

Technical Session - 1

1200 – 1345 hrs

Venue : Hall Jacaranda

Refining and Petrochemicals outlook

- 1.1 **Energy Industry's Challenges and it's Important Role in De-Carbonization**
Jonathan Forbes Lane, Shell Catalysts and Technologies
- 1.2 **Global Refining & Petrochemical Overview and Asia's Challenges and Opportunities 2019 – 2040**
Anshuman Agrawal, Stratas
- 1.3 **Hydrogen Economy – Road to Sustainable Future**
Dr. S.S.V. Ramakumar, Indian Oil Corporation Limited, R&D Centre
- 1.4 **Oil Markets- Sea of uncertainties**
Ravi Narayanaswamy, IHS Markit
- 1.5 **Renewable Fuels – Stepping Stone for Future Energy Globe**
Jacob Brix, Haldor Topsoe

Technical Session – 2

1445 – 1630 hrs

Venue : Hall Jacaranda

Driving Refining & Petrochemicals towards Sustenance

- 2.1 **Bottom of Barrel – What is the Right Upgrade Technology?**
Goutam Biswas, Chevron Lummus Global LLC
- 2.2 **Global Chemical Industry Outlook & Major Industry Trends**
Sanjay Sharma, IHS Markit
- 2.3 **Keeping up the pace: Insights into how the leading Refineries are adapting to the Changing Competitive and Regulatory Landscapes**
Kevin Henke, Solomon Associates
- 2.4 **Carbon Utilization & Petrochemical Integration: Capturing Value via Residue to Chemicals Projects**
Jacques Rault, Axens
- 2.5 **Optimizing Refinery Profitability with a Unique Blend of Technology, Operational Excellence and Funding – BOO**
Stefano Innocenzi, Linde Engineering

Technical Session – 3

1700 – 1830 hrs

Moving Towards Sustainable Future

- 3.1 **Higher Margin with an Integrated, Cost-effective Refinery Scheme**
Samir Saxena, KBR Technology
- 3.2 **Oil to Chemicals: Optimum Refinery Configuration and RIL's MCC process**
Sukumar Mandal, Reliance Industries Limited
- 3.3 **Digital Transformation in Refining & Petrochemicals – A Digital Twin Approach**
Akshay Gupta, Honeywell UOP
- 3.4 **Refining & Chemical Sustainability**
Dr. Partha P. Maitra, Reliance Industries Limited
- 3.5 **Crude to Chemicals - Examples of Technology Advancements for Refiners to Maximize Chemicals**
Dilip Dharia, Technip FMC

Technical Session – 4

0900 – 1045 hrs

Venue : Hall Jacaranda

Gasification: Towards Sustainability

- 4.1 **Innovation in Biomass / Waste Gasification Solutions for Generation of Biofuels**
Ashok Chaudhuri, Ankur Scientific Energy Technologies Pvt. Ltd.
- 4.2 **Flexicoking™ New Offer Announcement**
Siva Ariyapadi, ExxonMobil
- 4.3 **A Novel Clean Coal Technology - Catalytic Gasification Integrated with CO₂ Capture**
Dr.Sateesh Daggupati, Reliance Industries Ltd.
- 4.4 **Optimising the Refinery Scheme - The Role of Residue Gasification**
Nan Liu, Shell
- 4.5 **CFBC Technology Absorption, Operating Experience, Challenges faced and Reliability Improvement**
Alok Kumar Gupta, Bharat Oman Refineries Ltd.

Technical Session – 5

0900 – 1045 hrs

Venue : Hall Gulmohar

Advances in Refining Technology- 1

- 5.1 **Alkylation Technology as an Answer to the C4 Management and Gasoline Pool Constraints**
Gabriel Buffin, Axens
- 5.2 **Route to RON Enhancement**
A. Vignesh, IOC(R&D)
- 5.3 **Bharat – Divided Wall Column Technology: Development and Implementation**
Srinivasulu Kaalva, BPCL R&D
- 5.4 **Maximizing Earnings with a C4 Processing Value Chain**
Jose DeBarros, Mcdermott (Lummus)
- 5.5 **All-Hydroprocessing Technology Pathways to a more Sustainable future for Refineries**
Subhasis Bhattacharya, Chevron Lummus Global LLC

