Dear Colleague,

On behalf of the Society of Petroleum Engineers (SPE) and the International Association for Energy Economics (IAEE), I welcome you to one of the most respected events for professionals involved in the economics and evaluation of hydrocarbons.

With this year’s theme of “Fundamental Drivers, Commodity Cycles, and the Dynamics of Oil and Gas Valuation,” we have prepared an excellent technical program for you to gain actionable insights and new perspectives that you can apply immediately in your workplace.

We have a special Opening Keynote Session with John Schiller, President and CEO, Energy XXI. There will also be a Keynote Luncheon Presentation by Scott Nyquist, Director, McKinsey & Company; and an Ethics Presentation by 2016 SPE President Nathan Meehan, Baker Hughes.

This year’s exhibition showcases the latest in new products and software from leading-edge industry suppliers. Join us at the welcome reception on Tuesday night.

In addition to the comprehensive technical program, there will be a post-event training course so attendees can gain in-depth knowledge on selected topics related to hydrocarbon economics and evaluation processes.

I hope you take advantage of all the learning and networking opportunities.

Enjoy the symposium!

Sincerely,

Program Co-Chairpersons

Jim Wicklund
Credit-Suisse (SPE)

Ken Medlock,
Rice University (IAEE)
Thank You to Our Sponsors!

3esi • Enersight

About the Society of Petroleum Engineers
SPE is a not-for-profit professional association whose more than 168,000 members in 144 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.

About the International Association for Energy Economics
IAEE is a not-for-profit professional association specializing in the field of energy economics. IAEE publications, conferences, and array of products and services serve over 4400 members worldwide. Visit www.iaee.org to learn more.

Income from this event will be invested back into SPE and IAEE to support many other Society programs. When you attend an SPE and IAEE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence.

Program Committee

**PROGRAM CO-CHAIRPERSONS**

**James Wicklund**
Co-Chairperson (SPE)
Credit-Suisse

**Ken Medlock**
Co-Chairperson (IAEE)
Rice University

**COMMITTEE MEMBERS**

**Saad Agha**
Nexen Petroleum

**Dan Diluzio**
Shell

**Jerry Eumont**
Houlihan Lockey

**Antonio Fernandez**
Jefferies LLC

**Jennifer Fitzgerald**
Anadarko

**John Lee**
Texas A&M University

**Ted Loch-Temezelides**
Rice University

**Steve McCants**
Retired

**Scott Rees**
Netherland, Sewell & Associates, Inc.

**John Ritter**
Occidental Petroleum

**Rawdon Seager**
Gaffney, Cline & Associates, Inc.

**Bernard Seiller**
Total S.A.

**Rod Sidle**
Sidle Consulting

**Tim Smith**
Don Ray George & Associates

**Thad Toups**
Haas Petroleum Engineering Service, Inc.

**Shree Vikas**
ConocoPhillips

**Emma Wild**
KPMG LLP

Stay Social  📲  📱  📩
REGISTRATION HOURS
Symposium registration will be available at the Royal Sonesta Houston in the Legends Ballroom Foyer
Monday, 16 May ..........1400-1800
(Symposium Registration)
Tuesday, 17 May ..........0700-1700
Wednesday, 18 May ....0700-1530
Thursday, 19 May ........0700-0800
(Training Course Only
Champions I Foyer)

SPEAKER CHECK-IN HOURS
Speakers are requested to report to the speaker check-in room at least 30 minutes prior to the start of the session. Speaker check-in and speaker ready are available in the Founders IV.
Monday, 16 May ..........1400-1800
Tuesday, 17 May ..........0700-1700
Wednesday, 18 May ....0700-0800

EXHIBITION
The exhibition is located in Legends Ballroom IV-VII and open to symposium registrants on Tuesday and Wednesday.

EXHIBITION HOURS
Tuesday, 17 May ..........0930–1830
Wednesday, 18 May ....0930-1330

TUESDAY KEYNOTE AND WEDNESDAY NETWORKING LUNCHEONS
Attended lunch will be provided on Tuesday and Wednesday from 1200 to 1300 for lunch and 1300-1330 for dessert in Legends Ballroom IV-VII. Lunch is included in the full registration price. Additional tickets may be purchased on-site at the registration area the Keynote Luncheon is USD 45 and the Networking Luncheon is USD 30 .

