SPE Hydraulic Fracturing Technology Conference

3–5 February 2015 • The Woodlands, Texas, USA
The Woodlands Waterway Marriott Hotel and Convention Center

Conference Preview
Register Now!
www.spe.org/go/15HFTCReg
**Dear Colleagues,**

On behalf of the program committee, I am pleased to announce the seventh SPE Hydraulic Fracturing Technology Conference in The Woodlands, Texas, USA, on 3–5 February 2015.

This event will present current and proven technologies in hydraulic fracturing based on lessons learned from fracture-stimulated wells, with an emphasis on applying this technology across the globe.

The conference will highlight timely and noteworthy topics, including fracture modeling and diagnostics, water management, the importance of conductivity, and more. Keynote addresses in each technical session and technical papers outlining the latest technology, combined with an outstanding exhibition, make it the premier global conference on hydraulic fracturing.

This year’s event features a record six training courses, ePoster presentations, and a robust technical agenda.

Mark your calendar now, and make plans to attend. It will be a great conference, and I look forward to seeing everyone there!

Sincerely,

**Karen Olson**, Program Chairperson
Southwestern Energy
Conference Focus

The SPE Hydraulic Fracturing Technology Conference is a critically important event for our industry and one of SPE’s most popular events. With a dynamic mix of sessions that feature unconventional resources technologies and hydraulic fracturing demonstrations and rigs, this event is not to be missed.

About SPE

We are the largest individual-member organization serving managers, engineers, scientists, and other professionals worldwide in the upstream segment of the oil and gas industry. We offer a unique opportunity to contribute to the profession through our programs and activities, and many of our accomplishments are driven by our dedicated members.

Committee

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Southwestern Energy

Vice Chairperson
Richard Sullivan
Anadarko Petroleum

Kirk Bartko
Saudi Aramco
Harold Brannon
Baker Hughes
Craig Cipolla
Hess Corporation
Michael Conway
Stim-Lab
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Rick Gdanski
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Dan Hill
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Paul Huckabee
Shell E&P
Stephen Mathis
Chevron ETC
Jennifer Miskimins
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NSI Technologies
W. David Norman
NSI Technologies
Mark Pearson
Liberty Resources
Martin Rylance
BP Exploration
Mukul Sharma
University of Texas
Klaas Van Gijtenbeek
Halliburton
Norman Warpinski
Pinnacle
Xiaowei Weng
Schlumberger
Ding Zhu
Texas A&M University
# Schedule of Events  (as of 4 December)

## SUNDAY, 1 FEBRUARY

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<tbody>
<tr>
<td>1200–1700</td>
<td>Conference Registration</td>
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<td>0700–0800</td>
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<td>Training Courses</td>
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<td>1500–1700</td>
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## TUESDAY, 3 FEBRUARY

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<td><strong>FRIDAY, 6 FEBRUARY</strong></td>
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<td>0700–0800</td>
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<td><strong>SATURDAY, 7 FEBRUARY</strong></td>
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<td>0800–1700</td>
<td>Training Courses</td>
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Pre-Conference Training Courses

All training courses will be held at The Woodlands Waterway Marriott Hotel, and require a separate ticket purchase from the conference.

Monday, 2 February | 0800–1700

**Fracpacking for Sand Control**  
*Instructor: Dave Norman*

This course is for both the novice and the experienced practitioner. It demonstrates why fracpack technology has become popular as a sand control method. This includes defining some basic terminology associated with the two technologies that lead to successful fracpacking. The purposes of the course is to gain a better understanding of the elements of fracpacking that are crucial to success and longevity, and to learn how to compose a scoring method to quickly assess installation quality as well as long term productivity expectations.

**Shale Hydraulic Fracturing: Design and Analysis**  
*Instructor: Steve Hennings*

This course covers the technical fundamentals of hydraulic fracture design treatments in shale reservoirs. The focus is on actual field results, the practical data needed to plan a treatment, and the reasons treatment designs vary by company and by type of shale reservoir.

**Engineering Interpretation and Integration of Microseismic Results**  
*Instructor: Norm Warpinski*

This course is a critical examination of microseismic results to evaluate engineering decisions that can and should be made in unconventional reservoirs, based upon microseismicity and other information that is available to supplement it. Case studies, particularly those where other technologies have been used to validate the microseismicity, are given to illustrate the value of interpreting such results with respect to concepts, such as stimulated reservoir volume and optimization of stimulations, completions, and well plans. The building of calibrated models is examined, as well as methods to improve such models in multi-stage horizontal well treatments and use in reservoir simulators.

