CALL FOR PAPERS

PETROTECH-2019
13th International Oil & Gas Conference and Exhibition
New Delhi-NCR, India
10th - 12th FEB’ 2019

India Expo Centre, Greater Noida (Delhi-NCR), India

Theme: Shaping the New Energy World through Innovation and Collaboration
Dear All,

13th edition of International Oil & Gas Conference and Exhibition, PETROTECH-2019 is being organized by Oil & Natural Gas Corporation Limited, under the aegis of Ministry of Petroleum and Natural Gas, Government of India from February 10-12, 2019 at India Expo Centre, Greater Noida (Delhi-NCR), India.

PETROTECH is the flagship event of the Indian hydrocarbon industry that is being organized biennially since 1995. During past 12 editions, the PETROTECH series has given an opportunity for national and international experts of the oil & gas industry to exchange views and share knowledge, expertise and experiences. This 13th edition promises to continue with the rich legacy of this prestigious event by bringing to you a rich variety of diverse, pertinent and eminently interesting subjects of the oil & gas industry besides showcasing the technological depth and knowledge range of this industry to the wider global audience.

In current scenario of changing global energy basket, PETROTECH-2019 offers an excellent opportunity to hydrocarbon industry, their associates and academia to interact and debate the latest advances in hydrocarbon sector, which can be leveraged for meeting global energy requirements.

PETROTECH-2016 was a great success with more than 1200 abstracts received, out of which 287 papers were accepted for presentation in concurrent 24 Oral and 15 Digital sessions. In view of emerging global economic, business & environment scenario and changes in landscape, PETROTECH-2019 is an added opportunity for you to contribute to the world of petroleum with your innovative ideas.

On behalf of ONGC, the host organization and in my personal capacity as the Chairman, Technical Committee, PETROTECH – 2019, it gives me immense pleasure to invite you for an active and involved participation in PETROTECH – 2019 by contributing technical papers (Oral & Digital Poster) on the subjects scheduled for the different sections of technical deliberations in the area of your interest and expertise. Abstract submission must be made on-line through www.petrotech.in.

I look forward for your participation in PETROTECH-2019 to make it a highly rewarding and memorable experience.

Yours sincerely

(Sanjay Kumar Moitra)
Chairman, Technical Committee PETROTECH-2019 &
Director (Onshore), Oil & Natural Gas Corporation Limited
## Exploration: Geology & Geophysics
- Exploration & Development Geology
- Exploration in Frontier Areas
- Petroleum Geochemistry / Geophysics
- Petroleum Economics, Resource Appraisal & Risk Analysis
- Emerging Technologies in Exploration & Development
- Small & Marginal field Development
- Deepwater Exploration: Challenges in Indian Subcontinent
- 4D Seismic in Carbonate Reservoir-Challenges and Opportunities
- Near-Surface Characterization for Better Imaging
- Resource Estimation
- Exploration & Development Contract Management
- Sub Basalt Seismic Imaging-Tools, Techniques and Interpretation

## Drilling and Completion Technologies
- Advances in Drilling Technology
- Geo-mechanics compliant well trajectory
- Extended Reach Drilling
- Managed Pressure/Under Balanced Drilling
- Well Placement/Geo-steering
- Improved Drilling and Completion Fluids
- Integrated Drilling Solutions
- Improvement in Cementing Technology for long-term Integrity
- Well Engineering
- Well Intervention
- Completion for Sand/Gas/Water Control
- Well Completions in Multi-Lateral Wells
- Conventional and Intelligent Well Completions
- Advances in Well control and Blowout prevention
- Stuck pipe prevention
- Drilling automation and Machine Learning
- Conventional & Horizontal Drilling

## Upstream Production & Development
- Development & New opportunities in Brown fields
- Advancement in production technologies
- Hydraulic fracturing, multistage fracturing and Stimulation: Challenges & advancements
- Production efficiency enhancement
- Process Engineering
- Oil & Gas Measurement- New Technologies
- Artificial Lift Technologies and Optimization
- Integrity Management of Facilities in Brown fields
- Produced Water Management
- Flow Assurance - Challenges & Mitigation
- Modular facilities for early monetization
- Scale and Corrosion Management
- Sour crude and gas Processing
- Site Restoration & Decommissioning of Oil & Gas Facilities
## Reservoir Management
- Reservoir – Characterization, Development & Management
- Reservoir Management in Brown fields and Technological Innovation
- IOR in Mature Fields
- Enhanced Oil Recovery
- Data Analytics for Smart Management of Reservoirs
- Integrated reservoir management and surveillance
- Smart Monitoring of Water Injection and Gas Injection for Reservoir Management
- Reservoir Simulation: Best practices and recent advances

