



SPE Colloquium on Petroleum Engineering Education

2–4 August 2010 • Marina Del Rey, California

The Society of Petroleum Engineers and the Association Heads of US Petroleum Engineering Schools invite you to participate in the 2010 SPE Colloquium on Petroleum Engineering Education.

Important issues for the industry as it strives to obtain the high quality professionals needed to conquer tomorrow's technical and social challenges will be discussed.

The colloquium provides an opportunity for representatives from industry, government, and academia to work together to build a stronger educational experience for petroleum engineers, leading to meaningful contributions to the industry.

Strong representation by industry (including members of university/industry advisory committees), petroleum engineering faculty, and government will promote concrete outcomes from the event.

OBJECTIVES

The 2010 PTE Colloquium, with participation by faculty of PTE schools, industry leaders and professionals, will focus on several key areas affecting the training of next generation petroleum engineers and geoscientists. There is a need for creative solutions to complex recovery issues of mature oil and gas fields in the US, effective development of unconventional resources, and development of digitally-enhanced asset management and recovery optimization in deep water and other challenging reservoirs.

First and foremost is the analysis of evolving trends in financing for academic training of geoscientist and petroleum engineering research scientists and the research base of the young faculty. These are individuals who can help to innovate and improve the self sufficiency of US in terms of its domestic resources.

Infusion of information technology is overhauling many industries including the petroleum industry. The colloquium will examine some of the breakthroughs in digital, audio, and video communication that have opened up new avenues to equip the schools with virtual access to field operation as well as sharing resources and seminars among schools.

The next focus area in this colloquium will be the curricular changes that need to be introduced at the US and international schools to enhance the training of digital petroleum engineers.

Furthermore, there will be a critical overview of effective ways to address the graying of PTE faculty across the US and potential solutions to recruit new faculty into academia.

PARTICIPANTS

All those concerned with recruiting petroleum engineers and geoscientists who are equipped to tackle the challenges facing the energy industry will be interested in attending and contributing to the outcome of this colloquium.

The planning committee seeks equal representation from industry and educational institutions. Organizations are encouraged to send individuals with a range of industry and academic experiences who will bring their perspectives and ideas on petroleum engineering education and lifelong learning to the discussion.

TECHNICAL AGENDA

Monday, 2 August

Marina Vista, The Ritz-Carlton

- 0700 Continental Breakfast at the Marina Vista Veranda
- 0730 Registration at the Marina Vista Foyer
- 0830–1000 Welcome: The National Academy of Engineering Grand Challenges Summit
Yannis Yortsos, Dean for USC Viterbi School of Engineering
- Evolving the Global Energy System: Implications for Engineering Research and Education
Don Paul, USC Energy Institute
- Adding Value to Engineering Graduates through IT Skill Competencies
Cindy Reece, ExxonMobil Technical Computing Company
- 1015–1200 Session A: Funding for Oil and Gas Research
- I. RPSEA Funding and University Research
James Pappas, Research Project to Secure Energy in America (RPSEA)
ACS and Other Research Funding for Young Faculty
Paul Willhite, University of Kansas
 - II. Perceptions About Petroleum Engineering Research at Universities
 - Training the Well-Rounded Petroleum Engineers, Tad Patzek, UT Austin
 - Industrial Consortia Research - University of Tulsa Perspective, Mohan Kelkar, University of Tulsa
 - Applied Research vs. Basic Research, Turgay Ertekin, Penn State
- 1215–1330 Lunch at The Ballroom Terrace
Petroleum Engineering in the Greenhouse: Meeting the CO2 Challenge
Lynn Orr, Stanford University
- 1345–1445 Session B: Industry's Need for Digital Petroleum Engineers
Jim Crompton and Mike Hauser, Chevron
Presentations and discussion in this session will focus on the changing expectations for petroleum engineers and geoscientists over the last three decades and how the digital oil field/integrated operations era presents further change. Both academia and corporate organizations have to attract, develop, and engage this new generation of digital upstream oil company professionals.
- 1500–1600 Session C: Faculty Hiring Needs and Evolving Shortages and Sharing Resources
Lloyd Heinze, Texas Tech; Bob Chase, Marietta College; and Susan Howes, Chevron

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Tuesday, 3 August

Morning: University of Southern California Afternoon: The Hotel

- 0700 Continental Breakfast at the Marina Vista
- 0730 Board Bus in front of The Hotel
- 0830–1000 Session D
- I. Distance and Virtual Education
Carolyn Suckow, Student Affairs Director for USC
 - II. Virtual Operations in Classrooms via Innovative Digital Technologies:
Opportunities and Challenges in Introducing New Methods to Train and
Develop Petro-Technical Professionals Internally and Externally
Najib Abusalbi, Director of University Collaboration, Schlumberger Reservoir
Characterization; Elie Daher, VP and Managing Director, NExT; and Mirta
Leon, Education Services Manager, Schlumberger Information Solutions
- 1000 Break
- 1015–1145 Session E: Collaborative Ways to Share Seminars and Lectures Among Schools
Fred Aminzadeh, USC and Shari Dunn-Norman, Missouri University of Science and
Technology
- 1200 Board Bus to The Hotel
- 1230–1830 Recreation/Networking
- 1830 Buffet Dinner at the Marina Vista
- 1930–2100 Session F: Training Needs for Graduating Digital Petroleum Engineers
- I. Live Webcast/Interaction with Select International Schools
 - II. The Competency Matrix/ Implementation
Discussion Leaders: Iraj Ershaghi, USC; Andy Flowers, Halliburton; and
Philippe Flichy, IO-hub

Wednesday, 4 August

Marina Vista, The Ritz-Carlton

- 0730 Continental Breakfast at the Marina Vista Veranda
- 0800 Digital Communication/ Video Communication: Exhibitors Display
- 0830–1000 Session G: Discussions, Colloquium Summary, and Next Steps
Susan Howes, Chevron Corporation
- Recommendation to SPE/Schools/ABET
Lloyd Heinze, Texas Tech University and Robert Chase, Marietta College; Kashy
Aminian, West Virginia University
- 1030 Adjourn
- 1200–1600 The Education & Accreditation Committee and PTE Department Head Meeting at the
Hotel

Colloquium Planning Committee & Speakers

Iraj Ershaghi, USC – Coordinator

Fred Aminzadeh, USC

Kamel Bennaceur, Schlumberger

Robert Chase, Marietta College

Jim Crompton, Chevron Corporation

Shari Dunn-Norman, Missouri Univ. of S&T

Philippe Flichy IO-hub

Andy Flowers, Halliburton

Lloyd Heinze, Texas Tech University

C. Susan Howes, Chevron Corporation

Mohan Kelkar, University of Tulsa

Anthony Kovseck, Stanford University

Tad Patzek, University of Texas

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