



WILLISTON BASIN PETROLEUM CONFERENCE

organized by: **EVENTWORX**
CORPORATION

Conference Guide



May 28 & 29, 2019

Delta Hotels by Marriott
Regina, Saskatchewan

wbpc.ca

Hosted by:



Stakeholder:





Williston Basin Petroleum Conference 2019 looks forward to welcoming 700 business and technical delegates from Canada and the USA. Now in its 27th year, the Williston Basin Petroleum Conference showcases innovations centered around heavy oil, light and tight oil, EOR, advanced energy systems, advanced technologies, automation, clean technologies, block chain, artificial intelligence and more. The theme of the 2019 Williston Basin Petroleum Conference is "Saskatchewan Now," with an in-depth look at opportunities and innovations available in the Saskatchewan energy industry.

EVENT HIGHLIGHTS

- Executive Business Conference with industry and government thought leaders.
- Technical Conference focusing on hot industry topics, including advancements in heavy oil, light & tight oil, carbon capture & sequestration (CCS), pipeline integrity and much more.
- Technical Exhibition showcasing products and services around enhanced oil recovery, advanced energy systems, advanced technologies, automation, clean technologies, block chain, artificial intelligence and more.
- Core Workshop - presented by the Saskatchewan Geological Society.
- Networking events including an Industry Reception, Keynote Luncheons, and more.

REGISTRATION INFORMATION

Full Conference and One-Day rates include Breakfasts, Keynote Luncheons, Breaks and Reception.

Full Conference Early Registration (ends April 30, 2019)	\$600.00 CDN
Full Conference Regular Registration (after April 30, 2019)	\$900.00 CDN
Full Conference On-site Registration	\$1,200.00 CDN
Full Conference Technical Speaker Rate	\$400.00 CDN
One-Day Conference (May 28 or 29)	\$425.00 CDN
Keynote Luncheons Individual (May 28 or 29)	\$75.00 CDN
Full Day Workshop (May 27, 2019)	\$250.00 CDN
Exhibition Visitor (May 28, 29)	\$50.00 CDN

Register at www.wbpc.ca

KEYNOTE SPEAKERS



Hon. Bronwyn Eyre
Ministry of Energy and Resources
Government of Saskatchewan



Brad Wall
former Premier
Government of Saskatchewan



Gary Doer
former Canadian Ambassador
to the United States,
and former Premier
Government of Manitoba



Shawn Bennett
Deputy Assistant Secretary,
Office of Oil and Natural Gas
US Department of Energy

SCHEDULE OF EVENTS

MONDAY, MAY 27

Exhibitor Move-In & Registration

8:00 am to 5:00 pm

CORE Workshop #1

8:30 am to 11:30 am
Saskatchewan Energy and
Resources
Core Examination Facility -
201 Dewdney Ave. E.

CORE Workshop #2

1:30 pm to 4:30 pm
Saskatchewan Energy and
Resources
Core Examination Facility -
201 Dewdney Ave. E.

VIP Dinner

By Invitation Only

TUESDAY, MAY 28

Registration

7:00 am - 5:00 pm

Business Conference

8:30 am - 5:30 pm

Keynote Luncheon

12:00 - 1:30 pm

Exhibition

10:00 am - 5:00 pm

Technical Conference

8:30 pm - 5:30 pm

Networking Reception

6:30 pm - 9:30 pm

WEDNESDAY, MAY 29

Registration

7:00 am - 3:00 pm

Business Conference

8:30 am - 5:30 pm

Keynote Luncheon

12:00 - 1:30 pm

Technical Conference

7:30 am - 5:00 pm

Exhibition

10:00 am - 3:00 pm

THURSDAY, MAY 30

SaskPower's Boundary
Dam Carbon
Capture Facility and
Aquistore Tour
8:00 am - 4:30 pm



