



GeoConvention 2015

GEOSCIENCE

n e w h o r i z o n s


Delegate Handbook

May 4 - 8, 2015

Calgary TELUS Convention Centre
& AER Core Research Centre



www.geoconvention.com



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Highlights & Facts

over **100** exhibiting companies
over **4,000** attendees
over **300** oral presentations
over **100** posters

Exhibition Hours

May 4, Monday 9:00 AM – 6:00 PM
May 5, Tuesday 9:00 AM – 6:00 PM
May 6, Wednesday 9:00 AM – 3:30 PM

Core Conference Hours

May 7, Thursday 8:30 AM – 4:30 PM
May 8, Friday 8:30 AM – 3:00 PM

AGAT Core Meltdown Hours

May 8, Friday 2:00 PM – 6:00 PM

Download the Conference App to your mobile device!

Android and iOS users, download the GeoConvention app from iTunes or Google Play. Blackberry and Windows users, visit:
<https://crowd.cc/geocon2015/>

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GeoConvention 2015

GEOSCIENCE

new horizons

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Stay Connected

WiFi is available throughout the venue. Log on using SSID: GeoConvention and Password: ARCIS2015

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Visit the Internet Café in the Macleod Foyer for unlimited access to the internet and computer stations.

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Join us on LinkedIn and follow us on Twitter (@geoconvention). Join the conversation at #geocon15.



GeoConvention 2015

GEOSCIENCE

new horizons

Welcome to GeoConvention 2015, Geoscience – New Horizons. We hope that your days at GeoConvention are educational and that GeoConvention provides you with good networking opportunities!

The 2015 Convention focuses on “New Horizons” – specifically, the importance of new technologies to improve the cost-effectiveness of our exploration and production activities; ideas and findings that are more important now than ever. In addition to the traditional technical program, economic and financial data will be explored as we all bring together industry and financial experts to predict how we can best navigate the a world with unfavourable oil prices. Technical discussions from industry and academia alike are hosted in an effort to share findings and new approaches to acquiring and evaluating data. Our technical committee has assembled a broad collection of oral and poster presentation with sessions ranging from “Frontiers” to “Mature Fields” and “The Business of Geoscience” to “Rock Physics”.

In addition to the technical talks and poster sessions, please take some time to visit our exhibitors and let them update you on their latest products. After the exhibit floor closes on Wednesday, you can continue learning on Thursday and Friday at the CSPG Core Conference and the CSEG Workshops.

We also have three insightful keynote luncheon speakers, Dr. Scott Tinker on Monday, Alex Epstein on Tuesday and Jay Ingram on Wednesday. In addition to the luncheons, Breakfast with the Exhibitors, and the daily coffee breaks we have scheduled networking events after the technical talks end with the Ice Breaker on Monday, then Tuesday Networking and finally the Alumni Reception and Challenge Bowl on Wednesday. To stay informed of what is happening and when the GeoConvention mobile app is a fantastic resource.

All proceeds from the GeoConvention are distributed to the three partner societies: Canadian Society of Petroleum Geologists, Canadian Society of Exploration Geophysicists and the Canadian Well Logging Society, who use the GeoConvention proceeds to help support year-round education to their members and students via regular luncheons, courses, scholarships, educational program sponsorships and written publications.

Whether you are a sponsor, exhibitor, speaker or delegate, we thank you for choosing to participate in GeoConvention 2015. We also look forward to your continued support in 2016. For 2016, GeoConvention moves from its traditional date in May to March. We will see you March 7-9, 2016, at the Telus Convention Centre in Calgary.

Art Irwin, P. Geo
General Co-Chair, CSPG



Jeff Deere
General Co-Chair, CSEG



Dustin Menger
General Co-Chair, CWLS



Welcome to GeoConvention 2015: New Horizons. This year's theme captures our industry's need to constantly broaden and expand our horizons. Both from the standpoint of exploration, where we look at new ways to exploit the geologic horizons we work with to economics, where we constantly innovate to create value in an ever changing economic, environmental, and political landscape.