WELCOME RECEPTION
We invite you to the welcome reception with complimentary drinks and hors d’oeuvres, scheduled from 1700 to 1830 hours in the exhibition. All registration types include access to the reception.

CONSENT TO USE OF PHOTOGRAPHIC IMAGES
Attendance at or participation in SPE and IAEE events and other activities constitutes an agreement by the registrant to SPE and IAEE’s use and distribution of the registrant’s image or voice in promoting future SPE and IAEE events in any way SPE and IAEE deem appropriate.

COPYRIGHT INFORMATION
All conference sessions are protected by US copyright laws. Photography and audiovisual recording of any kind are strictly prohibited in the sessions.

PROCEEDINGS
One copy of the proceedings is included in the full conference registration fee.

SYMPOSIUM SURVEY
A questionnaire will be distributed on Wednesday. Please take the time to fill out the survey as your opinion helps us continue to grow and make the next event even better.

SAFETY IN HOUSTON
When traveling, as in any major city, certain precautions are necessary. Always keep your valuables out of sight and safely stored in a hotel safe deposit box. In the event of a lost or stolen room key card, notify hotel management as soon as possible. Also, travel in a group and plan your itinerary before leaving the hotel.

PARKING
The Royal Sonesta Hotel has a 550 space self-parking garage available for hotel guests. There is no free parking in the Galleria area and vehicles parked in unauthorized areas are subject to being towed at the owner’s expense.
On-site self-parking: 3+ hours: USD 16.
Valet Parking 3+ hours: USD 21.
Overnight Guest Valet Parking: USD 28.
### Schedule at Glance (As of 20 April 2016 | Subject to Change)

<table>
<thead>
<tr>
<th>TUESDAY, 17 MAY</th>
<th>FOUNDERS BALLROOM I-III</th>
<th>LEGENDS BALLROOM I-III</th>
<th>LEGENDS BALLROOM IV-VII</th>
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<tbody>
<tr>
<td>0800–0850</td>
<td>Ethics Presentation: Fifty Shades of Ethics and the Petroleum Engineer</td>
<td>Knowledge Sharing ePosters / Coffee Break</td>
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<tr>
<td>0900–1000</td>
<td>Panel: Current Trends on Reserve and Resource Valuation in Mergers, Acquisition and Divestitures</td>
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<tr>
<td>1000–1030</td>
<td>Technical Session: Unconventional Evaluation: Shale Gas and Oil I</td>
<td>Technical Session: Critical Issues and Market Dynamics</td>
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<tr>
<td>1330–1500</td>
<td>Technical Session: Critical Issues and Market Dynamics</td>
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<td>Welcome Reception</td>
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<td>1500–1530</td>
<td>Knowledge Sharing ePosters / Coffee Break</td>
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<tr>
<td>1530–1700</td>
<td>Technical Session: Price and Cost Environment and Forecasting</td>
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<tr>
<td>1700–1830</td>
<td>Welcome Reception</td>
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<tr>
<th>WEDNESDAY, 18 MAY</th>
<th>FOUNDERS BALLROOM I-III</th>
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<tbody>
<tr>
<td>1000–1030</td>
<td>Technical Session: Reserves and Resource Evaluation I</td>
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<td>Networking Luncheon and Dessert/Coffee</td>
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<tr>
<td>1030–1200</td>
<td>Technical Session: Reserves and Resource Evaluation II</td>
<td>Knowledge Sharing ePosters / Coffee Break</td>
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<td>1200–1330</td>
<td>Knowledge Sharing ePosters / Coffee Break</td>
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<td>1330–1500</td>
<td>Technical Session: Portfolio Management: Evolution of Economics, Risk and Decision Making II</td>
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<tr>
<td>1500–1530</td>
<td>Closing Session</td>
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<td>1530–1630</td>
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<th>THURSDAY, 19 MAY</th>
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<tr>
<td>0800–1700</td>
<td>Training Course: Project Risk, Uncertainty and Decision Analysis</td>
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<th>FRIDAY, 20 MAY</th>
<th>CHAMPIONS I</th>
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<tr>
<td>0800–1700</td>
<td>Training Course: Project Risk, Uncertainty and Decision Analysis (Day 2)</td>
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</table>
SPE/IAEE Hydrocarbon Economics and Evaluation Symposium

