



SOCIETY OF PETROLEUM ENGINEERS

SPE NEWS

COPENHAGEN SECTION

FROM THE SECTION CHAIRPERSON

Dear SPE Copenhagen Members,

Welcome to the final newsletter for the 2021/22 season that will end this June. I am proud of what we have collectively achieved as a section in a quite challenging period.

For a membership base that has been restricted by lockdowns due to the pandemic, the resumption of our face-to-face events and activities provided an outlet that was welcome and thoroughly embraced. SPE Copenhagen activities were conducted via a mix of online and physical networking events, social media interaction and this Newsletter.

The season started off in September 2021 with the newly reconstituted Board. Some familiar faces left, while new ones joined, and we split up the board into working committees to enhance our efficiency and enable us deliver on the 4 focus areas we set out for the season:

- Energy Transition: Transition related technical topics and events, Newsletter articles
- Membership: Member retention, Young Professionals, students
- Events and engagement: Improve social media presence, networking, regional section collaboration
- Student Chapter: Enhanced mentoring, interaction, support, and student-focused events

In our upcoming Annual General Meeting next month, I will elaborate more but I can say with pride that we have achieved on each of our focus areas.

Our monthly events have included topics relevant to the energy transition and renewables while still appreciating the continued undeniable dependence of the global economy on oil and gas and its products.

Engagement and interaction figures from our LinkedIn page and website have shown huge increases during the year as we have been more visible online with regular posts. We have also seen more interaction with sister sections within between Europe and especially for virtual events.

The student chapter has been the receiver of more focus too. Between seminars with professionals within the industry and a rig visit, the scholarship program has been maintained and 2 students have been sponsored to attend conferences. A special thanks goes to Isaac Appelquist Løge who is the outgoing president of the DTU student chapter. He will be handing over to Natalia Pereyra who will continue his good work to reinvigorate the chapter.

On a concerning note, our membership retention this season was 77.4%. I must say it is one of the highest retention rates in Europe sections, but I appreciate that it could be better. Our membership has continued its steady decline due to fellow professionals leaving Denmark, older professionals retiring and less numbers of young people being encouraged to study technical course at universities. To address this, we need to attract more young professionals into the fold and be better at educating the wider society about the role of oil & gas in the energy transition, which we all know will take time. A lot of our former colleagues are now employed in companies within the renewables sphere. I believe we have an opportunity to demonstrate that the knowledge and experience from oil and gas is significantly relevant to those industries. ►►

Board Membership

I encourage SPE-CPH members to signify their interest if they are open to volunteering on the section Board. More horsepower is welcome and needed to help with the various activities, running the section and brainstorming on innovative ways to enhance the SPE experience of the future. Contact any of the board members for more information.

Appreciation

I would like to start off by thanking our sponsors who have through their kind donations provided the funding to keep our section going. Our sponsors this season included Total Energies, Maersk Drilling, DHRTC, Noreco and Calsep.

I would like to thank you our members for your participation and engagement. We set out at the beginning of this season with some uncertainty especially due to the effects of the pandemic, but this section scaled through and feels bolstered for an exciting new upcoming SPE season.

Finally, I wish to dedicate this last paragraph to thanking the Board of SPE Copenhagen Section. A selfless group of people who have dedicated their time and effort towards running the section, organizing various events, organizing field trips, publishing newsletters, mentoring our students, improving the level of member engagement and keeping the section alive.

Thank you, **Mette B, Hans H, Jonathan H, Mette F, Jaime C, Jose A, Peter T, Solvejg J, Jedrzej B, Alex S, Nikolai A, Darya S and Isaac A** for your efforts and commitment this season. I couldn't ask for a greater group of people to work with...

Indeed, what a season 2021/22 has been!
Have a fantastic summer holiday and see you again in September 2022.