Your 2015 technical co-chairs are very proud to present a comprehensive technical program with a focus on the integration of disciplines. This is complimented by some more traditionally focused technical sessions, which will expand the knowledge base of even the most sophisticated in the Geoscience world. We invite you to attend some of our more unique sessions such as Hydrogeology 101 and 102, which explore the regulations around our precious water resources and techniques for mapping and defining this valuable asset. The Applied Surficial and Quaternary Geology sessions will explore the many facets in which the subsurface and the near surface interact. The SPE panel discussion will bring forth experts from the Engineering world to discuss issues related to SAGD and Unconventional resources. Finally, the Citi Bank financial session titled "Navigating the Montney in a Challenging Environment" will explore the impact of a low price environment on the resource play.

In addition, we are very happy to host a broad selection of posters, which complement the underlying theme of the convention. These posters will be changed daily and will be located just outside the exhibition hall. We urge you to listen to the accompanying oral presentations given by the poster authors during the morning coffee breaks or take them in as part of your networking sessions on the exhibition floor.

To finish off this week of knowledge sharing, expanding our networks and meeting new colleagues, we invite you to attend this year's Core Conference being held at the AER Core Research facility on Thursday and Friday. This fantastic event lets you get back to the rocks and engage in creative conversations with fellow geoscientists over new ideas, play types, or refining old concepts into new innovations. This event is capped off by the always excellent Core Meltdown taking place on the University of Calgary campus, sponsored by AGAT Laboratories where you can spend some time with old friends and reflect on a week of learning and networking.

We invite you to be an active participant in all the events this week has to offer, as the success of GeoConvention is the result of the sophistication, knowledge and creativity of its speakers, volunteers and delegates.

Heather Makowecki
Technical Co-Chair, CSPG



David Cho
Technical Co-Chair, CSEG



Uliana Romanova
Technical Co-Chair, CWLS



With a view to the future, we, the presidents of the hosting societies, welcome you to GeoConvention 2015: New Horizons. With the focus of GeoConvention 2015 on Geoscience: New Horizon we are excited to see the wealth of integrated oral and poster presentations bringing our three disciplines together. The volunteer force lead by the GeoConvention General Chairs and staff have made a marvellous effort to provide us a full technical programme, a packed exhibit floor, interesting workshops and lunches, networking opportunities and short courses.

Given the current economic climate we applaud you and your company for continuing to invest in your future and the future of the industry by attending GeoConvention 2015. We acknowledge that budgetary constraints have impacted all segments of the industry and are grateful to Sponsors for the continued support and to Exhibitors for looking towards New Horizons.

As you explore the exhibit floor, view the posters and soak up the technical talks, take the time to discuss potential collaboration, use discussion to fuel ideas, work with your industry colleagues to bring ideas to fruition and recognize that GeoConvention 2015 provides the opportunity for New Horizons.

We wish you all the best at GeoConvention 2015 and in your subsequent exploration effort over the upcoming year.

Tony Cadrin
President, CSPG



Rachel Newrick
President, CSEG



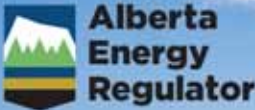
Tiffany Yaxley
President, CWLS



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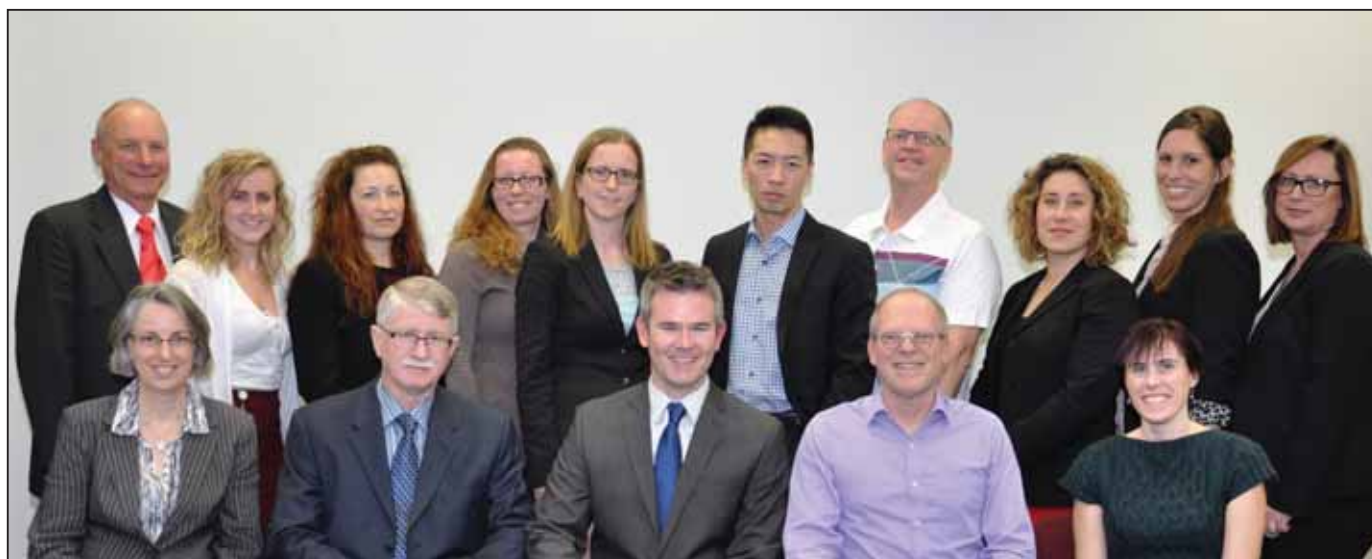


