

EAGE

INCLUDING



HOST



2023

EAGE ANNUAL

84TH CONFERENCE & EXHIBITION

VIENNA | AUSTRIA

SECURING A
SUSTAINABLE
FUTURE
TOGETHER

Event Report


About The Event

The 84th EAGE Annual Conference & Exhibition was held in Vienna, Austria on 5-8 June 2023. Together, we accomplished our mission of uniting once again professionals, academia and industry leaders to exchange experiences, foster learning and explore new developments.

This year's theme, '**Securing a Sustainable Future Together,**' acknowledges the global challenges and uncertainties we currently encounter in today's world. Our focus was on critical aspects such as energy security, independence, the need to adapt our traditional approaches and collaborations, as well as emphasising the importance of transferable skills and the need for re-training and education.

We're excited to share the event highlights and relevant statistics in this report. Your positive feedback has been greatly appreciated, and we extend our sincere gratitude to everyone for being part of this incredible journey.

We look forward to seeing you again in next year's edition in Oslo, Norway on 10-13 June 2024.



'We have many papers, a huge number of participants from all over the world, a very diverse group. The networking opportunities have been fantastic. I've sat down with many companies, service companies, academia, and partners. There's been a real buzz around the event this year. People are happy, they're enjoying seeing each other face-to-face, and I think that's resulted in such a great conference.'

Greg Rock

Vice President Exploration, OMV
2023 Local Advisory Committee Chair



Conference and Exhibition

The Conference presented a dynamic platform where cutting-edge geophysical, geological and engineering research, ideas and case studies took center stage, reaffirming their crucial role in addressing challenges and seeking solutions for our industry.

The Exhibition, as always, delivered an impressive showcase of innovative products and services in the field of earth sciences, as well as served as a vibrant platform for fostering new business contacts and opportunities.

Technical Programme Domes was once again integrated on the Exhibition floor with the aim to bring the conference delegates and exhibitors closer together.

'This year in Vienna, we have had a fantastic technical programme like we had in Madrid. But also this year there's been a lot more business energy, whether it's in the exhibition which is huge and full of companies, or whether it's in the social networking. It's been an excellent year all around.'

Lucy Slater

Lead Geophysicist,
Trident Energy



5500+
Registrations



78
Countries



645
Organisations



8
Panel Discussions



43
Executive-level
Speakers



834
Presenters



1107
Presentations



5050
Sqm



171
Exhibitors

97%

of attendees considered **the quality of the 2023 programme to be higher** compared to previous years



Delegates Overview

VISITORS BY REGION



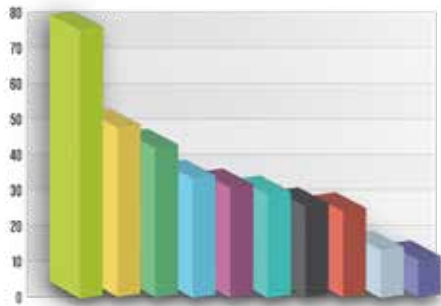
VISITORS BY SECTOR



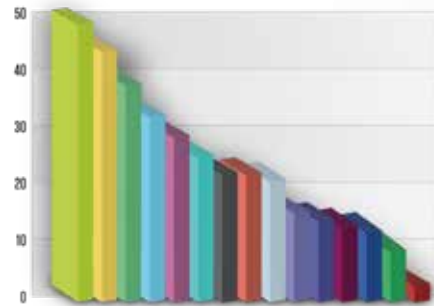
- EUROPE (66.3%)
- AMERICAS (12.9%)
- ASIA PACIFIC (12.1%)
- MIDDLE EAST & AFRICA (8.2%)
- RUSSIA & CIS (0.5%)

- ENERGY OPERATOR (39%)
- SERVICE COMPANY (35%)
- UNIVERSITY/EDUCATIONAL INSTITUTE (14%)
- OTHERS (12%)

VISITORS BY DISCIPLINE



VISITORS BY PROFESSION FOCUS



- GEOPHYSICS (75%)
- GEOLOGY (46%)
- CO₂ STORAGE (41%)
- RESERVOIR ENGINEERING (33%)
- GEOHERMAL (30%)
- PETROLEUM ENGINEERING (28%)
- PETROPHYSICS (25%)
- ENVIRONMENT (24%)
- MINING (13%)
- GEOCHEMISTRY (10%)