Yours Sincerely,

Adebowale Solarin
SPE Copenhagen Section Chairperson 2021/22

Please remember to pay your SPE dues. If you are in work transit, please check the link <https://www.spe.org/en/members/transition/>



Please follow us on LinkedIn to be up to date on SPE Cph events and other great stories:

<https://www.linkedin.com/company/spe-copenhagen-section>



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2021-2022 SEASON

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Geothermal reservoirs – why mineralogy matters

By *Mette Olivarius and Nynke Keulen (GEUS)*

Summary

Knowledge of the mineralogy of geothermal reservoirs is of great importance, both to enable pre-drill prediction of reservoir properties during exploration and to estimate if scaling and clogging at the grain-scale may occur during production. Basin-wide prediction of porosity and permeability of the Gassum Formation sandstones has been possible by taking the effect of burial and uplift on diagenesis into account, which cause diagenetic overgrowths on minerals in the reservoir rock. Input parameters in the diagenesis modelling comprise petrography, mineralogy, core analysis, and burial history data, and the resulting models for each depositional environment are applied to create regional reservoir property maps based on the reconstruction of paleogeographical facies distributions.

The mineralogical composition of a reservoir sample can be analyzed by different techniques such as petrographic point counting, X-ray diffraction, and automated quantitative mineralogy by scanning electron microscopy (SEM). Each of these methods have their specific advantages, but in principle it should be possible to obtain all relevant information by using SEM only and thereby overcome operator bias during point counting. Data science techniques may be used to combine the information obtained from different types of SEM detectors, which will be the theme of an upcoming SPE Geothermal Hackathon later in 2022.

Speakers



Mette Olivarius, Senior Scientist at GEUS. Geologist with 13 years of experience in petrography, diagenesis and provenance analysis. She obtained her MSc from Copenhagen University and PhD from Aarhus University. Her research focusses on reservoir quality and how to utilize the subsurface in the green transition, especially with regards to geothermal energy from sandstone reservoirs.



Nynke Keulen has a MSc from Utrecht University and Ph.D. degree from Basel University (2006). She has been running the SEM laboratory at the Geological Survey of Denmark and Greenland for the past 15 years, working on projects in Petrology, Mineralogy, Sediment diagenesis, Material Sciences on rocks, sediments, minerals, but also non-geologic materials.

Denmark as a leading CCS nation

By *Martin Næsby, Managing Director at Dansk Offshore*

Abstract

Carbon Capture and Storage, CCS, is a technology and method that makes it possible to capture and store large amounts of CO₂ in the North Sea subsoil. CCS could be the North Sea's next big bet and a real game-changer on the road to a climate-neutral society.

At the same time, Denmark has a position of strength given that Denmark from 2023 will (again) be net exporter of gas and a significant producer of oil. Production will cease from 2050, according to the political agreement from 2020. The Danish offshore industry has both the infrastructure and the competencies for CCS, and the North Sea subsoil is geologically better suited

for CO₂ storage than storage on land. We can ensure that storage takes place in obsolete oil and gas fields 250 km from the coast. And maintain production of oil and gas at the same time, thereby contributing to security of supply for Denmark and for Europe in difficult times.

More and more CCS projects are showing promising results, and the Danish Energy Agency assesses that Denmark's geographical location and geological conditions will give Denmark a competitive advantage. Two Danish CCS projects, Greensand and Bifrost, are already on the drawing board and can be realized when the right political and economic preconditions and incentives are in place. It is the task of the state, together with everyone else in the CCS value chain, ►►

including Dansk Offshore, to create a comprehensive Climate Roadmap which ensures that all actors in the energy system work in the same direction.

If Denmark wants to realize solutions such as CCS (and e.g. Power-to-X), we should use the sector's current facilities, infrastructure and extensive knowledge of, among other things, the geology of the subsoil for the purpose. It has been built up over many years with billion-dollar investments. We risk losing great values if we lose the opportunity to store CO₂ in the reservoirs that are no longer to be used for oil and gas. In 2019, Denmark emitted DKK 47 million tonnes of CO₂e and must achieve a reduction of 26 mill. tons of CO₂e. CCS can deliver up to 30% of that reduction target. Storage presupposes that production stops in the fields in question. The CO₂e storage must not be included in future production for so-called Enhanced Oil Recovery (EOR). It is estimated that 0.5-1.5 million tonnes (Mt) CO₂e can be stored in the Danish part of the North Sea in 2025, 4-8 Mt in 2030 and 10-30 Mt in 2040. In comparison, the oil and gas sector's own emissions in 2019 were 1.5 million tonnes of CO₂e. It shows the enormous climate potential of CCS technology.