**Water Treating for Hydraulic Fracturing**  
*Instructor: John M. Walsh*

This course provides both an overview of water management and an in-depth look at critical issues related to sourcing (acquiring), reusing, recycling, and disposing of water in hydraulic fracturing operations. The course starts with a background of hydraulic fracturing operations and the different plays around North America. Options being used for transport, storage, reuse, and disposal are described for each of the different regions. The water management practices being used in the different regions are described and explained in terms of regional climate, type of shale, and hence, type of fracturing fluids being used, and the regional regulatory framework.
Post-Conference Training Courses

All training courses will be held at The Woodlands Waterway Marriott Hotel, and require a separate ticket purchase from the conference.

Friday, 6 February–Saturday, 7 February | 0800–1700

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**Shale Resource Development: A Step-by-Step Process from Exploration/Appraisal to Development/Production and Rejuvenation**

**Instructor: Usman Ahmed**

The course takes a “life cycle approach” to shale resources development, starting with exploration and appraisal, before moving towards development and production. Then it looks at technology and means to rejuvenate shale resource.

Participants will become familiar with the associated technologies needed to develop the shale resource. The course content will provide a critical understanding about the development process and technologies of a cost-effective basin/reservoir exploration, evaluation, and development plan.

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**Hydraulic Fracturing/Pressure Analysis**

**Instructor: Michael B. Smith**

This course presents the basics of analyzing fracturing pressure, including design parameters that can be determined, and the uses and limitations of such analysis for on-site design. Sessions include real-world examples from a variety of wells, from tight gas and shale to high permeability, offshore, and frac-pack treatments. *Participants are required to bring a laptop.*
### Technical Program
(as of 4 December)

#### Tuesday, 3 February 0915–1130
**Plenary Session: How Do We Optimize Hydraulic Fracturing in Shale Resource Plays?**
**Moderator:** Stephen Holditch, Texas A&M University  
**Session Chairperson:** Karen Olson, Southwestern Energy Company

When developing very low permeability resources using long horizontal wells, the number of fracture treatment stages, treatment designs and materials, and completion strategy are key parameters that control productivity, drainage area, and well spacing. Optimizing these parameters is critical for economic success. This plenary session will address how industry is developing shale resource plays in the US and determining the initial and optimized development plans. Discussions will be around field trials and reservoir/fracture modeling and how they both have played a part in the development and optimization of the shale resource plays in the US.

#### Tuesday, 3 February 1300–1700
**002 Fracture Diagnostics**
**Session Chairpersons:**  
Mukul Sharma, University of Texas at Austin  
Craig Cipolla, Hess Corp.

This session focuses on key issues associated with fracturing modeling, including mechanisms and models for fracture height growth, understanding and modeling the interaction of multiple fractures in horizontal wellbores, and new methods to model the propagation of hydraulic fractures in naturally fractured reservoirs.

#### Tuesday, 3 February 1300–1700
**001 Fracture Modeling**
**Session Chairpersons:**  
Mukul Sharma, University of Texas at Austin  
Craig Cipolla, Hess Corp.

This session discusses new technologies, analysis methods, and field applications for evaluating stimulation effectiveness, inter-stage interference, inter-well interference, and reservoir characteristics. The subjects include optic fiber distributed sensing (acoustic and temperature), microseismic, diagnostic injection tests, downhole pressure monitoring, and tiltmeters. The discussion emphasizes the value of integration of complementary diagnostic methods to improve confidence in the interpretations and analysis.

#### Wednesday, 4 February 0830–1230
**003 Fracture Performance**
**Session Chairpersons:**  
Xiaowei Weng, Schlumberger  
Rick Gdanski, Shell

How might our industry best engineer horizontal multi-stage completions and well placement in unconventional reservoirs to optimize the economics? Many factors can significantly influence the well performance, varying from completion design, perforation clusters and frac stage spacing, wellbore vertical placement in the formation, reservoir characteristics, fracturing fluids and proppant choices, to frac fluid flowback, the impact of offset well drainage, and operation efficiency. The papers in this session address many of these aspects through both statistical and quantitative field data analysis and modeling, in diverse unconventional plays such as Eagle Ford, Three Forks, and Marcellus.
**Wednesday, 4 February 0830–1230**

*004 Case Histories*

**Session Chairpersons:**
Jennifer Miskimins, Barree & Assocs. LLC  
C. Pearson, Liberty Resources LLC

This session focuses on a variety of case studies that cover different shale systems and other reservoir types. Various approaches will be presented, ranging from data mining and statistical analyses to the specific evolution of techniques in given plays. Many current major reservoirs and active geographic areas will be represented.