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GENERAL CHAIRS

General Co-Chair (CWLS):
Dustin Menger

General Co-Chair (CSEG):
Jeff Deere

General Co-Chair (CSPG):
Art Irwin

TECHNICAL COMMITTEE

Technical Co-Chair:
Uliana Romanova

Technical Co-Chair:
David Cho

Technical Co-Chair:
Heather Makowecki

Posters Chair:
Amy Orr

Core Conference:
Adam Pugh

Core Conference:
Rachael Acker

ORGANIZING COMMITTEE

Exhibit Chair:
Vic Urban

Volunteer Chair:
Brett Nwlkeforo

Sponsorship Chair:
Elwin Reichert

Finance Chair:
Dave Clyde

Special Events:
Laura Pecharsky

Judging Chair:
Lynn Engel

Mobile App Chair:
Nancy Laing

Social Media Chair:
Cheryl Kuyten

CONFERENCE MANAGEMENT

Mosaic Event & Travel
Management

Nicole Sendziak

GeoConvention



MARCH 7 TO 11

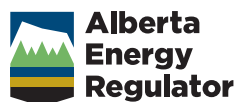
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MEDIA PARTNERS



Calgary TELUS Convention Centre		
MONDAY, MAY 4	TUESDAY, MAY 5	WEDNESDAY, MAY 6
Registration (7:00-5:00) Exhibition Foyer	Registration (7:00-5:00) Exhibition Foyer	Registration (7:00-3:00) Exhibition Foyer
Exhibit Floor Open (9:00-6:00)		Exhibit Floor Open (9:00-3:30)
Morning Technical Sessions (8:05-11:30) Macleod Halls, Glen and TELUS Rooms		
Power Up Breakfast with Exhibitors (9:30-10:15) Exhibit Hall Coffee & Poster Presentations (9:30-10:15) Exhibition Foyer		
Keynote Luncheons (11:30-1:00) Hyatt Imperial Ballroom		
Afternoon Technical Sessions (1:15-4:15) Macleod Halls, Glen and TELUS Rooms		
Coffee Break (2:40-3:00)		
Networking Reception (4:00-6:00) Exhibit Hall		Alumni Reception (3:30-4:30) Macleod E3
		Challenge Bowl (4:45-7:00) Macleod D

AER Core Research Centre

THURSDAY, MAY 7	FRIDAY, MAY 8
Registration (8:00-4:00)	Registration (8:00-2:00)
Exhibition Closed	Exhibition Closed
Core Conference (8:30-4:00)	Core Conference (8:30-2:30)
Coffee Break (10:00-10:30)	Coffee Break (10:00-10:30)
BBQ Lunch (11:30-1:30)	BBQ Lunch (11:30-1:30)
	Core Meltdown (2:00-6:00) TFDL Area, U of C campus

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Keynote Luncheon:

DR. SCOTT TINKER

Scott Tinker's passion is education. Toward this end, Scott is actively engaged in building bridges between academia, industry, government and the public. Scott weaves energy, the environment, and the economy into his work, in which he envisions a challenging, but positive, global future. In visiting some 50 countries and every U.S. State, Scott has given more than 600 keynote, distinguished, and invited lectures. His latest educational effort is the Switch Energy Project, anchored by the heavily awarded documentary film Switch, which has screened to over 3 million people worldwide...