What are the opportunities for Denmark? What barriers do we see? What kind of challenging jobs does this future aspiration entail? Will CCS be not only maintaining but also create new jobs? The industry's focus is initially on contributing to the Danish climate goals, but in the long run we will also be able to absorb CO₂ from other countries and help with their reductions. Denmark can become a leading CCS nation.

Biography

Martin Næsby is the Managing Director at Dansk Offshore, trade organization for the upstream oil and gas sector in Denmark, representing operators and licenseholders as well as the service and supplier industry. Background in international project management, risk management and law. 25 years of industry experience in various roles, including Project Manager for Maersk Oil's 'Qatar Long Term Commitment Project'; management postings in Qatar and Kazakhstan; General Counsel in Maersk Oil; international negotiator; and as an attorney admitted to the Danish High Courts (Reconstruction, Insolvency, Contracts, M&A).



Meeting Wednesday MAY 25



PROGRAMME

17:00 – 18:00

Networking and Drinks

18:00 – 19:00

Presentation by Mette Olivarius and Nynke Keulen (GEUS)

19:00 – 21:00

Dinner with a talk by Martin Næsby

LOCATION

Geological Survey of Denmark and Greenland (GEUS)
Øster Voldgade 10
1350 Copenhagen K

TOPICS

- #1 Geothermal reservoirs – why mineralogy matters
- #2 Denmark as a leading CCS nation

SPEAKERS

Mette Olivarius, Senior Scientist at GEUS and Nynke Keulen, MSC and Ph.D, Geological Survey of Denmark and Greenland

Martin Næsby, Managing Director, Dansk Offshore

ENTRANCE FEE

None

REGISTRATION

Please register for the meeting by May 19 at the registration link below.

SPONSOR



Meeting link for
the topic #1

Register **HERE**

DON'T MISS THE ANNUAL GENERAL MEETING!

By Hans Horikx, DTU Offshore

Every year, at the end of the season, the SPE Copenhagen chapter holds an Annual General Meeting. This year the AGM will be held on June 16th at the Rebel workspace (Dampfærgevej 27-29) with snacks and drinks served.

Those of you who are new to the SPE may not know what the Annual General Meeting is about.

In a way it is similar to a State of the Union address and is a message from the SPE chapter chairman to the SPE members. In the message, the chairman talks about important issues facing the chapter and offers his and the board's ideas on solving any expected challenges, including suggestions for new initiatives. It's also a lookback on the past season summarizing the highlights and any lowlights, and importantly it's the moment a new board is elected.

Regarding this board election, any SPE member in the Copenhagen chapter can volunteer to join the SPE board. There are many roles that board members are taking on, also described elsewhere in this newsletter, such as programme-, membership- and outreach chairpersons, treasurer, secretary, digital web master, newsletter officer, young professionals' representative, student representative, student liaison officer or faculty advisor. Please reach out to any current board member if you want to volunteer for a board position.

A major part of the AGM is the chapter's financial statement. Historically, our finances have been quite healthy, but it will be interesting to see whether the balance for the 2021/2022 season is still positive. The season has been affected for a second year by covid restrictions that have reduced the number of

sponsored face-to-face events, and by a reduction in sponsoring companies caused by a low oil price and company mergers and pull-outs.

Also, the winner of the SPE scholarship will be announced. Three candidates made it to round 2 with excellent MSc presentations on topics related with Carbon storage: Juliana Mai presented her MSc project on the seal integrity of shales in the overburden, to prevent CO₂ from leaking out, and experimental work on clay swelling and consolidation; Yao Xu explained the effects of salt precipitation in the reservoir near CO₂ injectors and what the main sensitivities are using a model that was calibrated via experiments; and Michal Stepien showed how he models the movement of CO₂ plumes in a storage reservoir through application of machine learning.



