



# INTERNATIONAL PETROLEUM TECHNOLOGY CONFERENCE 15-17 November 2011 • Bangkok, Thailand CALL FOR PAPERS

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## HOST COMMITTEE CHAIRMAN:

**Phongsthorn Thavisin**  
PTT Exploration and Production Plc.

Dear Colleagues,

The International Petroleum Technology Conference (IPTC) is a multi-disciplinary event sponsored by four leading industry societies – the American Association of Petroleum Geologists (AAPG), the European Association of Geoscientists & Engineers (EAGE), the Society of Exploration Geophysicists (SEG), and the Society of Petroleum Engineers (SPE).

The fifth edition of the IPTC will be held 15-17 November 2011 at the Bangkok Convention Centre at CentralWorld in Bangkok, Thailand, with the theme:

## *“Technology and Operational Excellence: Keys to Sustainable Global Energy”*

The programme committee for the 2011 IPTC includes professionals from all sponsoring societies who have set high selection criteria for the papers presented at this conference, ensuring an unrivalled quality of this multi-session programme. Thirty (30) categories with a diverse range of topics for oral presentations and posters are proposed. We believe that these categories and topics, most of them of a multidisciplinary nature, are representative of the issues facing the industry today.

Papers are invited on a variety of themes, including Exploration, Reservoir, Drilling and Completions, Production and Development, Mid-Stream Gas and Over-Arching Industry Issues (HSE, Security, Human Resources, Business and Social Challenges). The list of technical categories with a description of the various topics is provided in this package as a guide.

On behalf of all the sponsoring societies; AAPG, EAGE, SEG and SPE, we are pleased to invite you to contribute to one of the most renowned and prestigious events in the industry by submitting a paper proposal (abstract) for consideration by the programme committee.

### **The deadline for submitting abstracts is 31 January 2011.**

Members of the technical committee representing the sponsoring societies will rate and select papers, taking into consideration the quality of the technical information and the regional and technical diversity of the content.

This is your opportunity to contribute to the value of the 2011 IPTC conference and to be recognised as a published author.

With your involvement and commitment, the 2011 IPTC will be a success. We look forward to your contribution to an excellent conference programme.

Sincerely,

Luechai Wongsirasawad  
PTT Exploration and  
Production Plc.

Saif Hamed AlHinai  
Petroleum Development Oman

Ganesh Thakur  
Chevron Energy  
Technology Co.

2011 IPTC Conference Programme Co-Chairmen

## Sponsoring Societies:



Society of Exploration Geophysicists  
*The international society of applied geophysics*



Society of Petroleum Engineers

## Host Organisation:



PTTEP  
A Company of PTT Group

# TECHNICAL CATEGORIES

## EXPLORATION

### 1. THE FUTURE OF EXPLORATION

Papers are invited to cover future trends in exploration, new plays, difficult old plays and new strategies in exploring for oil and gas.

- Exploration in Frontier Areas
- New Plays
- New Strategies for Future Exploration
- Finding Costs - How to Manage
- Managing Non-Technical Risks
- Deep Water Exploration
- Stratigraphic Traps
- Sub-Salt Plays
- ARC-GIS

### 2. PETROLEUM SYSTEMS

Papers are sought to cover advances in petroleum system analysis, in the following areas:

- The Basin: Its Evolution and Fill History
- The Reservoir: Including Siliciclastics and Carbonates, and Involving Provenance, Paleogeography, Reservoir Geometry and Quality
- Burial History and Diagenesis
- Source Rock: Including Generation and Migration of Hydrocarbons Plus Source Rock Geochemistry
- Trap and Seal: Faults, Fractures and Seals, Including Stratigraphic and Structural Traps
- Case Studies of the Petroleum System

### 3. ADVANCES IN GEOPHYSICS

Papers are invited to cover new advances in geophysical technology, from acquisition and processing to interpretation techniques and their impact on exploration strategy.