DAY 1 • MONDAY • MAY 4, 2015

9:30 - 10:15 AM

Exhibit Hall, North Building, Calgary Telus Convention Centre

Power Up Breakfast with the Exhibitors

Enjoy a complimentary continental breakfast on the show floor while networking and visiting with exhibitors.

11:30 AM - 1:00 PM

Imperial Ballroom, Hyatt Regency Hotel

Keynote Luncheon: Dr. Scott Tinker

Sponsored by:



4:00 - 6:00 PM

Exhibit Hall, North Building, Calgary TELUS Convention Centre

Monday Night Icebreaker

Join colleagues, friends and potential clients for some food, drinks, music and good conversation! This event is included with full member, full non-member, student, retired and presenter registration.

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DAY 2 • TUESDAY • MAY 5, 2015

9:30 - 10:15 AM

Exhibit Hall, North Building, Calgary TELUS Convention Centre

Power Up Breakfast with the Exhibitors

Enjoy a complimentary continental breakfast on the show floor while networking and visiting with exhibitors on the show floor.

11:30 AM - 1:00 PM

Imperial Ballroom, Hyatt Regency Hotel

Keynote Luncheon: Alex Epstein

4:00 - 6:00 PM

Exhibit Hall, North Building, Calgary TELUS Convention Centre

Tuesday Night Networking Event

Enjoy a fun atmosphere with your friends, colleagues and future business partners. You also have the opportunity to meet and interact with all the companies on the exhibit floor!

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Keynote Luncheon:
ALEX EPSTEIN

Alex Epstein, energy expert and founder of the Center for Industrial Progress, is one of the world's most innovative champions of fossil fuels. In an energy debate where fossil fuels are often condemned as the dirty energy of the past, Epstein argues that they are the life-giving energy of the future — and says that we should celebrate, not demonize, the industry that creates them.

GeoConvention 2015
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**Download the App to
your mobile device!**

Android and iOS users, download the GeoConvention app from iTunes or Google Play. BlackBerry and Windows users, visit:

<https://crowd.cc/geocon2015/>

MOBILE APP

The new and improved Mobile App is your complete guide to GeoConvention. It is a great tool for planning and more with features including venue and exhibit maps, exhibitor and sponsor listings, and program with speaker bios and abstracts. You can bookmark sessions, activities, and exhibitors you want to see, plan out your personalized itinerary, take notes and email documents, interact with other attendees and social media outlets, and more! Free wifi and charging stations are available throughout the Convention Centre to help you stay connected.



DAY 3 • WEDNESDAY • MAY 6, 2015

Keynote Luncheon:
JAY INGRAM

Science broadcaster and writer

Jay Ingram was co-host of Discovery Channel's science show, Daily Planet for 16 years. It is television's only daily hour-long prime-time science and nature news magazine. Jay joined Discovery in 1994 and was instrumental in helping shape the program format.

9:30 - 10:15 AM

Exhibit Hall, North Building, Calgary TELUS Convention Centre

Power Up Breakfast with the Exhibitors

Enjoy a complimentary continental breakfast on the show floor while networking and visiting with exhibitors on the show floor.

11:30 AM - 1:00 PM

Imperial Ballroom, Hyatt Regency Hotel

Industry-Student Luncheon - Jay Ingram

Today's students are tomorrow's industry leaders. This is your opportunity to mingle with future colleagues and enjoy a presentation by Jay Ingram on "Thinking".

3:30 - 4:30 PM

Macleod E3, South Building, Calgary TELUS Convention Centre

Alumni Reception

This event is intended to bring together University alumni who are (but not exclusive to) CSEG, CSPG, and CWLS members along with representatives of the Geoscience Departments from their respective Canadian Universities. Don't miss this opportunity to get re-acquainted with your former Professors and acquainted with their PhD and MSc students to share your mutual interest in research topics relating to their fields of study.

This is open to participating Universities only. Check the app, website or social media to see if your school is participating.

4:45 - 7:00 PM

Macleod D, South Building, Calgary TELUS Convention Centre

Challenge Bowl

The challenge bowl is an action-packed geoscience quiz game for geological and geophysical student members. Teams from across Canada compete for the grand prize – an expenses paid trip to the SEG convention to compete against the best from SEG chapters around the world. Come cheer on your favorite team!