Business Conference Schedule

TUESDAY, MAY 28, 2019

7:00 am – 8:00 am	Registration & Breakfast
8:00 am – 8:10 am	Welcome & Opening Remarks Dan MacLean, President - Petroleum Technology Research Centre (PTRC)
8:10 am – 8:20 am	Opening Prayer
8:20 am – 8:35 am	Opening Welcome Hon. Bronwyn Eyre, Minister of Energy & Resources - Government of Saskatchewan
8:35 am – 9:00 am	Keynote Address Consul General Lucia Piazza - Government of the United States
9:00 am – 10:30 am	Panel #1: Investment Strategies in Oil & Gas Faced with challenging economics, how do small and large players in the oil patch raise capital for new and established operations? What are investors – funds, banks, individuals – looking for when approached for investing? What roles do asset management, profit margins, First Nations collaboration, and technological innovation play in the securing of funding? Moderator: Gary Mar, President & CEO - Petroleum Services Association of Canada Panelists: Derrick Big Eagle, President - Tomahawk Energy Services Jason Moser, Partner, Director of Investments - PFM Capital Inc. Scott Southward, President and CEO - Steel Reef Steve Saddleback, Director, National Energy Business Centre of Excellence - Indian Resource Council of Canada Tyler Bradley, Vice President - Westcap Management Ltd.
10:30 am – 11:00 am	Networking Break
11:00 am – 11:30 am	Keynote Address Mike Marsh, President and CEO - SaskPower
11:30 am – 12:00 pm	Keynote Address Ken From, President and CEO - SaskEnergy
12:00 pm – 12:15 pm	Networking Break (room refresh)
12:15 pm – 1:00 pm	Networking Luncheon
1:00 pm – 2:00 pm	A Conversation with Brad Wall and Dan MacLean Brad Wall, Former Premier - Government of Saskatchewan and Dan MacLean, President & CEO - PTRC
2:00 pm – 3:30 pm	Panel #2: Policy: What Are the Policy Decisions Required to Drive and Retain Investment in Saskatchewan? Policy drives investment. Where does Saskatchewan stand within Canada, and internationally, in terms of establishing the right business and policy structures to secure business investment? What roles do environment, First Nations involvement, social impacts, and community engagement play in the shaping of policy and the creation of a positive investment environment? Moderator: Allan Fogwill, President & CEO - Canadian Energy Research Institute (CERI) Panelists: Brad Wall, former Premier - Government of Saskatchewan Chad Harris, President and Chief Executive Officer - Serafina Energy Ltd. Chris Bloomer, President and CEO - Canadian Energy Pipeline Association Craig Lothian, President - Lex Capital Management Martha Hall Finlay, President and CEO - Canada West Foundation Rob Morgan, President and CEO - Cona Resources

TUESDAY, MAY 28, 2019 **continued**

3:30 pm – 4:00 pm	Networking Break
4:00 pm – 5:15 pm	<p>Panel #3: Technology and Innovation Now: What is being Incorporated in Operations Today? Part One</p> <p>What are the technologies we need to invest in now to drive the oil and gas sectors forward? Poor recovery rates in tight/light formations like the Bakken and Viking Formations, along with watering out of wells in both Alberta and Saskatchewan's heavy oil formations requires innovative solutions. And how do more stringent environmental regulations on land and water use, as well as methane and other GHG emissions, shape the R&D and field research?</p> <p>Moderator: Mike Crabtree, President and CEO - Saskatchewan Research Council</p> <p>Panelists: Audrey Mascarenhas, President and CEO - Questor Technologies Iggy Domagalski, CEO - Tundra Process Solutions Soheil Asgarpour, President - Petroleum Technology Alliance of Canada Trent Marx, President and CEO - Energy Resource Solutions</p>
5:15 pm – 5:20 pm	<p>Closing Remarks – Day One Dan MacLean, President and CEO - PTRC</p>
6:30 pm – 9:30 pm	<p>Evening Reception and STARS Fundraiser Casino Ballroom</p>

WEDNESDAY, MAY 29, 2019

7:30 am – 8:30 am	<p>Bacon & Reg's – The latest regulations and incentives for working in the Province of Saskatchewan.</p> <p>Carbon Markets vs. Carbon Tax Alastair Handley, President - Carbon Credit Solutions</p> <p>Prairie Resilience Climate Change Strategy David Stevenson, Director, Climate Change Policy and Planning Climate Change Branch at Ministry of Environment - Government of Saskatchewan</p>
8:30 am – 9:00 am	<p>Keynote Address Shawn Bennett, Deputy Assistant Secretary, Office of Oil and Natural Gas - US Department of Energy</p>
9:00 am – 10:15 am	<p>Panel #4: Technology and Innovation – What's Next? A Glimpse into the Future</p> <p>Further to the previous day's discussions, what are some of the new technologies that show promise for raising recovery rates, improving energy efficiency, and lessening environmental impacts. How do artificial intelligence (AI) and block chain potentially change the game? Are there innovations already in the field that could be extended elsewhere? If not, what are the constraints for taking innovation to the field?</p> <p>Moderator:</p> <p>Panelists: Erik Allan, ACE Program Director - Tundra Process Solutions Geoff Hughes, President - Park Digital Matt Beck, Director, Carbon Management and Sustainability Services - The Delphi Group Marlow Zacher, Program Manager - ISM Canada (an IBM company)</p>
10:15 am – 10:45 am	Networking Break

