SPE International
Dallas Section

Brookhaven College
DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

Introduction to Hydraulic Fracturing

Gerald Coulter and John Ely

June 6, 2013

Brookhaven College, Building H

9 lecture segments including:

Principles	Fluid Systems
Evaluation	Design
Proppants	Diagnostics
Rock Mechanics	Wellbore Construction

Recompletion & Fishing

HWO (Hydraulic WorkOver) CT & Snubbing

Continental breakfast

Opening Speaker: John Ely

Lunch: Keynote speaker: Gerald Coulter

Evening Social at location pending

Take Away:

SPE Thumb Drive

Note Pad with Pen

Limited seating available

Members $150 per person

Potential or Non-Member $175 per person

Before June 3, Late June 4-6 ($180):

Register and pay online

Contact: michael.tunstall@halliburton.com

Sponsorships

Hydraulic Fracturing Sponsorship Includes:

- Admission for one attendee
- Verbal recognition at all meetings
- Slide recognition all day and during breaks
- Recognition as a supporter of SPE – Dallas educational programs

Sponsorships available now - All this for only $300

Agenda – June 6, 2013

7:30 am	Registration / Breakfast	
8:30 am	Introductions	Mike Tunstall / Aaron Byrd / Danny Bell
8:40 am	Speaker One	John Ely - Ely Frac
9:20 am	Speaker Two	John Dees - Dees Consulting
10:00 am	Break	Snacks & Drinks in H 126
10:20 am	Speaker Three	Pat Handren - Denbury
11:00 am	Speaker Four	Terry Palisch - Carbo Ceramics
11:30 am	Lunch	Room H-126
12:20 pm	Speaker Five	Gerald Coulter - Coulter Energy
1:00 pm	Break	Snacks and Drinks in H-126
1:15 pm	Speaker Six	Robert Martinez Exco Resources
1:55 pm	Speaker Seven	William Handy – Baker Hughes
2:35 pm	Break	Snacks and Drinks
2:45 pm	Speaker Eight	Thurman Harrell Halliburton
3:20 pm	Speaker Nine	Gary Schein – Pioneer
4:00 pm	Offsite Social	Location pending

Lecture Topics – June 6

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Speaker 01 John Ely – Ely Frac

Fracturing fluids and additives, and the perception of harm on the environment

This high-level topic will cover a range of fracturing fluids and additives used in hydraulic fracturing and the benefit and purpose for the system and the application of each. It will give the attendee an overview of the basic logic behind fracturing fluid systems. This topic will also cover the perception of harm on the environment.

Speaker 02 John Dees – Dees Consulting

Geology and Wellbore Placement

This topic will cover geology and wellbore placement during the evaluation stage looking at the options for the completions either cemented or open hole. The competency of the formation and evaluation of the drilling in fluid used to ensure and minimize wellbore damage during drilling. It will describe the anticipate behavior of formations and rocks under In-situ and externally applied loading conditions.

Speaker 03 Pat Handren – Denbury Resources

Decision Tree

The decision tree will include logic about the overall completion. The logic and potential cost about fluid selection, proppant, volume and treatment schedule. This topic will highlight and delve into the factors that come into play when design and executing a well requiring hydraulic fracturing.

Speaker 04 Terry Palisch – Carbo Ceramics

Proppant Selections

Proppant materials are carefully sorted for size and roundness to provide an efficient conduit for production of fluid from the reservoir to the wellbore. This topic will discuss the logic used to when selecting the sized particles mixed with fracturing fluid that hold fractures open after a hydraulic fracturing treatment. This will explain the variety of materials like natural sand, man-made and engineered proppants. It will explain resin-coated sand and high-strength ceramic materials like sintered bauxite.

Lecture Topics – June 6

continued

Speaker 05 Lunch Speaker – Gerald Coulter

Hydraulic Fracturing - Thoughts on History and Innovations

The presentation will highlight some of the early history of fracturing, innovations along the way and what we have learned from them.

Speaker 06 Robert Martinez – Exco Resources

"Measuring Success (production, number of stages, lateral length, vertical, horizontal) and Re-Frac Potential"

What makes your frac a success? The topic will discuss the variety of decisions that are made before the stimulation and how that will apply to a successful hydraulic fracture job and the well in its performance after the stimulation. The will also cover what factors apply when considering re-fracing a well.

Speaker 07 William Handy - Baker Hughes

Recompletion, cleanout and fishing operations

This topic will discuss events that will lead up reduced production levels to working over the well for a recompletion that would include clean out, fishing operations and liner hanger or packer removal.

