanical Engineering

PHD, University of Michigan Ann Arbor, 2011

Thomas, Naveen, Instructional Assistant Professor

Mechanical Engineering PHD, Texas A&M, 2021

PHD, Texas A&M University, 2021 PHD, Texas A&M University, 2019 Thyagarajan, Ravi, Professor Of The Practice Mechanical Engineering PHD, California Institute of Technology, 1989

Tran, Thanh Hai, Instructional Assistant Professor Mechanical Engineering PHD, University of South Florida, 2016

Tsenn, Joanna N, Instructional Assistant Professor Mechanical Engineering PHD, Texas A&M University, 2016

Tseregounis, Spyros, Professor of the Practice Mechanical Engineering PHD, University of California at Los Angeles, 1984

Walsh, Michael, Associate Professor of the Practice Mechanical Engineering MFA, University of Southern California, 2001

Wang, Ya, Associate Professor Mechanical Engineering PHD, Virginia Tech, 2012

Wen, Sy-Bor, Associate Professor Mechanical Engineering PHD, University of California at Berkeley, 2006

Wilkerson, Justin W, Associate Professor Mechanical Engineering PHD, Johns Hopkins University, 2014

Wright, Lesley M, Associate Professor Mechanical Engineering PHD, Texas A&M University, 2006

Yu, Choongho, Professor Mechanical Engineering PHD, The University of Texas at Austin, 2004

Zambrano-Roman, Byron Alfonso, Research Assistant Professor Mechanical Engineering PHD, Michigan State University, 2017

Zhou, Yuxiao, Assistant Professor Mechanical Engineering PHD, Pennsylvania State University, 2020

Masters

- Master of Engineering in Mechanical Engineering (http:// catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/ engineering/mechanical/meng/)
- Master of Science in Mechanical Engineering (http:// catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/ engineering/mechanical/ms/)

Doctoral

 Doctor of Philosophy in Mechanical Engineering (http:// catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/ engineering/mechanical/phd/)