



New York and New England Petroleum Section News

Society of Petroleum Engineering

Winter 2013

From the chair



Dear NYNE Petroleum
Section Members,

As 2013 comes to a close, I want to take a moment and wish you happy New Year. Building on the momentum we carried from 2012, we had started the year 2013 with aggressive goals. Looking back over the year now, I'm proud to report that the year 2013 has been a year of many firsts and success for SPE-NYNE.

One of the main challenges for our section has been the expansion of our membership base. In 2013, we had record enrollments and increased our member base by 100 new members reaching to a total number of 477, thanks to our student events at Yale University and MIT as well as joint social event with YPE at Harpoon Brewery in 2013. We will continue seeking collaborations with YPE and schools in the region for joint events in the future.

Encouraged by the success of Yale event in March 2013, we pursued MIT-Energy Club to co-organize a symposium at MIT. On Oct 11, 2013, we held a ½-day symposium at MIT to introduce the opportunities and the challenges in oil and gas industry for students and faculty at MIT, and professionals in the industry. The event was

very successful and well attended both at student and professional levels.

We are proud to announce the establishment of SPE-MIT student chapter, which is one of the first in the entire New York-New England region. MIT-SPE NYNE event was successful thanks to the support of our new MIT-SPE student chapter.

Aside from the academic and technical events, we had a joint social event with Boston YPE at Harpoon Brewery in Boston. The event gave opportunities for SPE-NYNE and YPE members to meet and network with professionals from different industries.

And last but not the least, we continued to host regular SPE-DL presentations. I am happy to announce that the presentation on "Hydraulic Fracturing Myths, Reality and Environmental Stewardship through Better Chemistry" by D. J. Daulton has been rescheduled for February in 2014.

Above events would not have been possible without your help and encouragements. I would like to thank you for your continuing support and participation.

Best wishes to all for a happy, healthy and prosperous year 2014.

Bilgin Altundas
Schlumberger

Events in 2013

Harpoon YPE Event

In August SPE-NYNE teamed up with Young Professionals in Energy's (YPE) Boston Chapter to host a social and networking event at Harpoon Brewery in downtown Boston. Attendees were treated to a private tour of the Harpoon facility



Before the tour, SPE-NYNE and YPE members get to know each other

including a firsthand look at the brewing and bottling process. This successful event brought together over 50 energy industry professionals and introduced the two organizations to each other. SPE-NYNE members had the chance to interact with the broader energy community, outside of the



Attendees don safety glasses while on the brewery floor and listen attentively to the friendly Harpoon tour guide

petroleum industry, and got to meet individuals involved with sustainable and renewable resources, science and energy educators, and even lawyers with a focus on

the energy industry. We hope to continue collaborating with YPE in the future by co-hosting additional events and advertising of events that are of interest to the two organizations in both YPE and SPE-NYNE forums.

Symposium at MIT: The Oil and Gas Industry and You!

Cambridge, Massachusetts, October 11, 2013

Members of the New York and New England SPE Section in addition to the newly formed MIT student chapter of SPE with the collaboration of the MIT Energy Club hosted a symposium on "Hydrocarbon Exploration, Production, and Environmental Impacts". Throughout the course of the afternoon, talks were given on the above topics by industry leaders, MIT faculty, and distinguished speakers across the industry; followed by an open panel Q&A session. The symposium was promoted to SPE members, MIT students and faculty, and professionals in the industry.

More than 50 participants were engaged in lectures relating to all aspects of the upstream oil and gas industry, in addition to important environmental concerns. The goal of the symposium, while directed toward students and young professionals interested in a career in oil and gas, was to provide information and understanding of the industry from a broad point of view and allow interested participants to communicate questions or concerns regarding the industry through a panel session composed of the distinguished lecturers toward the end of the symposium.

Links to information regarding the symposium are located on the website <<http://>

[//goo.gl/4rrUd7](http://goo.gl/4rrUd7)>. A special thanks goes out to the speakers that made this event a success; Prof. Toksoz (MIT), Michael Fehler (MIT Earth Resources Laboratory), John Karanikas (Shell), Ali Dogru (Saudi Aramco), Bob Kleinberg (Schlumberger), and Diane Sanzone (Battelle).



