

CURRICULUM VITA

STEPHEN A. HOLDITCH

January 2014

EDUCATION

Texas A&M University - B.S. Petroleum Engineering (1969)
Texas A&M University - M.S. Petroleum Engineering (1970)
Texas A&M University - Ph.D. Petroleum Engineering (1976)

EDUCATIONAL EXPERIENCE

- Director of the Texas A&M Energy Institute Jan. 2011 to Jan. 2013
- Head of Dept. of Petroleum Engineering, Texas A&M Jan. 2004 to Jan. 2012
- Professor Emeritus, Texas A&M University* Sept. 2001 to Present
- Professor, Texas A&M University Sept. 1984 – Aug. 2001
- Associate Professor, Texas A&M University Sept. 1980 – Aug. 1984
- Assistant Professor, Texas A&M University Jan. 1976 – Aug. 1980
- Retired from Texas A&M University January 2013.

CURRENT STATUS

- Chairman of Oxane Materials, Inc. Dec. 2014 to present
- Board of Directors of Matador Resources Jan. 2004 to present
- Professor Emeritus, Texas A&M University* Sept. 2001 to present
- Petroleum Engineering Consultant Sept. 1977 to present
- Board of Trustees of Reasoning Mind Jan. 2013 to present
- Member of the Bryan Business Council Jan. 2013 to present

PROFESSIONAL EXPERIENCE

TEXAS A&M UNIVERSITY
Director of the Energy Institute
January 2011 – January 2013

Stephen A. Holditch was the Director of the Texas A&M University Energy Institute. The Energy Institute assisted the faculty and staff with their research activities in oil and gas, biofuels, solar, wind, energy conservation and any other topic that involves energy, such as CNG powered vehicles.

TEXAS A&M UNIVERSITY
Head of the Department of Petroleum Engineering
January 2004 – January 2012

Stephen A. Holditch was the Head of the Petroleum Engineering Department at Texas A&M University. The Department had OVER 30 faculty and research positions and 16 staff positions. There were over 600 undergraduate students and 325 graduate students enrolled in Petroleum Engineering in College Station, Texas. There were another 110 students and 8 faculty at the Texas A&M University campus in Doha, Qatar.

Dr. Holditch joined the faculty at Texas A&M University in 1976 and has been on the faculty continuously since that time. As of September 2009, Dr. Holditch has taught **97** courses, has served on the committees of **164** graduate students, and has been the chairman of **86** of those graduate student committees since 1976. Dr. Holditch has taught both graduate and undergraduate courses.

Since becoming the head of the Department of Petroleum Engineering in 2004, Dr. Holditch brought in over \$7 million in research funding for the department. He has also been in charge of the departmental fund raising campaign that has brought in over \$26 million to the department, mostly in endowments. Dr. Holditch and his wife have funded over \$150,000 in fellowships and scholarship endowments.

SCHLUMBERGER
SCHLUMBERGER FELLOW
June 1999 – December 2003

In April 1999, Stephen A. Holditch was named a Schlumberger Fellow, which is the highest position on the Technical Ladder. There were only 9 Schlumberger Fellows worldwide. As a Schlumberger Fellow, Dr. Holditch was the Production and Reservoir Engineering advisor to the top managers within Schlumberger. Dr. Holditch formed S. A. Holditch & Associates, Inc. (HOLDITCH) in 1977. In 1997, HOLDITCH became part of Schlumberger Technology Corporation. In 1999, HOLDITCH was combined with other groups in Schlumberger to form Holditch Reservoir Technologies, which is now called Schlumberger Data and Consulting Services.

S. A. HOLDITCH & ASSOCIATES, INC.
PRESIDENT
May 1977 – June 1998

Stephen A. Holditch formed S. A. Holditch & Associates, Inc. (HOLDITCH) in 1977. Dr. Holditch was the President and Chief Executive officer from inception until June 1998 when he moved on to become a Schlumberger Fellow. HOLDITCH grew in the late 1970's and early 1980's by providing petroleum technology involving the analysis of low permeability gas reservoirs and the design of hydraulic fracture treatments. During the latter half of the 1980's and into the 1990's, Dr. Holditch expanded the services offered by HOLDITCH by surrounding himself with a large, extremely talented professional engineering staff. The company grew from 3 employees in 1977 to more than 80 employees in 1998. HOLDITCH was a full-service petroleum engineering consulting company that solved virtually any petroleum engineering problem. In 1997, HOLDITCH became part of Schlumberger Technology Corporation.

On October 31, 1997, Schlumberger acquired S. A. Holditch & Associates, Inc. In addition to his regular duties as President and Chief Executive Officer of HOLDITCH, Dr. Holditch was involved in strategic planning with Dowell and Schlumberger. Areas in which Dr. Holditch contributed to the Schlumberger business strategy include:

- Creation of a Technical Career Ladder
- Involved in the initial planning of the possible "consolidation" of all consulting groups within Schlumberger, and
- Planning and development of fracture treatment design strategies.

TEXAS A&M UNIVERSITY
Faculty
1976 - 2013

Stephen A. Holditch joined the Petroleum Engineering faculty at Texas A&M University in 1976. Dr. Holditch was granted the title of Professor Emeritus of Petroleum Engineering in 2001. After 2001, Dr. Holditch reduced his teaching and research load at Texas A&M as he was concentrating on his obligations as SPE President and Schlumberger Fellow. Over the years, he has taught virtually every undergraduate course and several graduate level courses on Formation Evaluation, Well Stimulation, and Production Engineering. Holditch has actively performed and supervised research since 1974 in the areas of:

- low permeability gas reservoir engineering,
- hydraulic fracture treatment design,
- reservoir simulation,
- simulation of hydraulic fracture treatments,
- evaluation of hydraulic fracture treatment fluids,
- non-Darcy flow of gas in fractures,
- effects of mud filtrate invasion upon drill stem tests,
- effects of mud filtrate invasion upon induction log response, and
- the effects of fracture fluid cleanup behavior upon well productivity.

