

Education Subcommittee Update

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Education SC Chairperson

Mahmoud ElGizawy



- K&M Technology Group, SLB
- PhD & MSc in Geomatics Engineering, U.of Calgary
- 25 years in positioning and navigation (20 years in wellbore positioning)
- Based in Bucharest, Romania







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.



Activities

Student Awareness

- Drillbotics Competition (DSATS)
- WPTS Directional Drilling Competition proposal
- PetroBowl
- Student Chapters Engagement

Educational

- eBook Update
- ISCWSA Course Update

Professional and Young Professional Awareness

- SPE Live and Webinars
- Distinguished Lecture
- Hits and Misses proposal target young professional
- ISCWSA Course Scholarship
- Reach out to all small service providers.

Recognition & Awards

 ISCWSA long time contributors to error models, CA and others

What is Drillbotics?

- 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) and Wellbore Position Technical Section (WPTS).
 - Group A Option 1 Generate a virtual model of the rig, the well, and a directional drilling technique.
 - Group A Option 2 Generate a simulator to detect and control a kick event.
 - Group B build and operate a physical rig.
- In the 2023 competition, there is a directional component that will require steering and surveying to hit specified X/Y target coordinates at designated vertical depths. 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

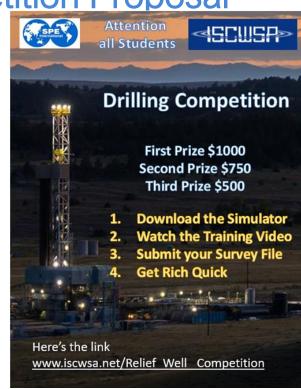


WPTS Directional Drilling Competition Proposal

- Target university students and professionals
- A challenge to hit the target using the directional drilling simulator
- May be add a well plan section?
- Possibly elimination rounds
- Consider school year
- Winner could get a free subscription to ISCWSA Meeting? \$\$?
- Might get corporate sponsors
- Volunteers: M. Elshabrawy Angus, M. Long, Tim, David and M. ElGlzawy

WPTS Directional Drilling Competition Proposal

- Meeting held on March 21th, 2024
- Proposal draft is completed
- Two Categories: Students and Professionals
- Students are eligible for the money prize
- All winners win ISCWSA registration to next meeting
- Relief well drilling exercise (S shape well)
- Announcement after ISCWSA 59th meeting
- Competition webpage needs to be developed
- Kick off the competition Sept 1st
- Sept 30th is deadline for submission
- Marking and ranking of winners in July
- Oct 31st winners announcement





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/petrobow//

- Connect with PetroBowl competition team to include questions on WBS
- Questions are needed. Please submit your questions via the link

ISCWSA - PetroBowl Q&A Submittal

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The PetroBowl is an international competition hosted by the SPE that pits student chapter teams against each other in a series of quick-fire Q&A rounds related to the Oil & Gas industry. This is a great opportunity for the ISCWSA to continue spreading the message of the importance of wellbore positioning.

Volunteer: Josh Albright

Student Chapters Engagement

- SPE student chapters (approx. 400 chapters).
- Connect with SPF
- Get them involved in some of our project. Help them in their thesis, credits..etc
- Volunteers: R. Kirby, Benny and M.Elshabrawy
- Meeting with the following SPE student's chapters:
 - UT Austin
 - Texas Tech
 - UT Permian basin
 - West Virginia
 - Texas A&M



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SPE Live

- Planned two Webinars and one SPE Live this year
- 01-May-2024 SPE Live
 - Industry Steering Committee on Wellbore Survey Accuracy
 - Hans (Speaker) and David Gibson (Moderator)
- 06 -May-2024 SPE Webinar
 - Using and Understanding Survey Error Models
 - Andy McGregor (Speaker) and David Gibson (Moderator)
- 28 Aug 2024 SPE Webinar
- Fundamentals of using Maps, Plots, Graphics & Reports on Directional Wells. Speaker: William Allan
- Where are they now? Principles of Wellbore Survey Data Management Everyone Should Know. Speaker: Stephen Grindrod



Distinguished Lecturer Program



Jonathan Lightfoot

Recommended Practice for Safe Separation, Surveying, and Wellbore Positioning

		Jonathan Lightfoot	3/20/2024
Thu Sep 05, 2024	11:00 AM	Alaska Section: Anchorage, Alaska	In Person
Mon Jan 13, 2025	2:00 PM	Beijing China Section: Beijing, Peoples Republic of China	In Person
Wed Jan 15, 2025		Philippine Section: Manila, Philippines	In Person
Thu Jan 16, 2025		Cambodia Section: Phnom Penh, Cambodia	In Person
Tue Mar 25, 2025		Evangeline Section: Lafayette, Louisiana	In Person
Thu Mar 27, 2025		Pittsburgh Section: Pittsburgh, Pennsylvania	In Person

