

# IPC 2016

## INTERNATIONAL PIPELINE CONFERENCE

September 26 – September 30, 2016 • Hyatt Regency Calgary & Calgary TELUS Convention Centre, Calgary, Alberta, Canada

**Leading and Innovating**

### Call for Papers

[www.ipcyy.com](http://www.ipcyy.com)

#### The Conference

In September of 2016, members of the pipeline industry from around the world will gather in Calgary, Alberta for the 11<sup>th</sup> International Pipeline Conference (IPC 2016). Organized by volunteers representing international energy corporations, energy and pipeline associations and regulatory agencies, the IPC has become internationally renowned as the world's premier pipeline conference. This is a not-for-profit conference and proceeds continue to support educational initiatives and research in the pipeline industry.

The conference will commence on Monday September 26, 2016 with tutorial offerings in key areas of interest and Technical Track Sessions will commence on the morning of Tuesday, September 27 and will extend through to Friday, September 30, 2016.

The International Pipeline Conference is designed to inform, enlighten and motivate so we encourage you to actively participate for this exciting cycle – five days of exceptional value, which you will not want to miss!

#### Technical Tracks

Conference organizers developed technical tracks to enhance the opportunities for attendees to hear and participate in discussion with industry leaders in the topic areas of their choice. Topic areas include, but are not limited to:

##### Track 1: Pipeline Safety Management Systems

Safety and Loss Management, Safety Culture, Leadership Accountability and Policy, Management Review and Audits, Training and Competency, Regulatory Lifecycle, Quality Management, Risk Management Framework, Management of Change, Process and Personal Safety, Incident Investigation and Lessons Learned, Stakeholder Engagement, Comparison of Regulations and Standards, Integrating Safety, Environment and Emergency Management Programs, Industry Practices

##### Track 2: Project Management, Design, Construction & Environmental Issues

Team Leadership, Effective Communication, Collaboration, Joint Ventures, High Value Engineering, System Planning (Hydraulics), Design, Routing, Survey, Logistics, Construction, Quality Control and Quality Assurance, Testing, Commissioning, Coatings, Compressor and Pump Stations, Terminals, Pigging Facilities, Valves, Piping Stress Analysis, Change of Service, Satellite Imaging and Remote Sensing, Field and Inspection Data Management, Geomatics, Global Positioning System Applications, Environmental Case Studies, Socioeconomic Studies, Community Involvement, Permitting Strategies, Reclamation, Mitigation, Abandonment, Land Issues, Emissions, Hydrotesting Fluids, Remediation, Environmental Impact Assessments, Cumulative Effects Assessment, Route Selection, Monitoring, Water Crossings

##### Track 3: Pipelines & Facilities Integrity

Hazard and Threat Identification, Engineering Assessments, Mitigation, Inline Inspection (ILI) Technology, External Corrosion & Control, Cathodic Protection, Internal Corrosion & Control, Coatings, Environmental Stress Corrosion & Fatigue Cracking, Mechanical Damage, Tanks, Pumps, Compressor Stations, Station Piping, Field and Inspection Data Management, Geographical Information Systems, Defect Detection & Assessment, Direct Assessment, Tethered & Robotic Inspection Tools, Inspection Data Management, Inspection Intervals & Scheduling, Measuring Corrosion Growth Rates, Reliability, Field NDE for ILI Data Validation

##### Track 4: Operations, Monitoring & Maintenance

Applications of Technology, Operating Experience, Preventative-Maintenance Techniques, Lifecycle Engineering, Operating Equipment Optimization, Useful Life Extensions, Operating Cost Reductions, Vendor Alliances, SCADA, Communications, Automation, Control Devices, Instrumentation, Sensor Technology, Measurement and Metering, Hydraulic Simulations, Leak Detection, Operations, Simulation & Trainers, Field and Inspection Data and Records Management, Hydrostatic Testing, Geohazard Management (incl. geotechnical, hydrotechnical, and seismic ground movements/forces), Characterization, Monitoring, Mitigation