2016 AGM in Moltkes Palæ
– dealing with the crash in oil price.

Annual General Meeting JUNE 16

PROGRAMME

17:00 – 17:30

Networking and Drinks

17:30 – 18:00

Annual General Meeting

18:00 – 19:00

Networking and Drinks

LOCATION

Rebel Work Space, Dampfærgevej
27-29, 2100 Copenhagen Ø

TOPIC

Annual General Meeting

SPEAKER

Adebowale Solarin (Maersk
Drilling)

ENTRANCE FEE

None

SPONSOR



[Register HERE](#)

THE TYRA II PUZZLE IS ALMOST COMPLETED

TotalEnergies EP Denmark and its Danish Underground Consortium partners Noreco and Nordsøfonden were pleased to announce the successful completion of this spring's installation campaign of Tyra II in the Danish North Sea.

On 12 April 2022, 10 days of lifting came to a culmination when the world's largest crane vessel, Sleipnir, lifted the final and heaviest module - the Tyra II utility and living quarters - into its final position at Tyra East at 09:55.

The 5,584 tons heavy and 32.5 meters tall module was built in Italy with the help of our EPC contractor Rosetti Marino Contractors. After a 5,800-kilometer-long journey through the wind and waves of the Mediterranean Sea passing by the English Channel, the new Tyra II utility and living quarters arrived safely at the Tyra field.

Once the crew completed all final checks, Sleipnir lifted the Tyra II utility and living quarters off the barge, and with it hanging in the crane wires at a height of 30 meters, the crew sailed more than one kilometer towards the jacket where they successfully set-down Tyra II's new home.

This means that Tyra II is now almost complete as all platforms, except the processing platform, are now in place.



It's exciting to be able to see the almost complete shape of Tyra II as seven out of eight platforms are now in their final position. The last crucial piece to be installed is the new processing platform which is currently being built at the yard in Indonesia. I'm very proud of our installation team and our valued and trusted partner Heerema Marine Contractors who once again executed textbook lifting operations without a single recordable incident. Despite this fabulous milestone achieved, we can't rest on our laurels as we still have a lot of work offshore to complete", says Lars Bo Christiansen, Tyra Redevelopment Deputy Project Director for TotalEnergies EP Denmark.

In the coming days, the installation team will finish the last welding works to secure that the new platforms can resist many years of rough North Sea weather. Afterwards, the team will hand over the baton to the hook up and commissioning team.

They will focus on making the new Tyra II utility and living quarters habitable so that future residents can move in during this summer. Moreover, they will install the refurbished well heads, reinstate the wells, and power-up the new Tyra West platforms. In the second half of 2022, the new 16,988 tons heavy processing module will start its journey from McDermott's yard in Indonesia, making the modernized Tyra II complete. For this, Heerema Marine Contractors' Sleipnir - the world's largest crane vessel - will return to the Tyra field one last time.

To read more about Tyra II, visit <https://tyra2.dk/>.



Facts about the installation and other remaining works

Spring installation 2022

- 260 people executed 6 lifts within two weeks. The utility and living quarters, the three Tyra West well head and riser modules and two bridges were lifted into final position. Together they weigh more than 9,300 tons – the equivalent to 4 London Eyes.
- Sleipnir is the world's largest crane vessel from our EPC contractor Heerema Marine Contractors, and its two huge cranes can lift a weight of up to 20,000 tons. The vessel is 220 meters long and 102 meters wide – the equivalent to 3 football fields.

Tyra II utility and living quarters

- The Tyra II utility and living quarters module consists of seven levels with a helideck at the top, weighs 5,584 tons, and is 32.5 meters tall– equivalent to the height of the Esbjerg Water Tower.
- The two 2.1 meter high and 1.7 meter in diameter wide stabilizing cones which are placed on the bottom of the utility and living quarters, helped the crane drives to lift the module precisely on the jackets.