Sponsored by:



7:00 PM

Below Deck Tavern

Student Mixer

Come join your fellow students and industry professionals in this casual networking event - prizes and games are on tap! Sign up at the CSPG/CSEG Student Booth on the exhibition level!

Sponsored by:



DAY 4 • THURSDAY • MAY 7, 2015

11:30 AM - 1:30 PM

AER Core Research Facility

Core Conference BBQ Lunch

Attendees at the Core Conference will be treated to a BBQ lunch. This is a popular event and a great chance to network.

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LABORATORIES

DAY 5 • **FRIDAY** • MAY 8, 2015

11:30 AM - 1:30 PM

AER Core Research Facility

Core Conference BBQ Lunch

Attendees at the Core Conference will be treated to a BBQ lunch. This is a popular event and a great chance to network.

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2:00 - 6:00 PM

MacEwan Student Centre lawn, University of Calgary

AGAT Core Meltdown

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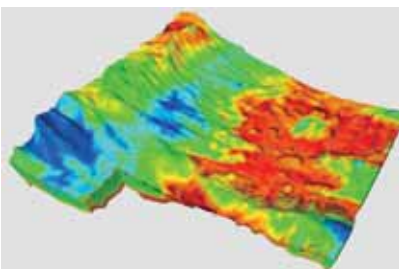
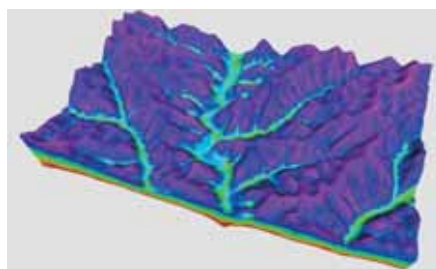
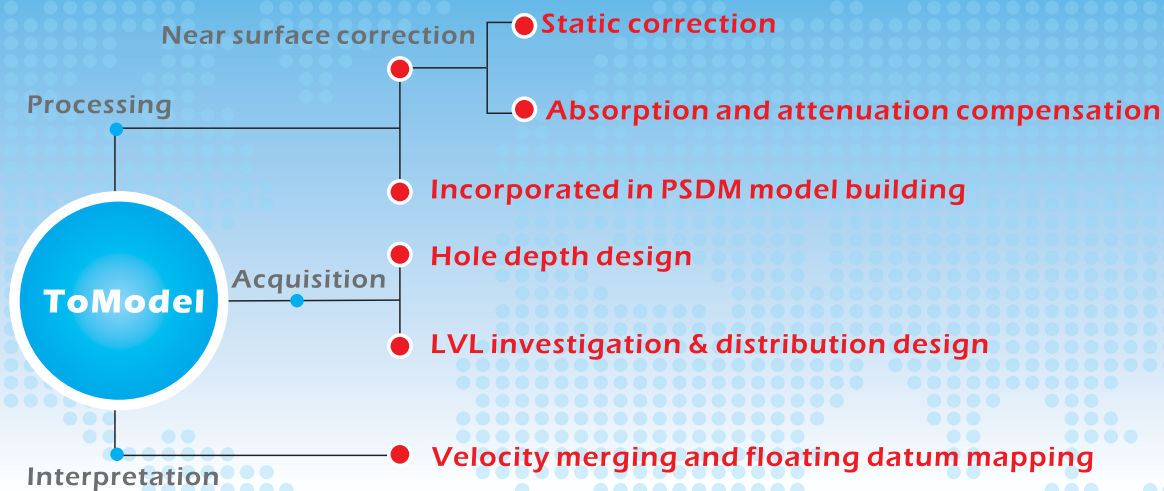


Celebrate the end of another successful convention at the annual Core Meltdown.

Join colleagues, exhibitors, friends and fellow delegates for some food, drinks and fun!