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**Wednesday, 4 February 1400–1730**

*005 Conductivity—Fracturing and Proppant*

**Session Chairpersons:**
Klaas Van Gijtenbeek, Halliburton  
Martin Rylance, BP Exploration

Not too many years ago, fracture conductivity was synonymous solely with proppant. Indeed, this session used to be called “Proppant Conductivity.” However, with the extensive development of unconventional has come an increased understanding of the importance of conductivity in all of its forms. This session will address conductivity, its placement, creation, and protection in any format, as well as continue to communicate new and innovative related technologies.

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**Wednesday, 4 February 1400–1730**

*006 Diagnostics II / Completion Hardware*

**Session Chairpersons:**
Dave Norman, NSI Technologies Inc.  
Stephen Mathis, Chevron ETC

This session begins with a review of current completion hardware used by various operators worldwide. It completes the papers on fracture diagnostics, then changes focus to the mechanical aspects of completion hardware used during fracturing.

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**Thursday, 5 February 0830–1200**

*007 Fracture and Geomechanics Modeling*

**Session Chairpersons:**
Norman Warpinski, Pinnacle  
Richard Sullivan, Anadarko Petroleum Corp.

This session examines hydraulic fracture modeling and geomechanics analyses. Advanced concepts in fracture modeling, such as continuum damage and finite element approaches, are employed to evaluate fracture propagation in unconventional reservoirs. Geomechanical analyses of in-situ properties using drilling data, high resolution 3D earth models, and stress variability are developed to augment completion and fracture design.

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**Thursday, 5 February 0830–1200**

*008 Fracturing Fluids*

**Session Chairpersons:**
Harold Brannon, Baker Hughes - SSI  
Eric Davis, ConocoPhilips

Minimizing fresh water usage is a major focus of hydraulic fracturing operations in unconventional resource development. The session begins with a keynote address describing a freshwater neutral hydraulic fracturing development by one operator. The topic of water management is continued with a paper discussing produced water treatment. Other papers describe novel fracture fluids and the use of acid to enhance the conductivity created in complex fracture networks. The session ends with a paper describing new procedures for fracture fluid leakoff evaluation.
# Conference Registration

<table>
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<tr>
<th>Registration Type</th>
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<th>After 20 January</th>
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<tr>
<td><strong>Full Registration</strong></td>
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<td><strong>1-Day Option (Tuesday, Wednesday, or Thursday)</strong></td>
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<td>Fracpacking for Sand Control</td>
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<td><strong>Additional Items</strong></td>
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<tr>
<td>Proceedings</td>
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<td>Luncheon per day</td>
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<td>Welcome Reception</td>
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**Full registration** fees include access to the reception, technical sessions, exhibition, coffee breaks, networking luncheons, and one copy of the proceedings.

**Student registration** includes access to the reception, technical sessions, exhibition, coffee breaks, and networking luncheons. Does not include proceedings.

**Spouse registration** includes access to the exhibition and welcome reception.

**1-Day registration** includes access to those items for the specified day and one copy of Proceedings.

**Additional luncheon tickets** can be purchased for USD 50 per day.
Register by 20 January and save USD 100 on member or nonmember conference registration. Register at www.spe.org/go/15HFTCReg.

SPE accepts American Express, Visa, MasterCard, and Diners Club credit cards.

Refund Deadline
SPE must receive cancellation/refund requests in writing by 20 January. Cancellations received after 20 January will not be refunded.

Send cancellation requests to fracturing@experient-inc.com, by fax to +1.301.694.5124 (international) or 888.772.1888 (domestic), or to:

Attn: Hydraulic Fracturing Conference
c/o Experient
5202 Presidents Court, Suite 310
Frederick, MD 21703 USA

Questions?
Tel:+1.866.229.3691
International: +1.301.694.5243
Email: fracturing@experient-inc.com

Not an SPE Member?
Sign up for SPE membership when you register, and save money by paying the lower member registration fee.

Badge Information
New this year: Conference registrants will be allowed one free badge reprint. A fee of USD 20 will be charged for additional badge reprints.

Housing Information
Hotel rooms at the conference venue, The Woodlands Waterway Marriott, are sold out. For more information on overflow hotels, visit www.spe.org/go/HFTCTravel.

Additional rooms are being held at the three hotels listed below; please note the rates and cut-off dates. An early morning and late evening shuttle will be provided at these hotels. When calling, please reference the SPE Hydraulic Fracturing Technology Conference to receive the conference rate.

