HAROLD VANCE DEPARTMENT OF PETROLEUM ENGINEERING

Petroleum Engineering is concerned primarily with the safe and economic extraction of oil, gas, and other natural resources from the earth. Oil and gas is produced through the design, drilling and operation of wells and well systems, and the integrated management of the underground reservoirs in which the resources are found.

The mission of the Petroleum Engineering Department is to create, preserve, integrate, transfer and apply petroleum engineering knowledge and to enhance the human capability of its practitioners. The Petroleum Engineering Program has two educational objectives:

- graduates will have the technical depth and breadth to be successful professionals early in their careers; and
- graduates will have the broad technical knowledge and soft skills needed to rise to positions of professional leadership.

In essence, the goal of the Petroleum Engineering curriculum is to provide a modern engineering education with proper balance between fundamentals and practice, and to graduate engineers capable of being productive contributors immediately who are also prepared for life-long learning. The curriculum includes study of:

- design and analysis of well systems and procedures for drilling and completing wells;
- characterization and evaluation of subsurface geological formations and their resources;
- design and analysis of systems for producing, injecting and handling fluids;
- application of reservoir engineering principles and practices for optimizing resource development and management; and
- use of project economics and resource valuation methods for design and decision making under conditions of risk and uncertainty.

There is a heavy emphasis on mathematics, computer applications, communication skills and interdisciplinary problem solving. As a result, Aggie petroleum engineers are in high demand in the industry, and their starting salaries are consistently among the top in the University and the nation.

The department is well known for its curriculum, facilities and faculty, and its undergraduate program was recognized as one of the top petroleum engineering programs in the United States. The faculty comprises more than 41 professors and lecturers, many of them widely known and globally involved in the petroleum industry. Three (3) of the faculty are members of the prestigious National Academy of Engineering, and 21 are Distinguished Members of the Society of Petroleum Engineers. The Bachelor of Science program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Students must work as interns during the summer months; a minimum of six weeks of approved experience is required for graduation. The department also participates in the Cooperative Education Program.

Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

Faculty

Abedi Mashhadimighani, Sara, Assistant Professor
Petroleum Engineering
PHD, University of Southern California, 2012

Akkutlu, Ibrahim Y, Professor
Petroleum Engineering
PHD, University of Southern California, 2002

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

Barrufet, Maria A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1987

Bastian, Peter A, Professor of the Practice
Petroleum Engineering
MS, Texas A&M University, 1983

Blasingame, Thomas A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1989

Dattagupta, Akhil, Distinguished Professor
Petroleum Engineering
PHD, University of Texas, 1992

Gildin, Eduardo, Associate Professor
Petroleum Engineering
PHD, University of Texas, 2006

Hascakir, Berna, Associate Professor
Petroleum Engineering
PHD, Middle East Technical University, 2008

Hill, Alfred D, Professor
Petroleum Engineering
PHD, University of Texas, 1978

Holditch, Stephen A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1976

Jochen, John E, Senior Lecturer
Petroleum Engineering
MS, Texas A&M University, 1993

Jochen, Valerie Ann, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1994

Killough, John E, Professor
Petroleum Engineering
PHD, Rice University, 1986

Kim, Jihoon, Assistant Professor
Petroleum Engineering
PHD, Stanford University, 2010
King, Michael J, Professor
Petroleum Engineering
PHD, Syracuse University, 1980

Laprea Bigott, Marcelo, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1979

Lee, William J, Professor
Petroleum Engineering
PHD, Georgia Institute of Technology, 1963

Liang, Jenn T, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 1988

Maggard, Bryan, Senior Lecturer
Petroleum Engineering
PHD, Texas A&M University, 2000

McCain Jr, William D, Visiting Professor
Petroleum Engineering
PHD, Georgia Institute of Technology, 1964

McVay, Duane A, Professor
Petroleum Engineering
PHD, Texas A&M University, 1994

Medina Cetina, Zenon, Associate Professor
Petroleum Engineering
PHD, John Hopkins University, 2007
PHD, Johns Hopkins University, 2007

Moridis, George J, Professor
Petroleum Engineering
PHD, Texas A&M University, 1987

Morita, Nobuo, Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 1974

Nascentes Alves, Ibere, Professor of the Practice
Petroleum Engineering
PHD, University of Tulsa, 1991

Nasr-El-Din, Hisham A, Professor
Petroleum Engineering
PHD, University of Saskatchewan, 1984

Nasrabadi, Hadi, Assistant Professor
Petroleum Engineering
PHD, Imperial College London, United Kingdom, 2006

Noynaert, Samuel F, Assistant Professor
Petroleum Engineering
PHD, Texas A&M University, 2013

Rodrigues De Paula Lima, Heitor, Professor of the Practice
Petroleum Engineering
PHD, Texas A&M University, 1998

Schecther, David S, Professor
Petroleum Engineering
PHD, Brisol University, United Kingdom, 1989

Schubert, Jerome J, Associate Professor
Petroleum Engineering
PHD, Texas A&M University, 1999

Sliva, Catherine A, Associate Professor of the Practice
Petroleum Engineering
BS, Texas A&M University, 1980

Sliva, Glenn M, Associate Professor of the Practice
Petroleum Engineering
BS, Texas A&M University, 1981

Spath, Jeffrey B, Professor
Petroleum Engineering
PHD, Mining University of Leoben, Austria, 1996

Sun, Yuefeng, Professor
Petroleum Engineering
PHD, Columbia University, 1994

Voneiff, George W, Professor of the Practice
Petroleum Engineering
MS, Texas A&M University, 1992

Weijermars, Rudy, Professor
Petroleum Engineering
PHD, University of Uppsala, 1987

Wu, Kan, Assistant Professor
Petroleum Engineering
PHD, The University of Texas at Austin, 2014

Zhu, Ding, Professor
Petroleum Engineering
PHD, University of Texas, 1992

**Majors**

- Bachelor of Science in Petroleum Engineering (http://catalog.tamu.edu/undergraduate/engineering/petroleum/bs)

**Minors**

- Petroleum Engineering Minor (http://catalog.tamu.edu/undergraduate/engineering/petroleum/minor)

**Certificates**

- Energy Engineering Certificate (http://catalog.tamu.edu/undergraduate/engineering/petroleum/energy-engineering-certificate)
- Petroleum Ventures Certificate (http://catalog.tamu.edu/undergraduate/engineering/petroleum/petroleum-ventures-certificate)