Speaker 08 Thurman Harrell Halliburton

HWO (Hydraulic WorkOver - Snubbing and Coil Tubing

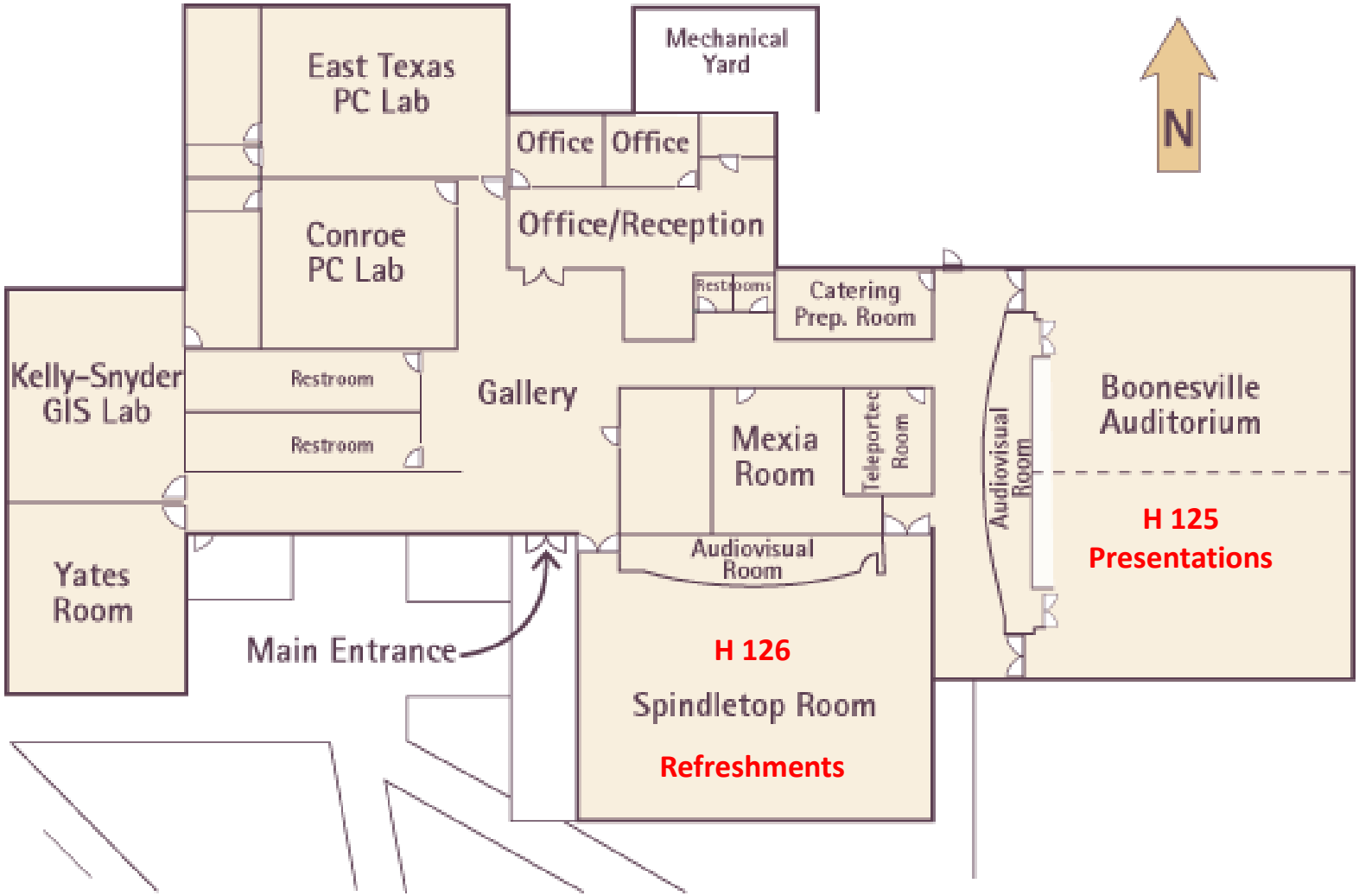
The topic will discuss the reason for selecting hydraulic work over, coil tubing or snubbing in frac and post frac scenarios. This will look at a decision tree for well control, drill up of plugs or baffle and flow back rate. It will discuss sand washing and fluid dynamics and equipment necessary. It will also look at safety and environmental concerns.

Speaker 09 Gary Schein – Pioneer Natural Resources

"Well Completions"

This topic will tie all the presentations together.