**INDEPENDENT CONSULTANT
1974 - 1976**

Holditch worked as an independent consulting engineer on reservoir studies, well completions and fracture treatment design for various clients in East Texas and South Texas. He also attended Texas A&M University to earn a Ph.D. in Petroleum Engineering. Research was conducted concerning reservoir flow behavior in fractured, low permeability gas reservoirs.

**SHELL OIL COMPANY
PRODUCTION ENGINEER
1970 - 1974**

Responsibilities included production engineering for numerous oil and gas fields. In charge of well completions and massive hydraulic fracture treatment designs for about 25 wells in several deep, geopressured Vicksburg and Wilcox fields in South Texas. I worked on a project to evaluate the effects of large compressor installations and/or modifications for three South Texas gas fields. Experience includes field supervision of workovers, fracture treatments, acid treatments and well logging.

**PAN AMERICAN PETROLEUM CORPORATION
ENGINEER
1968 - 1969**

Holditch worked as a field engineer on various projects in the East Texas field and in a sour gas processing plant including practical roustabout experience.

PROFESSIONAL AFFILIATIONS

National Academy of Engineering (NAE)
Russian Academy of Natural Sciences (RANS)
Society of Petroleum Engineers (SPE)
American Association of Petroleum Geologist (AAPG) – prior member
Society of Professional Well log Analysts (SPWLA) – prior member
Society of Petroleum Evaluation Engineers (SPEE) – prior member
Pi Epsilon Tau
The Academy of Medicine, Engineering and Science of Texas (TAMEST)
Registered Professional Engineer - Texas No. 37604

BUSINESS/COMMUNITY AFFILIATIONS

President of The Academy of Medicine Engineering and Science of Texas (2011)
Chairman for the Research Partnership to Secure Energy for America (2009 – 2011)
Board Member for Research Partnership to Secure Energy for America (2005 – Present)
Chairman Elect for the Research Valley Partnership (2009 - 2011)
Board Member for the Research Valley Partnership (2006 - Present)
Board Member of Matador Resources Corporation in Dallas, Texas (2003 – Present)
Advisory Board Member of Wells Fargo Bank in Bryan, Texas (1982 – Present)
Member of the National Petroleum Council (2006-Present)
Member of the Board of Trustees for the SPE Foundation (2002 – Present)
Board Member for the Network of Excellence in Training (2004 – Present)
Board Member for Triangle Petroleum (2005 – Present)
Board of Trustees Member for Reasoning Mind (2004 – Present)
Member of External Research Advisory Committee for Saudi Aramco (2006 - Present)
Member of Finance Committee for the National Academy of Engineering (2004 – 2007)
Chairman of Finance Committee for A&M United Methodist Church (2006 - 2009)
Former Board Member and President of Camp Creek Water Company (1992 – 1995)

HONORS AND AWARDS

SPE Distinguished Service Award for Petroleum Engineering Faculty - 1981
SPE Distinguished Lecturer - 1982-83
SPE Distinguished Lecturer - 1997-98
SPE Distinguished Member - 1989
TAMU Shell Distinguished Chair in Petroleum Engineering - 1983-87
SPE Lester C. Uren Award - 1994
National Academy of Engineering – 1995
Russian Academy of Natural Sciences – 1997
Petroleum Engineering Academy of Distinguished Graduates – 1998
SPE John Franklin Carll Award – 1999
ASME Rhodes Petroleum Industry Leadership Award – 1999
SPE Anthony B. Lucas Award – 2005
SPE Honorary Member – 2006
SPE Legend of Hydraulic Fracturing – 2014

PROFESSIONAL ACTIVITIES

SPE Education and Accreditation Committee - 1974-1977
SPE Well Completions Committee - 1976, 1980, 1982
SPE Program Committee for Symposium on Low Permeability Gas Reservoirs 1978-79
SPE Editorial Committee - 1979
NPC Committee on Evaluation of Low Permeability Gas Reservoirs - 1979-80
SPE Distinguished Author Committee, 1983-84
SPE Monograph Subcommittee, 1984-86
SPE Chairman - 1986 Unconventional Gas Technology Symposium
SPE Distinguished Lecturer Committee, 1987-88
SPE Chairman, Distinguished Lecturer Committee - 1989
SPE Gas Technology Committee, 1987-1988
SPE Chairman - 1988 Gas Technology Symposium
SPE Reprint Series Committee - 1990-92
SPE Chairman, Reprint Series Committee, 1992-93
SPE Editor for the Coalbed Methane reprint, 1990-91
SPE Technology Today Series Committee, 1993-94
SPE JPT Special Series Committee, 1994-97
API Chairman, Subcommittee on Fracturing Fluids – 1995-97
AIME Board of Trustees – 1997-98
SPE Vice President of Finance – 1998-2000
SPE President 2002 – 2001-2003
SPE Foundation Board of Trustees – 2003-present
SPE Chairman – Carll, Lucas, Uren Awards Committee – 2003-2006
SPE Chairman – 2005 Long Range Plan Subcommittee on Management – 2004-2005
SPE Nominating Committee – 2006
SPE Chairman of the 2007 Hydraulic Fracturing Technology Conference
SPE Program Committee for 2007 R&D Conference
SPE Committee for Honorary and Distinguished Members – 2009-10
SPE Editor in Chief for all Journals – 2010 – 2013
SPE Nominating Committee – 2014