- EXPLORATION (48%)
- RESEARCH AND DEVELOPMENT (44%)
- GEOPHYSICAL DATA PROCESSING (38%)
- GEOPHYSICAL DATA ACQUISITION (33%)
- ACADEMIC (28%)
- ENVIRONMENTAL FOCUS (26%)
- CONSULTING (23%)
- INTERPRETATION STUDIES (23%)
- MANAGEMENT (21%)
- PRODUCTION (15%)
- TRAINING (14%)
- MARKETING AND SALES (13%)
- ENGINEERING GEOLOGY (12%)
- ECONOMICS AND PLANNING (9%)
- HR AND RECRUITMENT (3%)



'The theme of the conference is 'Securing a Sustainable Future Together'. The 'together' element is very important, especially now in this challenging and changing time. We see that we need diversity of specialisations, diversity of backgrounds, diversity in all aspects including the gender perspective.'

Anna Lim
Geophysicist, Argeo

'The workshop [on Seismic Interferometry] is valuable because it is giving us an opportunity to collaborate with people who are working on this topic, meet new people and engage in networking activities.'

Ayşe Kaslılar

Senior Lecturer/Associate Professor, Uppsala University

'Panellists clearly knew their subject and a lot of interesting takeaways such as partnership. Partnering is definitely a way forward. There is more opportunity for geoscientists in our industry, far more from what we had anticipated before the session.'

Cerys James

VP Transformation and Change, PGS



'This field trip [through the city center of Vienna] is quite interesting. It goes through what Vienna has to offer. And that's one thing I want to understand. I want to understand the place, its beauty, architectural structure and the underlying geology.'

Dan Ferdinand Fernandez

Interpretation Subject Matter Expert, SLB



'It's a great opportunity to be here, to learn from all the presenters. This is one of the great conferences, and an international one. It's my first time with EAGE but I will make sure it's not the last one.'

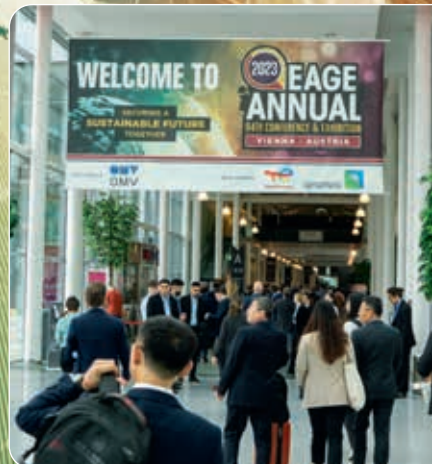
Hanin Kiyumi

Petroleum Development Oman

'The only way to obtain a sustainable future is to have the science that backs up how to achieve that, and the EAGE Annual is a great way for all of us to understand that future.'

Case Caulfield

Senior Geophysical Advisor, Vermilion Energy



'The EAGE Annual is always the highlight of the calendar for our team. It is the single best opportunity to meet face-to-face with many of our clients and key decision makers from across the industry. We have the opportunity to showcase our innovation and expertise against the backdrop of a conference filled by industry leaders in both the theoretical and practical applications of the science and technology that will take our industry sustainably into the future.'

Daniel Swann

Manager of Corporate Communications and EMEA Marketing, Ikon Science

'It's a very good balance between advanced technical presentations and integrated case studies, going from CCS to optimised low energy production of oil and gas. The change that we made to the poster programme, we really gave space to the posters in a separate session giving them the exposure and attendance that they deserve.'

Aart-Jan van Wijngaarden

Leader Work Processes in E&P, Equinor
EAGE Technical Programme Office

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INCLUDING SPE EUROPEC

SPE Europec 2023, taking place at the 84th EAGE Annual Conference & Exhibition, showcased the best subsurface geoscience and engineering innovation with a focus on technologies that contribute to our future energy mix.

Technical Programme

The Technical Programme of the EAGE Annual 2023 featured an exceptional line-up of presentations that captivated attendees with a wealth of valuable insights, engaging discussions and thought-provoking ideas. Besides the usual disciplines (geophysics, geology, reservoir engineering, integrated subsurface, mining and infrastructure, data and computer science), the trend of increasing attention for energy transition and renewable resources continued into this year, which was reflected under the new Energy Transition theme.

