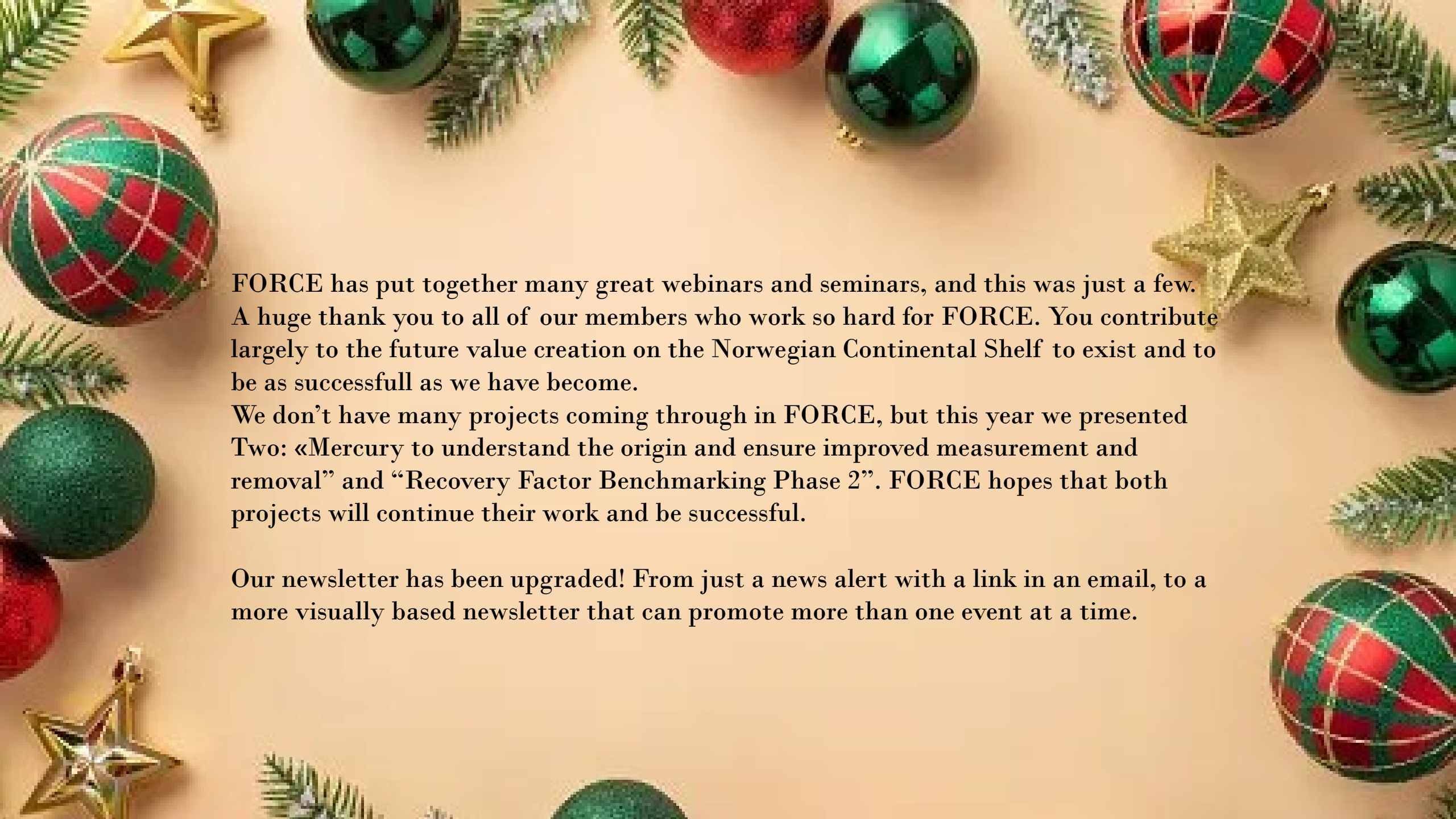# FORCE Christmas Newsletter 2023

# Greetings from the Secretariat

Dear FORCE members

Another year is almost over, and once again, the FORCE members have impressed us.
FORCE has hosted 36 events, with a combination of in-person and webinars in 2023.
A total of 1881 participants took the time to join in on our wide range of topics.

We would like to highlight the data analytics group with the seminar/webinar:
"An Introduction to Supervised Machine Learning, with 129 participants". The highest
attended event this year. A big thank you to Peter Bormann who hosted yet another
Hackathon 2023.
The TC-IE group held the very successful "Cross Border seminar", with a fully booked
TOR auditorium. The topic was borderless exploration and petroleum plays. With
contributions from Aker BP, Equinor, GEUS, Harbour Energy, Merlin
EnergyResources, the NPD and TNO.

FORCE has put together many great webinars and seminars, and this was just a few. A huge thank you to all of our members who work so hard for FORCE. You contribute largely to the future value creation on the Norwegian Continental Shelf to exist and to be as successfull as we have become.