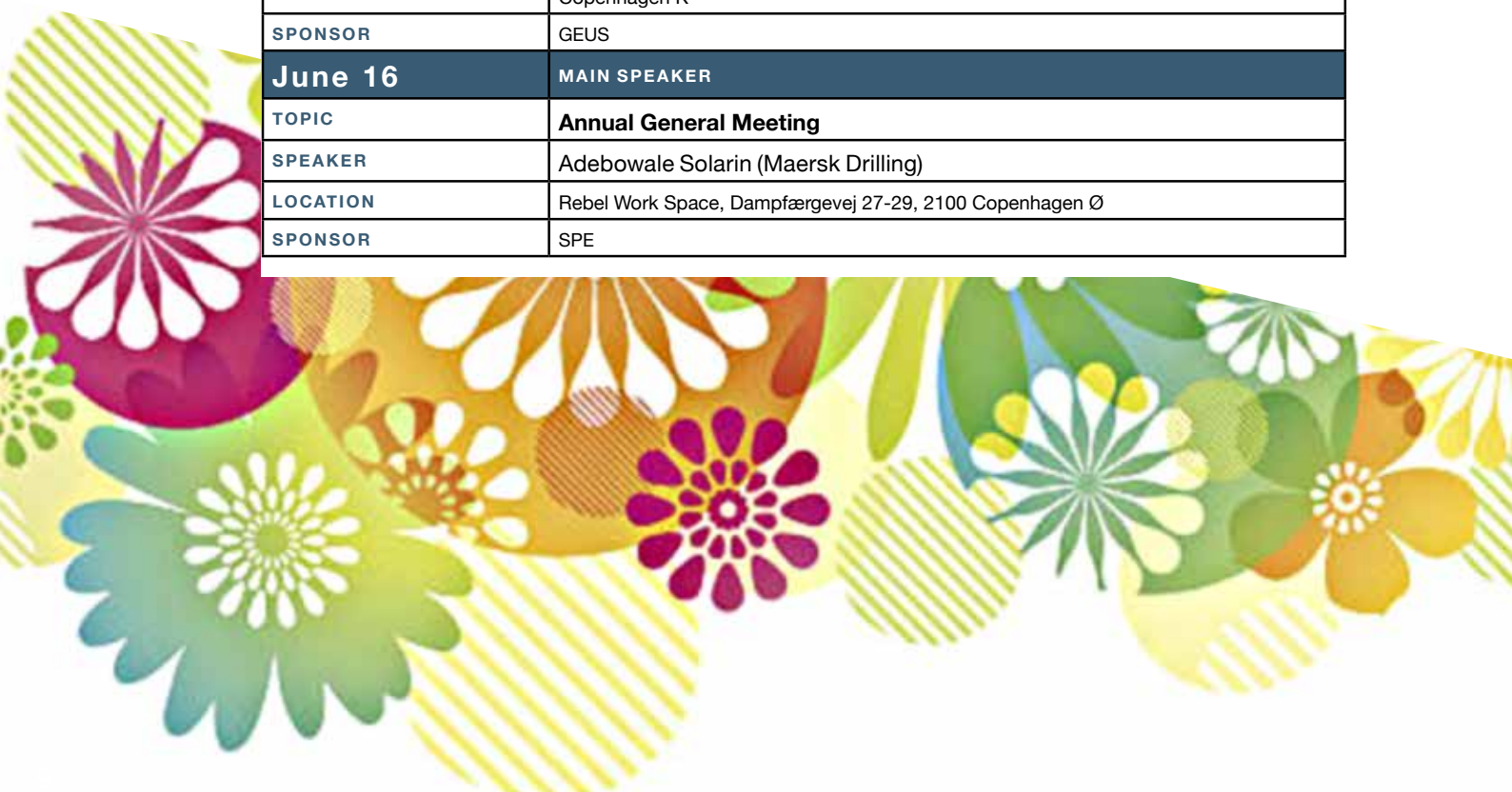
- In the future, the crew on Tyra II will stay even more safe as the processing platform and utility and living quarters are separated by an 85-meters-long bridge in the new field design. Moreover, the module's design is focused on safety, efficient workflows, and general well-being. It is equipped with three lifeboats and the three fire pumps are able to deliver 8,250,000 liters water per hour – equivalent to the average daily water consumption of 1.8 million Danes (when calculated with a consumption of 106 liters per person per day)

Remaining work

- The processing module weighs 16,600 tons and is 47 meters high. This module is the heaviest of all Tyra II modules, and it's likely that lifting it will break a world record. The module will be sent from Indonesia during the second half of 2022.
- Between 2021 and 2023, the hook-up and commissioning teams are spending more than 1.3 million man-hours at the Tyra field to connect cables and pipes, test equipment, integrate reservoirs, wells, compressors and pumps, and re-link Tyra II with the onshore Danish gas supply and distribution network.