Special Events (As of 20 April 2016 | Subject to Change)

TRAINING COURSES

THURSDAY AND FRIDAY | 19–20 MAY 2016 | 0800–1700

Project Risk, Uncertainty and Decision Analysis
Instructors: James Gouveia, Mark A. McLane, Rose and Associates
Attendees will learn to apply risk and uncertainty management principles to decision quality analysis in the development of oil and gas reserves. On the first day, we set the background with statistics and probabilities, estimating under uncertainty and probabilistic reserves estimation principles. The second day features ways to determine the chance of geological and commercial success, and the use of decision trees to assess the value of new information.

KEYNOTE LUNCHEON:

TUESDAY | 17 MAY 2016 | 1200–1330
Corporate Strategy Across the Cycle
Speaker Scott Nyquist, Director, McKinsey & Company
The oil and gas industry structure is very familiar, being comprised of NOCs, majors, and independents. But a close look reveals that each of these subsets have evolved substantially over the cycle, and most recently with the emergence of shale gas and light tight oil.

Technical Program (As of 20 April 2016 | Subject to Change)

TUESDAY | 17 MAY 2016

0800–0850
P01 | Opening Keynote
FOUNDERS BALLROOM I-III
“Energy XXI: Building a Successful Pure-Play GOM Shelf Producer”
Since its inception in 2005, Energy XXI’s mantra has been to acquire and exploit mature fields on the GOM Shelf, ultimately consummating seven major acquisitions to become the largest publicly listed player in its peer group. Founder, President and CEO John Schiller, Jr. discusses the evolution of that strategy.
Keynote Speaker: John Schiller, Energy XXI

0900–1000
P02 | Fifty Shades of Ethics and the Petroleum Engineer
FOUNDERS BALLROOM I-III
As engineers we hold ethical behavior to be essential. Ethical quandaries range from black and white to shades of gray. In this ethics presentation, suitable for annual certification, practical examples of real world challenges are presented and discussed.
Speaker: Nathan Meehan, SPE President and Baker Hughes

1030–1200
P03 | Current Trends on Reserve and Resource Valuation in Mergers, Acquisition and Divestitures
FOUNDERS BALLROOM I-III
The severity and pace of the current down-cycle has forced a number of operators, banks and private equity groups to have different views of both property values and critical variables that are used in those valuations. In recent times, there have been more casualties and opportunities than seen in decades. This panel will discuss current trends in who has the money, who has the property and what its worth to all sides.
Moderator: James Wicklund, Credit Suisse
Panelists: Emma Wild, KPMG LLP; Thad Toups, Haas Petroleum Engineering Services Inc.; William Marko, Jefferies & Co.
### TUESDAY | 17 MAY 2016 | 1330–1500

#### T01 | Unconventional Evaluation: Shale Gas and Oil I

**FOUNDERS BALLROOM I-III**

This session offers a robust line-up including forecasting methods in volatile oil reservoirs, integration of key geological and technological parameters to understand production forecasting, and trend analysis.

Session Chairpersons: **Jerry Eumont**, Houlihan Lokey; **Antonio Fernandez**, Jefferies LLC

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<thead>
<tr>
<th>Time</th>
<th>Paper</th>
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<tbody>
<tr>
<td>1330</td>
<td>Forecasting Production of Shale Volatile Oil Reservoirs Using Simple Models</td>
<td>I. Makinde, W.J. Lee, University of Houston</td>
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<tr>
<td>1400</td>
<td>What Factors Control Shale Gas Production Decline Trend: A Comprehensive Analysis and Investigation</td>
<td>H. Wang, The University of Texas at Austin</td>
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<tr>
<td>1430</td>
<td>Simultaneous Solution for Ultimate Recovery, Original Hydrocarbon in Place, and Permeability From Production Data Analysis With Application to the Eagle Ford Shale</td>
<td>N.D. Hussain, A.M. Al Khamees, J.G. Callard, D. Devegowda, University of Oklahoma</td>
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<th>Time</th>
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<tbody>
<tr>
<td>1500</td>
<td>Geologic and Dynamic Indicators Offering a Reliable Technology Paradigm to Reserve and Resource Estimation in Unconventional Oil Plays</td>
<td>G.D. Vassiliellis, E. Elrafie, Repsol USA</td>
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</table>