Hits and Misses Proposal

- Consideration to re-offer hits and misses workshop
- 2.5 3 days workshop
- Delivered by industry SMEs on Wellbore Positioning
- Volunteers: Robert, Carol and Mahmoud
- Tentative Program
 - Introduction to WP
 - Directional database
 - Error models
 - Survey correction
 - Collision avoidance
 - Well interception and its applications

ISCWSA Course Scholarship Proposal

- Tuition Fee: \$1200
- Scholarship to take the course. Sponsored by ISCWSA
- Volunteers: Suzanne Hawkins and M. Long to receive applications and decide on the scholarship
- Selection Committee

- Name:
- Contact email:
- Location:
- Please give us an information about your background (Education, career..etc)
- · What is your current role and status?
- Why do you want to attend this course? What do you think you will gain from this course?
- Any previous exposure to wellbore positioning: college / MWD / directional drilling etc?
- What interests you about wellbore positioning?
- Why should we select you for this scholarship?
- The course is eight weeks (4-6 hrs / week) in duration.
 Are you able to devote the time required to complete the course?
- Scholarship recipient must complete the course
- We require the selected Candidate for this course scholarship to pay \$100 that will be refunded once you

Reach out to young professionals

Forward SPE WPTS/ISCWSA emails to one of your college



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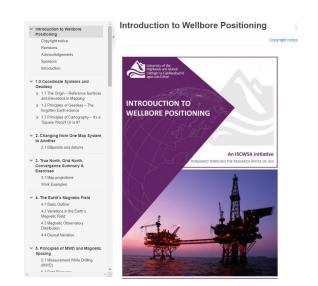


eBooks Update

Introduction to WBP

- New Revision
- Cover update (remove UHI) / new design
- WPTS AC Update
- Error model revisions rev5 update
- Considering a change to the title
- Angus and Mahmoud to separate Introductory materials and advanced material (move to appendices)
- WBP eBook Web version is available

- ISCWSA hosting/copy right of eBooks
 - Introduction to WBP
 - Well Interception
 - Survey QC (Work-On-Progress)





eBooks Update

- Call for content updates eBook Introduction to WBS
 - Please contact:

Prof. Angus at

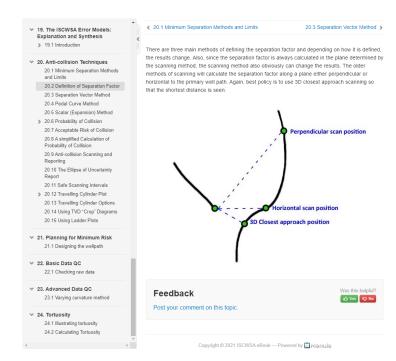
Angus.Jamieson@hpinc.com

or

Mahmoud at

Melgizawy@slb.com

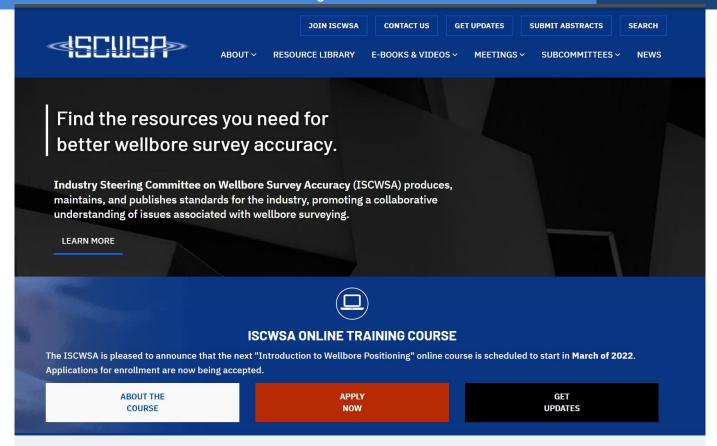
 Possible to provide feedback directly on the web version



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



The Industry Steering Committee on Wellbore Survey Accuracy (ISCWSA)





Recognition of contributor to ISCWSA (error models..etc)

- Add a new page "Hall of fame" to ISCWSA.net
- Add previously recognized distinguished members
- Benny has complied a list of contributors.

Acknowledgement

- Education SC members are acknowledged for their participation and contribution to the SC activities
- 15 Participants in last meeting

- o Carol Mann, DGI
- Ross Lowdon, SLB
- Abhijeet Sarkar, SDI
- Mark Fraser, SDI
- o Jamie Dorey, SDI
- Timothy Paton, SQC
- Matthew Weber, Shell
- Ryan Kirby, SQC

- Josh Albright, SQC
- David Gibson, Gibson Reports
- Sareddy Escobar, Cenovus
- Angus Jamieson, H&P
- Mike Long, Roundlab
- Benny Poedjono, Independent
- Robert Wylie, XnDrilling