We don't have many projects coming through in FORCE, but this year we presented Two: «Mercury to understand the origin and ensure improved measurement and removal" and "Recovery Factor Benchmarking Phase 2". FORCE hopes that both projects will continue their work and be successful.

Our newsletter has been upgraded! From just a news alert with a link in an email, to a more visually based newsletter that can promote more than one event at a time.
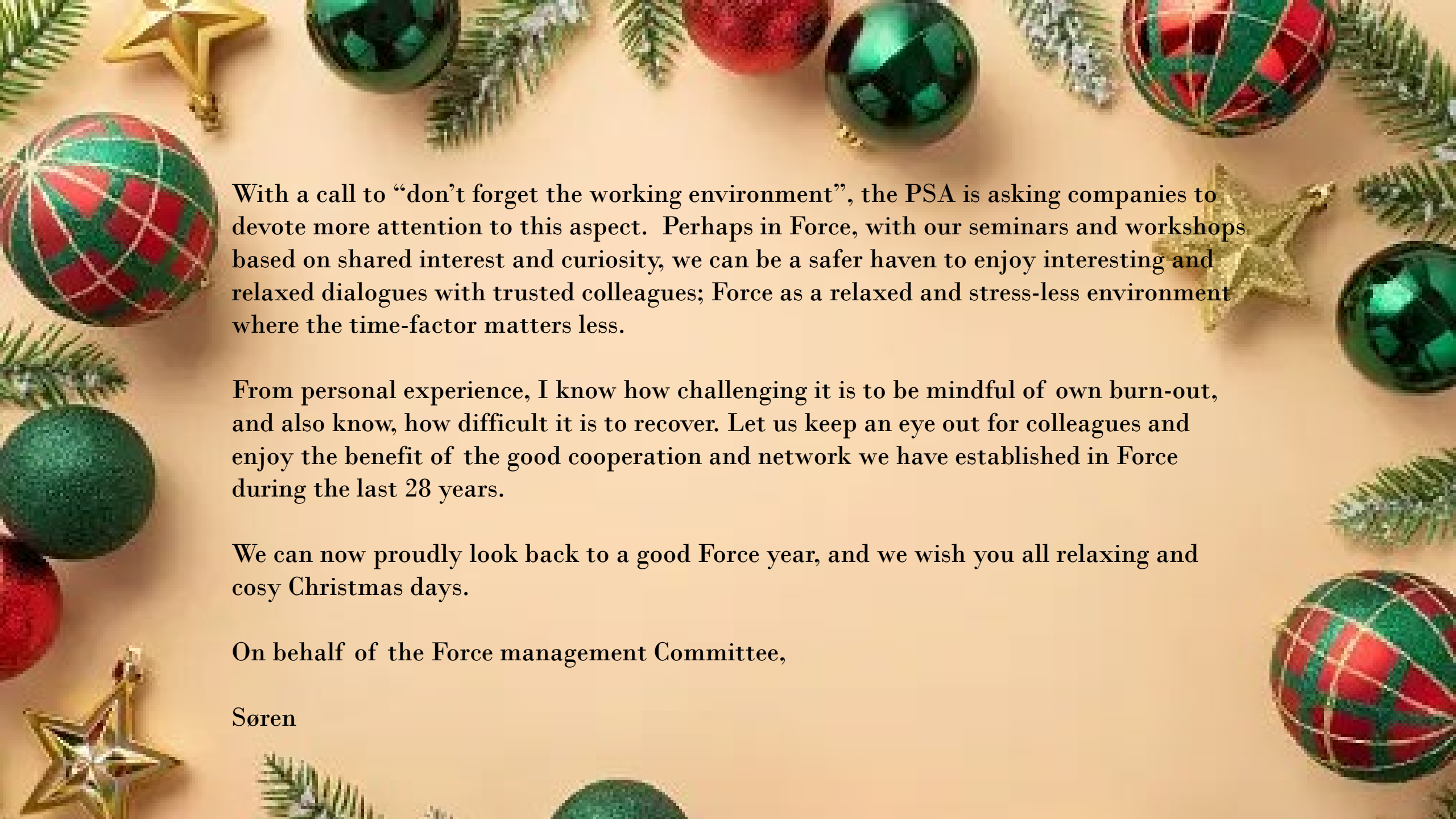
# Greetings from the Management Committee

Dear Force Colleagues,

Another year is now passing, and we have had yet another active year in Force. In the Management Committee, we are as always grateful for the dedication you put into the Force cooperation. This is done in addition to all your other obligations, in an ever-busy industry. In 2023, there have been a high number of seminars, both in-person and as webinar. We have again experienced the added value of meeting face-to-face, providing more ease and freedom in the discussions and interactions. This must be the preferred way to meet for longer seminars and workshops, where webinar can still provide cost/time/environmental efficiency for the shorter events.

In our industry, where fast project delivery in an ever-changing environment is a key success factor, we need to be careful with the risk of personal burn-out. We constantly need to adapt to changes and master new solutions under time pressure. This increases the stress level and risk of burn-out.