Springhill Suites by Marriott 16520 I-45 South
The Woodlands, Texas 77384
Ph: +1.936.271.0051
Book by 16 January for a rate of USD 219 per night.

Hilton Garden Inn Houston/The Woodlands
9301 Six Pines Drive
Houston, Texas 77380
Ph: +1.281.364.9300
Book by 16 January for a rate of USD 239 per night.

Hyatt Place Houston/The Woodlands
1909 Research Forest Drive
The Woodlands, Texas, USA, 77380
Ph: +1.281.298.4600
Book by 1 January for a rate of USD 229 per night.

Travel Information
The Woodlands Waterway Marriott Hotel and Convention Center
1601 Lake Robbins Drive
The Woodlands, Texas, USA, 77380
Phone: +1.281.637.9797

Directions to Venue
The Woodlands Waterway Marriott Hotel is located 27 miles north of downtown Houston and 20 minutes from George Bush Intercontinental Airport.

From Houston Intercontinental (IAH): approximately 21 miles
When exiting from the airport, take the Hardy Toll Road North. This will merge with I-45. Exit at Woodlands Parkway. At the second traffic light, Six Pines Drive, turn right. At the second traffic light, Lake Robbins Drive, turn right. The hotel is on the right.

From Houston/William P. Hobby (HOU): approximately 45 miles
When exiting from the airport, follow the signs for I-45 North. Take I-45 North for approximately 35 miles. Exit at Woodlands Parkway. At the second traffic light, Six Pines Drive, turn right. At the second traffic light, Lake Robbins Drive, turn right. The hotel is on the right.
Thank You to Our Sponsors! (as of 4 December)

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Surefire

Conference & Conference Lanyard Sponsor

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Baker Hughes

Titanium, Conference Bag, & Banner Sponsor

Tuesday Night Reception Sponsor

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Ferus

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Contact the sales team to find out how you can exhibit at this event!

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mhoekstra@spe.org

Joan Payne  
Exhibition Sales Manager, Americas  
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jpayne@spe.org
Exhibitors (as of 4 December)

Allied-Horizontal Wireline Services FracKnowledge
Ametek Chandler Engineering Fractech Engineering
Atlas Resin Proppants LLC Fractech, Ltd.
Baker Hughes Freemyer Industrial Pressure LP
Barree & Associates, LLC Freudenberg Oil & Gas Technologies
Berthold Technologies FTS International Services, LLC.
Brookfield Engineering Laboratories GeoMechanics Technologies
Brown Book Shop, Inc. GoFrac LLC
C&J Energy Services Inc. Grabner Instruments
Calfrac Well Services Grace Instrument
CARBO Halliburton
CESI Chemical Hart Energy
Chandler Engineering Hi-Crush Proppants LLC
Computer Modelling Group Ltd. Hoover Container Solutions
CRS Proppants, LLC. Imerys Oilfield Solutions
Cudd Energy Services Indepth Production Solutions
Cudd Well Control Interra Energy Services, Ltd.
Economy Polymers & Chemicals IMaGE
Eirich Machines, Inc. J & J Technical Services, LLC
ESG Solutions Keane Group LLC
Fairmount Minerals Ltd. Kemira
Fairmount Santrol Lambent Technologies
Fluid Imaging Technologies Inc. Liberty Oilfield Services
Foremost Industries LP Magnablend
Exhibitors (as of 4 December)

MicroSeismic, Inc.
Mobil Industrial Lubricants
Modern Water
National Oilwell Varco
NCS Multistage
NSI Technologies
OFI Testing Equipment, Inc.
Oxane, LLC
Packers Plus Energy Services
Peak Completions
Petrolab Company
Praxair Inc.
Precision Additives, Inc.
Prop Tester, Inc.
ProTechnics, Div of Core Laboratories
Rockwater Energy Solutions
Saint-Gobain Oil & Gas Group
Saltel Industries
Schlumberger
Scientific Analytical Institute, Inc.
SERVAgroup
Sierra Dust Control
Sierra Frac Sand, LLC
Sintex Minerals & Services, Inc.
SNF Oil & Gas
Society of Petroleum Engineers
Sonneborn, LLC
Stewart & Stevenson
Surefire Industries, LLC
TBC-Brinadd
Team Oil Tools
Tejas Tubular Products, Inc.
TEK USA COMPOSITES
Teledyne Isco
Tendeka, Inc.
Tracerco
Trican Well Service
U.S. Silica Co.
Unimin Corporation
Vantage Specialty Chemicals
Valtek Industries
Virgin Technologies, Inc.
Wacker Chemical Corporation
Weatherford
World Oil