

Carbonate reservoir management takes centre stage at latest WIPIC workshop

The 3rd EAGE Workshop on Well Injectivity and Productivity in Carbonates (WIPIC): Reservoir Management in Carbonates was held in Doha, Qatar on 18-20 November 2019. Co-chairs Dominique Guérillot and Oussama Gharbi report on the success of this year's workshop.



The three-day workshop brought together specialists from 24 organizations.

Denis Voskov, professor at Delft University of Technology, the Netherlands, and Henri Bertin, director, National Centre for Scientific Research (CNRS), University of Bordeaux, France presented excellent technical keynote speeches respectively on 'Uncertainty Quantification and History Matching for Naturally Fractured Carbonate Reservoirs' and 'New Insights on the Use of Polymer and/or Nanoparticles to Reinforce Foam for EOR Operations'. These keynotes introduced the Day 2 and 3 sessions and posters on Reservoir Characterization, Digital Rock Physics, Reservoir Simulations, EOR and case studies.

Following successful events in 2015 and 2017, the decision this year was to extend the focus of the WIPIC workshop. The main topic reviewed optimal approaches to the management of worldwide carbonate reservoirs, with emphasis on the Middle East. Judging by the wide range of technical presentations and increase in international participants, it was a resounding success.

The workshop began with a one-day course on 'Integrated Geological Models for Assessing Uncertainties in Production Data' presented by Dominique Guérillot, professor at Texas A&M at Qatar. The course reviewed main techniques for building an integrated reservoir model and examined potential workflows for field development and history matching processes.

The technical programme of the workshop kicked off with a stimulating presentation from Igor Potapiev, vice president, geosciences and reservoir, North Oil Company on 'Carbonates Reservoir, Heterogeneities and Production'. This opening keynote was illustrated by the example of the giant Al Shaheen field. The oil field, situated off the north east coast of Qatar, is one of the largest and most complex of its kind in the world.

A panel discussion followed featuring leaders from the industry in Qatar: Jas-

sim Al-Khoori, asset manager, North Oil Company; Haytham Abdulaziz Al-Meer, petroleum engineering manager, Qatar-gas Company; Mounir Ababou, pressure pumping lead, Baker Hughes and Surej Kumar Subbiah, technical and geomechanics advisor, Schlumberger as well as Khaled Sassi, formation evaluation technical manager, Schlumberger, and Prof Dominique Guérillot. The panellists set up the scene on various strategic topics answering very openly on the main technical challenges in the characterization and production of carbonate reservoirs, well stimulation and enhanced oil recovery (EOR) projects.

The workshop attracted reservoir geologists, geophysicists, petro-physicists and engineers and specialists in geo-statistics, applied mathematics, seismic, geomechanics, well stimulation, well test, and reservoir managers. It was supported by Total (Platinum sponsor), Baker Hughes (Registration sponsor), and Schlumberger (Lanyard sponsor), together with the volunteering contributions of the technical and scientific committee. We encourage you to download the extended and full papers already available on EarthDoc.

Meantime the next bi-annual workshop is already a highly anticipated event in Doha, Qatar in 2021.



Poster presentations were part of the workshop programme.