

JAMES J. SHENG

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WORK EXPERIENCE

2011 – Present

Associate Professor (-2017)

Professor (2017-present)

Texas Tech University

Lubbock, TX 79409, USA

- Conduct enhanced oil recovery (EOR) research;
- Responsible for the undergraduate core laboratory;
- Teach reservoir engineering courses with good student evaluation.
- Committee Chairs for 21 PhDs (job positions after graduation: 7 faculty members, 1 in ExxonMobil, 2 in Chevron), 7 Master students with Master's theses and 26 Master students with Master's reports by December 2022.
- Authored and co-authored 180 journal papers and about 75 conference papers, held 4 US patents, published 2 books, interviewed by JPT technical editors twice, two papers published by JPT, and two papers published by American Oil & Gas Reporter, and one paper published by a professional journal, invited for presentation by SPE, AAPG and universities, by December 2022.

2006 – 2010

Sr. Research Engineer

Managed research projects

TOTAL E&P USA

Houston TX 77002, USA

- Conducted chemical EOR research;
- Supervised summer interns to conduct research;
- Developed chemical EOR expertise;
- Total technology representative in US (universities, DOE, tech services, projects with millions of dollars).

2003 – 2006

Scientist, Team Leader

Baker Hughes, Inc.

2001 Rankin Road, Houston, TX 77073, USA

- Developed formation testing interpretation techniques;
- Taught formation testing and sampling courses world-wide;
- Supervised summer interns to conduct research;
- Supported world-wide operations, data analysis and tool development.

1999 – 2003

Sr. Reservoir Engineer

Shell Group

PDO Oman & Shell Malaysia

- Was the team focal point for production forecast (800 wells);
- Planned field development programs;
- Was a focal point for MDT, RCI, PVT sampling and SCAL work;

- Revised FDP using a full field model built from scratch;
- Was a coordinator for external polymer EOR and other studies;
- Provided RE support for near field exploration, water disposal;
- Designed and analyzed 22 gas well tests;
- Studied oil rim development opportunities;
- Coordinated annual review of petroleum resources.

1997 – 1999
Sr. Reservoir Engineer

Kuwait Oil Company
Ahmadi, Kuwait

- Participated in field development studies and simulation studies;
- Designed and analyzed horizontal well pressure transient tests;
- Trained students and junior engineers;
- Evaluated horizontal well performance.

1991 – 1996
Graduate Student

University of Alberta
Edmonton, Canada

- Developed a non-equilibrium simulation model;
- Developed a methodology to describe bubble evolution;
- Studied the stability of gas-oil dispersion experimentally.
- Developed a 1D numerical simulator for thermal recovery;
- Simulated and studied thermal well tests;
- Worked on foam-flooding recovery.

1983 – 1990
Reservoir Engineer

Research Institute of Petroleum Exploration and Development
Beijing, China

- Participated in field development plan and studies;
- Participated in advising the government on production strategies;
- Assisted senior engineers to carry out consultations;
- Was trained for well site operations.

EDUCATION

- Ph.D. (1996) and M.Sc. (1993) from U. of Alberta, B.Sc. (1983) from China University of Petroleum, China, all in Petroleum Engineering

AWARDS AND HONORS

- Received the US Fulbright Scholar grant to Canada in 2021.
- Received the award for the Faculty Excellence in Research, Scholarship, and Creative Activity, Texas Tech University in 2018.
- Became SPE Distinguished Member, Sept. 25, 2018.
- Received Whitacre Engineering Research Award, Excellence in Research, Texas Tech University in 2015.
- Received the SPE Regional Technical Award (Southwestern US region) in 2013, 2015.

- Chosen by students as a Most Influential Faculty Member in 2015, 2017.
- Received the Fulbright Specialist Grant administrated by FSB, UD ECA and CIES and to help PetroVietnam University to establish their petroleum program in 2013.
- A member of the SPE “A Peer Apart” group whose member each reviewed more than 100 SPE papers (2009).
- Received the Eminent Reviewer Award from *Journal of Petroleum Science and Engineering* (2008).
- Received the Outstanding Associate Editor Award, *SPEREE*, 2008.
- Received the Outstanding Technical Editor Award, *SPEREE*, 2005.
- Received the Best Paper Award published in *JCPT*, Canada (1997).
- Received the Petroleum Society Fellowship Award, Petroleum Society of CIM, Canada (1995).
- Received the Norcen Energy Resources Scholarship in Petroleum Engineering, University of Alberta, Canada (1992).
- Received the Student Awards of Excellent Achievements, University of Petroleum (Huadong), China (1980, 1982).

SERVICES

- Served the SPE North America Regional Director (Oct 2021-Oct 2024) Nomination Committee, 2021.
- Served the technical committee of the SPE Liquid Rich Basins Conference, Odessa, Texas, USA, November 7-10, 2019.
- Served as a PhD or Ms. external examiner for foreign universities (Canada, China, Kuwait, Saudi Arabia, UAE, US) (2018-present)
- Reviewed research proposals submitted to American Chemical Society Petroleum Research Funds (ACSPRF) funds (2013, 2015, 2016) and foreign institutes (2016-present).
- Served the faculty tenure and promotion committee for the petroleum department and College of Engineering (2014-present).
- Chaired the scholarship committee for the petroleum department of TTU (2014-present)
- Served in the Organizing Committee of the World Congress on Petrochemistry and Chemical Engineering, OMICS Group, November 18-20, 2013, San Antonio, USA.
- Reviewed book proposals for Elsevier Publisher (2008-present).
- Served on the proposal review committee and the technical steering committee for RPSEA (Research Partnership to Secure Energy for America) EOR/IOR Consortium (2008) and the DeepStar Consortium (2006 – 2010).
- Associate Editor for the Journal of Petroleum Science and Engineering (JPSE), 2008-2011.
- Associate Editor for *SPEREE*, 2005 – 2009.
- Appointed technical Editors for *JCPT* (1996-2000), *SPEREE* (2005 – 2010), *JPSE* (2008 – 2011).
- Invited technical editors for *SPWLA*, *SPE Journals*, *Energy & Fuel*, *Fuel*, *JPSE(GSE)*, *JNGSE*, *RMRE*, etc.
- Served the SPE Kuwait section as the secretary (1998-1999).

PUBLICATION

- Listed in Stanford University’s 100,000 most-cited researchers in the world (top 2% of global researchers) (2020-2021)
- Authored on Shale EOR book: Enhanced Oil Recovery in Shale and Tight Reservoirs, Elsevier, 2020 (540 pages).
- Edited and co-authored one EOR book: EOR Field Case Studies, Elsevier, 2013 (685 pages).

- Authored one chemical EOR book: Modern Chemical Enhanced Oil Recovery, Elsevier, 2011 (650 pages).
- Published total 190+ journal papers and 11 book chapters, and presented about 110+ papers.
- 8 US patents and 4 Chinese patents held, 2 patents pending and 1 disclosed.