

Rehab M. El-Maghraby is a professor of gas and petrochemicals engineering and Vice Dean for Postgraduate Studies at the Faculty of Petroleum and Mining Engineering, Suez University, Egypt. She also serves as adjunct faculty at the American University in Cairo and leads the Enhanced Oil Recovery Laboratory at Suez University. With more than 20 years of experience in the energy sector, she is a consultant in decarbonization and CCUS. Dr. Rehab earned her PhD in CO₂ storage from Imperial College London in 2013, becoming the first Egyptian woman to obtain a PhD in petroleum engineering, and has published over 30 research papers on energy-related topics.

Sonia Fidder is an associate professor of applied mathematics at Stellenbosch University in South Africa, where she has been conducting research on the analytical modelling of momentum transfer in various types of porous media for nearly two decades. Through her work, she bridges mathematical theory and practical applications, contributing to the broader understanding of transport phenomena in complex materials. Her long-standing commitment to both scientific excellence and mentorship embodies the spirit of diversity and inclusion in academia.





David Rieder is a university researcher in the Department of Mechanical Engineering at the Eindhoven University of Technology (TU/e) in the Netherlands. His research focuses on modelling reactive flow in porous materials to advance the development and optimization of sustainable energy systems. Holding an MSc from the Karlsruhe Institute of Technology and a PhD from TU/e, he has more than eight years of international research experience. Through his work in multicultural research environments, he has gained deep appreciation for the challenges and immense benefits that diversity and inclusivity bring to scientific collaboration.

Andry Razakamanantsoa is a Senior Research Scientist at Université Gustave Eiffel (Nantes, France). His research focuses on geomaterial—environment interactions, particularly the coupling between geomaterials and the atmosphere. He is a specialist in multi-scale and multiphysics processes in porous media, bridging laboratory investigations and full-scale experiments in the field of earthworks and earthen construction. His work aims to enhance the sustainability and resilience of geomaterials under environmental changes. He is also strongly committed to promoting gender equality, diversity, and inclusion across all research activities and collaborative projects he leads.