Building H


East Texas PC Lab
Mechanical Yard
Office
Office
Office/Reception
Conroe PC Lab
Restrooms
Catering Prep. Room
N
Kelly-Snyder GIS Lab
Restroom
Restroom
Gallery
Mexia Room
Teleportec Room
Audiovisual Room
Boonesville Auditorium
H 125
Presentations
Yates Room
Audiovisual Room
Main Entrance
H 126
Spindletop Room
Refreshments

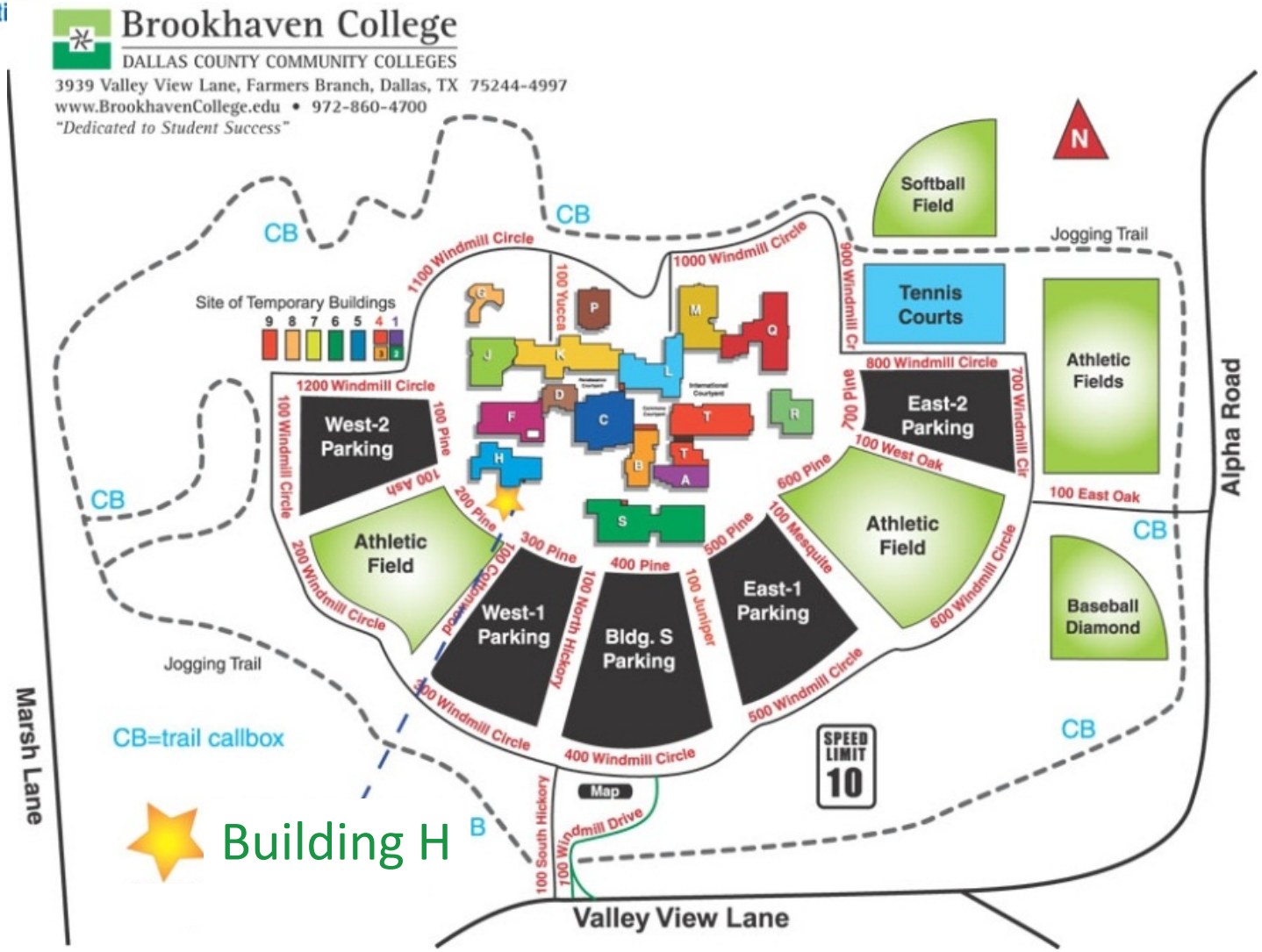
Directions

Brookhaven College:

Located at 3939 Valley View Lane just north of IH-635 (LBJ) between Marsh and Midway Roads in the city of Farmers Branch.

- Exit IH-635 onto Marsh Lane
- Travel north to Valley View Lane
- Turn east onto Valley View Lane
- The campus is on the north side of Valley View Lane
- Turn left into the campus at the first traffic signal past the water tower

Campus Map

Dallas Secti

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