

OPM summit 2026 – Technical program

Location: TNO Utrecht – Princetonlaan 6, 3584 CB Utrecht, Netherlands

Day 1 – April 22, 2026

9:00-9:15: Registration and coffee

9:15-9:30: Welcome words and introduction to summit program

9:30-10:30: Session 1

- 9:30-9:50: OPM Flow, status and ongoing work (Atgeirr Flø Rasmussen, SINTEF)
- 9:50-10:10: Status and experiences of implementing OPM Flow on Equinor asset models (Edel Reiso, Equinor)
- 10:10-10:30: Failures in OPM (Alf Birger Rustad, Equinor)

10:30-10:45: Break

10:45-12:05: Session 2

- 10:45-11:05: A resource-efficient approach to parameter tuning of AMG-based preconditioners (Erik Sæternes, Simula)
- 11:05-11:25: Transmissibility based pre-coarsened partitioning for reservoir simulation (Andreas Thune, Simula)
- 11:25-11:45: Preliminary results from GPU-parallelizing matrix assembly in OPM Flow for SPE11C (Tobias Meyer Andersen, SINTEF)
- 11:45-12:05: New CPR based solver for OPM Flow (Vinicius Oliveira Martins, UNICAMP)

12:05-13:00: Lunch

13:00-14:30: Session 3

- 13:00-13:20: Compositional simulation in OPM Flow: current status and the way forward (Kai Bao, SINTEF)
- 13:20-13:40: Reservoir engineering workflow to construct compositional models (Negar Khoshnevis Gargar, TNO)
- 13:40-14:00: CO₂ injection in depleted hydrocarbon reservoirs: plans and perspectives for OPM Flow development (Tor Harald Sandve, NORCE)
- 14:00-14:30: Open discussion on OPM Flow roadmap for modelling of underground hydrogen storage

14:30-14:45: Break

14:45-16:00: Session 4

- 14:45-15:05: Improved flexible restart (Torbjørn Skille, Equinor; Bård Skaflestad, SINTEF)

- 15:05-15:25: Some past and future robustness improvements for wells and well groups (Stein Krogstad, SINTEF)
- 15:25-15:45: Status of reservoir coupling (Markus Blatt, OPM-OP)

15:45-16:00: Break

16:00-17:10: Session 5

- 16:00-16:30: Local grid refinement in OPM Flow: today and beyond (Antonella Ritorto, OPM-OP; Artur Castiel, TNO)
- 16:30-16:50: New features in ResInsight (Magne Sjaastad, Ceetron Solutions)
- 16:50-17:10: Water injection simulation with OPM Flow (Vegard Kippe, Equinor)

17:10-17:15: Closing remarks day 1

18:30-22:00: Dinner, bowling and drinks

Day 2 – April 23, 2026

8:45-9:00: Welcome coffee break

9:00-10:10: Session 6

- 9:00-9:20: TNO latest developments and planned contributions to OPM Flow (Artur Castiel, TNO)
- 9:20-9:40: New matrix class in DUNE (Santiago Ospina de los Ríos, OPM-OP)
- 9:40-10:00: Coupling power-plant and reservoir models: a workflow for integrated surface–subsurface applications (Firdovsi Gasanzade, Kiel University; Francesco Witte, independent researcher)
- 10:00-10:15: TNO usage of OPM Flow in geothermal applications (Sławomir Szklarz, TNO)

10:15-10:30: Break

10:30-12:00: Session 7 – ML and AI applications

- 10:30-10:50: Machine learning in OPM Flow: hybrid Newton developments and practical applications (Antoine Lechevallier, NORCE)
- 10:50-11:10: Data-driven modeling of hysteresis in porous media: neural network surrogates coupled with the OPM Flow reservoir simulator (Birane Kane, NORCE)
- 11:10-11:25: Platform for AI enhanced simulation (Finlay Bertram, Talos Innovation)
- 11:25-12:00: Open discussion on outlook for AI-related functionalities and AI-assisted development in OPM Flow

12:00-13:00: Lunch

13:00-14:15: Session 8

- 13:00-13:20: Coupling TPSA geomechanics to OPM Flow (Svenn Tveit, NORCE)
- 13:20-13:40: FAIR Workflows with OPM Flow: History Matching FluidFlower and Benchmarking on SPE11 (David Landa Marban, NORCE)
- 13:40-13:55: Tumey Hill dynamic modelling results (Zuzanna Crawford, University of Aberdeen)
- 13:55-14:10: Ensemble-based CO₂ storage risk analysis using OPM Flow (Michael Liem, Storra)
- 14:10-14:25: EVEREST optimization framework and link to OPM Flow (Eduardo Barros, TNO)

14:25-14:45: Break

14:45-15:50: Final discussions and future outlook

- 14:45-15:30: Last chance for undiscussed topics
- 15:30-15:50: Collecting additional wishes and ideas for OPM Flow

14:50-16:00: Closing remarks day 2

16:00-17:00: Networking drinks