Sustaining well pad costs can comprise between 70% and 80% of the total lifecycle capital of an in-situ oil sands project. These costs have grown significantly over the last 10 years and are putting production volumes at risk from our existing and future projects.

This is a major risk to the competitiveness of Canadian oil sands in the global marketplace, at the current cost structure, many projects are not economically viable. The Canadian industry needs to be proactive in collaborating to reduce the lifecycle cost of wellpads in order to remain competitive in the world marketplace.
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GENERAL INFORMATION

Accessibility
Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

Alcohol Policy
SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

Commercialism
In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

Continuing Education Units
Attendees will receive 1.0 CEUs. One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of SPE workshop. A permanent record of a participant’s involvement and awarding of CEUs will be maintained by SPE.

Documentation
The workshop online community will contain released copies of the workshop presentations.

Electronic Devices
As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

Name Badges
Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers and sponsors.

Photography and Recording Policy
SPE reserves the exclusive rights to all video/audio recording or reproductions of the workshop. Unauthorized video/audio recording is expressly prohibited in the session room(s) or poster area, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

Workshop Format
Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.
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<tr>
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<td>Interactive Industry Icebreaker and Survey Feedback</td>
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**SCHEDULE OVERVIEW**

9 June 2016 | BMO Centre at Stampede Park | Calgary, Alberta
**TECHNICAL AGENDA**

**THURSDAY, 9 JUNE**

**0700-0800**  |  Registration  
Hot Breakfast Sponsored by:  

**0800-0830**  |  Interactive Industry Icebreaker and Survey Feedback  
*Kris Watson*, Precise Downhole Services  
This valuable networking opportunity will give attendees real-time information from their peers. After registering to attend, delegates were sent a topical survey to complete and the results will be presented as a kick off to the workshop.

**0830-1000**  |  Session 1: Front End Planning (Reservoir and Pad Design)  
Session Chairs:  
*Mark Conacher*, Suncor  
*Mike Morden*, Suncor  
*Greg Owen*, GPO & Associates  
Setting the regulatory and development framework is paramount to defining a successful project. This session will focus on the early planning stages of development that lead to a well-defined project.  
- **Presentation 1**: Developing a SAGD Reservoir  
  *Michael Tulk*, Suncor  
- **Presentation 2**: Nexen’s Evolution of the SAGD Wellpad  
  *Heather Osecki*, Nexen  
- **Presentation 3**: AER Regulatory Initiatives for Thermal Pad Development  
  *Mike Morden*, Suncor and *Steve Thomas*, AER/Suncor

**1000-1030**  |  Poster Showcase  
Coffee Break  
Sponsored by:  

**1030-1200**  |  Session 2: Well Construction and Surface Development  
Session Chairs:  
*Jeanna Brown*, Shell Canada Ltd.  
*Eric Diggins*, E&P Consulting  
*Jordan Wiess*, Brion Energy  
Pad design can have a significant impact on drilling and completions operations, and expenditures. Overall lease size, access, facility layout, drainage, well/slot layout, and design are key factors that need to be addressed early in the planning phase to avoid design change, significant cost overruns, and rework during operations.  
- **Presentation 1**: SAGD Pad Selection and Infill Development  
  *Brian Mracek*, Brion Energy  
- **Presentation 2**: Pad Construction in Upland and Wetland Settings: Options to Reduce Cost and Improve Final Reclamation Outcomes  
  *Amanda Schoonmaker*, NAIT Boreal Research Institute  
- **Presentation 3**: Manufacturing Wells in an Uncomfortably Small Footprint  
  *Jeanna Brown*, Shell Canada Ltd.

**1200-1245**  |  Lunch  

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**On behalf of all the speakers and committee members of the SPE Oilsands Workshop and in lieu of speaker/committee gifts, SPE Canada has made a donation to Edmonton’s Food Bank.**

*We have chosen this charity because of its support to those affected by the Fort McMurray Fire.*

[www.edmontonsfoodbank.com](http://www.edmontonsfoodbank.com)
OUR SUCCESS IS ALBERTA’S SUCCESS

As NAIT’s Research Chair in Boreal Reclamation and Reforestation, Dr. Amanda Schoonmaker and the boreal team in Peace River are creating a more sustainable future for Alberta.

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The surface facilities are often the largest capital expenditure in the development of an in-situ well pad. Production requirements, design philosophies & specifications and execution strategies all play a significant role in what the surface facility will cost. In order to improve the competitiveness of the in-situ oilsands, the well pad surface facility costs must be reduced by developing fit for purpose designs and taking advantage of the repeatability to improve execution efficiencies.

- **Presentation:** Minimum Facilities, Standardization and Fit for Purpose Approach to Design  
  **Steve Gough,** GPO & Associates Ltd.

Each speaker will deliver a 10-minute presentation followed by a 30-minute panel and Q&A session.

- **Panelist 1:** Case Study of a Standard Wellpad Delivery Model  
  **Mark Bergmann,** Equinox

- **Panelist 2:** Standard SAGD Well Pad – Building on Yesterday’s Innovations and Driving Tomorrow’s Solutions  
  **Dean Piquette,** Wood Group Mustang

- **Panelist 3:** The Surprising Future of Wellpad Design!  
  **Tushaar Dhadwal,** Suncor

- **Panelist 4:** Shifting Paradigms for Well Pad Execution  
  **Larry Waite,** WorleyParsons

- **Panelist 5:** Well Pad Manufacturing Integrated With Well Pad Delivery and Planning  
  **Ashley Leroux,** Integrated Thermal Solutions Ltd. and **Doug Hollies,** Codeco Oilsands Engineering

**Session 4: Competitive Strategies for the Future**

- **Session Chairs:** Eric Diggins, E&P Consulting  
  **Mark Conacher,** Suncor Energy

Well pad costs, which make up approximately 2/3 of an in situ oil sands development project over the project lifecycle, have been on a steady and steep increase. Without a step change in the approach to development and execution of these well pads, the competitiveness of the Alberta oil sands in the global marketplace is going to be further at risk than it already is. Owners and contractors from all disciplines will be required to work collaboratively at all levels in order to turn this trend around. This session will focus on some of the highest value opportunities for improvement.

- **Presentation 1:** Well Pad Benchmarking - Measuring Success  
  **Chantel Moran,** OEC Industrial

- **Presentation 2:** SAGD Integrated Team Management Pilot at MacKay River  
  **Tushaar Dhadwal,** Suncor

- **Presentation 3:** An Integrated Approach To Wellpad Delivery  
  **Craig McInnis,** Cenovus

**Workshop Wrap Up:** Can We Avoid the Cliff?!  
**Eric Diggins,** E&P Consulting

**Networking Reception**  
Palomino E-F
The industry is changing and so are we. For over 75 years, JWN has provided the most trusted intelligence and insight on Canada’s energy industry through products such as the Daily Oil Bulletin, Oilweek, Oilsands Review, CanOils and Evaluate Energy.

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Integrated Thermal Solutions (iTS) offers a turn-key, guaranteed price, Wellpad Manufactured Solution (WPMS) to the thermal-heavy oil industry. The patent pending WPMS integrates reservoir, drilling, completion, facility, and operational goals into a game changing package resulting in significant cost reduction, exceptional schedule enhancement, uncompromised safety, and improved quality via manufacturing standardization. iTS is a subsidiary company of Tundra Process Solutions.