

## MINUTES

### IADC Geothermal Committee Meeting, 10 September 2024

*Present at the meeting were:*

*Alex Vetsak, Eavor; Alexander Heger, ÖMV; Andrew Barry, Wild Well Control; Bill Krull, IADC; Bruce Gatherer, Iceland Drilling; Daria Ivakhnenko, Black Reiver; Dennis Breg, HP Well Screen; Eric Gonzalez, Thermaprime Drilling Corporation; Erik Roesen Larsen, Innargi; Francesco di Credico, BakerHughes; Francisco Porturas, Archer Geo; Gregory Walz, Clear Round Technology, LLC; Idris Ben-Fayed, Blade Energy; Issa Kalil, Altus Well Experts; Izwan Megat, Parker Wellbore; Joshua Gossanyi, Ormat; Kevin Gray, Black Reiver; Marco Köpsel, Vercana; Marcus Oesterberg, Ignis Energy; Mark Smith, OMV; Max Wyndham, 3Tglobal; Michael Strauss, Ensign Energy; Mitch Dzienkowski, Altiss Technologies; Oliver Tausch, RED Drilling; Oumer Tahir, Hunting International; Peter Kazar, ENOWA; Scott Farmer (Committee Chair), Helmerich & Payne; Shaun Toralde, Weatherford; Steve Nas, Wellspec; Tamas Csrefko, Nabors; Zander McDougall, Oil States Industries (UK) Ltd.; Lars Nydahl Jørgensen, IADC (minutes).  
In total 33.*

#### 1. Validation of MoM of the August 2024 meeting

There were no comments to the draft minutes.

#### 2. New Members

Issa Kalil of Altus Well Experts, Idris Ben-Fayed of Blade Energy, Mitch Dziekonski of Altiss Technologies, Marco Köpsel of Vercana, and Marcus Oesterberg of Ignis Energy were welcomed to the committee. In addition, a further number of members had joined, but were not present in today's meeting.

#### 3. Presentations, Abstracts and Meetings

Scott went through the near-term events that would be of particular interest to the committee:

20th September 2024, Budapest – Budapest Geothermal Energy Summit (Scott Farmer);  
9th October, Aberdeen – OEUK Wells Conference (Kevin Gray);  
27-30th October, Hawaii – Geothermal Rising (Shaun Toralde) and  
14th November, San Antonio – IADC AGM (Scott Farmer).

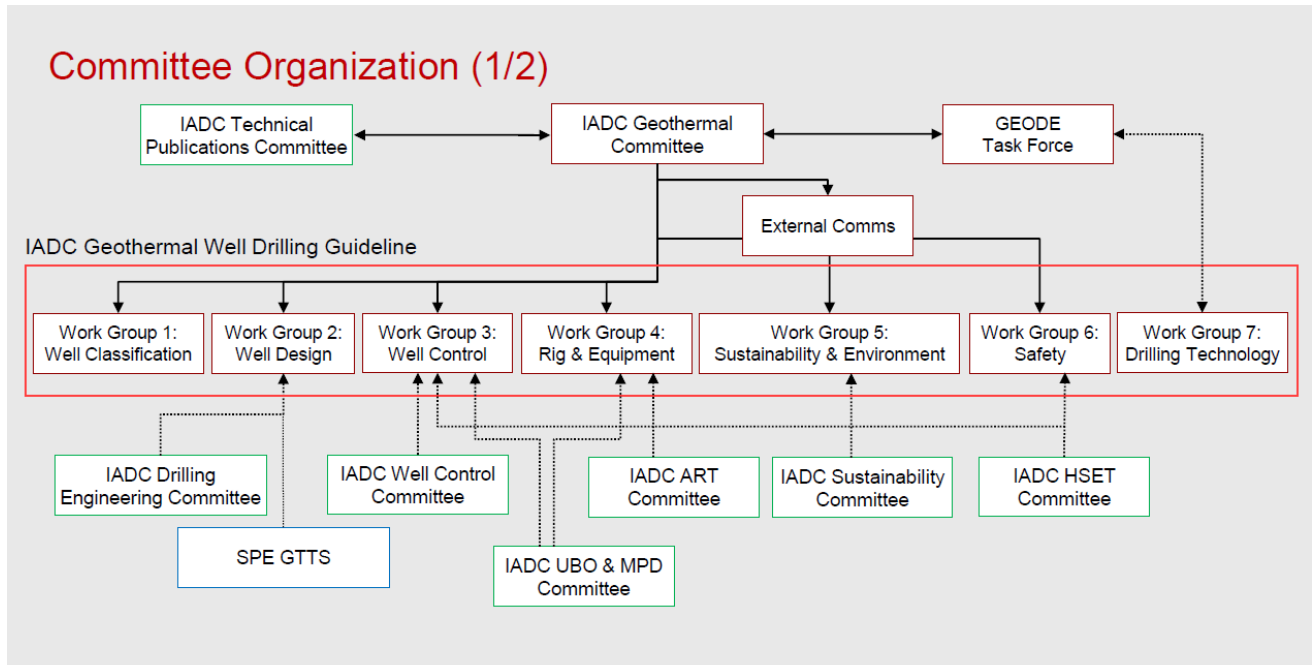
In addition, an abstract had been submitted for the GeoTHERM conference in February 2025 in Offenburg, Germany.

