

National Conference on Upstream Petroleum Engineering – 2019
Venue: Mini Auditorium, IIT Guwahati

Program Schedule			Time	
			Start	End
Inauguration (2nd Nov)	Registration		08:30:00	09:00:00
	Inauguration		09:00:00	10:00:00
	High Tea Break		10:00:00	10:20:00
Day 1 (2nd Nov)	Session 1: (Chair: Prof. Ravi Sharma and Co-Chair: Prof. Archana Nair)			
	Plenary Lecture 1: “Non-Seismic Geophysical Methods: Aid to Hydrocarbon Exploration and Reservoir Monitoring” Prof. Bimalendu B. Bhattacharya		10:20:00	11:00:00
	Invited Lecture 1: “Carbon Dioxide Capture and Storage” Shri. Sumit Mishra		11:00:00	11:30:00
	Invited Lecture 2: “Advances in Slickwater Fluid Design for Fracturing Applications” Prof. Sandeep D. Kulkarni		11:30:00	12:00:00
	Oral Presentation 1: “Grain Size Distribution of Reservoir Rocks at a Micro-scale using Digital Image Analysis and its Effect on Intergranular Porosity” Shreya Katre, Arnab Kumar Pal, Siddharth Garia, K Ravi and Archana M Nair		12:00:00	12:20:00
	Oral Presentation 2: “Downhole Rheology Modeling for Water-base Drilling Fluids” Dileep Kumar Balaga, Navneeth Kumar Korlepara, and Sandeep D Kulkarni		12:20:00	12:40:00
	Oral Presentation 3: “Seismic Analysis of Oil Storage Tanks in Liquefiable Soft Soil” P. A. Yadav, Seema Kumari, D. K. Singh		12:40:00	13:00:00
	Lunch & Poster Session (13:00 - 14:00)			
	Session 2: (Chair: Mr. Saloma Yomdo and Co-Chair: Prof. Raghvendra Gupta)			
	Keynote Lecture 1: “ Frontiers in Oil and Gas Production Research” Prof. Tarkeshwar Kumar		14:00:00	14:30:00
	Invited Lecture 3: “Multiphase Flow in upstream Petroleum Engineering - Challenges and Opportunities” Prof. Gargi Das		14:30:00	15:00:00
	Oral Presentation 4: “Subsurface Modeling Architecture with Cloud and Edge Computing” Sashi Gunturu, Dan Morgan, Amit Kumar, Mukesh Kumawat, Lalan Ranjan		15:00:00	15:20:00
	Oral Presentation 5: “Single and Multi-objective optimization for Gas Lift Allocation for a group of Continuous Gas Lifted Wells of a Mature Offshore Oil Field” Ajoy Lal Dutta, Minati Das		15:20:00	15:40:00
	Tea Break & Poster Session		15:40:00	16:00:00
	Session 3: (Chair: Mr. Krishna Kanta Das and Co-Chair: Prof. Pankaj Tiwari)			
	Oral Presentation 6: “Analytical treatment of liquid fallback and production loss due to wellhead and near wellhead flow restrictions in Intermittent Gas Lift Wells” Avanish Chaubey, S.K. Malhotra, Sunil Arora, Saurabh Rajvanshi, and M.P Yadav		16:00:00	16:20:00
	Oral Presentations (Pitch Talk for Posters):		16:20:00	17:00:00
	1. “Analysis of Kinematic Viscosity for Assam crude oil through pipeline by Varying Temperature” Bondita Robidas, Subrata B. Gogoi			
	2. “Smart Water (SMW) flooding in a part of oil field of Upper Assam Basin” Bhaskarjyoti Saikia, and Minati Das			
	3. “Experimental Investigation of the role of Nanoparticles in Interfacial Tension Reduction, Wettability Alteration and Rheology Modification” Vikas Kumar Sharma, Anugrah Singh, and Pankaj Tiwari			
	4. “Prediction and Alarming for Complications during Oil Well Drilling: Case Study with Field Data” Senthil Selvaraju, Viswanth Ramba, Senthilmurugan S, and Uppaluri R			
5. “Demulsification of Crude Oil using naturally formulated low temperature Demulsifier” Yogesh Dhandhi, Yogesh Verma, Biswadeep Pal and Tarun Kumar Naiya				
6. “The effect of multi-plug on flow restart of waxy crude” Lomesh Tikariha and Lalit Kumar				
7. “Dynamic Viscosity Investigation of Slickwater Fluid Systems Consisting of High- Vis Friction Reducers (HVFR) Additives” Navneeth Kumar Korlepara, Sandeep D. Kulkarni, Subhranil Halder, Yudhishtir Behara, Sugato Mukhopadhyay, and Sai Kishore Akumuki				
Panel Discussion: Enhanced Oil Recovery and Improved Oil Recovery: Challenges and Opportunities (Moderator: Prof. Rakesh Kumar Vij)		17:00:00	18:00:00	
Conference Dinner (19:30 - 21:00)				