One notable change this year was the return of printed posters for poster sessions, improving the overall experience by fostering more interaction and facilitating informal exchanges of ideas and discussions among participants.

TOPICS OF PRESENTATIONS



- GEOPHYSICS (38.6%)
- ENERGY TRANSITION (15.1%)
- GEOLOGY (12.4%)
- RESERVOIR ENGINEERING (13.2%)
- INTEGRATED SUBSURFACE (9.7%)
- DATA AND COMPUTER SCIENCE (9.0%)
- MINING AND INFRASTRUCTURE (2.0%)

99%

of attendees highly appreciated the **level of expertise** demonstrated by the presenters

98%

of attendees **expressed satisfaction** with the content of the **technical presentations**

Source: EAGE Annual 2023 Delegate Survey

Strategic Programme

This year we proudly introduced the Strategic Programme of the EAGE Annual. Building on the success of Forum Sessions at previous Annual meetings, this innovative addition expanded our offerings and provided delegates with an opportunity to engage with industry leaders and gain valuable perspectives on key industry topics.

The Strategic Programme encompassed a range of panel discussions that spanned across the daily themes:

- Day 1 - Securing a sustainable future together
- Day 2 - The path ahead for exploration
- Day 3 - The role of technology, regulation and data in accelerating energy transition
- Day 4 - Skills, concepts and experience towards a sustainable future

98%

of attendees expressed their **positive impression** of the level of the **Strategic Programme speakers**



Source: EAGE Annual 2023 Delegate Survey

'One of the highlights for me is the introduction of the strategic programme this year. It really brought together the technical side of geophysics, geology and engineering across Europe, and really combined that with new business developments and the strategy that we need to go forward for a sustainable future.'

Noah Stevens

Department Manager Integrated Services,
OMV




Devoting EAGE Annual to Energy Transition

The EAGE Annual served as a pivotal platform for addressing the dynamic changes and pressing challenges in the energy sector amidst the ongoing energy transition.

Presentations on energy transition accounted for a **growing number** of this year's programme. This extensive coverage demonstrated our industry's commitment to sustainable and environmentally friendly solutions.

The Energy Transition Area, established last year as a dedicated zone in the Exhibition of our Annual Meeting, housed companies at the forefront of developing decarbonisation initiatives.

Building on the momentum of the Annual, the community and all those passionate about energy transition can look forward to the **4th EAGE Global Energy Transition Conference & Exhibition**, taking place in **Paris** on **14-17 November 2023**.



'This is an exciting time to be a geoscientist and engineer as we implement a growing number of energy transition projects ranging from CCS to geothermal to hydrogen to name a few. Our seasoned oil and gas professionals are learning just how many of our technical subsurface skills along with those key technical project management, risk analysis and multidisciplinary integration expertise are vital to the energy transition sector. Our up-and-coming members of the energy profession bring new sets of skills and knowledge as our universities are adapting to our industries current and future requirements.'

Ellie MacInnes

New Business Development -
Green Tech, CGG

96%

of attendees acknowledged the presence of **energy transition elements** within the programme



Source: EAGE Annual 2023 Delegate Survey

Devoting EAGE Annual to Digitalization

The EAGE Digital 2023 Conference & Exhibition, held in March in London, laid a solid foundation for discussing the influence of digital transformation on the future success and resilience of the oil and gas and energy industries. Many of these conversations carried over at the EAGE Annual 2023, contributing **significantly** to this year's programme.

The 2023 EAGE Annual Hackathon focused on the theme Natural Language Processing (NLP). The energy and enthusiasm in the room were incredible. The team presentations showcased remarkable applications of AI, demonstrating the profound impact NLP can have on organisations.

The Digital Transformation Area has firmly established itself as a hub for forward-thinking companies, eager to explore and showcase innovative technologies and workflows that pave the way for a digitalized future.

94%

of attendees recognized the **substantial inclusion of digitalization content** in the programme



Source: EAGE Annual 2023 Delegate Survey



'This conference is very timely because there're a lot of new things that are actually happening: energy transition, climate change, new technology, and how we are going to all put that together to have a holistic, sustainable story in terms of technology and geoscience knowledge.'