It was mentioned that IADC had entered into an agreement with the organisers of the Budapest Summit such that IADC would feature prominently at the event and in return we would advertise the summit among our members. This had already happened, not least with an article in "Drillbits".

Further, Scott reminded the meeting participants that the committee's November meeting would be a physical meeting (with a virtual option) and that this meeting would take place in Dubai.

#### 4. Committee Organization

The establishment of the work groups for the purpose of producing the Geothermal Well Drilling Guideline was now well under way, organised as follows:



Most of the work groups were well populated with a couple of exceptions.

### Committee Organization (2/2)

Classification	Well Design	Well Control	Rig & Equipment	Sustainability & Environment	Safety	Drilling Technology
Scott FARMER	Scott FARMER	Toney DEER	Andreas KARKOSSA	Erik LARSEN	Max WYNDHAM	Alex VETSAK
Lars NYDAHL	Alexander HEGER	Izwan MEGAT	Scott FARMER	...	Bill Krull	Tony PINK (GEODE)
Kevin GRAY	Steve NAS	Steve NAS	Bruce GATHERER		Bruce GATHERER	Marcus OESTERBERG
Daria IVAKHNENKO	Elliot HOWARD	Péter KAZAR	Tamas CSREFKO		...	Siya ROSTAMI
Bruce GATHERER	Joshua GOSSANYI	Elliot HOWARD	Alexa GONZALEZ		<b>External Comms</b> Lars NYDAHL Scott FARMER Shaun TORALDE Steve NAS Bill KRULL Kevin GRAY ...	Diana TRONCO
Alexander HEGER	Péter KAZAR	Joshua GOSSANYI	...			Gregg WALZ
Rafael WAGNER	Diana TRONCO	Max WYNDHAM				Mitch DZIEKONSKI
Steve NAS	Eric GONZALEZ	Bruce GATHERER				...
Shaun TORALDE	Oumer TAHIR	Alexa GONZALEZ				
Elliot HOWARD	Suri SURYANARAYANA	...				
Régis STUDER	Issa KALIL					
...	Niels van der WERFF					
	Dennis BREG					



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Scott encouraged committee members to come forward or to propose specialists from their own companies to fill gaps in the Sustainability & Environment and the Safety work groups.

### **5. Classification Update**

A meeting had been held in the team finalising the well classification. The work was nearing completion with full agreement on seven of eight parameters, The eighth parameter was “Design”, which had turned out to require some detailed consideration.

An Excel based tool is under development, which will help people classify their wells by plugging in various information. There was some discussion of whether this tool could be made a web tool publicly available on the committee’s website. It would undoubtedly attract many colleagues across the industry, and it would be a great instrument of promotion for IADC. (Post meeting note: the matter is now being discussed with IADC’s IT team).

### **6. GEODE – Rigs & Equipment SMEs**

The GEODE project is looking for subject matter experts for the “Rig & Equipment” task force. Companies are encouraged to nominate relevant individuals, which must be experts in their field. The time requirement will be up to 3 hours per week for 3.5 months.

The “Drilling Technology” task force under GEODE is headed by Tony Pink who is also member of the IADC Geothermal Committee. Tony will give the committee monthly updates, but had not been able to accommodate today’s meeting.

### **7. AOB**

There was nothing to be discussed under AOB.