**Day 2
(3rd Nov)**

Session 4: (Chair: Prof. V. P. Sharma and Co-Chair: Prof. Sunil Kumar Khare)		
Plenary Lecture 2: “Managing Petroleum Reservoir” <i>Prof. Birendra Prasad Pandey</i>	09:00:00	09:40:00
Keynote Lecture 2: “How Big Data and IOT Changing Oil and Gas Industry” <i>Prof. Rakesh Kumar Vij</i>	09:40:00	10:10:00
Keynote Lecture 3: “EOR in Oil India Limited” <i>Mr. Saloma Yomdo</i>	10:10:00	10:40:00
Tea Break & Poster Session	10:40:00	11:00:00
Session 5: (Chair: Prof. Sandeep Kulkarni, Co-Chair: Mr. Sanjay Parulkar)		
Keynote Lecture 4: “Applications of Big Data Analytics and Artificial Intelligence in Oil and Gas Industry” <i>Prof. G.P.Karmakar</i>	11:00:00	11:30:00
Invited Lecture 4: “Digital Rock Physics: Recent Advances and Futuristic Trends in Exploration and Exploitation of Complex Reservoirs” <i>Prof Ravi Sharma</i>	11:30:00	12:00:00
Oral Presentation 7: “Application of Machine Learning techniques in production forecasting of an oil well “ <i>Hrshikesh Chavan and Rajib Sinharay</i>	12:00:00	12:20:00
Oral Presentation 8: “Production Enhancement through integrated IOR/EOR technology: An approach in a mature oilfield in West Siberian Basin, Russia” <i>Nitin Lahkar, Binayananda Bharali</i>	12:20:00	12:40:00
Oral Presentation 9: “Polymer Gel Water Shut Off Treatment in an Oil Producer of Oil India Limited – A case study” <i>Subodh Purohit, Krishna Kanta Das</i>	12:40:00	13:00:00
Lunch & Poster Session (13:00 - 14:00)		
Session 6: (Chair: Prof. G. P. Karmakar and Co-chair: Prof. Senthilmurugan S)		
Keynote Lecture 5: “Safety and Environmental Issues in Petroleum Upstream Industry” <i>Prof. V. P. Sharma</i>	14:00:00	14:30:00
Invited Lecture 5: “Computer vision enabled Drilling Automation” <i>Prof. Sunil Kumar Khare</i>	14:30:00	15:00:00
Oral Presentation 10: “Design of Solvent Formulation for Removal of Organic Deposits in Oil Wells” <i>Debarati Dey, Uttam Proadhan, and Subodh Purohit</i>	15:00:00	15:20:00
Oral Presentation 11: “A study on the effects of Injection Brine Salinity on Fractional Flow Curve during Low Salinity Waterflooding in a part of Upper Assam Basin” <i>Nayan Medhi and Minati Das</i>	15:20:00	15:40:00
Oral Presentation 12: “Effect of naturally derived Bio-additives on Indian Heavy crude oil for efficient transportation through pipeline” <i>Biswadeep Pal, Prabhat Shekhar, and Tarun Kumar Naiya</i>	15:40:00	16:00:00
Tea Break & Poster Session	16:00:00	16:15:00
Session 7: (Chair: Mr. Subodh Purohit and Co-Chair: Prof. Pankaj Tiwari)		
Oral Presentation 13: “Application of Chemostratigraphy in Andimadam Formation, Nagapatnam Sub-Basin, Cauvery Basin” <i>Shafali Sayana, Nidhi Srivastava and S P Agrawal</i>	16:15:00	16:35:00
Oral Presentation 14: “Assessment of Flow Stability and Mitigation of Slugging in a Deep Water Field in East Coast of India” <i>Simanta Hazarika, Ravishankar, Mahadeo Mandal, and Sunil Arora</i>	16:35:00	16:55:00
Oral Presentations (Pitch Talk for Posters): 1. “Effect of Ageing on Rheological and Filtration Properties of Water-Based Drilling Fluid at Elevated Temperatures” <i>Pranav Kumar, Pratham Choudhary, Mukarram Beg, Shivanjali Sharma</i> 2. “Impact of Rod-Tubing Contact Load on Performance of Progressive Cavity Pump in Deviated Wells- A Case Study” <i>Saurabh Rajvanshi, Sunil Arora, S.K. Malhotra, Basudeb Adhikary, M.P. Yadav, Avinav Kumar, Amrat Bansal, and Devendra P. Gaur</i> 3. “Estimation of Porosity and Permeability of Sedimentary Rock from Digital Image Analysis Techniques” <i>Arnab Kumar Pal, Siddharth Garia, K Ravi and Archana M Nair</i> 4. “High Pressure Rheology of Gas Hydrate Slurries Formed from Water-Hexane Multiphase Systems” <i>Gaurav Pandey, Praveen Linga, and Jitendra S. Sangwai</i> 5. “Study on Shale Rocks of Kachchh Basin to Estimating the Petrophysical Properties of Jhuran Formation” <i>Sankari Hazarika, Shubham Saraf, Ajendra Singh and Bhawanisingh G Desai</i> 6. “Visualization of flow patterns in microchips for Enhanced Oil Recovery” <i>Shilpi Sarmah Subrata B Gogoi, Syeda Ruhie Nikhar, Fan Xianfeng</i> 7. “Anomaly Detection During Oil Well Drilling Operation in Vertical Wellbores” <i>Viswanth R, S Senthil, Senthilmurugan S, Muthukumar P</i>	16:55:00	17:30:00
Valedictory	17:30:00	18:00:00
Dinner (19:30 - 21:00)		