10:45 am – 12:00 pm	<p>Panel #5: Stakeholder Engagement and Business Strategies</p> <p>Communities involved in, and located around oil and gas operations, are multi-faceted and diverse. Social site characterizations may help to determine opinions and attitudes within identified social and political groups, but opinion even within those communities may diverge and coalesce in unique ways. How does the oil and gas industry engage with myriad and diverse opinions that shape support and opposition for activities? What should successful engagement look like?</p> <p>Moderator: Margot Hurlbert, Professor, Johnson Shoyama Graduate School of Public Policy - University of Regina</p> <p>Panelists: Chelsea Clark, Senior Advisor, Indigenous and Community Relations - Husky Energy Inc. Gary Bosgoed, President - Bosgoed Projects Phil Anaquod - Indigenous Consultant Chad Ford, President - Sunexo Inc.</p>
12:00 pm – 12:15 pm	<p>Networking Break</p>
12:15 pm – 1:00 pm	<p>Networking Luncheon</p>
1:00 pm – 2:00 pm	<p>Keynote Presentation</p> <p>Gary Doer, former Ambassador - Government of Canada and former Premier of Manitoba</p>
2:00 pm – 2:30 pm	<p>Networking Break</p>
2:30 pm – 3:45 pm	<p>Panel #6: Young Professionals and Their Aspirations for the Industry</p> <p>What do young professionals entering the work force – both those making decisions about their educations and new graduates in disciplines that offer skills required by the oil and gas industry – aspire to in the changing world? Does oil and gas still hold relevance for the next generation of Canadian employees and professionals? Is the industry still seen as relevant and having a future for them? What skills are needed?</p> <p>Moderator: Kathy McNutt, Dean of Graduate Studies - University of Regina</p> <p>Panelists: Madeline (Maddy) Swalm, Consultant, Criterium Group and Executive Director, WPC Future Leaders, Calgary at Criterium Group and WPC Future Leaders, Calgary Lauren Rooney, Senior Business Strategy Manager, Accenture and Director - WPC Future Leaders, Calgary Tina Hu, Masters Student - University of Regina Jun Yang, PhD Student, Department of Petroleum Systems Engineering - University of Regina</p>
3:45 pm – 4:00 pm	<p>Closing Remarks</p> <p>Dan MacLean, President and CEO - Petroleum Research Technology Centre</p>

Technical Conference Schedule

TUESDAY, MAY 28, 2019

7:30 am – 8:00 am	Registration & Breakfast
	Session One: Advancements in Light and Tight Oil (Part 1) Session Sponsor: 
8:00 am – 8:30 am	Jim Sorensen, Energy and Environmental Research Center
8:30 am – 9:00 am	Geological Controls on Tight Oil Plays of the Upper Devonian Torquay Formation in Southeastern Saskatchewan Chao Yang, Petroleum Research Geologist, Petroleum Geology (LAB), Ministry of Energy and Resources - Saskatchewan Energy & Resources Abstract #9
9:00 am – 9:30 am	Optimizing Tight Oil Assets on Water Flood Utilizing Polymer Gel Technology: A Cost-Effective Approach with High Rate of Success Alireza Roostapour, Staff Reservoir Engineer - Ecolab Abstract #4
9:30 am – 10:00 am	Cracking the Code, Not Rock – Applications of Industrial Computed Tomography Scanning for Geomaterials Dr. Peng (Mars) Luo, R&D Technical Advisor of the Enhanced Oil Recovery Processes Business Unit - Saskatchewan Research Council Abstract #6
10:00 am – 10:30 am	Hydrocarbon Entrapment in the Viewfield Bakken Field Barrie Furlong, Geologist, Crescent Point Energy Abstract #5
10:30 am – 11:00 am	Networking Coffee Break
	Session One: Advancements in Light and Tight Oil (Part 2)
11:00 am – 11:30 am	Application of Modified Type Curve Solutions for Multistage Hydraulically Fractured Horizontal Well for Unconventional Resource Development Gary Zhao, Ph.D., P.Eng. Professor, Petroleum Systems Engineering - University of Regina Abstract #2
11:30 am – 12:00 pm	Chemical EOR in Tight Oil Pools Tim Stephenson, Reservoir Engineer, Flotek Industries Abstract #15
12:00 pm – 12:15 pm	Networking Break
12:15 pm – 1:00 pm	Networking Luncheon
3:30 pm – 4:00 pm	Networking Break
	Session Two: Advancements in Heavy Oil
4:00 pm – 4:30 pm	Post-CHOPS EOR Technology Evaluation Dr. Muhammad Imran, Manager of the Enhanced Oil Recovery (EOR) Field Development Business Unit, Energy Division - Saskatchewan Research Council (SRC) Abstract #19