- Geophysical Challenges in the Near-Subsurface
- New Advances in Seismic Acquisition and Imaging
- Advances in Electromagnetics (CSEM)
- Time Lapse Seismic in Carbonates: Experience to-date
- Quantitative Geophysics: Data Acquisition to Reservoir Model
- Passive Seismic Uses in Exploration
- Multi-Component Seismic and Gas Cloud Imaging
- Electromagnetics
- Ocean – Bottom Seismic
- Low Frequency/Hyperspectrum Acquisition
- Near Surface Statics
- Shallow Hazards
- Extracting New Value from Old Data

### 4. RISK AND UNCERTAINTY MANAGEMENT

Papers are invited to address issues related to identifying and quantifying both technical and non-technical risks and uncertainties affecting exploration.

- Mitigating and Reducing Risk in Exploration
- Uncertainty Quantification
- Scenario Analysis
- Case Studies and Best Practices
- Value of Information Quantification

### 5. ADVANCED CONCEPTS IN SILICICLASTICS

Papers are invited to cover the new concepts in characterising sandstone reservoir architecture and quality through the use of sequence stratigraphic principles and geophysics, and employing analogue data from modern and ancient depositional environments, including lacustrine, fluvial, shallow and deepwater-marine settings.

- Sandstone Reservoir Characterisation
- Sandbody Architecture
- Depositional Environment (Non-Marine to Deepwater)
- Diagenesis and Reservoir Quality Controls in Clastics
- New Sequence Stratigraphic Concepts
- Case Studies

### 6. EXPLORATION AND DEVELOPMENT OF SUBTLE TRAPS

- Sub-Salt
- Sub-Basalt
- Overthrusting

### 7. QUANTITATIVE GEOPHYSICS: FROM SEISMIC ACQUISITION TO RESERVOIR MODEL

With the accelerating trend towards the seamless integration of seismic data, from acquisition to reservoir modelling, this topic covers new technologies and case studies of geophysical data integration in reservoir models.

- Rock Physics and Modelling
- Seismic Inversion
- Calibration
- Facies Classification
- Probabilistic Techniques
- AVO and Seismic Attributes
- Spectral Decomposition
- Fracture Prediction
- Exploring Inter-Well Reservoir Space
- Fluid Prediction

### 8. UNCONVENTIONAL OIL AND GAS

These are exciting and potentially huge resource plays that will sustain the global energy supply through the 21st century. Each unconventional resource play has unique characteristics but lessons in methods of extraction, statistical inventory and risking can be shared. Unconventional includes: Shale Gas, Shale Oil, CBM, Hydrates and Heavy Oil.

- Approach to Mapping Unconventional Plays
- Optimising Assessment of Productive Facies
- Key Factors to Optimise Well Locations
- Regional Environmental Impact Considerations
- Shale Gas Case Histories
- CBM Case Histories
- Fractured Shale
- Heavy Oil

### 9. ADVANCED GEOLOGICAL CONCEPTS IN CARBONATES

This topic covers the use of carbonate reservoir analogs, how to improve recovery and productivity in carbonate reservoirs. Evaluation and quantification of multi-level property heterogeneity in carbonate reservoirs within stratigraphic context.

- Reservoir Characterisation
- Reservoir Heterogeneity and Flow-Unit Definition
- Mixed Carbonate-Clastic Systems
- Tertiary Carbonates (Modern and Ancient) Case Studies
- Improved Recovery and Productivity in Carbonate Reservoirs
- Advanced Geophysical Methods for Defining Carbonate Reservoirs

### 10. RIFT BASIN ANALYSIS

Topics covering rift basins from mega-regional to reservoir scales.

- Extensional and Strike-Slip Tectonics and Rift Basins Formation
- Syn-Rift Petroleum Systems
- Lacustrine Source Rocks and Reservoirs
- Nature and Impact of Inversion Structures
- Nature of the Syn-Rift to Post-Rift Section
- Stratigraphic Traps
- Structural Traps

## 11. TRAPS, SEALS, FAULT AND FRACTURE NETWORKS

Papers are sought on new approaches for detecting, interpreting, modelling faults and fractures networks and their impact on exploration, appraisal and development of reservoirs and other plays.