Poster Session
Venue: Mini Auditorium Foyer

1. “Durable and Deformable Superhydrophobic Cotton Developed Via Chemically Reactive Protein Nanoparticles” *Arpita Shomea , Adil Majeed RATHER and Uttam Manna*
2. “An Overview On Mumbai Offshore Basin & Upper Assam Shelf” *Darsana Kakati , Jugesh Kumar Neog*
3. “Experimental Investigation On Water Hyacinth as an Eco-Friendly Additive for Water-Based Drilling Mud” *Purnayan Mitra, Sakshi Srivastav, Varshita Singh and Rohit Arora*
4. “An Experimental Analysis On Vegetation Stress Induced by Hydrocarbon Microseepage” *Shailesh Kumar Yadav, Adnan Ahmad, and Archana M. Nair*
5. “Estimation Of Pore Size Distribution From Thin Section Microscopy Image Data Of Sandstone Samples, Kachchh Basin, India” *Shubham Saraf , Ajendra Singh and Bhawanisingh G Desai*
6. “Calibration and Standardization of in House Fabricated Helium Gas Porosimeter” *Siddharth Garia, Arnab Kumar Pal, Ande Bhuvaneswari, K Ravi and Archana M Nair*
7. “Dynamic Model for Treatment of Oil Field Water of Upper Assam Basin” *Tapan Jyoti Gogoi, Subrata Borgohain Gogoi, Monem Kallel, Pranab Boral and Debasish Konwar*
8. “Employing Nanotechnology in Bridging System to Improve Drilling Efficiency in Mature Fields” *Vishesh Sharma and Vibhor Pandey*
9. “An Insight On Proppant Technology: Spherical Vs. Non-Spherical Proppant” *Shivshambhu Kumar and Subhash N Shah*
10. “Catalytic Dry Reforming of Methane- An Approach Towards Natural Gas Exploration” *Munmi Bhattacharyya and Prakash D. Vaidya*
11. “Modeling Pore-Scale Phenomena During Enhanced Oil Recovery of Heavy Oil” *Venu kondala Rao Angirekula, and Raghvendra Gupta*
12. “Non-isothermal kinetics of co-pyrolysis of Indian oil shale and rubber seed shell and characterization of pyrolytic products” *Bhargav Baruah , Ali Shemsedin Reshad , and Pankaj Tiwari*