TUESDAY, MAY 28, 2019 **continued**

4:30 pm – 5:00 pm	<p>Time-Resolved, High-Pressure X-Ray Imaging of Bubble Dynamics in Heavy Oil Toby Bond, Scientist, Industrial Science Division - Canadian Light Source Abstract #24</p>
5:00 pm – 5:30 pm	<p>Paleokarst Reservoirs of the Lower Carboniferous (Mississippian) Madison Group and Jura-Cretaceous Success Formation, West-Central Saskatchewan. Dan Kohlruss, M.Sc., P. Geo., Petroleum Research Geologist, Saskatchewan Geological Survey, Ministry of Energy and Resources - Government of Saskatchewan Abstract #29</p>
6:30 pm – 9:30 pm	<p>Evening Reception and STARS Fundraiser</p>

WEDNESDAY, MAY 29, 2019

7:30 am – 8:30 am	<p>Bacon & Reg's – The latest regulations and incentives for working in the Province of Saskatchewan Carbon Markets vs. Carbon Tax Alastair Handley, President - Carbon Credit Solutions Prairie Resilience Climate Change Strategy David Stevenson, Director, Climate Change Policy and Planning Climate Change Branch at Ministry of Environment - Government of Saskatchewan</p>
<p>Session Three: What are the New Opportunities? (Part 1)</p>	
8:30 am – 9:00 am	<p>Helium in Southern Saskatchewan: Accumulation and Geological Setting Melinda Yurkowski, Assistant Chief Geologist, Saskatchewan Geological Survey - Government of Saskatchewan Abstract #7</p>
9:00 am – 9:30 am	<p>The Global Helium Market from a European Perspective Thomas Luncz, Director Gas Portfolio Optimization - Uniper Global Commodities</p>
9:30 am -10:00 am	<p>Results from the Brine Sampling Project: Investigating the Lithium Potential of Brines in Saskatchewan Gavin Jensen, M.Sc., P. Geo., Senior Research Petroleum Geologist, Saskatchewan Geological Survey - Government of Saskatchewan Abstract #8</p>
10:00 am – 10:30 am	<p>Potential Applications of Lithium Extraction Technologies for Williston Basin Brines Jack Zhang, Principal Research Engineer, Mineral Processing and Hydrometallurgy - Saskatchewan Research Council (SRC) Abstract #27</p>
10:30 am – 10:45 am	<p>Networking Break</p>

