

# UNCONVENTIONAL

## DEPARTMENT OF PETROLEUM ENGINEERING QUARTERLY NEWSLETTER

December 2019

Issue IV

### New Field Scale Drilling & Completion Labs

We are grateful to Mr. Sidney Green, the CEO and President of Enhanced Production, Inc. a Utah corporation, and the past President/CEO of TerraTek in Salt Lake City, a well known engineering firm that was acquired by Schlumberger in 2006. He donated field scale drilling and completion equipment of TerraTek that he purchased from Schlumberger when they decided to move their labs from Utah. The equipment is now in a new 17,000 sq.ft. space in Grand Forks where we are starting to set up and make them operational. This new facility will bring great opportunities for collaborative research projects, industry training, and educational use. More updates will be given in the near future.



Mr. Green visited the Department on November 20 and presented a talk about the history of the lab and some of its applications. Also, Mr. Alan Black, the former general manager of TerraTek's Drilling and Completion Laboratory, visited the department Dec 7-9 to discuss the layout of the equipment in the new building and to present some of the capabilities of the equipment and what modifications can be done to extend their usage.



Sidney Green talking about the new lab capabilities

#### Faculty

- Dr. Vamegh Rasouli (Chair)
- Dr. Kegang Ling
- Dr. Hadi Jabbari
- Dr. Minou Rabiei
- Dr. Hui Pu
- Mrs. Bailey Bubach
- Dr. Aldjia Boualam Djezzar

#### Admin Assistant

- Ms. Sarah Bowser

#### Adjunct Faculty

- Jin Zhijun  
President of SINOPEC E&P Research Institute
- Dr. Thomas Gentzis  
Senior Geoscientist at Core Laboratories
- John Harju  
Vice President for Strategic Partnerships, EERC
- Charles Gorecki, CEO, EERC
- John Hamling  
Principal Engineer, EERC
- Larry Pekot  
Principal Engineer and Reservoir Engineering Group Lead, EERC

### PE Hosts Industry Presentations at UND

The following presentations were hosted by Petroleum Engineering this semester. Three sessions were recorded to allow everyone to view the information at their convenience (links below). Thank you to all of our speakers for contributing their knowledge.

- Geochemical Techniques for the Assessment of Liquid-Rich Unconventional Plays (LRU) and Shale-Gas Resource Plays – Dr. Thomas Gentzis, Dr. Humberto Carvajal-Ortiz
- [Advancements in Enhanced Oil Recovery in the Bakken](#) – Charlie Gorecki
- [Laboratory Drilling and Completions Research](#) – Sidney Green
- [History and Highlights: Experience at TerraTek](#) – Alan Black



## Williston Basin Field Trip, October 13-18

On October 13, 11 students and two employees braved the post-blizzard weather and traveled to Williston for the annual field trip. Special thanks to Josh Rothe for coordinating the itinerary and to Halliburton for providing safety gear for the week. Students first traveled to TrainND for oilfield safety and had a chance to drive a tractor trailer. They then received a tour of Halliburton and a saltwater disposal site with EERC. Creedence Energy provided a production chemicals class and tour. Oasis, Marathon, and Hess provided safety training and site tours, including to a drilling rig, frac site, and gas plant. Neset Consulting provided a Bakken and geology overview. On Thursday, students attended the SPE reception with McCody Concrete and Schlumberger. Thank you to all who attended and who provided educational opportunities for the students. Please stay tuned for the announcement of the 2020 field trip.



*Driving a tractor trailer at TrainND*



*Tour of Neset Consulting*



*On site with Oasis*

## SPE Update

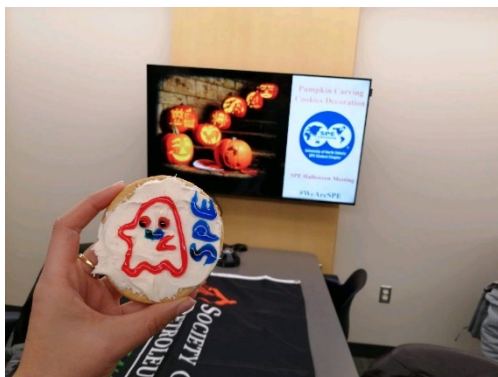
SPE has been actively organizing Lunch and Learns for our student chapter this fall and for the spring. At our October meeting, we also put on an event including cookie decorating and pumpkin carving for our members.

We have been busy forming a Petrobowl team for the SPE annual conference in February. Our team this year is comprised of undergrad and graduate students and they have been meeting weekly to practice since September. We have been working hard to get funds to sponsor them so they can be reimbursed for some of the cost.

Our Vice President, Lawand Gardi, is graduating this winter so we will be re-electing his position in January.



*Pumpkin carving and cookie decorating*



### Department Statistics

- 187 undergraduate students
- 20 Master students
- 32 PhD students
- 15 Visiting Scholars

### Upcoming Events

- Dec. 19-20: Commencement
- Dec. 25: Christmas Day
- January 1: New Year's Day
- January 13: First Day of Class
- January 20: M. L. King Jr. Day
- Jan. 23: Last Day to Drop/Add
- February 4: Career Expo
- February 17: Presidents Day
- March 16-20: Spring Break
- April 10-13: Holiday Break
- April 23-24: IAC Meeting
- April 23: IAC Banquet

### Contact (WE ARE HERE TO HELP!)


University of North Dakota, College of Engineering & Mines,  
Department of Petroleum Engineering

701.777.2533

2844 Campus Road  
Collaborative Energy Complex Room 113, Stop 8154  
Grand Forks, ND 58202-8154

Department Chair:  
Undergraduate Program Inquiry:  
Graduate Program Inquiry:

[vamegh.rasouli@UND.edu](mailto:vamegh.rasouli@UND.edu)  
[kegang.ling@UND.edu](mailto:kegang.ling@UND.edu)  
[hui.pu@UND.edu](mailto:hui.pu@UND.edu)

<https://engineering.und.edu/petroleum/>  
Follow our SPE Student Chapter at: <https://involvement.und.edu/organization/SPE>  
Find our College on Facebook: <https://www.facebook.com/UNDCEM>   
or on Twitter: <https://twitter.com/UNDCEM> 