Education Subcommittee Update

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K&M Technology Group
Schlumberger
Mission Statement

• ISCWSA Education Subcommittee is an advisory body dedicated to raising awareness of wellbore positioning practices and challenges within the drilling industry through workshops, webinars, eBooks, public lectures, and other media.
Agenda

• SPE Live
• Special Session Updates
• Drillbotics Competition (DSATS)
• PetroBowl
• Distinguished Lecture
• eBook Updates
• ISCWSA Course update and certification handing over
SPE Live

- Held on September 19th
- 30 minutes on Linkedin Channel and SPE stream
- David Gibson – Moderator
- John Hudson and Ross Lowdon – Speakers
- Around 80 attended online and with almost 400 views
- SPE live stream: https://streaming.spe.org/spe-live-pre-atce-how-to-drill-reservoir-sections-that-drive-life-cycle-value
ATCE Special Session

- Joint with DSATS
- Tuesday 4 October 2022,
- **Title:** How can we define a holistic set of common industry well parameters for reservoir sections that drive life cycle value?

- **Moderators:**
  - John Hudson, Shell & Ross Lowdon, SLB
- **Speakers:** Key Industry leaders covering
  - Completion: Vicky Nielsen, HESS
  - Drilling: Katie Mills, CoP
  - Reservoir: Shaid Haq, SLB
  - Subsurface: Rocky Mottadeh, UOGC
Student Awareness – How to Attract Young Generation

• Members to reach out to their universities (Tim Paton)
• How to raise awareness in high schools – even for geothermal
• Drillbotics
• PetroBowl
• SPE Student Chapters reach out (Benny Poedjono)
Drillbotics Competition
What is it?

- Drillbotics® is an international competition for universities to design and build a small drilling rig that uses sensors and control algorithms to autonomously drill a rock sample provided by SPE’s Drilling Systems Automation Technical Section (DSATS).
  - Group A will not require any rig construction; it requires a model of the rig, the well, and a directional drilling technique.
  - Group B will build and operate a physical rig.
- In the 2022 competition, there is a directional component that will require steering and surveying to hit specified X/Y target coordinates. Drilling system must be able to switch between steering modes (slide/rotate) and survey mode (on/off bottom) autonomously.
  - Calculating survey intervals & trajectory be automated.
  - DLS required to hit targets & distance/direction to plan automatically calculated at each survey station & shown on rig floor display.
Drillbotics Volunteers for ISCWSA

- **Competition Judges**
  - **Requirements:**
    - Judge (remote or in-person) both Group A & B competition performances in Houston (May 21) or Celle (June TBD)
    - Primary contribution is expected to be in directional requirement & surveying practices
  - **Time Commitment:**
    - Read & familiarize self with Drillbotics Guidelines (~1 hr)
    - Competition judging (1 day)

- **Volunteers**
  - David Gutierrez
  - Robert Estes
  - Timothy Paton
  - Harald Bolt

- **Documentary**
  - David Gibson

- **Requesting short videos on directional surveys**
  - Steps to take the surveys
  - Why drilling has to stop
  - What is the magnetic surveys and magnetic interference
PetroBowl

PetroBowl® Competition

The PetroBowl® competition matches SPE student chapter teams against one another in a fast-paced quiz competition covering technical and nontechnical aspects of the oil and gas industry.

https://www.spe.org/en/students/petrobowl/

• Connect with PetroBowl competition team to include questions on WBS (David Gutierrez)
• Questions are needed. Please submit your questions via the link

ISCWSA - PetroBowl Q&A Submittal
Distinguished Lecturer Program

Benny Poedjono

Good Practice in Well Control Intervention via Relief Well Subsurface Interception
eBooks Update

- ISCWSA hosting/copy right of eBooks
  - Introduction to WBP
  - Well Interception
  - Survey QC (Work-On-Progress)
- WBP eBook cover update (remove UHI)
- WBP eBook Web version is available
  - Online searchable
  - Easy access by any device
  - Allow readers to provide feedback
  - Track topic views, rating and searches
- eBook Well Interception possible transition to the web version

https://www.manula.com/manuals/iscwsa-ebook/iscwsa-ebook-introduction
eBooks Update

- Call for content updates eBook Introduction to WBS
  - Please contact: Prof. Angus at Angus.Jamieson@hptech.com or Mahmoud at Melgizawy@slb.com
- Possible to provide feedback directly on the web version

https://www.manula.com/manuals/iscwsa-ebook/iscwsa-ebook-introduction
Acknowledgement

• Education SC members are acknowledged for their participation and contribution to the SC activities

• 17 Participants in last meeting

• Carol Mann
• David Gibson
• Tim Paton
• Nancy Kenmogne
• Ryan Kirby
• David Gutierrez
• Mike Long
• Mark Fraser

• Will Lanigan
• Robert Estes
• Barry Smart
• Benny Peodjono
• John Hernandez
• Ben Hawkinson
• Nicholas Zachman
• Robert Wylie
ISCWSA Course Presentation
Update: ISCWSA Online Training Course

“Introduction to Wellbore Positioning”

Robert Wylie
6th October, 2022

xⁿDrilling, Inc
ISCWSA took over the ISCWSA eBook based “Introduction to Wellbore Positioning” training course from the UHI, and converted the course to run under a modern Learning Management System (edX) through the ISCWSA website.

It now includes a series of videos lectures, readings, problems, exercises, and simulation examples, with Continuous Assessment grading.

Registration for the course is through the iscwsa.net website, and it runs on an iscwsa.net Training Server.
Find the resources you need for better wellbore survey accuracy.

Industry Steering Committee on Wellbore Survey Accuracy (ISCWSA) produces, maintains, and publishes standards for the industry, promoting a collaborative understanding of issues associated with wellbore surveying.

ISCWSA ONLINE TRAINING COURSE

The ISCWSA is pleased to announce that the next “Introduction to Wellbore Positioning” online course is scheduled to start in March of 2022. Applications for enrollment are now being accepted.
The ISCWSA Wellbore Positioning Course

Starts Sep 2022
Applications are now being accepted.

This course is based on the ISCWSA free eBook "Introduction to Wellbore Positioning". Using a mixture of videos, training exercises, and self-study material, it covers subjects such as mapping, directional drilling, surveying, survey uncertainties, and high accuracy.

Course Benefits
- Industry recognized certificate
- Be more informed in your work
- Expert instructors
- Paced to fit working students

FAQs & Support Help
- How do I earn this courses certificate?
- How long do I keep the course?
- What daily hours are recommended?

What's in this course?
The course has 7 main teaching modules, in addition to introductions and reviews. It is expected that 2 modules will be completed every three weeks. Click on each "Week" Module to for an overview of what is included.
Course Features

- Easy Navigation
- Full video transcripts
- Progress tracking
- Variety of learning techniques
- Student interactions and discussion boards
- Practical exercises on useful topics
• Currently running the third group (cohort) of students through the course
• Cohort #1 ran from Sep 21 to Jan 22, with 11 of 17 graduating
  • A couple dropped back to cohort #2
• Cohort #2 ran from Feb 22 to June 22, with 10 of 14 graduating
• Cohort #3 starting in September and will run to December, with 23 students on 4 different continents
• Cohort #4 will start in January, and already has several students lining up
### Cohort #1

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