For more information visit [www.ipcyy.com](http://www.ipcyy.com)  
or E-mail [info@ipcyy.com](mailto:info@ipcyy.com)



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#### Track 5: Materials & Joining

Materials Design, High Strength Steels, Fracture Toughness Requirements, Welding, Properties of Girth Welds, Weld, Flaw Acceptance Criteria, Hot Tapping, Mechanical Joining, Joining Alternative Materials, Quality Control and Quality Assurance, Pipe Manufacture, Fittings, Nondestructive Examination

#### Track 6: Strain Based Design

Strain Demand, Characterization of Hazards, Methods for Estimating Strain Demand (in-situ, ILI, pipe-soil interaction), High performance pipe and fittings for high strain demand, Welding and Inspection for High Strain Applications, Tensile Strain Capacity, Compressive Strain Capacity, Small and Large Scale Tests for Material Characterization and Strain Capacity Determination, Project Experience and Lessons Learned in Strain Based Design, Regulatory Needs and Gaps

#### Track 7: Risk & Reliability

Risk Assessment, Qualitative and Quantitative Risk Modelling, Risk Based Maintenance Planning, Reliability Based Design and Assessment, Failure Data Analysis and Failure Rate Estimation, Failure Consequence Modelling, Risk Tolerance Criteria and Reliability Targets, Pipeline Security, Database Design

#### Track 8: Northern, Offshore & Production Pipelines

Emerging Technologies, Working in Permafrost, Stability of Frozen Slopes, Frost Heave, Thaw Settlement, Thermal Modelling, Logistics, Engineering in Cold Regions, Rapid Lake Drainage, Satellite Imaging and Remote Sensing, GPS Applications, Effects of Climate Change on Northern Pipelines to Offshore Pipelines, Flexible Pipeline Applications, Ice Scour, Infrastructure and Logistics issues

### Guidelines for Abstracts

Due to the overwhelming author response for the 2014 conference, there will be an increased emphasis on the review process to ensure that only the highest quality papers are accepted. Authors are advised that their abstracts should be approximately 300-400 words in length and must include full names, addresses, telephone and/or fax numbers, and email information of the author(s). In the case of multiple authors, please indicate one (1) primary contact. There will be a maximum of five (5) authors for any paper.

The official language of IPC 2016 is English. All presentations must be in English.

When considering whether to submit an abstract, please be advised that if an abstract is accepted (upon review), authors will be invited to submit a formal Draft Paper for a Technical Presentation or a Poster Session. The Technical Committee will perform critical reviews of each Abstract, Draft Paper, and Final Paper prior to acceptance. Authors are advised that submitting placeholders is not acceptable.

There will be a limit to the number of papers that can be accepted for formal presentations during IPC 2016. To accommodate as many papers as possible, please consider Poster format papers. The Poster Session was very successful during IPC 2014, allowing authors to have more direct discussion with IPC delegates regarding their work. Papers presented as posters are eligible for publication by ASME provided that all other criteria are met.

Authors are encouraged to include wording in their Abstract that clearly communicates to the Abstract Reviewers:

1. How is the subject of the paper original and how does it contribute to innovation in the Pipeline Industry? (i.e. What novel problem is the paper addressing/solving?)
2. Who is the Target Audience? (Leadership and Managers, Technical, Safety, Operations and Field Personnel etc.) and
3. Which alternative IPC Track(s) could the paper be assigned to if the paper cannot be assigned to the primary Track?

Short papers (as defined by ASME Guidelines) will not be accepted for IPC 2016.

### Review Criteria

Abstracts will be judged on their content emphasizing new knowledge or experiences/test results and their technical merit and interest relative to IPC 2016. Authors must avoid commercial references within their abstracts and full-length papers.