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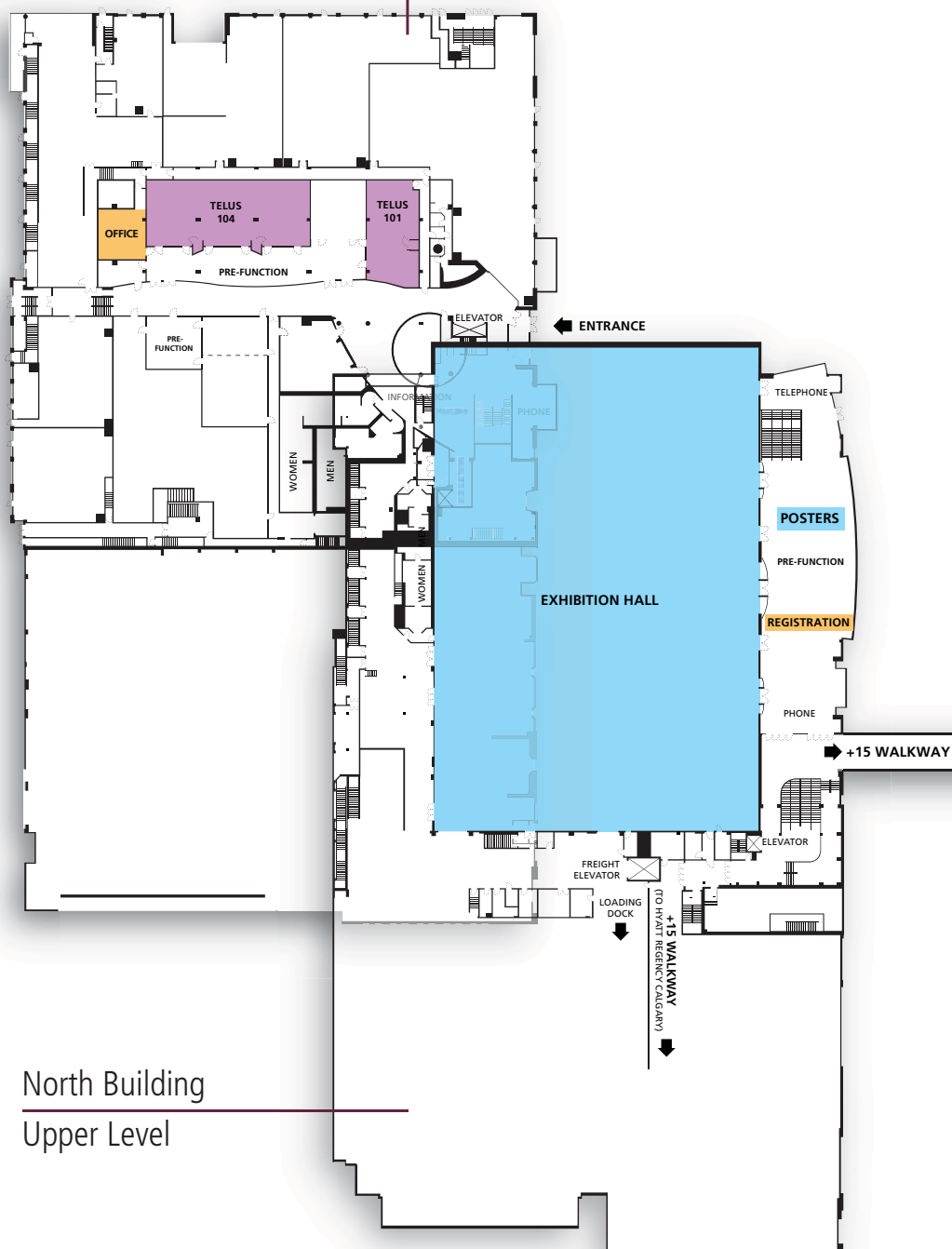
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Telus 101-102	Telus 104-106	Glen 201-204	Glen 206	Glen 208-209	Macleod A1-4	Macleod AB	Macleod D
Monday AM -- 8:05 - 11:30							
Seismic Imaging	Geoscience in Reserve Evaluations	Microseismic I	Geological Fundamentals I	Frontiers	Hydrogeology 101: Regulatory and Mapping	Enhanced Oil Recovery /Heavy Oil Recovery	Hydraulic Fracturing Geomechanics
MONDAY PM • 1:15 - 4:15							
Physical Properties of Rock	Geochemistry: New Methods and Observations	Microseismic II	Geological Fundamentals II	Frontiers: East Coast Canada	Hydrogeology 102	SPE Convention Program: Caprock Integrity Panel, SAGD Recovery and Understanding Conventional	Linking Modern Physical Geography and Subsurface Geology: The Influence and Legacy of Dr. Derald G. Smith
TUESDAY AM • 8:05 - 11:30							
Seismic Modeling and Waveform Inversion	Geochemistry: Unconventionals	International I	Geological Fundamentals III	Northern Frontiers	Geology of the Duvernay	The Business of Geoscience	Heavy Oil and Oil Sands: Water Resources and Hydrogeology
TUESDAY PM • 1:15 - 4:15							
Seismic Noise Suppression	Reservoir Geophysics	International II	Shale and Silt Plays of Western Canada	Horn River	Geomechanics of Unconventional Reservoirs	Citi: Navigating the Montney in a Challenging Environment	Heavy Oil and Oil Sands: New Observations
WEDNESDAY AM • 8:05 - 11:30							
Borehole Geophysics	Seismic Data Processing: Interpolation and Internal Multiple Suppression	Mature Fields	New Ideas in Western Canadian Resource Plays	Seismic Signal Analysis I	Applied Surficial and Quaternary Geology I	Montney I	Heavy Oil and Oil Sands: Reservoir and Fluid Characterization
WEDNESDAY PM • 1:15 - 4:15							
Seismic Acquisition	Geological Fundamentals IV	Geomodels	Value of Integrating Multicomponent Seismic Technologies: Processing, Interpretation, and Case Studies	Seismic Signal Analysis II	Applied Surficial and Quaternary Geology II	Montney II	Rock Physics