With a call to "don't forget the working environment", the PSA is asking companies to devote more attention to this aspect. Perhaps in Force, with our seminars and workshops based on shared interest and curiosity, we can be a safer haven to enjoy interesting and relaxed dialogues with trusted colleagues; Force as a relaxed and stress-less environment where the time-factor matters less.

From personal experience, I know how challenging it is to be mindful of own burn-out, and also know, how difficult it is to recover. Let us keep an eye out for colleagues and enjoy the benefit of the good cooperation and network we have established in Force during the last 28 years.

We can now proudly look back to a good Force year, and we wish you all relaxing and cosy Christmas days.

On behalf of the Force management Committee,

Søren

# 2023 Activities

| Date | Name | Network Group |
|---|---|---|
| 19.01.2023 | Field Trip: Site visit to the Fluid Flow Rig at University Museum of Bergen | CCS |
| 08.02.2023 | Webinar: Injection-induced earthquake activity in West Texas | Structural Geology |
| 14.02.2023 | Webinar Field trip to Brent | Sed/strat |
| 23.03.2023 | Webinar: Organic chemostratigraphy of Lower–Upper Triassic organic-rich mudstones in Svalbard | Petroleum Systems |
| 28.03.2023 | In-person: Tidal Systems | Sed/strat |
| 28.03.2023 | Webinar: The Role of Geoscience in the Critical Evaluation of Subsurface Carbon Storage Sites | CCS |
| 12.04.2023 | Webinar: Salt structure and strain development in the eastern Mediterranean, and Kurdistan Oil Field trapping mechanisms | Structural Geology |
| 13.04.2023 | In-Person: IRM network group presents Cake & Discuss | IRM |
| 18-19.04.2023 | In-person: Diagensis Seminar | Sed/strat |
| 26.04.2023 | In-person Seminar @ NPD:Curbing Optimism and Overconfidence Bias in Forecasting | IRM |
| 10.05.2023 | In-person Seminar @NPD: IRM network group presents Aquifer Models | IRM |
| 11.05.2023 | In-person @NPD: Unravelling the Valhall Chalk Dense Zone Conundrum – Traditional vs. Innovative Interpretation | Carbonate chalk reservoirs |
| 23.05.2023 | In-person Seminar @NPD: A look back on 40 years of Reservoir Simulation (from the man who knows) | IRM |
| 24.05.2023 | Webinar and In-person: An Introduction to Supervised Machine Learning | Data Analytics |
| 31.05-01.06 | In-person Seminar @NPD: Faults from seismic interpretation to geo-model and flow simulator | Structural Geology |
| 12.06.2023 | Webinar and in-person: Machine Learning for Time Series and Anomaly Detection | Data Analytics |
| 22.06.2023 | In-person @NPD: JIP proposal- Mercury to understand the origin and ensure improved measurement and removal | FORCE |

| Date | Event | Category |
|---|---|---|
| 07.08.2023 | In-person & Webinar: Computer Vision | Data Analytics |
| 22.08.2023 | In-person @NPD & Oslo: Cake & Discuss – Practical Geomodelling Part 2: Practical Geomodelling | IRM |
| 14.09.2023 | Webinar: Subsurface Databasing in the modern energy environment: one location with multiple applications | Petroleum Systems |
| 19.09.2023 | Webinar: CCS activities in OMV | CCS |
| 20.09.2023 | Webinar: Discrete-Element Modelling (DEM) using "cdem" from expert-user HPC code to a desktop application | Structural Geology |
| 25.09.2023 | In-person: JIP proposal- Recovery Factor Benchmarking Phase 2 | |
| 02.10.2023 | Webinar/In-person: Natural Language Processing and Large Language Models | Data Analytics |
| 24.10.2023 | Webinar: LINCCS Project | CCS |
| 25.-26.10.2023 | In-person: Cross Border Seminar | TC-IE |
| 07.11.2023 | In-person @NPD & Oslo: Cake and discuss: practical geomodelling part 3: the property model | IRM |
| 09.11.2023 | Webinar: Production from low permeability reservoir and hydraulic fracturing | Production Optimisation and Reservoir Managment |
| 14.11.2023 | Webinar: Benchmarking in US Onshore: Foster competition and continuous improvement | Well technology and drilling |
| 16.11.2023 | Webinar: Capillary Seals and Petroleum Migration: Theory, Observation, Modeling, and Risking | Petroleum Systems |
| 21.11.2023 | Webinar: NCCS and gigaCCS Projects | CCS |
| 22.11.2023 | In-person: Tight Reservoirs – Reservoir Appraisal and Development | IRM |
| 30.11-1.12.2023 | In-person @ the NPD: Language modelling Hackathon 2023 | Data Analytics |
| 06.12.2023 | Webinar: Digital work instructions - interface between onshore and offshore organizations | Well Technology and Drilling |
| 14.12.2023 | Webinar: Interaction of stratigraphy with faults at pressure cell boundaries within the Jurassic to Triassic reservoir sequences | Structural Geology |
| 14.12.2023 | Webinar: NPD's use of seep studies on the NCS | Petroleum Systems |

We wish all of our FORCE members a Merry Christmas & a Happy New Year.