Technical Session – 6

1115 – 1300 hrs

Venue : Hall Jacaranda

Hydrogen Economy – Road to Sustainable Future

- 6.1 **Role of Hydrogen and Fuel Cells as Emerging Energy Solution for Energy Companies**
Sachin Chugh, Indian Oil Corporation Ltd., R&D Centre
- 6.2 **Low Carbon Hydrogen- for a Cleaner and Healthier Future**
Himanshu Chauhan, Johnson & Matthey
- 6.3 **Hydrogen – Fuel for Future: Promising and Challenging**
Maruthi Ethakota, Technip FMC
- 6.4 **Hydrogen Generation – Innovative Ways to Meet Future Refinery Requirements**
Maninder Jit Singh, Haldor Topsoe
- 6.5 **Relevance of Hydrogen Fuel Cell based transportation for India**
Chandrashekar Chincholkar, KPIT, Pune
- 6.6 **Thermo-chemical conversion of biomass to hydrogen rich syngas – Hydrogen for a range of downstream applications**
Prof. S Dasappa, IISc Bangalore

Technical Session – 7

1115 – 1300 hrs

Venue : Hall Gulmohar

Advances in Refining Technology- 2

- 7.1 **Novel Desalter Technology for Enhanced Crude Salt Removal**
S. Bhagath, Engineers India Limited
- 7.2 **Cost Effective Indigenous Dewaxing Catalyst BHARAT - HiCAT for LOBS Production: Commercial Performance and Recent Advances**, *Raj Kumar Das, Bharat Petroleum Corporate R&D Centre*
- 7.3 **Ethanol vs Methanol Economy for India - A drive towards Energy Security & Zero Carbon Footprint**, *Biswajit Shown, Reliance Industries Limited*
- 7.4 **Unlocking Competitive Advantage through Molecule Optimization**
Bharat Goenka, Shell
- 7.5 **Development of Diesel-Ethanol Engine for HCV**, *Prasanna S. Sutar, ARAI*
- 7.6 **Crude to Chemicals** , *Pankaj Srivastava, Honeywell UOP*

Technical Session – 8

1400 – 1545 hrs

Venue : Hall Jacaranda

Bio-fuels and Alternatives-1

- 8.1 **Advanced Technologies Shaping the Future of Renewable Fuels & Chemicals**
Harshit Agarwal, Axens
- 8.2 **Bringing Cellulosic Ethanol to Scale**, *Swadhin Banerjee, Clariant India*
- 8.3 **RIL - Circular Economy Sustainable Process for Catalytic Conversion of Waste Plastic into a Stable Oil**
Ms. Sayani Thakur, Reliance Industries Limited
- 8.4 **“Waste to Wealth” - Converting problem of Stubble Burning and Used Cooking Oil adulteration into Energy Security Opportunity for India**
Dharmesh Mahajan, Honeywell UOP
- 8.5 **An Effective Conversion Technology for Biomass to Drop-in Fuels: Scale-up and Commercialisation of Opportunity**, *Laxmi Narasimhan, Shell*

Technical Session – 9

1400 – 1545 hrs

Venue : Hall Gulmohar

Advances on Products and Processes

- 9.1 **Propylene growth: dispelling conventional wisdom, FCC innovations change supply side dynamics** , *Marc Nicolas, Albemarle*
- 9.2 **On Purpose Propylene Production & the Production of Hexene-1 using Energy Neutral Metathesis** , *Ronald M Venner, Mcdermott (Lummus)*
- 9.3 **Low cost anti coking and sulfiding additive for crackers and HT catalysts**
Biswajit Shown, Reliance Industries Limited
- 9.4 **Polyolefins - An Overview** , *M.P. Selvaakumar, MRPL*
- 9.5 **Hydrogen Peroxide & HPPO – The Heart of the PU value chain**
Dr. David Bolz, EVONIK Resource Efficiency GmbH
- 9.6 **HPCORRMIT-A Novel Cost Effective Corrosion Inhibitor for LPG pipelines: A Make in India Initiative**
Raghava Krishna, Hindustan Petroleum Corporation Limited

20 January, 2020

Technical Session – 10
1615 – 1800 hrs
Venue : Hall Jacaranda
Bio-fuels and Alternatives-2

- 10.1 Commercial Scale Production of Low Carbon Fuels and Chemicals from Waste Gases**
Prabhakar Nair, LanzaTech
- 10.2 An Efficient Biomethanation Technology - Organic Waste to Compressed Biogas (CBG)**
Dr. Manoj Kumar , R&D Centre, Indian Oil Corporation Limited
- 10.3 A Process for Drop in Renewable Aviation Fuel**
Dr. Anjan Ray, CSIR-IIP
- 10.4 R-CAT HTL – Sustainable process for Renewable Drop-in Liquid Fuel for co-processing in Refinery**
Nikhlesh Saxena, Reliance Industries Limited
- 10.5 Cultivation of Marine Microalgae in Raceway Pond for Bio-crude Production**
M. Vijayraj, Chennai Petroleum Corporation Limited
- 10.6 Renewable Energy Demand Enhancement**
Dr. Y.B.K. Reddy, Solar Energy Corporation of India