- Effects of Fault Reactivation on Seals
- Fault Seals and Risk Assessment
- Exploration in Fractured Basement Plays
- Fractured Reservoirs

- Integration of Geological and Geophysical Predictions of Fracture Networks
- Fractures in Reservoir Models
- Compartmentalisation of Reservoirs
- Case Studies of Fracture Plays
- Fractured Basements
- Stratigraphic Traps

## 12. RESOLUTION ENHANCEMENT FOR SEISMIC INTERPRETATION

Papers are invited to focus on methodologies and case histories to aid interpretation in thin-bed environments. Topics may include:

- Data Integration
- Bandwidth Extension and High Resolution Processing Workflows
- Spectral Decomposition
- Stochastic Inversion
- Reservoir Characterisation
- Electrical and Seismic Anisotropy
- Multi Component
- Borehole and Surface Integration
- Case Histories from Fluvial Deltaic Reservoirs

## RESERVOIR

### 13. PLANNING

This topic covers papers which look at the necessary activities that are used in reservoir development planning and economic optimisation.

- Economic Evaluation
- Reservoir Simulation
- Forecasting
- Integrated Reservoir Modelling
- Reserves and Resource Evaluation
- G&G Considerations
- Reservoir Characterisation

### 14. RESERVOIR MONITORING AND MANAGEMENT

This topic covers papers that address the tools and techniques for the collection and analysis of data from the reservoir.

- Surveillance and Monitoring (Tracers, Geochemical, etc.)
- Depletion Management
- Sampling Analysis (PVT, Core Studies, etc.)
- Well Testing and Production Logging
- 4D Seismic

### 15. EOR/IOR

This topic covers papers that address a variety of methods and technologies used to optimise recovery in all phases of oil and gas production.

- Water Conformance Technologies
- Advanced Technologies
- Miscible Gas (Flue, Nitrogen, CO<sub>2</sub>, etc.)
- Thermal
- Chemical
- MEOR/Foams
- Waterflooding

### 16. GEOLOGICAL MODELLING: PUTTING GEOLOGY BACK INTO GEOLOGIC MODELLING

Reservoir rock typing has been effectively used to integrate information including primary depositional lithology, diagenesis, pore geometry and a range of porosity, permeability and saturation data. This topic explores different approaches to reservoir rock typing and populating reservoir properties within a geologic model.

- Reservoir Characterisation for Model Construction
- Lithofacies, Diagenesis and Reservoir Quality
- Integration of Rock Typing and Reservoir Properties
- Pore Pressure and Reservoir Quality Prediction
- Petrophysical Input to Geologic Modelling
- Optimum Geologic Modelling Workflow
- Quality Control in Modelling
- Challenges in Modelling Stacked Reservoirs
- Seismic and Stratigraphic Conditioning in Modelling
- Case Histories of Integrated Geologic Modelling

## DRILLING AND COMPLETIONS

### 17. OPTIMISATION OF WELL PLANNING AND EXECUTION

This topic will have papers that cover examples of plans, strategies and technologies that can deliver value.

- Mature Field Revitalisation Strategies
- Well Drilling Construction and Completion
- Intelligent Well Construction
- Multilateral Wells
- Wellbore Quality Considerations
- Drilling System Optimisation (Hardware, Equipment, Rigs, Tubulars, etc.)

- Geomechanical Considerations
- Well Intervention
- Sand Control

### 18. CHALLENGES IN WELL CONSTRUCTION AND COMPLETION

This topic covers papers that address challenging environments and minimise technology gaps.