February 24	MAIN SPEAKER
TOPIC	Carbon Storage in Danish Chalk formation
SPEAKER	Charlotte N. Larsen, Programme manager CO ₂ -storage Research Programme at DTU Offshore / Malene Hein, Project manager, DTU Offshore, Project Bifrost / Hamid Nick, Senior researcher and research team lead at DTU Offshore
LOCATION	VIRTUAL MEETING
SPONSOR	DTU Offshore
March 31	MAIN SPEAKER
TOPIC	Impure vs. Pure CO₂
SPEAKER	Peter J. Herslund, Ph.D., Calsep A/S
LOCATION	Rebel Work Space, Dampfærgevej 27-29, 2100 Copenhagen Ø
SPONSOR	Calsep
April 21	MAIN SPEAKER
TOPIC	Industrialising geothermal for urban heating
SPEAKER	Martin Kaster, Head of Facilities and operations, Innargi / Lars Petersen, Head of Subsurface, Innargi
LOCATION	Innargi A/S, Lyngby Hovedgade 85, 2800 Kgs. Lyngby
SPONSOR	Innargi A/S
May 25	MAIN SPEAKER
TOPIC	#1 Geothermal reservoirs – why mineralogy matters #2 Denmark as a leading CCS nation
SPEAKERS	Mette Olivarius, Senior Scientist at GEUS and Nynke Keulen, MSC and Ph.D, Geological Survey of Denmark and Greenland Martin Næsby, Managing Director, Dansk Offshore
LOCATION	Geological Survey of Denmark and Greenland (GEUS), Øster Voldgade 10, 1350 Copenhagen K
SPONSOR	GEUS
June 16	MAIN SPEAKER
TOPIC	Annual General Meeting
SPEAKER	Adebowale Solarin (Maersk Drilling)
LOCATION	Rebel Work Space, Dampfærgevej 27-29, 2100 Copenhagen Ø
SPONSOR	SPE



Copenhagen Section Student Chapter News

From January 2021 to June 2022 Isaac Løge has been the president of the SPE DTU. The post is now handed over to Natalia Sol Pereyra, but first we would like to look back at the past events.

2021 has been a difficult year, navigating through corona lockdowns, but the Student Chapter has managed to keep the spirit, and arranged events that could both fit the online and offline for-

mat. In the spring the Student Chapter arranged a miniseries of webinars where industry professionals gave inspiring talks on their careers and what exciting opportunities does the petroleum industry offer. The talks were given by Hans Horikx and Adebowale Solarin who are board members of the SPE Copenhagen Section. ▶▶

Making the transition from student to professional life

When? *Thursday 22nd of April at 17:00*

How? *Online - via Zoom - link in Details*



We have brought you a top-tier professional from Maersk Drilling to share his experiences about getting the dream job, setting your career goals and answering your questions about work-life in the petroleum industry.

Exciting opportunities when working in the petroleum industry

When: *10/6 2021 at 17:00*

Where: *Find link on Facebook*

As an important industry, which should be a part of the energy transition the petroleum industry still has a lot to offer.

If you are worried about the opportunities for your future, join us when Hans Horikx tells about his long experience in the industry.

Hans is currently a senior advisor at DHRTC and a board member of the SPE Copenhagen, and with his long experience in the industry, he has many interesting stories to share.

The Inside of a Jackup Rig

When? *Wednesday 5th of May*

Where? *Zoom - link in Details*



Have you ever wondered how a Jackup rig looks inside?

We give you the answer, as Ben Pomford, head of Maersk Drilling solutions, give a guided tour on an off-shore rig. Join us to learn how life at sea really looks like.



Furthermore, the student chapter organized a tour off a jack-up rig. The talk was held by Ben Pomford, Head of Drilling Solutions at Maersk Drilling. The season was ended by sending a team to the Petrobowl. They did not win, but we are very proud to be represented.