*ASME Author Guidelines* must be followed. Please visit the link below for Guidelines:

<https://www.asme.org/shop/proceedings>

*ASME Elements of a Paper*: Provides complete and succinct guidelines for writing the paper:

<https://www.asme.org/shop/proceedings/conference-publications/elements-of-a-paper>

Final paper acceptance will be at the discretion of the Technical Committee.

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### Leading and Innovating

#### Abstract Submission

Abstracts may be submitted online to the Conference Web Tool at: <http://www.asmeconferences.org/IPC2016/Login.cfm>

The deadline for submission of abstracts is **November 2, 2015**.

When your abstract is submitted to the Conference Web Tool, you will be notified of your abstract confirmation number.

#### Schedule for Publication

If you are planning to submit an abstract for consideration for IPC 2016, please note the following deadlines:

- November 2, 2015 – Deadline for Abstract Submission
- December 2, 2015 – Author Notification of Abstract Acceptance
- February 1, 2016 – Deadline for Submission of Full-Length Draft Paper for Review
- March 29, 2016 – Paper Reviews Completed
- April 11, 2016 – Initial Author Notification of Acceptance/Revision Requirements (*please note: at this date and onwards, poster format paper candidates may also be identified if it is determined a technical paper is better suited for a poster format*)
- April 11, 2016 – Electronic Copyright Form Submission Process Opens
- April 25, 2016 – Deadline for Submission of Revised Paper for Review (*if required*)
- May 9, 2016 – Author Notification and Acceptance of Revised Paper
- May 20, 2016 – Deadline for Submission of Copyright Form
- May 24, 2016 – Deadline for Submission of Final Paper
- May 30, 2016 – Author Registration Deadline (*please note: Final Papers can only be confirmed once the presenting author is registered for IPC 2016*)

The above deadlines are subject to change. Please refer to the Conference Website, [www.ipcyc.com](http://www.ipcyc.com) for confirmed dates.

Publication of Final Papers is subject to author(s) commitment to attend and present at IPC 2016 and will be at the discretion of the Technical Committee.

The Technical Committee reserves the right to require a pre-paid deposit prior to approving authors' papers for IPC 2016.

**\*At the time of submitting a full-length Draft Paper, authors are advised to initiate the Travel VISA application process if required for travel to Canada to present an accepted Final Paper. We have experienced issues in the past where Travel VISAs were not received in time and paper were omitted or withdrawn as a result.**

For more information, please email the Technical Coordinator at [info@ipcyc.com](mailto:info@ipcyc.com)

#### Tutorials / Student Papers / Panels

##### Tutorials

Tutorials are intended to provide information to conference participants, which will further enhance their ability to enjoy the conference. Individuals interested in providing a tutorial for IPC 2016 are to contact the Technical Coordinator at [info@ipcyc.com](mailto:info@ipcyc.com).

##### Poster Sessions

Poster Sessions provide an opportunity for authors to present their paper in a different format than traditional oral presentations and will be held throughout the conference based on interest and space availability.

**Please select Poster as your paper type when submitting your abstract.**

##### Panel Sessions

Panel sessions will be organized based on interest and availability of panelists. If you have an idea for a panel session you would like to see, participate in or organize, please contact the Technical Coordinator at [info@ipcyc.com](mailto:info@ipcyc.com).

Please be advised that the Panel Session Topics will be announced soon.

For more information, please visit [www.ipcyc.com](http://www.ipcyc.com) or email: [info@ipcyc.com](mailto:info@ipcyc.com)

##### Student Paper Competition

Graduate and Undergraduate Students are invited to participate in the seventh Student Paper Competition to be held in conjunction with IPC. Details of the competition will be posted to the International Pipeline Conference Website at:

[www.ipcyc.com](http://www.ipcyc.com)

Please select Student Paper as your paper type when submitting your abstract.

A covering letter from your supervisor stating that you are a student in good standing may be requested.



For more information visit [www.ipcyc.com](http://www.ipcyc.com)  
or E-mail [info@ipcyc.com](mailto:info@ipcyc.com)