- HP/HT
- Ultra HP/HT
- Deepwater
- Ultra Deepwater
- Extended Reach Drilling

- Managed Pressure Drilling

### 19. ADVANCEMENTS IN TECHNOLOGY APPLICATION

This topic includes papers which bring forward new ideas, innovations and technology to enhance drilling and completion performance.

- Completion Diagnostics
- Well Testing
- Intelligent Completions
- Wellbore Construction Fluids (Mud and Cement)

## PRODUCTION AND DEVELOPMENT

### 20. GEOMECHANICS APPLICATIONS IN E&P

Understanding the impact of in-situ stress, pore pressure and

geomechanical properties are fundamental for improving the safety and cost effectiveness of drilling and production. Papers are invited to focus

on the following topics:

- Geomechanical Applications – Case Studies
- Geomechanical Modelling (3-D

- Models: FEA, BEM, DPC, etc.)
- Wellbore Stability
- Pore Pressure Prediction
- Reservoir Structural Geology
- Subsidence
- Sand Prediction
- Sand Face Consolidation
- Permeability Determination
- Anisotropy and Fracture Prediction
- Stress Prediction and Stress Fields
- Geomechanical Reservoir Simulation

## 21. OPTIMISING THE EXISTING ASSETS

This topic covers papers that address and identify strategies to increase production, recovery, and maximise long-term return for current assets.

- Improved Long-Term Recovery
- Extending Economic Life of Mature Fields
- Stimulation Techniques
- Reservoir Management and Monitoring

- Asset Integrity Management
- Geomechanical Considerations

## 22. CHALLENGES IN DEVELOPMENT AND PRODUCTION

This topic covers papers which look at the issues which may arise in planning, developing and producing resources.

- Awakening Old Resources
- Corrosion and Metallurgy
- Planning and Forecasting
- Integrated Network Modelling
- Integrated Field Development
- Production Chemistry and Flow Assurance
- Innovative Field Development Strategies
- Managing Risk and Uncertainties
- Formation Damage Prevention
- Specific Environment Considerations
- Fractured Reservoirs

## 23. ADVANCEMENTS IN TECHNOLOGY APPLICATION

This topic includes papers which bring forward new ideas, innovations and technology to enhance reservoir performance.

- Corrosion and Metallurgy
- Digital/Intelligent Fields
- Geochemical Techniques
- Materials/Facilities

## 24. UNCONVENTIONAL RESOURCES

This topic will cover papers that focus on developing and producing resources that pose unique challenges and opportunities.

- Coalbed Methane/Coal Seam Gas
- Shale Oil and Gas
- Gas Hydrates
- Tight Gas
- Geothermal
- Heavy Oil/Ultra-Heavy Oil
- Tar Sands

## OVER-ARCHING INDUSTRY ISSUES - HSE, Security, Human Resources, Business and Social Challenges

## 25. HEALTH, SAFETY, SECURITY, AND ENVIRONMENT

This topic will cover papers that focus on current safety culture issues, working environment and environmental considerations.

- Environmental Impact
- Waste Management
- Contingency Planning
- HSSE Management Systems
- Fluid Remediation (Drilling, Oil and Produced Fluids)
- Safety Leadership and Culture

- Carbon Capture and Storage
- Asset Integrity
- Process Safety Management

## 26. HUMAN RESOURCES AND SOCIAL RESPONSIBILITY

This topic will cover papers that include social responsibility and employment practices that impact our industry today.

- Recruitment
- Training

- Competency
- Retention
- Data and Knowledge Sharing
- Corporate Social Responsibility
- Community Development Projects

## MID-STREAM GAS

**Natural gas and LNG from wellhead to markets, including supply and demand outlooks, technology and its applications to the gas value chain, and the development of carbon markets.**

## 27. GAS VALUE CHAIN

Papers should address the drivers and the enablers in gas distribution and conversion, including gas markets (power, petrochemical, consumer, etc.), supply and demand outlooks, pricing and market regulation, regional infrastructure (transport and storage), gas by-products (condensates, LPG, ethane, etc.), and case studies.