/ Lars Nydahl Jørgensen



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Geothermal Committee  
General Meeting – 10/09/24

# Agenda

- Validation of MoM of the previous meeting
- New Members
- Presentations, Abstracts and Meetings
- Committee Organization
- Classification Update
- GEODE – Rigs & Equipment SMEs
- AOB

## New Members

- Issa Kalil – Altus Well Experts
- Niels van der Werff – Shell
- Laurens van der Sluijs – Shell
- David Vavasseur – SMP Drilling
- Idris Ben-Fayed – Blade Energy
- Suri Suryanarayana – Blade Energy/Mazama Energy
- Mitch Dziekonski – Altiss Technologies

69 members  
49 companies

# Presentations, Abstracts & Meetings

- Presentations:

- 20<sup>th</sup> September 2024, Budapest – Budapest Geothermal Energy Summit (Scott Farmer)
- 9<sup>th</sup> October, Aberdeen – OEUK Wells Conference (Kevin Gray)
- 27-30<sup>th</sup> October, Hawaii – Geothermal Rising (Shaun Toralde)
- 14<sup>th</sup> November, San Antonio – IADC AGM (Scott Farmer)

- Abstracts Submitted:

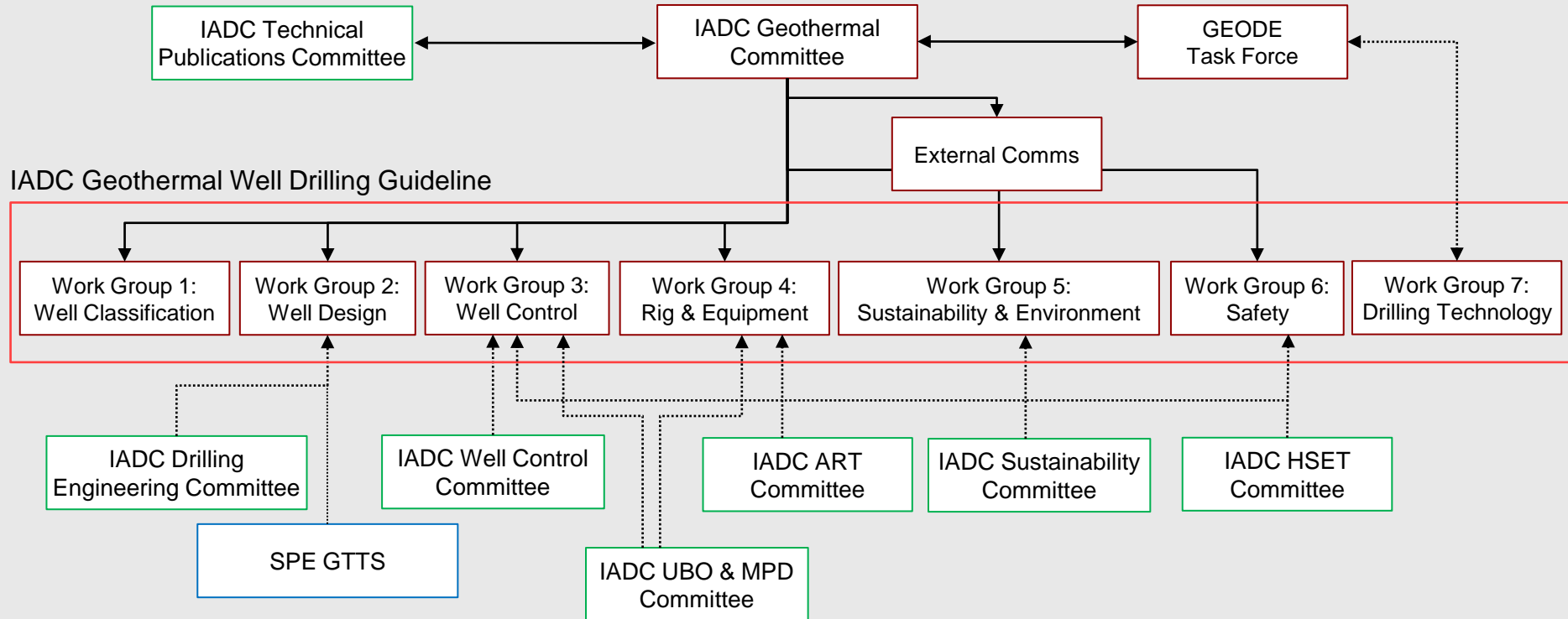
- 20-21st February 2025, Offenburg – GeoTHERM 2025