## Deep Water / Ultra Deepwater Technologies
- Deepwater exploration
- Drilling challenges in Deep Water & Ultra Deepwater
- Deepwater and Ultra Deepwater Production System & Facilities
- Operation and Maintenance Challenges
- Advances in Field Development & Innovations
- Integrity Management in Deepwater Production Systems
- Deepwater and Ultra Deepwater Flow Assurance
- Sub-sea Engineering & Intervention
- Managing Risk in Deepwater/ Ultra Deepwater Projects

## HP-HT Field Development & Technologies
- HP-HT field Development & Case Studies
- Material selection in HP HT fields
- Advancement in technologies for drilling and Completion of HP-HT wells
- Health Maintenance of HP-HT Wells
- Advancement in Cementing and Mud System
- Managing corrosive & abrasive environment in HP HT fields

## Refining Technology
- Frontiers in Refining Technologies
- Low cost solutions for Euro- VI fuels
- Operation Strategies & Optimization
- Advances in Refining Catalysts
- FCC improvement processes
- Managing Heavy, Sour and Acidic Crudes
- Membrane-based Separation Technologies
- Process intensification
- Energy Efficiency Improvement
- Advances in Hydro-processing Technologies

## Petrochemical and Polymers
- Refinery-Petrochemical integration
- Feedstock options for Petrochemicals
- Advances in Petrochemical / Polymerization Processes and Catalysts
- Advanced Separation Technologies
- Advanced Polymeric Materials and Membranes
- Valorization of Refinery Streams
- Crude to Petrochemicals
Lubricants & Fuel Technology
- Emerging Technologies in Base Oils and Lubricants
- Lubes, Fuel Additives & Branded Fuels
- Fuel Quality & Emission Reduction Technologies
- Analytical Techniques & Tribological Evaluation

Pipeline Transportation and Storage
- Oil, Gas and VAP transportation
- Transportation of Heavy / waxy crude
- Risk & Reliability Analysis
- Technological Advancement in Sub-Sea/Onshore Pipeline Engineering
- Integrity Management of Pipelines
- Interface Management in Multiproduct Pipelines
- Advance Technologies: Piggable and non-piggable Pipelines
- Pipeline Surveillance & Monitoring
- Offshore Technology & Ocean Engineering
- Composite Materials for Pipelines
- Advances in Pipelines Data Management
- Corrosion Management: Advances & Case Studies

Project Management
- Best practices for Managing projects and case studies
- Challenges and risks in Upstream/Downstream Projects
- Use of Artificial Intelligence in Project Management
- Project Planning & Execution: Improvement Methods
- Project Economics and Management
- Contract Management
- Construction Management
- Risks & Challenges in Mega Projects

Digital Transformation: The next frontier in Hydrocarbon Industry
- Digitalization and Digital Revolution
- Disruptive technologies: Growth opportunities and Threats to Oil and Gas Industry
- Knowledge Management
- Integrated Asset Management/Lifecycle management of fields
- Cyber Security
- Smart Contracts
- Data Analytics, Big data & Blockchain Technology
- Digital Oil Field Implementation
- Automation and IOT in Hydrocarbon Industry
- Artificial Intelligence and Surveillance
Nanotechnology Interventions in Oil and Gas Sector

- Applications of Nanotechnology in Oil and Gas Sector
- Nano-additivized fuels and Lubricants
- Nano catalysts and additives for refinery processes
- Nanotechnology in IOR and EOR
- Nanotech interventions in surface coatings
- High value nano materials (CNT, Graphene etc) for energy applications