- Gas Market Development
- Gas Distribution
- Cross-Border Pipelines
- Development of Reticulated Gas Networks (Industrial Estates, Residential/Commercial Systems)
- Gas to Power
- CNG (Compressed Natural Gas)
- GTL (Gas to Liquids), CTL (Coal to Liquids), XTL
- DME (Di-Methyl Ether)

## 28. LNG

This topic covers the market forecast and dynamics for LNG, technological advances for LNG vessels and terminals, and case histories.

- LNG Market Trends and Globalisation
- Trading Patterns and Hubs
- Change in Participation (China, India, North America, etc.)
- Pricing of LNG
- Floating LNG
- Floating Gasification Terminal
- CBM to LNG

## 29. GAS TECHNOLOGY

Papers will cover innovative technologies, breakthrough case studies, and ambitious solutions to long standing issues.

- Gas Processing
- Transportation
- Gas Filtration and Treatment

- (Mercury Removal, Handling H<sub>2</sub>S, Sulfur Recovery)
- Gas Dehydration
- Gas Storage
- Helium and Other Trace Gas Extraction
- Hydrate Technology

## 30. CARBON MARKETS

Papers are invited to address the carbon markets, pricing and regulatory requirements associated with the global gas supply chain, including upstream operational issues (greenhouse gas emissions, contaminants, etc.).

- Emissions Reduction
- Carbon Pricing
- CO<sub>2</sub> Sequestration
- Trends in Carbon Intensity Reduction
- Processing, Transportation and Disposition of High CO<sub>2</sub> Gas

## GUIDELINES FOR ABSTRACT SUBMISSION

Oral Presentations/Poster Presentations for the conference will be selected from abstracts submitted to the Conference Programme Committee. The Programme Committee will consider all abstracts submitted by the deadline of **31 January 2011**. Early submission is particularly important to ensure that the Committee has ample time to review the abstracts. **Authors are strongly encouraged to submit their abstracts electronically at the IPTC website, <http://www.iptcnet.org/2011>.**

### ABSTRACT CONTENT

A proper review of your abstract requires that it contain adequate information on which to make a judgement. Written in English and **containing a maximum of 300 words**, abstracts should include the following:

- **DESCRIPTION:** Summarise the scope and nature of the work upon which an accepted paper will be based upon (e.g., field data, lab data, original analysis, or computer work). If the paper is a review paper, carefully state the extent of the coverage.
- **APPLICATIONS:** Describe the possible applications of the information provided in the paper or poster.
- **RESULTS AND CONCLUSIONS:** Summarise the results and major conclusions to be presented in the paper/poster and state specific conclusions of the work and how these differ from previous work on the same subject. State whether new information will be revealed and whether data from field, lab, or computer work will be included.
- **TECHNICAL CONTRIBUTIONS:** Describe the significance of the subject matter in the abstract by listing up to three technical contributions or additions to the technical knowledge base of the petroleum industry.

### TECHNICAL CATEGORIES

Use the technical categories included in this leaflet to indicate the category that best describes your abstract. A primary choice is required; however, a secondary choice is optional.

Abstracts are evaluated on the basis of the information supplied on the abstract form in accordance with the following criteria:

1. The abstract or poster must contribute to petroleum technology or be of immediate interest to the oil and gas industry, and should contain significant new knowledge or experience in the oil and gas industry.
2. Data in the abstract must be technically correct.
3. The abstract or poster may present information about equipment and tools to be used in exploration and production. Such abstracts must show the definite applications and limitations of such equipment and should avoid undue commercialism and extensive use of trade names.
4. The substance of the abstract or poster must not have been published previously in trade journals or in other professional or technical journals.
5. Prior to abstract submission, clearance must be obtained. Any problems concerning clearance should be outlined when the abstract is submitted.