#### T02 | Critical Issues and Market Dynamics

**LEGENDS BALLROOM I-III**

This session addresses recent developments in the supply of hydrocarbons. These involve a complex interplay between economic factors, including sources of capital, global prices, and contracts, as well as advancements in technologies related to shale exploration and to accurate reserve assessments, and forecasts.

Session Chairpersons: **Ted Loch-Temzelides**, Rice University; **Bernard Seiller**, Total S.A.

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1330</td>
<td>The Consequences of New Sources of Capital for the Oil and Gas Sector</td>
<td>E.J. Wild, M. Andrews, N. Wansbury, J. Crudgington, KPMG LLP</td>
</tr>
<tr>
<td>1400</td>
<td>Impacts of Price Differentials, Taxation, and Costs on Shale Gas Drilling: A Case Study of Marcellus Shale Play</td>
<td>S. Ikonnikova, G. Gulen, J. Browning, Bureau of Economic Geology</td>
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<tr>
<td>1430</td>
<td>Evolution of Shale Production in a Time of Turbulence</td>
<td>C. Cui, K. Galvin, M. Meyet, M. Mozur, Gaffney, Cline &amp; Associates</td>
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<tr>
<td>1515</td>
<td>Optimized Exploration Planning</td>
<td>M.J. Back, Schlumberger Integrated Solutions</td>
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</table>
### Technical Program (As of 20 April 2016 | Subject to Change)

**TUESDAY | 17 MAY 2016 | 1530–1700**

**T03 | Unconventional Evaluation: Shale Gas and Oil II**

**FOUNDERS BALLROOM I-III**

This session offers a robust line-up including forecasting methods in volatile oil reservoirs, integration of key geological and technological parameters to understand production forecasting, and how to choose the optimal appraisal strategy. This distinguished group will be from academia, research and from the exploration and production sector.

Session Chairpersons: Jennifer Fitzgerald, Anadarko Petroleum Corp, Steven McCants, Retired

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<tr>
<td>1530</td>
<td>Production Forecasting in Shale Volatile Oil Reservoirs</td>
<td>I. Makinde, W.J. Lee, University of Houston</td>
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<tr>
<td>1600</td>
<td>Understanding Shale Resource Production: What Are the Key Variables?</td>
<td>S. Ikonnikova, Bureau of Economic Geology; E. Vankov, Rice University; G. Gulen, J. Browning, Bureau of Economic Geology</td>
</tr>
<tr>
<td>1630</td>
<td>Maximising the Value of Unconventional Reservoirs by Choosing the Optimal Appraisal Strategy</td>
<td>B.J. Willigers, BG Group-GTC; R.B. Bratvold, University of Stavanger; J. Bickel, The University of Texas At Austin</td>
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<tbody>
<tr>
<td>1015</td>
<td>Data Mining and Analysis - Eagle Ford Formation, South Texas</td>
<td>D.H. Romero, CPQ Energy; S.W. Poston, Texas A&amp;M University</td>
</tr>
<tr>
<td>1000</td>
<td>“Trust, but Verify”: Maximizing Bluefield Value by Challenging the Engineering Assumptions</td>
<td>D. Surovtsev, S. Miklashevich, M. Komin, C. Meulengracht, Schlumberger</td>
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**TUESDAY | 17 MAY 2016 | 1530–1700**

**T04 | Price and Cost Environment and Forecasting**

**LEGENDS BALLROOM I-III**

Papers in this session will discuss enhanced opportunities made possible by new government regulations in Mexico, the economic sensitivity of major unconventional resources in the United States to recent lower prices, and an analysis of finding and development costs and their impact on break-even prices among active shale producers in the United States. These discussions will be supplemented by examinations of the impact of operational timing on unconventional resource economics, global supply and demand dynamics, and price volatility on the oilfield services sector.