Distinguished lecturers participating in the Q&A panel session



John Karanikas lecture on "Reservoir Engineering and Production"



SPE and MIT Energy Club organizers of the symposium



Symposium Participants including students, faculty, and industry professionals at MIT

SPE-MIT Student Chapter

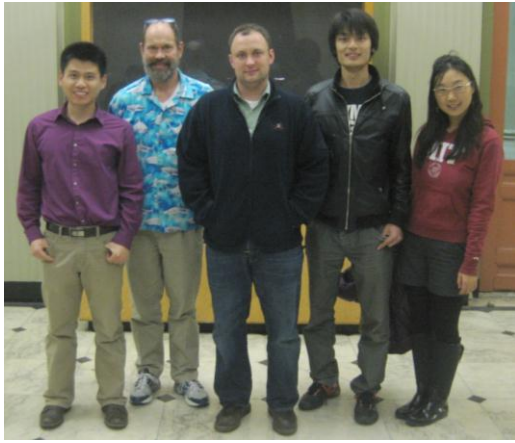
We are excited to announce the formal establishment of the SPE-MIT student chapter in October 2013, which is one of the first SPE student chapters in the New York-New England region!

Scope of Mission

The SPE-MIT student chapter focuses on promoting the understanding and interaction with the Oil & Gas industry among the students. The chapter seeks to organize events within SPE with the guidance and help from the local SPE-NYNE section, or co-organize events with other Energy-related organizations around the campus. Example events include invited lectures, symposium, mixers, and field trips. Ultimately, we hope to offer the students opportunities where they can gain a better perspective of the Oil and Gas industry, and help them to identify their interests in related areas.

Board

The chapter receives faculty advisory from Prof. Alexander H Slocum in the Department of Mechanical Engineering at MIT, and guidance from SPE-NYNE section committee. Currently the chapter has 35 active student members with a fast-growing



From left to right: Xiaoxiang Zhu, Prof. Alexander H Slocum, Benjamin Druecke, Yi Ding, and Lu Yang.

size. The first elections of chapter officers are:

- President, Xiaoxiang Zhu, PhD student in the Department of Chemical Engineering, MIT
- VP, Lu Yang, PhD student in the Department of Chemical Engineering, MIT
- Secretary, Yi Ding, PhD student in the Department of Material Science and Engineering, MIT
- Treasurer, Benjamin Druecke, PhD student in the Department of Mechanical Engineering, MIT

For questions regarding SPE-MIT student chapter, please direct them to zhuxx@mit.edu

We encourage and help other schools in the region to start their own student chapters. One example of this is UMass Amherst. Manuel Galvez of UMass Amherst has reached out to the New York and New England section of SPE for help in creating a student chapter at his University. We are currently collaborating with Manuel and several faculty advisors and department heads with this goal in mind.

Membership Update

There are currently 477 members in the NYNE Section of SPE. Out of these, 100 are new members who joined our Section in 2013. The membership increase for this year comes from the states of MA (41), NY (29), NJ (15), CT (6), NH (3), and Other (6).

The NYNE Section is one of the oldest sections of SPE, and indeed we have a wide distribution of members in terms of when they joined SPE. About half (232) of our members joined SPE in the years prior to 2010 and about half have joined SPE since 2010. Among the members who joined before 2010, we have 20 members in the category of Legion of Honor, and these are individuals who been members for more than 50 years. Additionally, we have 65 members who have been members for more than 25 years.

On behalf of our Section, we would like to welcome the new members and we are looking forward to increased participation from our members in our meetings and activities.

Upcoming SPE-NYNE Events

Arctic Petroleum Resources: Basis for Petroleum Activities in the 21st Century by Prof. Anatoly Zolotukhin, Deputy Chancellor on International Affairs, Gubkin Russian State University of Oil and Gas

Cambridge, Massachusetts, Feb 5, 2014



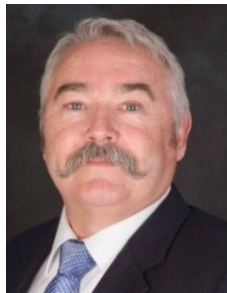
The Arctic continental shelf is believed to be the area with the highest unexplored potential for oil and gas. Despite a common view that the Arctic has plentiful

hydrocarbon resources, there are ongoing debates regarding the potential of this region as a future energy supply base. Driving forces for such discussions are geopolitics, environmental concern, assessment and delineation of Arctic resources, technology available for their successful development, and the market demand for energy supply. This lecture examines the future role of the Arctic region in addressing the evolving energy demands.

Hydraulic Fracturing Myths, Reality and Environmental Stewardship through Better Chemistry by Daniel J. Daulton, Baker Hughes

Cambridge, Massachusetts, Feb 27, 2014

Education is the secret to overcoming preconceived notions, prejudice and general lack of knowledge. Our industry must share its technical accomplishments, concern for environmental stewardship and process of continuous improvement. This demonstrates



our commitment to responsibly development and supply of energy needs to a global economy.

Addressed are common concerns related to stimulation, focusing primarily on hydraulic fracturing fluid chemistries used in routine completion and stimulation operations of oil and gas wells.