Nina Marie Hernandez

CEO, Iraya Energies



EAGE Awards and Best Local Chapter Prize

EAGE Awards are regarded as highly valuable and prestigious within the geoscientific community. As an Association with the mission of promoting innovation and technical progress, EAGE recognises the efforts of its members and their contributions to development and cooperation in geoscience and related engineering disciplines through 12 award categories.



- The Guido Bonarelli Award to Stian Hegna
- The Nigel Anstey Award to Kim Senger and co-authors Luiz Gonzaga Jr, Sten-Andreas Grundvåg, Peter Betlem, Andreas Laake, Lilith Kuckero, Atle Mørk, Sverre Planke, Nil Rødes, Aleksandra Smyrak-Sikora, Tom Birchall and Rafael Kenji Horota
- The Loránd Eötvös Award to Anton Ziolkowski
- The Norman Falcon Award to Diveena Danabalan and co-authors Jon G. Gluyas,
- Colin G. Macpherson, Thomas H. Abraham-James, Chris J. Ballentine, Josh J. Bluett and Peter H. Barry
- The Ludger Mintrop Award to Alessandro Arato and co-authors Federico Vagnon and Cesare Comina
- The Robert Mitchum Award to Jonas Preine and co-authors Jens Karstens, Christian Hübscher, Gareth J. Crutchley, Timothy H. Druitt, Florian Schmid and Paraskevi Nomikou
- The Arie van Weelden Awards to Wen Song and Leandro de Figueiredo
- The Alfred Wegener Award to Tao Yang
- The Conrad Schlumberger Award to René-Édouard Plessix
- The Honorary Membership Award to George Apostolopoulos
- The Desiderius Erasmus Award to Kamy Sepehrnoori



EAGE Local Chapters are scientific communities based around a certain area (city, region or country) actively collaborating with the Association, promoting geoscience, the work of EAGE and the training and professional update of their members. Every year EAGE reviews their activities and honours the most active Chapters by assigning two prizes. Congratulations to **Local Chapter Netherlands** for being the winner of the 2023 'Best Local Chapter of the Year' prize!

Workshops, Short Courses and Field Trips

As usual, a diverse range of Workshops, Short Courses and Field Trips were on offer before and after the main conference and exhibition. These supplementary activities provided participants with valuable opportunities to acquire new skills, broaden their perspectives and enhance their academic or professional profiles.

15 Workshops covered topics in geology, geochemistry, geostatistics, geophysics, geothermal, hydrogen and CCS.

4 Field Trips were exciting journeys: an up-close look at cutting-edge exploration and production technologies and the laboratories at OMV's core activity centre, a tour of historical buildings in Vienna, a site visit to the Neogene of the Vienna Basin, and a meeting on geothermal energy utilisation in the Styrian Basin.

3 Short Courses focused on transferable skills for the energy transition, with offerings on offshore wind, CCS and new technologies pertinent to decarbonisation strategies.

The introduction of **All Access Pass** this year was well received. It played a pivotal role in enhancing the overall event experience, allowing participants to make the most of their involvement in the EAGE Annual 2023.





Community Activities

Through our network of communities and local chapters, we explored inter-disciplinary connections in geosciences and exchanged experiences that supported our members' professional development and personal growth.

Top-rated community activities this year included:

- Interactive Session: Skills for the Energy Transition
- Geosecrets of Vienna
- Professional Portrait Photography
- Interpretation Terminator: Rise of the Machines?
- Learning Geoscience & EarthDoc Demo



'It's such a wonderful conference that no matter if you are from academic or from industry, you can get something from here.'