Session Chairpersons: John Lee, Texas A&M University, Thad Toups, Haas Petroleum Engineering Services Inc.

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<tr>
<td>1530</td>
<td>The Effect of Costs and Efficiencies on the Economic Viability and Resiliency of Production From Unconventional Reservoirs</td>
<td>S. Ozkan, Ponderosa Advisors, LLC</td>
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<tr>
<td>1600</td>
<td>Mexico's Initiatives to Increase Oil Production and Its Effect on North America Oil Production Outlook</td>
<td>R. Suarez, University of Calgary; A. Valdes, Jones Day (New York); F.J. Pacheco Roman, University of Calgary; F. Pams Ortiz Rubio, Jones Day (Houston)</td>
</tr>
<tr>
<td>1630</td>
<td>The Impact of Changing Operational Activities on Unconventional Resource Extraction</td>
<td>B.V. Cherian, Sanjel; E.S. Stacey, S. Bressler, Petro-hunt LLC; S. Chisler, Petro-hunt, LLC; R. Rifia, K. Kublik, Sanjel; S. Narasimhan, MetaRock Laboratories; J. Gray, O. Olaoye, M. Atkinson, Sanjel</td>
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<tr>
<td>1015</td>
<td>Analysis of Supply and Demand Dynamics to Predict Oil Market Trends: A Case Study of 2015 Price Data</td>
<td>M. Rafieisakhaei, Texas A&amp;M University; B. Barazandeh, Virginia Tech; M. Tarrahi, Shell Global Solutions</td>
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<tr>
<td>1000</td>
<td>Financial Impact of Price Volatility on the Oilfield Services Sector of the Petroleum Industry</td>
<td>A. Michael, The University of Texas at Austin</td>
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WEDNESDAY | 18 MAY 2016 | 0830–1000


**FOUNDERS BALLROOM I-III**

Representatives from the PRMS sponsor organization, VP reserve from major oil and gas companies together with government oil and gas regulators, have been assembled to share their viewpoints on the latest status of the SPE Petroleum Resource Management System (PRMS) update together with industry and regulatory views on both the benefits and challenges encountered today. The SPE Oil and Gas Reserves Committee together with its sister societies AAPG, SEG, WPC, and SPEE that sponsor the PRMS are in the process of updating the original version published in 2007. Several topical issues have been identified that are planned to be clarified to improve the PRMS application in the industry. Panelists from the sister societies will initially present the latest PRMS update status together with select topical industry discussion points. Regulators and oil company representatives will present the benefits and challenges they have experienced and provide their insight into the industry’s perception and focus improvement areas for consideration.

Moderator: **Dan Diluzio**, Shell


WEDNESDAY | 18 MAY 2016 | 1030–1200

**T05 | Reserves and Resource Evaluation I**

**LEGENDS BALLROOM I-III**

Evaluation typically requires the forecasting of future oil and gas production and, thus, the estimation of reserves. This is important for both business decision-making and regulatory disclosures. The key factors of forecasting methodology and associated forecasting uncertainties are examined in these sessions.


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<th>Time</th>
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<tr>
<td>1030</td>
<td>An Update on Demonstrating “Reliable Technology” - Where Are We Now?</td>
<td>R.E. Sidle, Consultant; J. Lee, Texas A&amp;M University</td>
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<tr>
<td>1100</td>
<td>Estimation of Unconventional Well Recoveries and Economics From Transient Flow Data</td>
<td>J.P. Seidle, L.S. O’Connor, MHA Petroleum Consultants Inc</td>
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<tr>
<td>2330</td>
<td>The Practice of Decline Curve Analysis</td>
<td>D.C. Purvis, Consultant</td>
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<tr>
<td>1500</td>
<td>Detecting and Removing Outliers in Production Data to Enhance Production Forecasting</td>
<td>N.L. Chaudhary, University of Houston; W.J. Lee, Texas A&amp;M University</td>
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Technical Program  (As of 20 April 2016 | Subject to Change)

WEDNESDAY | 18 MAY 2016 | 1030–1200

T06 | Portfolio Management: Evolution of Economics, Risk and Decision Making I

FOUNDERS BALLROOM I-III

This session explores methods and approaches for analyzing, assessing and managing the impact of commodity cycle and risk on valuation of E&P firms. Attendees will learn practical perspectives on portfolio management techniques to better balance risk against performance to enable sound investment decisions.

