



## Short-term Course cum Workshop on Enhanced Petroleum Recovery Processes – Priorities, Challenges and Opportunities



30<sup>th</sup> Oct - 2<sup>nd</sup> Nov, 2023



Chemical Engineering, IIT Guwahati

### About the Workshop

As a pre-conference event of [International Conference on Petroleum Hydrogen and Decarbonization 2023](#), the workshop will provide a hands-on introduction to enhanced petroleum recovery processes. Key learning to be covered in this workshop include:

- Develop a screening approach to select and link appropriate EOR processes to particular candidate reservoirs,
- Recognize importance of timing of implementation based on reservoir engineering considerations,
- Identify key decision/problem issues with regard to feasibility, monitoring and surveillance of EOR processes,
- Gain a general understanding of the EOR principles and various process mechanisms and key issues and factors that one must consider in field applications, and
- Special emphasis on the EOR needs, optimal strategies, challenges and opportunities in India and the possible way forward.

### Instructor

Dr. Hemanta Sarma  
Professor, Department of Chemical  
and Petroleum Engineering,  
University of Calgary, Canada



### Who Should Attend

This course is designed for Industry personnel, Policy Maker, Scientist, Faculty, Researcher and Students from oil and gas domain. The course is especially designed for reservoir engineers, production engineers, geoscientists and management personnel who are involved in the screening and planning for EOR/IOR applications in the near future.

### Registration

- Registration fee includes GST 18% and full access to workshop activities, and refreshment during workshop.
- Participants need to fill the Registration Form on or before **27 October 2023**.
- Registration fees are non-refundable.
- Registration fee does not include lodging and boarding charges.
- Registration fee:

Industry Participants	: ₹12,000 / \$150
Academician	: ₹6,000 / \$75
Post-Doc	: ₹2000 / \$25
Student (UG, PG & Ph.D.):	₹1000 / \$13

- Registration Link/QR code:



<https://forms.gle/WjaccGZ1XRKJ5xR5A>

## Course Content

Course will cover intricacies of EOR with detailed discussion on Reservoir Engineering aspects for EOR; Reservoir characterization; Fluid Characterization; EOR Screening: When is the time? What's the size of the PRIZE?; Chemical EOR; Miscible EOR; CO<sub>2</sub> Sequestration; Thermal EOR; HSE implications, Monitoring and Surveillance; Review and Summary; EOR, present and future.

## About the Instructor

Dr. Hemanta Sarma's research interests are in the areas of enhanced oil recovery, improved oil recovery and reservoir engineering. He is a Professor of Oil and Gas Engineering at the University of Calgary. Formerly, he was the Chairman and Professor of the Petroleum Engineering Department at the Petroleum Institute, Abu Dhabi, 2009-2014. He was also a Professor and the inaugural Reg Sprigg Chair in Petroleum Engineering at the University of Adelaide's Australian School of Petroleum (ASP) during 2002-2009, and later, an Honorary Adjunct Professor (2012-15). He was the founding Director of the Centre for Improved Petroleum Recovery (CIPR) at the ASP and a Research Project Leader (2003-2006) for CO<sub>2</sub> sequestration through enhanced petroleum recovery and enhanced coal-bed methane recovery in the CO<sub>2</sub>CRC, a major Australian Cooperative Research Centre for Greenhouse Gas Technologies. In addition, he has been a consultant and training provider in EOR and reservoir engineering to a number of petroleum companies and R&D entities worldwide. Currently he serves as the 2020-24 International External Advisor for Petroleum Engineering Programme as an appointee of the University Senate of Universiti Teknologi PETRONAS (UTP) of Malaysia. Dr. Sarma holds a B.Tech. with Honours in petroleum engineering from the Indian Institute of Technology (Indian School of Mines), an M.Sc. in chemical engineering with specialization in reservoir engineering from University of Calgary and a Ph.D. in petroleum engineering from University of Alberta. Since 2020, he has been an Honorary Member of SPE and American Institute of Mining, Metallurgy and Petroleum Engineers (AIME).

## Bank Details

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