Technical Session – 11
1615 – 1800 hrs
Venue : Hall Gulmohar
IR 4.0: Digital Revolution

- 11.1 Digitally Enabled Refinery Operations**
Ajay Deshmukh, Honeywell UOP
- 11.2 Digitalisation in Refineries - Production Planning and Scheduling**
Dr. Jagadesh Donepudi, KBC
- 11.3 K Model: Desktop Solution for Crude Oil Blend Compatibility and Blend Optimization**
Pranab Kumar Rakshit, Bharat Petroleum Corporate R&D Centre
- 11.4 BPMARRK™: Real Time Crude Oil Assay for Monitoring and Optimisation of Crude Distillation Units**
Syed Imran Ahmed R., Bharat Petroleum Corporation Limited, Kochi Refinery
- 11.5 Plugging the gaps in value chain with application of Pipeline Scheduler Software**
Neeraj Kumar, Indian Oil Corporation Limited
- 11.6 Innovative software improves crude oil logistics scheduling**
Aurelio Ferrucci, Prometheus

Technical Session – 12
0900– 1045 hrs

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Innovation in Refineries- Profit Improvement

- 12.1 FCC Yield and Energy Optimization**
Ankit Apoorv, Honeywell UOP
- 12.2 Unlock Potential of your SDA units**
Hemendra Khakhar, Foster Wheeler
- 12.3 Innovations in UOP Merox Process and its integration with nViro MET - Environmentally Robust and Sustainable Approach to handle spent Effluent from Merox**
Rakesh Soni, Honeywell UOP
- 12.4 KBR Olefins Technologies Provide Key Flexibility with Optimum Design to Ensure Profitability**
Partap Vijay Singh, KBR Technology
- 12.5 Recovery of Anhydrous Ammonia from Refinery Sour Gases: A Case Study**
V. Kamesh Jayanti, Engineers India Limited

Technical Session – 13
0900 – 1045 hrs

Venue : Hall Gulmohar

Environment- Best Operational Practices

- 13.1 Benchmarking Insights into Refinery Fresh Water Consumption**
Kevin Henke, Solomon Associates
- 13.2 Water conservation: The Cradle of Sustainability**
Jayant Kumar Joshi, Engineers India Limited
- 13.3 Durable Superhydrophobic Absorbent for Selective Absorption of Oil in Oil-water Mixture**
Karthick R, Mangalore Refinery & Petrochemicals Ltd
- 13.4 BASF Environmental Friendly Guard Bed**
Dr. Lothar Karrer, BASF
- 13.5 Process for Reducing Odour from Odorous Off-Gas Stream**
V.Nandakumar, Mangalore Refinery & Petrochemicals Ltd

Technical Session – 14

1115 – 1300 hrs

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Catalysts : Next Generation

- 14.1 Boosting Margins Through Catalyst Innovations**
Junaid Shah, Haldor Topsoe
- 14.2 Latest Advances in Catalyst and Additives for Maximizing Propylene from the FCC**
Mukund Balachandran, Grace
- 14.3 Aligning Refineries for Sustainable Future**
Bruno Tombolesi, ART LLC
- 14.4 Completing the Life Cycle of Refining Catalyst: FCC Catalyst as an Example**
Tie-Pan Shi, HC Pect
- 14.5 Nano-Engineered Zeolites in Hydrocracking Catalysts – Unlocking Ultimate Performance**
Rambabu Raja, Shell
- 14.6 Innovative Catalyst Technology for Contaminant Metals Management in FCC**
Bilge Yilmaz, BASF

Technical Session – 15

1115 – 1300 hrs

Venue : Hall Gulmohar

Operational Risk Management

- 15.1 Revamp of Integrated Hydrocracker and Lube Oil Base Stock Unit by CLG Using Innovative Process Scheme**
Sanjeev Gangurde, CLG
- 15.2 Efficient and Cost Effective Amine Purification Process**
Venkata Srinu Gollapalli, Engineers India Limited
- 15.3 Energy Efficiency – High Profitability Achieved**
Wivika Laike, Alfa Laval India Private Limited
- 15.4 Advances in Filtration Technology**
 - 1. Molecular Filtration to Protect Mission Critical Electrical Equipment
 - 2. Importance of Good Air Filtration in A Gas Turbine And Its Implications*Chris Ecob & Marc Van den Eynde, Camfil Air Filtration India*