Session Chairpersons: Shree Vikas, ConocoPhillips Co; Scott Rees, Netherland, Sewell & Associates Inc

1030 179987  Analyzing the Effect of Debt on the Equity Valuation of Oil and Gas Producers in the Current Commodity Price Cycle
M.K. Devashish, Citigroup

1100 179972  Comparing The Results of an Exploration Portfolio Optimized Using Utility Theory Versus the Kelly Criterion
J. MacKay, Rose & Associates; G.P. Citron, P. Carragher, Rose & Associates, LLP

1130 179969  Solutions to 5 Strategic Issues Plaguing Executives in 2015-2016: Solving the Right Problems with Portfolio Management
J.I. Howell, L. Warren, 3esi-Enersight

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1500 179971  Comprehensively Valuing an Asset – How a Holistic Value Approach Aligns With Specific Corporate Goals
C. Capps, 3esi-Enersight; D.S. Jones, Chesapeake Energy Corp.

1515 179954  Valuation of Prospective Resources - A Portfolio Approach
E.J. Jankowski, A. Kirchin, RPS Energy

1000 179955  Apply Two-way Cluster Analysis to Select Candidate Reservoir Models From Multiple Realizations
J. Fei, J. Yarus, R. Chambers, Halliburton

Technical Program  (As of 20 April 2016 | Subject to Change)

WEDNESDAY | 18 MAY 2016 | 1330–1500

T07 | Reserves and Resource Evaluation II

LEGENDS BALLROOM I-III

Evaluation typically requires the forecasting of future oil and gas production and, thus, the estimation of reserves. This is important for both business decision-making and regulatory disclosures. The key factors of forecasting methodology and associated forecasting uncertainties are examined in these sessions.

Session Chairpersons: Rodney Sidle, Sidle Consulting, John Ritter, Occidental Petroleum Corp.

1330 179959  An Enhanced Method to Correct Rate Data for Variations in Bottom-Hole Pressure
N.L. Chaudhary, University of Houston; W.J. Lee, Texas A&M University

1400 179992  Uncertainty in Proved Reserves Estimates by Decline Curve Analysis
W. Apiwatcharoenkul, L.W. Lake, The University of Texas At Austin; J.L. Jensen, University of Calgary

1430 179997  A Strategy for Low Cost Development of Incremental Oil in Legacy Reservoirs
E.D. Attanasi, US Geological Survey

ALTERNATE

1015 179953  Probabilistic Reserves Assessment and Evaluation of Sandstone Reservoir in the Anadarko Basin
W. Ampomah, R.S. Balch, H. Chen, D. Gunda, M. Cather, New Mexico Tech
### Technical Program (As of 20 April 2016 | Subject to Change)

**WEDNESDAY | 18 MAY 2016 | 1330–1500**

#### T08 | Portfolio Management: Evolution of Economics, Risk and Decision Making II

**FOUNDERS BALLROOM I-III**

The session will take a close look at the key elements that drive successful portfolio management strategies in today’s challenging environment. Methodologies to assess evaluations and account for uncertainties and risk are vital in today’s world to survive together with credible evaluation parameters. The papers in the session will exploit a number of aspects that we can learn from in delivering a sustainable business and managing a portfolio.

