



# 2nd meeting in the series of workshops dedicated to basin modeling IFPEN - Rueil-Malmaison (near Paris), 8-9 June 2021

This series of workshops is aimed at bringing together leading experts representing the energy industry and research stakeholders in academia to engage in open discussions and exchange their experiences related to future applications of basin modeling for subsurface exploration.

This second edition will focus on recent R&D advances in the field of integrated basin analysis in the context of the energy transition and include identification of the modeling tools required to address specific aspects of this transition. Special attention will be paid to the implementation of efficient

workflows and the associated benefits to tackle specific issues.

## **Content definition of Topics**

#### **Complex fluids modelling**

Understanding primary and secondary controls on hydrocarbon and non-hydrocarbon fluids (CO<sub>2</sub>, H<sub>2</sub> S, N<sub>2</sub>,...)

#### Gas modelling (generation and accumulation)

Achieving efficient and responsible exploration of gas, by improved numerical modelling of the hydrocarbon generation and accumulation

#### Stress and pore pressure prediction

Understanding and modelling of the complex interactions between structural history, mechanical

#### Stratigraphic forward modelling

New approaches and numerical tools, for better understanding of sedimentary basin filling architecture, plays, and source rocks

#### Uncertainty quantification and management integrating machine learning

New basin modelling workflows and cutting-edge technologies addressing uncertainty while preserving efficiency

# Evolving applications for basin modelling (Geothermal exploration, Subsurface storage – CCS ...)

Applying basin modeling using novel techniques to impact sustainable energy development and subsurface storage

### **Steering Committee**

Sascha Doering, ENI Michael Erdmann, Equinor Carlos Fracalossi, Petrobras Daniel Herreira, BHP Javed Ismail, Saudi Aramco Marek Kacewicz, Chevron Cedric Pellan, Repsol Johannes Wendebourg, Total

### **IFPEN Organizing Committee**

Marie-Christine Cacas-Stentz Didier Granjeon Nicolas Maurand **Contact: BMworkshop@ifpen.fr** 

Evolving basin modeling applications: challenges, gaps and solutions for de-risking subsurface exploration 15 October 2020

Link to the web page :