Three part message: 1) responsible oil and gas development begins with proper well construction and zonal isolation, 2) continued chemical development with a focus on reducing environmental, human and physical hazards, 3) education and

openness are important to our industry and public perception.

Development of Mature Oil Fields: Enhanced Oil Recovery Option by Tayfun Babadagli by Prof. Tayfun Babadagli, University of Alberta

Cambridge, Massachusetts, Mar 20, 2014



With the decrease in the possibility of discovering new giant oil fields, mature fields become critically important for meeting future oil demands. Special attention is required for identifying the proper diagnostic techniques to determine the reason for and the location of the unrecovered oil and prudential reservoir management techniques for economically viable redevelopment applications. In this lecture, after discussing the methods to estimate the amount and location of the residual oil, attention will be given to the most widely applied enhanced oil recovery methods to develop mature fields-primarily chemical and immiscible/miscible gas injection. After reviewing mid- and late-stage development options using these methods, proper reservoir management strategies for different size companies will be discussed.

Member Spotlight

Alyssa Charsky, YP & Internet Chairperson



Alyssa Charsky is a Research Engineer and Experimentalist in the Petro Labs at Schlumberger - Doll Research in Cambridge, MA. She received her BA in Geology from Colby College in 2009. In her current position she is responsible for the

processing, analysis and interpretation of dual-range Fourier transform infrared spectroscopy (DRFT-IR) mineralogy data in support of Schlumberger's elemental spectroscopy Wireline tools. Additionally, she is a co-developer of DRIFTS for rapid quantification of mineralogy and kerogen on cuttings or core, a technology targeted at the unconventional market.

Outside of her research responsibilities, she enjoys leading tours of the Mineralogy lab, volunteering at the Schlumberger booths during local career fairs and baking for her coworkers. Alyssa currently serves as the Young Professionals Chair and Internet Chair of the New York and New England Section of SPE.

Matthew Godfrey, Student Chairperson



Matthew is a graduate of Texas A&M University with both Bachelor's and Master's degrees in Mechanical Engineering. He has been working on the design of Deep Water Liner Hanger systems in

the field of completions technology with Smith International for 3 years before moving into research at the Schlumberger-Doll Research (SDR) facility in Cambridge, MA. He has been at SDR for 2 years and is working on a variety of projects relating to new technology in the fields of hydrofracturing, formation measurement, and multi-zone isolation and stimulation.

Matthew recently joined the SPE NYNE chapter as the student chair and has since aided in the formation of the MIT student chapter creation and recent symposium held at MIT's campus. We want to thank

Matthew for his recent work within the chapter and ongoing success in future SPE events.

Upcoming SPE events

Fifth Annual AAPG-SPE Deep Water Reservoirs Geosciences Technology Workshop, 28-29 Jan 2014, Houston, TX

Hydraulic Fracturing Technology Conference, 4-6 Feb, 2014, Woodlands, TX

SPE Production Chemistry and Chemical Systems, 18 – 19 Feb 2014, Austin, TX

Numerical Modeling in Unconventional Reservoirs, 23–28 Feb, 2014, Newport Beach, CA

International Symposium and Exhibition on Formation Damage Control, 26-28 Feb 2014, Lafayette, LA

IADC/SPE Drilling Conference and Exhibition, 4 - 6 Mar 2014, Fort Worth, TX

SPE/AAPG/SEG Pore Pressure Workshop, 11-12 Mar 2014, San Antonio, TX

SPE Worst Case Discharge Summit, 17 - 18 Mar 2014, New Orleans, LO

SPE International Conference on Health, Safety, and Environment, 17 - 19 Mar 2014, Long Beach, CA

Coiled Tubing and Well Intervention Conference and Exhibition, 25 - 26 Mar 2014, Woodlands, Texas

Slugging It Out, 1 Apr 2014, Calgary, Alberta

Board Members

Bilgin Altundas (baltundas@slb.com)

William Bailey (wbailey@slb.com)

Alyssa Charsky (acharsky@slb.com)

Deepak Datye (deepak.datye@3ds.com)

David Donohue (ddonohue@ihrc.com)

Matthew Godfrey (mgodfrey01@slb.com)

John McArdle (mcardlejcm@gmail.com)

Jim Stevens (jdstevens@optima-tech.com)

Daniel Tilmont (dan.tilmont@atk.com)

Announcements

John McArdle has joined the SPE-NYNE board as Scholarship Chairperson.

We still have open positions in the board. If you are interested in joining the board or want to nominate a friend, please contact us.



www.connect.spe.org/NewYorkandNewEnglandPetroleum