**ABSTRACT SUBMISSION DEADLINE: 31 JANUARY 2011**

**Submit your abstract online at <http://www.iptcnet.org/2011>**

## GUIDELINES FOR ACCEPTED ABSTRACTS

1. Your abstract could be accepted for either Oral Presentation or Poster Presentation.
2. Authors of abstracts selected for the Conference Programme will be notified in April 2011.
3. Authors whose abstracts are accepted will be required to provide either a full manuscript or an extended abstract for inclusion in the Conference Proceedings as follows:

**Manuscript:** To be approximately 7,000 words in length, including figures, charts and tables.

**Extended Abstract:** To be approximately 4,000 words in length, including figures, charts and tables.

4. Please note that if accepted, your paper may be published, as submitted, in conference information media, including the Conference CD-ROM Proceedings and on the IPTC website and the websites of the IPTC sponsoring societies.
5. In the event that the author of the accepted abstract fails to provide a full manuscript or an extended abstract and the associated forms by the deadline date, 15 August 2011, the IPTC organisers will reproduce the original abstract, as submitted to IPTC, in the Conference CD-ROM Proceedings.
6. Detailed instructions on the preparation of Manuscripts/Extended Abstracts, slides and posters will be sent to the corresponding author of each accepted paper.
7. IPTC assumes no obligation for expenses by authors for travel, lodging, food or other incidental expenses.

### A WORD ABOUT COMMERCIALISM

**IPTC has a stated policy against use of commercial trade names, company names, or language that is commercial in tone in the paper title, text or slides.** Use of such terms will result in careful scrutiny by the Programme Committee in evaluating abstracts, and the presence of commercialism in the paper or poster may result in it being withdrawn from the Conference Programme.

### COPYRIGHT

All authors of papers or posters presented at the conference will be required to complete and submit a copyright release form to IPTC or submit the copyright exemption form where applicable.



**INTERNATIONAL PETROLEUM TECHNOLOGY CONFERENCE**  
**15-17 November 2011 • Bangkok, Thailand**

If an abstract is selected for the programme, the information submitted on this form will be published in the Conference Preview and On-Site Programme brochures. Please type the following information. **Check box to indicate corresponding author. In order for the author(s) name(s) to appear in the conference brochures, all contact information must be completed.** It is vital that all information requested on this document be provided in full and in the order requested. **The IPTC Sponsoring Societies assume no obligation for expenses incurred by authors for travel, lodging, food, or other incidental expenses.**

**PAPER TITLE:** \_\_\_\_\_

IPTC staff will direct all communications to the Corresponding Author on matters relating to this submission (please check box to indicate corresponding author). If there are more than 2 authors, please list on a separate page. All contact information must be provided.

**AUTHOR 1**  Corresponding Author

Member Number :  AAPG \_\_\_\_\_  EAGE \_\_\_\_\_  SEG \_\_\_\_\_  SPE \_\_\_\_\_  
First Name : \_\_\_\_\_ Middle : \_\_\_\_\_ Last : \_\_\_\_\_  
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**Required Information**

1. Is this material being submitted elsewhere?  Yes  No
2. Has this material been previously published or presented?  Yes  No  
If yes, indicate place and date: \_\_\_\_\_  
If AAPG/EAGE/SEG/SPE meeting, indicate meeting and paper number: \_\_\_\_\_
3. Will your company allow you to present and/or publish all the information described in your abstract?  
 Yes  No  Unsure
4. Using the list included in this document, please indicate at least one Technical Category (from 1 to 30) that applies to your submission  
[ ] Primary [ ] Secondary
5. This abstract should be considered for:  Oral Presentation  Poster Presentation  Either

**Attach maximum 300-word abstract to this form, and include paper title and authors' name.**

**DEADLINE FOR SUBMISSION: 31 JANUARY 2011**

**Submit your abstract online at <http://www.iptcnet.org/2011>**

Alternatively, complete and send this form with your abstract to:  
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Suite 23-02, Level 23, Centrepoint South, Mid Valley City, Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia  
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