In the season of 2022, we started having physical events again, and the season started off with a social BBQ. Here Jędrzej Bryła presented his career path, which sparked much excitement from the participants. It was a great event with networking from professionals and students.

During the season there were two very relevant excursions, namely to NOV flexible and to the Jack-up rig Maersk Resolve.

Both trips were whole day events, with bus transport from DTU to NOV in Kalundborg, and to the quay in Esbjerg. NOV gave a tour of their production plant, showing how flexible tubing is made and what are some of the important considerations that are needed when making operational equipment. In Esbjerg the students were welcomed by the rig manager Allan Ramsing, and the day was guided by Arlo, Brian the TSL, Scottie the Driller and other crew members. The student chapter is very grateful to Maersk Drilling for making it a memorable experience.

The 2021/2022 SPE DTU board would like to thank all the board members of SPE CPH who made it an unforgettable experience. We wish the new board all the best of luck!



The members of the new Board of the SPE DTU Student Chapter will be:

- President: Natalia Sol Pereyra
- Vice-President: Jakub Drochomirecki
- Treasurer: Bartosz Bula
- Membership Chairperson: Vasilis Tsiftsis

With renewed enthusiasm and fresh ideas, the SPE DTU Student Chapter will enable students meet the industry, learn and network. We wish them the best of luck and look forward to seeing their achievements!

The new Board of the SPE Student Chapter is looking forward to organizing technical and social activities this year to continue to help fuel the student's professional growth within the energy industry.

Please follow us on LinkedIn and Instagram, where we will be showing our activities:

<https://www.linkedin.com/company/specopenhagen>
<https://www.instagram.com/specopenhagen>





Student member sponsored by SPE CPH to attend conference in Norway

By Natalia Sol Pereyra

SPE Norway Subsurface Conference is a 1-day event held annually. It provides an opportunity to connect with innovators and leaders active in the Norwegian Continental Shelf.

This year, SPE Copenhagen was present in Bergen at the event. The day was divided between several Technical Sessions, grouped by subject: Drilling, Low Carbon Subsurface Contribution to Energy Transition, Reservoir, Production and Well Operations, Completion and Well Intervention, Green and Brown Field Development, and Emerging Ways of Working.

Wintershall Dea invited students to a 'Future Energy Workforce' Lunch, where young professionals shared their career experiences in the company. Among other things, it was discussed what competences are expected from young professionals in

this evolving industry and they shared what the opportunities for students and new graduates are.

It is very hopeful to see how projects are starting to consider the reduction of greenhouse gases emissions among their goals, but also to hear that in Norway the oil and gas sector will play an important role in the energy transition.

This year, Natalia Sol Pereyra from DTU SPE Student Chapter was sponsored by SPE Copenhagen to attend the Conference. We highly recommend students to participate actively in SPE's presentations, workshops, and conferences. It is an excellent opportunity to learn what the latest research and technologies are in the industry and network with interesting people from all over the world.



Pictures of the event. In the first picture Peter Tybjerg and Natalia Sol Pereyra, the representatives of the SPE Copenhagen Section in the event.



UPCOMING CONFERENCES

SPE Copenhagen section would like to attract your attention to the following upcoming conferences.



The largest geothermal event in Europe has extended the abstract (4 to 10 pages) submission deadline until 20 May 2022.

<https://europeangeothermalcongress.eu>



The 3rd EAGE Global Energy Transition Conference & Exhibition includes a wide variety of sessions on energy transition. Abstract (4 pages) submission deadline is 15 August 2022.

<https://eage.eventsair.com/get2022>



23-27 October 2022
Lyon, France

The Greenhouse Gas Control Technologies conference is established as the principal international event, focusing on Carbon Capture, Utilization and Storage. The call for papers is now closed, but it is still possible to register for the event.

<https://www.adipec.com>



Houston, Texas, USA
3–5 October 2022

SPE Annual Technical Conference and Exhibition is the highest caliber technical event for E&P professionals from around the globe. The call for papers is now closed, but it is still possible to register for the event.

<https://www.atce.org>

Please drop Nikolai Andrianov a line at nia@geus.dk with suggestions for conferences of interest to SPE members.

Making a difference

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