**Session Chairpersons:** Emma Wild, KPMG LLP; Daniel Diluzio, Shell International Ltd.

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<td>1330</td>
<td>Unconventional Risk and Uncertainty: Show Me What Success Looks Like</td>
<td>D.S. Fulford, Apache Corp.</td>
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<td>1400</td>
<td>Integrating Planning, Financial and Economic Data - Closing the Integrity Gap</td>
<td>D. Trivino, N. Lazarde, E. Rincon, L. Uribe, Schlumberger; I. Leon, Ecopetrol; C. Batlle, 3esi</td>
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<tr>
<td>1430</td>
<td>An Investigation into Uncertainty Correlation in Resource Plays</td>
<td>J.R. DuBois, 3esi-Enersight; W. Dunn, PPCLOAN; J.P. Strother, University of Texas at Austin</td>
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<th>Time</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>1000</td>
<td>How Corporate-Level Economics Enables Expected Value Thinking</td>
<td>A.T. Adejumo, S. Queen, Halliburton; B. Gama, Palantir Solutions; O.R. Germain, Halliburton</td>
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<tr>
<td>1015</td>
<td>Screening, Assessing, and Sorting Chinese Oilfields for CO₂-EOR Suitability and Potential Economic and Social Benefits</td>
<td>X. Meng, SINOPEC Research Institute of Petroleum Exploration and Production; H. Zhou, SINOPEC Research Institute of Petroleum Engineering; D. Luo, China University Of Petroleum China Beijing</td>
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<tr>
<td>1515</td>
<td>Evolution of Uncertainty Methods in Decline Curve Analysis</td>
<td>D.C. Purvis, Consultant; H.A. Kuzma, BetaZi LLC</td>
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### Technical Program (As of 20 April 2016 | Subject to Change)

**WEDNESDAY | 18 MAY 2016 | 1530-1630**

#### P01 | Closing Session

**FOUNDERS BALLROOM I-III**

Join program committee co-chairpersons Jim Wicklund, SPE and Ken Medlock, IAEE for a final discussion on the economics of oil and gas exploration and production. Jim and Ken will address the theme, “Fundamental Drivers, Commodity Cycles, and the Dynamics of Oil and Gas Valuation”, and review how relate to current trends.

**Speakers:** Kenneth B. Medlock, Rice University Program Committee Co-Chairperson (IAEE)
James K. Wicklund, Credit Suisse Program Committee Co-Chairperson (SPE)

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Papers are also available at OnePetro®, a multisociety online library of technical literature for the E&P industry, with contributions from 18 publishing partners, that provides access to over 160,000 items.
## Knowledge Sharing ePoster Schedule

All Knowledge Sharing ePosters will be located Legends Ballroom Foyer.

### TUESDAY | 17 MAY 2016

**Coffee Break/Knowledge Sharing ePosters**

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<thead>
<tr>
<th>Time</th>
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<tr>
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<td></td>
<td><strong>STATION 1</strong></td>
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<tr>
<td>1000-1015</td>
<td>179961</td>
<td>“Trust, but Verify”: Maximizing Bluefield Value by Challenging the Engineering Assumptions&lt;br&gt;D. Surovtsev, S. Miklashevich, M. Komin, C. Meulengracht, Schlumberger</td>
</tr>
<tr>
<td>1015-1030</td>
<td>179976</td>
<td>Analysis of Supply and Demand Dynamics to Predict Oil Market Trends: A Case Study of 2015 Price Data&lt;br&gt;M. Rafieisakhaei, Texas A&amp;M University; B. Barazandeh, Virginia Tech; M. Tarrahi, Shell Global Solutions</td>
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<tr>
<td>1515-1530</td>
<td>179951</td>
<td>Optimized Exploration Planning&lt;br&gt;M.J. Back, Schlumberger Integrated Solutions</td>
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### WEDNESDAY | 18 MAY 2016

**Coffee Break/Knowledge Sharing ePosters**

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<td><strong>STATION 1</strong></td>
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<tr>
<td>1000-1015</td>
<td>179955</td>
<td>Apply Two-way Cluster Analysis to Select Candidate Reservoir Models from Multiple Realizations&lt;br&gt;J. Fei, J. Yarus, R. Chambers, Halliburton</td>
</tr>
<tr>
<td>1500-1515</td>
<td>179958</td>
<td>Detecting and Removing Outliers in Production Data to Enhance Production Forecasting&lt;br&gt;N.L. Chaudhary, University of Houston; W.J. Lee, Texas A&amp;M University</td>
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<tr>
<td>1515-1530</td>
<td>179980</td>
<td>Evolution of Uncertainty Methods in Decline Curve Analysis&lt;br&gt;D.C. Purvis, Consultant; H.A. Kuzma, BetaZi LLC</td>
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  - 2:00 pm - 2:30 pm: Integrating Planning, Financial and Economic Data - Closing the Integrity Gap
  - 2:30 pm - 3:00 pm: An Investigation into Uncertainty Correlation in Resource Plays
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