BUSINESS AND ECONOMICS		
The Business of Geoscience	Tuesday Morning	Macleod AB
Citi: Navigating the Montney in a Challenging Environment	Tuesday Afternoon	Macleod AB
FRONTIERS		
Frontiers	Monday Morning	Glen 208-209
Frontiers: East Coast Canada	Monday Afternoon	Glen 208-209
Northern Frontiers	Tuesday Morning	Glen 208-209
GEOCHEMISTRY		
Geochemistry: New Methods and Observations	Monday Afternoon	Telus 104-106
Geochemistry: Unconventionals	Tuesday Morning	Telus 104-106
GEOLOGY		
Geological Fundamentals I	Monday Morning	Glen 206
Geological Fundamentals II	Monday Afternoon	Glen 206
Geological Fundamentals III	Tuesday Morning	Glen 206
Geological Fundamentals IV	Wednesday Afternoon	Telus 104-106
Mature Fields	Wednesday Morning	Glen 201-204
Linking Modern Physical Geography and Subsurface Geology: The Influence and Legacy of Dr. Derald G. Smith	Monday Afternoon	Macleod D
GEOMECHANICS		
Hydraulic Fracturing Geomechanics	Monday Morning	Macleod D
GEOPHYSICS		
Borehole Geophysics	Wednesday Morning	Telus 101-102
Microseismic I	Monday Morning	Glen 201-204
Microseismic II	Monday Afternoon	Glen 201-204
Reservoir Geophysics	Tuesday Afternoon	Telus 104-106
Rock Physics	Wednesday Afternoon	Macleod D
Seismic Acquisition	Wednesday Afternoon	Telus 101-102
Seismic Data Processing: Interpolation and Internal Multiple Suppression	Wednesday Morning	Telus 104-106
Seismic Imaging	Monday Morning	Telus 101-102
Seismic Modeling and Waveform Inversion	Tuesday Morning	Telus 101-102
Seismic Noise Suppression	Tuesday Afternoon	Telus 101-102
Seismic Signal Analysis I	Wednesday Morning	Glen 208-209
Seismic Signal Analysis II	Wednesday Afternoon	Glen 208-209
Value of Integrating Multicomponent Seismic Technologies: Processing, Interpretation, and Case Studies	Wednesday Afternoon	Glen 206
GEOSCIENCE IN RESERVE EVALUATIONS		
Geoscience in Reserve Evaluations	Monday Morning	Telus 104-106
HEAVY OIL AND OIL SANDS		
Enhanced Oil Recovery /Heavy Oil Recovery	Monday Morning	Macleod AB
Heavy Oil and Oil Sands: New Observations	Tuesday Afternoon	Macleod D
Heavy Oil and Oil Sands: Reservoir and Fluid Characterization	Wednesday Morning	Macleod D
Heavy Oil and Oil Sands: Water Resources and Hydrogeology	Tuesday Morning	Macleod D
HYDROGEOLOGY AND THE QUATERNARY		
Applied Surficial and Quaternary Geology I	Wednesday Morning	Macleod A1-4
Applied Surficial and Quaternary Geology II	Wednesday Afternoon	Macleod A1-4
Hydrogeology 101: Regulatory and Mapping	Monday Morning	Macleod A1-4
Hydrogeology 102	Monday Afternoon	Macleod A1-4
INTERNATIONAL		
International I	Tuesday Morning	Glen 201-204
International II	Tuesday Afternoon	Glen 201-204
MODELLING		
Geomodels	Wednesday Afternoon	Glen 201-204
Physical Properties of Rock	Monday Afternoon	Telus 101-102
UNCONVENTIONAL RESOURCES		
Geology of the Duvernay	Tuesday Morning	Macleod A1-4
Geomechanics of Unconventional Reservoirs	Tuesday Afternoon	Macleod A1-4
Horn River	Tuesday Afternoon	Glen 208-209
Montney II	Wednesday Afternoon	Macleod AB
Montney I	Wednesday Morning	Macleod AB
New Ideas in Western Canadian Resource Plays	Wednesday Morning	Glen 206
Shale and Silt Plays of Western Canada	Tuesday Afternoon	Glen 206