Emerging Renewable/Unconventional Energy Options

- Hydrogen Energy & Fuel Cells
- Surface & Underground Coal Gasification
- Coal to Liquid (CTL) & Gas to Liquid (GTL)
- Biomass Production & Gasification
- Co-processing of Biomass/Pet-coke/Pet Residue/Coal
- 2nd and 3rd Generation Biofuels / Biorefinery Concept, Enzyme Technology
- Biotechnological Interventions, Genetic Modification
- Bio-based Chemicals and Raw Materials
- Hybrid Energy Technologies: Nuclear, Wind, Wave & Geo-thermal Energy
- Solar based Energy Options/Solutions
- Coal bed Methane, Gas Hydrate, Shale Gas and Oil, Tight Gas, Oil Sands
- Advances in Fracturing Techniques to exploit Unconventional Hydrocarbons
- Algal based Biofuels
- Methanol / Ethanol Economy

E-Mobility

- Need, Issues, Challenges & Opportunities
- Energy storage devices
- Hybrid Electric Vehicles (HEV)
- Policy interventions and infrastructure

Natural Gas Development & Growth

- LNG Transportation & Re-gasification
- CNG & LPG Storage & Distribution- Advancements
- Gas-based Economy & Business Strategies
- Gas pricing and strategies
- Nitrogen Removal from Natural Gas
- City Gas Distribution (CGD)
- FLNG & FSRU
- Underground Gas Storage

Carbon Capture, Utilization and Storage

- Carbon Capture Utilisation and Storage : Case Studies & Business Models
- CO2 to Chemicals
- Electrochemical Conversion of CO2
- Carbon capture Technologies
- Carbon Emission Reduction
Operational Excellence
- Managing Integrity Challenges in Operations
- Human Resource aspects in Operational Excellence
- Reliability in Operations through Advanced Technologies
- Managing Process Safety
- Managing operational challenges in low oil price regime

Make in India & Start-up India
- Research & Innovation to achieve future targets
- India as a potential hub for Oil Field Equipment and Service companies
- Strategies & Impediments for Commercialization of R&D Technologies
- Fostering and incubating Start-ups in the Energy Sector
- Scope for harnessing of Indian IT prowess for Oil and Gas sector
- Entrepreneurship Management
- Innovative Strategies for R&D in Upstream, Midstream and Downstream Case Studies

Oil & Gas Markets and Strategies
- Collaboration and New business models
- Future Challenges
- New technologies and its Challenges
- Discoveries – Early monetization
- Logistics and Supply chain Management
- Gas Exchange
- Structure of R&D-Collaborative Approach / Open Innovation
- Technology Forecasting in Energy Sector

Health, Safety & Environment
- HSE Management System
- Ecology & Environmental Concerns
- Environment Monitoring
- Handling of Oil Spills, Disposal of Spent Catalyst & Oily Sludge
- Emission Reduction Technologies
- Accident prevention, Crisis Management & Emergency Planning
- Waste to Energy and Waste Plastic Management Technologies
- Biodegradable Plastics
- Flare Management
- Sustainable Development
- Energy Conservation

HR Management
- Women Development and Diversity
- Skill Development
- HR Strategies in Oil Industry
- Talent Management
- Succession Planning
- Career Planning
- Performance Benchmarking
GUIDELINES FOR SUBMISSION OF EXTENDED ABSTRACTS

- Extended Abstract can be submitted for the Technical Oral & Digital Poster Sessions.
- The abstract(s) must be submitted online from 1st July 2018 by following the directions given on the website www.petrotech.in
- Abstract should adequately cover importance of the topic, actual experimentation done, data analysis, interpretation and focus on the novelty aspects, between 800-1000 words. Tables or figure should be avoided.
- All abstracts must be submitted in English language only. Commercial trade name and company logo to be avoided in the abstract.
- If your abstract is accepted, you will be required to submit a full technical paper (6 pages maximum), failing which complimentary registration applicable to authors will not be valid, and may result in presentation being withdrawn from the Conference Programme.
- The extended abstract and the full paper will be included in the Conference Proceedings and be made available to all delegates of the event.

DATES TO REMEMBER

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<tr>
<td>Last date for on-line submission of Abstract</td>
<td>21st Sep 2018</td>
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<tr>
<td>Intimation of acceptance of Abstract</td>
<td>15th Oct 2018</td>
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<tr>
<td>Receipt of full Technical Papers</td>
<td>15th Nov 2018</td>
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