

Flow Assurance in the Petroleum Industry

Overview

Flow assurance is about ensuring that fluid flow in a pipeline or a well. Flow assurance deals with a cost-effective approach to produce and transport fluids from the reservoir to a processing facility. Information on fluid properties and working conditions are vital in preventing the formation and deposition of unwanted solids, such as asphaltenes, wax, hydrates, etc. If not properly controlled these particles may precipitate resulting in plugging the oil and gas pipeline. Removal of a hydrate or asphaltene/wax plug in a subsea pipeline can be very costly and hazardous. The participant will be presented with adequate information to understand the basics of fluid phase behavior and its applications for flow assurance in petroleum industry.

This intensive TWO week course have considerable time to be devoted to basics, application and exercises to ensure the practical outcome. Course participants will learn these topics through lectures. Also case studies and assignments will be shared to stimulate research motivation of participants.

Dates for the Course	4th March - 16th March, 2019
Host Institute	IIT Madras
No. of Credits	2
Maximum No. of Participants	60
You Should Attend If...	<ul style="list-style-type: none">▪ You are a Petroleum Engineer/Chemical Engineer or research scientist interested in understanding the fluid phase behavior and flow assurance in petroleum industry.▪ You are a student or faculty member from academic institution interested in learning insights into flow assurance in petroleum industry.▪ You are working in an upstream and downstream industry and interested in petroleum production and refining operations, particularly involving flow assurance issues.
Course Registration Fees	<p>The participation fees for taking the course is as follows: Student Participants: Rs. 2000 Faculty Participants: Rs. 8000 Government Research Organization Participants: Rs. 12000 Industry Participants: Rs.12000</p> <p>The above fee is towards participation in the course, the course material, computer use for tutorials and assignments, and laboratory equipment usage charges, if any.</p> <p>Mode of payment: Online bank transfer to following account Account Name : CCE IIT MADRAS Account Number : 36401111110 (SBI, IIT Madras) IFSC Code : SBIN0001055 Please send the details and the copy of registration form to: gianpeiitm@gmail.com</p>
Accommodation	<p>The Faculties from academic institutes and industrial participants will be provided shared guest house accommodation in guest house of IIT Madras on payment basis and on the availability. The student participants (and faculty and industrial participants, if guest house accommodation is not available) may be provided with hostel accommodation, depending on the availability, and on payment basis. Request for hostel accommodation may be submitted through the link: http://hosteldine.iitm.ac.in/iitmhostel</p>

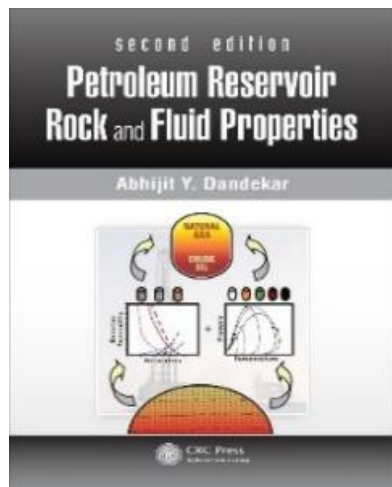
Course Faculty



Dr. Abhijit Dandekar is currently working as Professor and Chairman of the Department of Petroleum Engineering at University of Alaska Fairbanks. He holds a Ph.D. in Petroleum Engineering from Heriot-Watt University-Edinburgh, UK (1994). He has more than 33 years of experience out of which 3 years in the petroleum industry. He has served in different countries including India, UK, Denmark, China, and USA as a researcher and visiting professor. He is recipient of numerous notable awards and honors, such as SPE "Regional

Distinguished Achievement Award for Petroleum Engineering Faculty", April 2015, SPE "Distinguished Membership Award" 2014 to name a few. He has peer-reviewed over 95 technical papers in various journals and conferences of repute and written numerous research reports. His area of expertise includes Petroleum Reservoir Fluid Phase Behavior, Solid Organic Deposition, Hydrates, Asphaltene/Wax Deposition, Measurement Gas Injection, PVT Studies, Flow through Porous Media, Modeling of Rock-Fluid Properties, CO₂ Sequestration, Wettability, Coalbed Methane, GTL Transportation, and Low Salinity Water Injection.

He is author of a very famous book entitled '**Petroleum Reservoir Rock and Fluid Properties**' (shown below) and also co-authored a book entitled '**Petroleum Fluid Phase Behavior: Characterization, Processes, and Applications**'.



Petroleum Reservoir Rock and Fluid Properties (CRC Publishers/Taylor and Francis, Boca Raton, Florida, ISBN 0849330432 & ISBN 9781439876367). 1st edition published February 2006 and 2nd edition published February 2013.



Dr. Jitendra S. Sangwai is currently working as an Associate Professor in the Petroleum Engineering Program, at Indian Institute of Technology (IITM) Madras, Chennai, India. He holds a M. Tech. and Ph. D. in Chemical Engineering from IIT Kharagpur and IIT Kanpur, respectively. He worked with Schlumberger for a brief period before moving to academics. His research interest lies mainly in the field of gas hydrates, enhanced oil recovery,

rheology of complex fluids, and nanotechnology for oil and gas engineering.

Last date of registration for this course using below website URL link: 15th January 2019.

Only 60 seats are available.

Only selected candidates will be intimated through e-mail by the course coordinator.

Intimation of selection to the course will be done regularly on first-come-first serve basis.

Last date for the intimation of selection will be 21st January 2019.

Any request to register after deadline can be considered if the vacancy is available. For this, please contact on below email id.

Certificate will be provided to all the participants.

The registration fee shall be paid through internet banking to the following account:

- Account Name : CCE IIT MADRAS
- Account Number : 36401111110 (SBI, IIT Madras)
- IFSC Code : SBIN0001055

Please send an email with the bank transfer details and the copy of registration form to: gianpeiitm@gmail.com

(The registration fee is non-refundable).

Course Coordinator

Name: Dr. Jitendra Sangwai

Phone: 044 2257 4825

E-mail: gianpeiitm@gmail.com

URL: <http://www.gian.iitkgp.ac.in/GREGN/index>

Course ID: **171003C02**

Address:

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Associate Professor

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