- Meetings:

- Special in-person meeting on 8<sup>th</sup> November in Dubai, coinciding with the local IADC chapter (Oumer Tahir)



# Committee Organization (1/2)





# Committee Organization (2/2)

Classification	Well Design	Well Control	Rig & Equipment	Sustainability & Environment	Safety	Drilling Technology
<b>Scott FARMER</b>	<b>Scott FARMER</b>	<b>Toney DEER</b>	Andreas KARKOSSA	Erik LARSEN	Max WYNDHAM	Alex VETSAK
Lars NYDAHL	<b>Alexander HEGER</b>	Izwan MEGAT	Scott FARMER	...	Bill Krull	Tony PINK (GEODE)
Kevin GRAY	Steve NAS	Steve NAS	Bruce GATHERER		Bruce GATHERER	Marcus OESTERBERG
Daria IVAKHNENKO	Elliot HOWARD	Péter KAZAR	Tamas CSREFKO		...	Siya ROSTAMI
Bruce GATHERER	Joshua GOSSANYI	Elliot HOWARD	Alexa GONZALEZ		<div style="background-color: #333; color: white; padding: 5px; text-align: center;">External Comms</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Lars NYDAHL</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Scott FARMER</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Shaun TORALDE</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Steve NAS</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Bill KRULL</div> <div style="background-color: #eee; padding: 5px; text-align: center;">Kevin GRAY</div> <div style="background-color: #eee; padding: 5px; text-align: center;">...</div>	Diana TRONCO
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Steve NAS	Eric GONZALEZ	Bruce GATHERER				...
Shaun TORALDE	Oumer TAHIR	Alexa GONZALEZ				
Elliot HOWARD	Suri SURYANARAYANA	...				
Régis STUDER	Issa KALIL					
...	Niels van der WERFF					
	Dennis BREG					

# IADC Geothermal Well Classification

Reservoir Dependency	Asset Purpose	Location Sensitivity	Design	Construction	Rig Capacity	Drilling Complexity	Well Control	
Reservoir Dependent	Heat Production	Rural	Re-Entry TRUE/FALSE Function Select	Circulating Temp Low Medium High	Superlight	Predominant UCS Low Medium High Very High Interbedded	Liquid	
		Industrial	Well Geometry Final Hole Ø No. of Sections Total Depth					Pressure Regime Sub-Hydrostatic Hydrostatic Over Pressured UBO & MPD
Reservoir Independent	Power Production	Urban	Design Parameters Max Temp Max Pressure Stimulation Scaling Corrosion	Medium Heavy Superheavy	Medium	Multilateral Interception	Vapour	
		Offshore						Hydrocarbons Toxic Gases Supercritical
		Residential						
	Mineral Extraction	Sensitive						

# GEODE – Rig & Equipment Task Force

## Formation & Member Selection

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Task Force groups are restricted to 14 people max in addition to 1 Chair, although it isn't required that all slots be filled.

### **Initial Formation: Seeding SMEs**

Each consortium member can propose 1-3 SMEs within their org (with a pre-commitment if selected) to support the Task Force. SPE and GR to support identification of target SMEs within the consortium.

Working Group selects accepted SMEs and organizes them into the appropriate technology disciplines.

~5 TF slots are left open for **Organic Growth** ->



### **Organic Growth**

After the TF review of pain points (and any new additions they generate), they have the option to invite new SMEs to join as formal TF members (up to max person limit) or can inquire with **Contributing SMEs**. New TF members can be sourced by WG based on expertise requested.

Designed to allow for organic growth and adaptation within a defined framework

A **Contributing SME** is an individual within the network of the TF and/or WG that can offer requested input without being a formal member of the TF. They will not be participating in the in-person Forum events

## SME Profile

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- A true SME within his/her org on a area within their TF Discipline
- Access to others within their org to support perspectives on areas they are no full experts in
- Sr Engineer or technology leader
- Experience in both geothermal and O&G preferred

## SME Time Commitment

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- Estimated time requirements for Task Forces:
  - 1-3 hours a week for 3.5 months (virtually)
  - +
  - Ability to be present for at least 2 in-person events, lasting 2 days each

AOB