Boyu Cui
University of Stavanger

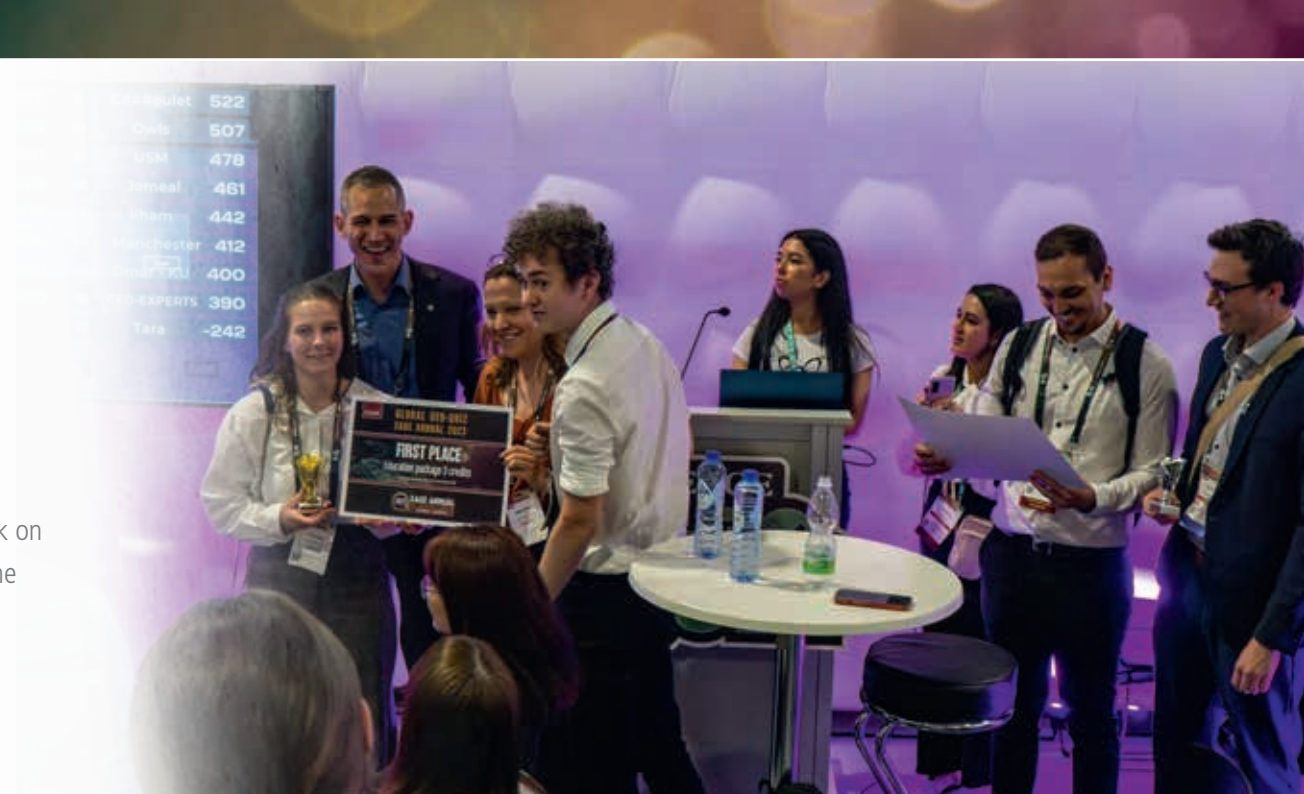
Student Activities

Students attending the Annual Conference also found dedicated activities to navigate the next steps of their academic path.

This year's Laurie Dake Challenge requested participating student teams to work on development plans for geothermal energy exploration projects. Let's cheer for the team from The University of Manchester for winning the challenge!

The renowned GeoQuiz was where students were challenged to show their geoscientific knowledge and skills in a fun environment.

Local students in Vienna and student chapter representatives were brought together to meet and talk about their experience and enjoy social interaction with their peers.



'I recommend the other students to come because it's a very good experience. Here we can talk with all the professionals, we can look for the new technologies that we do not have in our university yet. I think it's one of the opportunities that you can't lose.'

Eduardo Leaubon

Universidade Federal Fluminense





Networking and Social Programme

The networking and social activities provided delegates with the opportunity to connect and engage with their peers in a relaxed setting beyond the conference sessions.

The Icebreaker Reception set the perfect stage for initiating conversations and getting to know one another. The Conference Evening held at Kursalon Vienna, a stunning 18th century renaissance-style venue, was filled with good vibes, enchanting music and joyful dancing.

Partners and family members of delegates were also invited to join in on all the social activities. In addition, they had the opportunity to go on a walking tour exploring Vienna's historic gems and experiencing the city's dynamic local cuisine and renowned coffee culture.



of attendees valued the **level of new contacts** made during the event

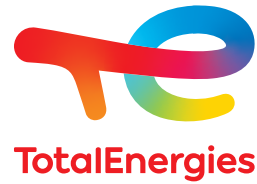


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