

## CONFERENCE THEME

### *Innovations in Geosciences on India's Energyscape*

## TECHNICAL TRACKS

### **A. BASIN EVOLUTION: SOURCE TO SINK**

- Process Response Model
- Tectonic Control In Basin Evolution
- Stratigraphic Tools And Techniques
- New Exploration Concepts And Analogues
- Petroleum System Analysis
- Understanding Biogenic Systems
- Outcrop To Subsurface
- Sequence Stratigraphic Studies

### **B. SEDIMENTATION AND SEDIMENTARY PROCESSES**

- Siliciclastic Depositional System
- Carbonate Depositional System
- Near Shore Depositional System
- Diagenetic Control In Reservoir Development

### **C. RIFT BASIN EXPLORATION (DIVERGENT MARGINS)**

- Tectonics And Hydrocarbon Habitat
- Stratigraphic Development And Reservoir Distribution
- Indian Tertiary Play Systems
- Emerging Concepts In Indian Mesozoic & Paleozoic Exploration
- Rift Basin Analogues & Case Histories
- Productive And Non-Productive Rifts

### **D. FOLD BELT IN INDIA: FUTURE PLAY GROUND (CONVERGENT MARGINS)**

- Play Analysis
- Structural Controls On Trap Geometry
- Balancing And Restoration – Understanding Deformation
- Up-Thrusts And Sub-Thrust
- Neotectonics
- High Resolution Sub-Surface Imaging
- Fold Belt Analogues and Case Studies

### **E. DEEP WATER EXPLORATION: PERSPECTIVES AND CHALLENGES**

- Depositional Systems – Sequence Stratigraphic Concepts
- Process Response Model
- Petroleum System Architecture

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- Understanding The Reservoir Complexities
- Advancement In Tools And Techniques
- Geo-Hazards
- Risks And Economic Challenges Of Deep Water Exploration
- Analogues and Case Histories

#### **F. RESOURCE TO RESERVES: INDIAN FRONTIER BASINS AND THEIR GLOBAL ANALOGUES**

- Precambrian Hydrocarbons : Bridging The Knowledge Hiatus
- Unlocking Potential Of Gondwana Plays
- Intra-Trappeans And Sub-Trappeans – The Lost Basins
- Peeping Into Past : Palaeogeographic Reconstruction In Indian Context

#### **G. PETROPHYSICS**

- Interpretation Techniques in Low Resistivity Low Contrast Reservoirs.
- Thin Bed Evaluation
- Handling Uncertainties In Hydrocarbon Saturation Estimation
- Rock Properties, Rock Typing
- Core To Log Calibration
- Fracture Identification And Analysis
- Petrophysical Evaluation in Unconventional Reservoirs.
- Cased Hole/ Production Log Analysis For Production Enhancement
- Integrated Case Studies: Multi-Well Evaluation Integrating Production Data.
- New Oil From Old Fields

#### **H. RESERVOIR CHARACTERISATION – VALUE MAXIMIZATION**

- Characterizing Pore Geometry And Storage Capacity
- Defining Poro-Perm Relations And Fluid Dynamics
- Flow Behavior, Reservoir Surveillance And Predictive Modeling
- Geostatistical Techniques- Handling Uncertainties
- Seismic To Simulation
- Reservoir Geophysics

#### **I. SHALE GAS/OIL – INDIAN LANDSCAPE**

- Assessing Potential In Indian Basins
- Characterizing Source/ Reservoir Potential
- Geological, Geochemical And Petrophysical Evaluation Of Shale Plays
- Geomechanics For Successful Completions
- Technology & Infrastructure Optimization
- Land & Water Resource Management
- Environmental Impact On Ecosystems
- Shale Gas Economics

#### **J. EXPANDING UNCONVENTIONAL & COMPLEX RESOURCE BASKET**

- Coal Bed Methane
- Tight & Basin Centered Gas

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- Oil Shale
- Heavy Oil
- Gas Hydrate
- Fractured Basement
- Sour Gas

#### **K. LEVERAGING TECHNOLOGY**

- Advancement In Seismic Methods
- Non-Seismic In HC Exploration
- Managing HP/HT Reservoir
- Monetizing Marginal Fields
- Rock Physics And Fluid Identification
- Recovery Enhancement – Chasing The Last Molecule
- Data Management and Security

#### **L. EXPLORATION RISK ANALYSIS & BUSINESS ENVIRONMENT**

- Risk Assessment and Mitigation
- Exploration Economics
- Policy and Regulatory Regimes
- Strategic and Tactical Challenges
- Environmental Concerns in E&P Business
- Emerging Global Business Scenario

#### **M. MANAGING GEOSCIENCE TALENT**

- Harvesting and Nurturing Talent
- Emerging Global Avenues
- Bridging the Industry-Academia Gap
- Knowledge Management

#### **N. GREY MATTER FOR GREY AREAS**

- Innovation – Pushing the limits
- Thinking the Unthinkable
- Peak oil – Myth or Reality
- India's Energyscape – Future Energy Basket

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