	Session Four: Pipeline Integrity
8:30 am – 9:00 am	Best Practices for Flowline and Pipeline Integrity Management in the Williston Basin and Beyond Bob Prieston, Manager - Asset Integrity at Explore Inc. Jennifer Thornton, V.P. Customer Engagement - GDM Pipelines Abstract #2
9:00 am – 9:30 am	Pipers®; An Inline Screening Tool for Small Diameter Pipelines John van PoI, Co-Founder and CEO - Ingu Solutions Inc. Abstract #30
9:30 am -10:00 am	Pipeline and Tank Floor Inspection with Game Changing MEC Technology Alessandro Vagata, Managing Director, Innovo Works
10:00 am – 10:30 am	The Envirolock System - A flexible Pipeline Leak Containment System Larry Young, Founder and CEO - Total Containment Inc. Abstract #31
10:30 am – 10:45 am	Networking Break
	Session Three: What are the New Opportunities? (Part 2)
10:45 am – 11:15 am	DEEP Earth Energy Production's Williston Basin Hot Sedimentary Geothermal Power Project Development Kirsten Marcia, Co-founder, President & CEO - DEEP Earth Energy
11:15 am – 11:45 am	A Call to Complete the University of Regina GeothURmal Project of 1979 Janice Dale, Assistant Professor, Geology and Associate Professor, Geography - University of Regina, Department of Geology
11:45 am – 12:15 pm	Validating Methane Reduction Technologies in the Lab and Field Dr. Erin Powell, Team Lead, Process Development Group - Saskatchewan Research Council (SRC) Abstract #20
	Session Five: Carbon Capture and Storage (Part 1) <i>Session Sponsor:</i> 
10:45 am – 11:15 am	Update on SaskPower's Boundary Dam 3 ICCS Project Corwyn Bruce, Head of Technical Services - International CCS Knowledge Centre Abstract #21
11:15 am – 11:45 am	Tracking Underground CO2 Migration at the Aquistore CO2 Storage Site, Saskatchewan, Canada Don White, Research Scientist, Geological Survey of Canada Abstract #11
11:45 am – 12:15 pm	Interpretation of CO2 Saturations in the Aquistore Observation Well using Pulsed Neutron Logs Chris Hawkes, Associate Professor - University of Saskatchewan Abstract #18
12:15 pm -1:00 pm	Networking Luncheon
1:00 pm – 2:00 pm	Keynote Presentation Gary Doer, Former Canadian Ambassador to the United States
2:00 pm – 2:30 pm	Networking Break

Session Five: Carbon Capture and Storage (Part 2)	
2:30 pm -3:00 pm	Experience and Learnings from Reservoir Surveillance Technology Deployed at the Aqiustore CO2 Storage Site, Saskatchewan, Canada Rick Chalaturnyk, Professor - University of Alberta Abstract #26
3:00 pm – 3:30 pm	CO2 Sequestration – Operations and Maintenance at the Aqiustore Site Darcy Holderness, P.Eng., Project Leader, Power Production Business Unit, Saskatchewan Power Company
3:30 pm – 4:00 pm	Wes Peck - Energy and Environmental Research Center
Session Six: Disruption in Energy Systems	
2:30 pm -3:00 pm	Leveraging Data as an Asset Steve Tran, Senior Engineer - Mera Group Corporation Niall Wilson, Senior Engineer - Mera Group Corporation Abstract #28
3:00 pm – 3:30 pm	A Review on Applications of Big Data Analytics in Upstream and Downstream of Oil and Gas Industry Mehdi Mohammadpour, University of Regina, Postdoctoral Researcher, Sessional Lecturer, Faculty of Engineering and Applied Sciences, Petroleum Systems Engineering - University of Regina Farshid Torabi, PhD, PEng. Faculty of Engineering and Applied Sciences, Petroleum Systems Engineering - University of Regina Abstract #25
3:30 pm – 4:00 pm	Game Changing Advances in Large Scale Temporary Power Systems Mike Mayers, Business Development Manager - Aggreko Abstract #19
4:00 pm - 4:30 pm	Wireless, Digital Pumpjack Dynamometer and Rod Rotation Monitor Field Case Janelle Watson, Janelle Watson P. Eng MBA Business Development Lead, Hawkiii



ABOUT SASKATCHEWAN

Saskatchewan represents a vibrant and growing economy.

The province has an expansive wealth of natural resources including agriculture, potash, uranium and oil. The province of Saskatchewan is also a technological leader in clean-coal power generation, enhanced oil recovery, CO₂ storage in aquifers.

Because of the province's diverse resource sectors, the province has weathered economic cycles better than other regions, in fact, the province has seen record population, employment, investment, and export growth. From 2008 to 2017, Saskatchewan is estimated to reach \$151 billion in new investments. Saskatchewan is Canada's second-biggest oil producer. Oil and gas accounts for more than 15% of Saskatchewan's \$61 billion real GDP and supports approximately 38,000 jobs in the province.*

*source saskatchewan.ca/1invest



Now is the time to get involved in Saskatchewan's diverse energy sector. A limited number of exhibit spaces are available, but book early to avoid disappointment.

A variety of high-profile sponsorships are available and can be customized to meet your organization's objectives.

For additional information and to learn how your organization can be involved in the 2019 Williston Basin Petroleum Conference, please contact: