

10-12 DECEMBER 2014 Kuala Lumpur Convention Centre Kuala Lumpur, Malaysia

CALL FOR PAPERS

INNOVATION AND COLLABORATION: Keys to Affordable energy



Host Organisation:

PETRONAS



Co-Host Organisations:



PG EAGE

LOS PETRONYS and IPTC



Sponsoring Societies:





WELCOME LETTER

10-12 DECEMBER 2014 Kuala Lumpur Convention Centre Kuala Lumpur, Malaysia

Dear Colleagues,

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

The eighth edition of the IPTC will be held 10-12 December 2014 at the Kuala Lumpur Convention Centre in Kuala Lumpur, Malaysia, with the theme:

"Innovation and Collaboration: Keys to Affordable Energy"

More than ever, the ability of our industry to deliver affordable oil and gas, is dependent upon organisations with complementary capabilities, working together to identify and deploy innovative solutions to increasingly difficult problems. This conference will feature panel discussions and technical sessions on a broad range of topics and issues around how our industry has developed good practices for collaboration to accelerate the invention and application of new work processes, methods and technology.

IPTC is renowned for its exceptionally high standard of technical programme. Accordingly, the programme committee has set high selection criteria for the papers presented to ensure unrivalled quality of this multi-session programme.

Papers are invited on a variety of themes including geosciences & geophysics, reservoir, drilling & completions, development & production, facilities, unconventional oil & gas, overarching industry issues (HSE, CSR, talent development & training) and midstream gas. We believe that these topics, most of them of a multidisciplinary nature, are representative of the current and future issues facing the industry.

There is no better time to be part of this great industry. Submit your abstracts online at www.iptcnet.org/2014/kl. The submission deadline is 12 February 2014. Authors will be notified of their paper status in early May 2014.

We anticipate a successful and engaging technical programme for the 8th IPTC and look forward to your valued participation and contribution.

Sincerely,

fimmer ferrig

Ramlan Malek PETRONAS





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Submission Deadline: 12 FEBRUARY 2014

Register now for the 7th IPTC in Doha 19 - 22 January 2014 Qatar National Convention Centre Early Bird Deadline 20 November 2013 www.iptcnet.org/2014/doha



TECHNICAL CATEGORIES

10-12 DECEMBER 2014 **KUALA LUMPUR CONVENTION CENTRE** KUALA LUMPUR, MALAYSIA

E&P GEOSCIENCE

1. **E&P GEOSCIENCE CHALLENGES**

- i. Deep-basin plays
- ii. Deep-water E&P
- Heat-flow variations iii. High CO2 reservoirs iv.
- New exploration frontiers in Asia v. Pacific
- vi. Petroleum systems
- vii. Redevelopment of mature fields
- Reservoir geoscience and viii.
- management ix. Source rocks
- Tectonic history and basin x. evolution
- xi. Trapping styles

THE PETROLEUM SYSTEM: FROM 2. **SOURCE TO TRAP**

- Case studies of petroleum systems i. ii. Geochemistry in exploration,
- production and development iii. Maturation history
- Migration and systems (including iv. both oil and gas phases)
- v. Production allocation vi. Reservoir presence, assessment, and quality
- vii. Source rocks: type, volume, distribution, etc.
- viii. Surface geochemistry surveys Tracing diagenesis using isotope ix.
- analysis x. Trapping mechanisms and styles and the accumulation of hydrocarbons

ADVANCES IN GEOPHYSICS 3.

- Advances in multiple elimination i. ii. Advances in non-seismic
- geophysics iii. Borehole geophysics/
- developments in sonic and borehole seismic
- Full waveform inversion iv. Low frequency/high frequency / V.
- broadband vi. Multi-component seismic New advances in seismic vii.
- acquisition, processing and imaging
- viii. Near-surface/overburden/ gas-cloud geophysics
- ix. Ocean bottom seismic
- Passive seismic/fracture monitoring x.
- Pre-stack depth migration xi. Simultaneous seismic acquisition xii.
- Time-lapse seismic acquisition xiii. and processing
- **GEOPHYSICAL RESERVOIR** 4. **CHARACTERISATION**
- i Advanced geophysical methods for defining carbonate reservoirs
- ii. AVO and seismic attributes Exploring inter-well reservoir iii.
- space/cross-well seismic/ electromagnetic methods
- Facies classification iv.

- Fluid prediction v.
- Geostatistics applications to vi. geophysics
- vii. Reservoir geomechanics
- viii. Rock physics and modelling
- ix. Seismic inversion
- Spectral decomposition x. xi. Time-lapse geophysical interpretation
- xii. Well-to-seismic tie
- xiii. 3D visualisation

RISK AND UNCERTAINTY 5. MANAGEMENT

- Case studies and best practices i. ii. Mitigating and reducing risk in exploration, production and
- development
- iii. Scenario analysis
- Uncertainty quantification iv.
- Value of information v. quantification

ADVANCED GEOLOGICAL 6. CONCEPTS IN SILICICLASTICS

- Advanced geological concepts in i. siliciclastics
- ii. Depositional systems, modern and ancient (non-marine to deep water)
- iii. Diagenesis and reservoir quality controls in clastics
- Modern and ancient reservoir iv. analogues
- New sequence stratigraphic v. concepts
- Reservoir heterogeneity and vi. flow-unit definition
- vii. Sandstone reservoir characterisation and quality prediction
- viii. Sand-body architecture and reservoir connectivity

ADVANCED GEOLOGICAL 7. CONCEPTS IN CARBONATES

- Carbonate and evaporite i. depositional systems, modern
- and ancient Carbonate diagenesis and ii.
- porosity/quality prediction iii. Formation evaluation and carbonates
- Microporosity in carbonate iv. reservoirs
- Modern and ancient reservoir v. analogues
- vi. New sequence stratigraphic concepts in carbonates
- vii. Reservoir characterisation and quality prediction
- viii. Reservoir heterogeneity and flow-unit definition
- ix. Reservoirs in karst rock

8 UNCONVENTIONAL OIL AND GAS Approaches to mapping in

- i. unconventional plays ii. Basin analysis for unconventional
- plays

Formation evaluation in iii. unconventional reservoirs stacked reservoirs

production data

modelling

workflow

modelling

Conditioning models with

seismic, stratigraphic, and

Geostatistics in geologic

Integration of lithofacies,

properties for modelling

Outcrop analogues using

LIDAR/GPR/remote sensing

Ouality control in modelling

Reservoir characterisation for

facies in geologic modelling

13. FULL LIFE-CYCLE PLANNING

Improved long-term recovery

Integrated reservoir modelling

Reserves and resource evaluation

Challenges in mercury production

Importance of surveillance and

Tracer and geochemical based

production reservoir monitoring

Unconventional reservoirs:

Well testing and production

4D seismic and geophysical

Advanced EOR technologies

EOR potential and economics

Low-salinity waterflooding

Gas EGR (enhanced gas recovery)

Gas injection (flue, nitrogen, CO2,

Water conformance technologies

Post-depletion strategies

(abandonment, utilisation,

Using lithofacies and depositional

model construction

RESERVOIR

Forecasting

storage, etc.)

Reservoir appraisal

Reservoir simulation

14. INTEGRATED RESERVOIR

Digital/intelligent field

MANAGEMENT

technology

monitoring

monitoring

logging

15. EOR/IOR

etc.)

Modelling

Waterflooding

Thermal

viii. MEOR

techniques

Chemical

EOR future trends

PVT/core studies

Depletion strategy

Economic evaluation

Petrophysical input to geologic

petrophysics and reservoir

Optimum geologic modelling

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- iv. Key factors to design and
- optimise well locations v. Mitigating and reducing risks in
- unconventional plays Public awareness and education vi
 - Reserves assessment for vii. unconventionals viii. Techniques for monitoring and
 - characterising unconventional reservoirs UNCONVENTIONAL RESOURCES 9

AND MARGINAL DEVELOPMENT i. Coalbed methane

- ii. Coal-to-liquid
- iii. Fractured basement resources
- Gas hydrates iv.
- Geothermal energy v.
- Heavy oil and bitumen resources vi.
- Leveraging existing infrastructure
- vii.
- viii. Marginal developments
- Reuse of facilities and equipment ix. Shale gas/oil x.

10. FAULT AND FRACTURE NETWORKS

- i. Compartmentalisation and connectivity of fractured reservoirs
- ii. Effects of fault reactivation on seals and reservoir
- iii. Exploration in fractured basement plays
- Fracture-porosity prediction iv. Fracture prediction and v.
- modelling
- vi. Fractured reservoirs

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plays

evolution

Salt tectonics

MODELLING

xiv. Structural restoration

New technology and techniques vii in fracture detection and delineation viii. Seal analysis and risk assessment

11. STRUCTURAL SYSTEMS

Global analogues

Inverted basins

HC system dynamics

Reservoir connectivity

and overthrust settings

12. GEOLOGIC MODELLING: FROM

Case histories of integrated

Challenges in modelling

geologic modelling

ROCKS TO RESERVOIR FLOW

Application of field work

Extensional and strike-slip

Regional stress and strain analysis

Reservoir distribution in structural

Structural development and basin

The petroleum system in foreland

Structural and stratigraphic traps

Remote sensing applications



TECHNICAL CATEGORIES

10-12 DECEMBER 2014 KUALA LUMPUR CONVENTION CENTRE KUALA LUMPUR, MALAYSIA

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16. BROWNFIELD REDEVELOPMENT

- Arresting the decline rate in i. mature fields
- ii. Complex multi-stack
- multi-compartment reservoirs Development challenges in EOR iii projects
- iv. Fit for purpose wells for brownfield projects
- Integration of IOR/EOR initiatives v. Key enablers in brownfield vi.
- projects
- Maximising late-life value vii.
- Subsurface/surface and viii. brownfield/greenfield integration

17. RESERVOIR NUMERICAL SIMULATION AND **CHARACTERISATION**

- Gridding discretisation and i. solvers
- History matching ii.
- Integrated modelling and iii. complex processes
- Integration of production and iv. performance data
- Next generation simulators v. vi. Optimisation and reservoir
- management vii Pore-scale modelling
- viii. SCAL
- ix.
- Streamline simulation Unconventional reservoirs (tight x. gas/oil, shale, CBM)
- xi. Upscaling

18. FORMATION EVALUATION

- i. Carbonates
- Cased-hole logging ii.
- iii. Digital core
- Low-resistivity reservoirs iv.
- Marginal fields v.
- New technology vi.
- vii. Saturation monitoring

REGIONAL FOCUS TOPICS 19. Carbonate and fractured

- i. reservoirs
- ii. CO2 management - sequestration and utilisation
- iii. EOR offshore
- High CO2 field developments iv.
- Marginal asset monetisation v.
- vi. Mature fields
- vii. Natural gas resources

DRILLING AND COMPLETIONS

- 20. OPTIMISATION OF WELL PLANNING AND EXECUTION i Case studies
- Extended-reach drilling ii.
- Geomechanical considerations iii.
- iv. Intelligent well completions
- Performance drilling v.
- Pore pressure prediction, vi. reservoir integrity, and containment - well planning

- vii. System optimisation (drilling and completions)
- viii. Unconventional wells
- Wellbore quality considerations ix. Well intervention x.

21. CHALLENGES IN WELL CONSTRUCTION AND

- COMPLETION
- i. Deep water
- Drilling with casing ii.
- iii. High pressure/high temperature drilling
- Managed pressure drilling and iv. underbalanced drilling
- Multi-layer reservoir completions v. vi. Multi-stage fractured horizontal
- wells vii. Naturally fractured reservoirs
- Sand control/unconsolidated viii. reservoir
- Sour/corrosive environment ix.
- Well integrity x.

ADVANCEMENTS IN DRILLING & 22. **COMPLETIONS TECHNOLOGY** APPLICATION

- i. **Completion diagnostics** Drilling and completions ii.
- equipment
- iii. Drilling systems automation Intelligent completions iv.
- Multi-stage fracturing v.
 - MWD/LWD technology
- vi. Nanotechnology vii.
- viii. Perforating and stimulation
- Real-time operations centre ix.
- x. Real-time analysis
- Tubulars xi.
- xii. Wellbore construction fluids (mud/cement)

DEVELOPMENT, **PRODUCTION AND** FACILITIES

- 23. PRODUCTION MAINTENANCE, **INTEGRITY AND CHEMISTRY** i.
 - Artificial lift Bacteria management
- ii. Chemical management iii.
- Computerised maintenance iv.
- management systems Corrective maintenance and v. intervention
- Corrosion inhibition vi.
- Corrosion management vii.
- viii. Equipment strategies and sparing philosophy
- ix. Flow assurance
- Hydrate inhibition x.
- Integrity strategy xi.
- Mixing fluid streams xii.
- Operating envelopes xiii. xiv. Pipeline maintenance (Including
- pigging)
- Preventative maintenance xv.
- Production chemistry and flow xvi. assurance

xvii. Produced water management and disposal xviii. Sand control and sand

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Infrastructure

Major projects

Minor projects

Land use

power)

xvii. Waterflooding

DEVELOPMENT

engineering design

Integrated projects

Onshore and offshore

Production optimisation

PROJECT MANAGEMENT,

CONTRACTING, AND QUALITY

Contracting and procurement

Joint development areas (JDA)

Project management systems —

completion

Deep water

Infrastructure

Major projects

Minor projects

Contract strategy

Interface management

Integrated planning

Risk management and

Standards and quality

management of change

CONCEPT ENGINEERING,

COMMISSIONING (THE 3 CS)

Concept selection — scoping

Cost management systems —

Design — front-end engineering

Floating production storage and

cost reporting and control

offloading development

Integrated planning

Offshore development

Procedures development for

Steam, air, heating, cooling, plant

instrument air, drain systems

Operations readiness

Reliability availability

Power generation

commissioning

management

xiv. Transient modelling

CONSTRUCTION, AND

Project financing

management

Value engineering

Complex facilities

and feasibility

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Handover

Utilisation

Engineering

Integrated projects

Middle East/Far East

Onshore and offshore

Production optimisation

heating systems/cooling

Reengineering and rejuvenation

Utilities (steam, water, chlorine,

systems, plant instrument air,

DEEPWATER AND PRE-SALT

Advance drilling and intelligent

Concept selection and front-end

- management
- Scale management xix.
- Shutdowns and turnarounds XX.
- Slugging xxi.
- xxii. Smart chemicals
- xxiii. Well integrity and intervention

WELL RESERVOIR AND FACILITY 24. MANAGEMENT

- Data and data management i.
- ii. Exception based surveillance
- iii. Integrated production system modelling iv. Integrated reviews

Metering and allocation

Monitoring and learning

Scheduling and execution

COLLABORATIVE WORK

Collaboration centres and

Exception-based surveillance

Field of the future, digital oilfield

and real-time monitoring

Intelligent operators and

real-time operations

Remote operations

CO₂, IOR AND EOR IN

CO2 generation, transport and

Disposal and reuse options

Produced water irrigation

Water and gas injection

AND REDEVELOPMENT

Decline management

Improved and enhanced

Debottlenecking

Deep water

recoverv

Water injection well design

Water treatment and water

BROWNFIELD CASE STUDIES

Changing fluids mix/properties

Field-life or facilities extension

Produced water management

Gas/nitrogen injection

OPERATIONS AND

PRODUCTION

Chemicals

Gas cycling

storage

quality

Modelling

Multi-skilling

Smart wells

Social media

communication tools

WFRM strategy

25. SMART FIELDS AND

ENVIRONMENTS

Control systems

Data management

Key performance indicators

Opportunity identification and

opportunity maturation process

Tracers injection and application

Well and reservoir surveillance



TECHNICAL CATEGORIES

10-12 DECEMBER 2014 **KUALA LUMPUR CONVENTION CENTRE** KUALA LUMPUR, MALAYSIA

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31. FACILITIES DISCIPLINE ENGINEERING

- i. Civil and structural engineering
- ii. Instrument, control, electrical
- Machinery and rotating equipment iii.
- Materials and corrosion iv.
- Mechanical engineering v.
- vi. Pipelines
- vii. **Process engineering**
- Process safety viii.
- ix. Subsea Water disposal x.

CONVENTIONAL GAS AND 32. **INTEGRATED GAS**

- i. Coalbed methane / shale gas
- ii. Enhanced gas recovery
- iii. Gas deliquification
- iv. GTL
- v. LNG and floating LNG
- Multiphase metering vi.
- vii. Production chemistry and flow assurance
- viii Production monitoring and control Produced water management ix. and disposal

33. ABANDONMENT

- Artificial reefs i.
- ii. **Facilities cleaning**
- iii. Monitoring iv.
- People redeployment v. Recycling
- Remediation and reinstatement vi.
- Structural facilities removal vii.
- Well abandonment viii.

MID-STREAM GAS

34. GAS MIDSTREAM / MARKETS Cross-border pipelines i.

- ii. Development of reticulated gas networks
- iii. Gas market development
- Gas transportation iv.
- Gas distribution and storage v.
- vi. Natural gas for transportation

35. LNG

- Development in liquefaction i. technologies
- ii. Energy optimisation for re-gasification (cold-energy utilisation)
- Environmental footprint of LNG iii. projects
- Floating gasification terminals iv. Floating LNG v.
- vi. LNG market trends and
- alobalisation
- vii. LNG projects case studies
- viii. Trading patterns and hubs
- Pricing of LNG ix.
- Mini-LNG х.
- xi. Minimise energy loss
- Unconventional gas to LNG xii.
- xiii. Process safety in LNG

36. GAS MONETISATION

CNG i.

GTL

ii.

v.

- iii. Gas to chemical/petrochemical iv.
 - Gas to power Lessons from major gas development projects
- vi Mini facilities
- Monetisation of stranded/remote vii. aas

37. GAS TECHNOLOGY

- Carbon pricing and trends i.
- Corrosion and metallurgy in gas ii. processing
- iii. Emerging technologies in gas processing Extraction of helium and other iv.
- trace gases Gas conversion technologies v.
- vi. Gas compression
- Gas processing vii.
- Gas dehydration viii.
- Gas storage technologies ix.
- Gas treatment x.
- xi. Hydrate technology/gas pipeline flow assurance
- NGL recovery technologies xii.
- N2 rejection technologies xiii.
- Sour-gas handling and treating xiv. Sulphur production, storage, and xv. export

CO₂ MANAGEMENT 38.

- GHG emissions reduction i.
- Processing, transportation and ii. disposition of CO2
- iii. Transportation technologies iv. Trends in carbon intensity reduction

OVER-ARCHING INDUSTRY ISSUES — HSE, SECURITY, HUMAN **RESOURCES, BUSINESS,** AND SOCIAL CHALLENGES

39. HEALTH AND SAFETY

- Asset integrity i.
- Contingency emergency ii. response planning
- iii. Crisis management HSSE management systems iv.
- Human factors v.
- Job safety planning vi.
- Job safety planning vii.
- Permit-to-work management viii.
- Management of contractors ix.
- Management of emergency x. hydrocarbon releases
- Process safety management xi.
- Safety during operations xii.
- Safety during construction xiii.
- xiv. Safety leadership, culture, and human factors
- xv. Safety in transportation
- Safety in facility design xvi. xvii. Simultaneous operations
 - (SIMOPs)

40. ENVIRONMENT

i. By-product solutions (sulphur, bio-waste)

viii. Use of social media

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Use of visual media

45. COMMERCIAL AND RISK

Crossing agreements

Government/regulatory

Health and safety risk

Processing agreements

Sales agreements

Sharing agreements

framework and incentives

Government to government

Management in a cyclical industry

Risk assessment and mitigation

Unitisation and redetermination

Commercial structures (tax

royalty, production sharing

agreements, joint ventures, etc.)

Cross border development and

Economical and commercial risk

MANAGEMENT

production

Financing

agreements

management

Political risk

Carbon capture and storage ii.

Handling of radioactive sources

Source-water and waste-water

development and environmental

Cyber security and data security

Sanctions and embargoes

Terrorism, hijacking, and

Site security and mitigation

Attracting and retaining talent

Data and knowledge sharing

Knowledge transfer from the

Management of contractors

Promoting women in the energy

Promoting the energy industry to

Strategic resource planning and

management in a cyclical

Training and competency

Community development

responsibility/community

development projects

Local skills development

44. LESSONS LEARNT AND

Business continuity

virtual teams

architecture

Teamwork

Corporate social responsibility

Education and capability building

KNOWLEDGE MANAGEMENT

Building organisational capability

Centres of Excellence (COE) and

Data and knowledge sharing

Data management and data

Lessons learnt culture

Talent management

43. SOCIAL RESPONSIBILITY

Corporate social

xiv. Workforce diversity

Government/regulatory policies

Data management/security of data

Produced water handling

Unconventional resource

Waste management

Water disposal

Cuttings disposal iii

produced fluids)

management

aspects

SECURITY

kidnapping

42. HUMAN RESOURCES

and incentives

Human factors

baby boomers

Labour welfare

industry

the youth

industry

Career development

Piracy

Emissions iv. Fluid remediation (drilling and



ABSTRACT GUIDELINES

10-12 DECEMBER 2014 Kuala Lumpur Convention Centre Kuala Lumpur, Malaysia

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 12 February 2014. Early submission is particularly important to ensure that the committee members have ample time to review the abstracts. Authors are strongly encouraged to submit their abstracts electronically at the IPTC website, http://www.iptcnet.org/2014/kl.

ABSTRACT CONTENT

A proper review of your abstract requires that it contains 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 proposed paper 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 proposed paper 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.
- The substance of the proposed paper 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.

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 early May 2014.
- 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, 30 September 2014, 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

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