North Building Main Level



North Building Upper Level



MONDAY MORNING

Seismic Imaging

ROOM:	Telus Room 101-102
CHAIR(S):	Kendall Rogers and Babatunde Arenrin
8:05 - 8:15	Introduction
8:15 - 8:40	Least Squares Kirchhoff Depth Migration: potentials, challenges and its relation to interpolation Daniel Trad
8:40 - 9:05	A new upward and downward wavefield continuation for two-way wave equation migration Jianhua Pan
9:05 - 9:30	Lowrank RTM for converted wave imaging Lorenzo Casasanta*, Zhiguang Xue and Sam Gray
9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Block row recursive least squares migration Nasser Kazemi and Mauricio Sacchi
10:40 - 11:05	Least-squares extended imaging with surface-related multiples R. Kumar, N. Tu1, T. van Leeuwen and F.J. Herrmann
11:05 - 11:30	Hiding in Plain Sight - Improving seismic resolution through diffraction imaging technique I. Carter Edie*, Todd D. Keedwell, and Dan Negut

Geoscience in Reserve Evaluations

ROOM:	Telus Room 104-106
CHAIR(S):	Hugh Geiger and Kyla Poelzer
8:05 - 8:15	Introduction
8:15 - 9:05	Production and reserves reporting - Tom Sneddon
9:05 - 9:30	Applied Geoscience for Reserves Evaluation Alexey G. Romanov, Barrie F. Jose, Scott W. Pennell
9:30 - 10:15	BREAK & POSTER SESSIONS
10:15 - 10:40	Petrophysical study of Gas Shale of the Permian Roseneath and Murteree Formations of the Cooper Basin, Australia Quaid Khan Jadoon*, Eric Roberts, Tom Blenkinsop, Raphael Wust, Syed Anjum Shah
10:40 - 11:05	Sedimentology, Ichnology, Petrology and Development of 3D Conceptual Numerical Model of Bulk-Flow Properties for the McMurray Formation in the Mackay River Area, Northeastern Alberta Oluwapelumi S. Akinbodewa*, Murray K. Gingras, Jenna M. Phillips
11:05 - 11:30	Density Estimates from Pre-Stack Seismic Inversion Fred M Peterson, Consultant, Brian H. Russell and Daniel P. Hampson

Microseismic I

ROOM:	Glen Room 201-204
CHAIR(S):	Shawn Maxwell and Paige Mamer
8:05 - 8:15	Introduction
8:15 - 8:40	Increased Completions Efficiency using Advanced Microseismic Interpretation Paige Mamer and Sudhendu Kashikar
8:40 - 9:05	Detection and location of small microseismic events using a Matched Filtering Algorithm (MFA) Enrico Caffagni and David W. Eaton
9:05 - 9:30	2D finite-difference microseismic simulations: Effects of path and source Hoda Rashedi and David W. Eaton
9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Numerical studies of the spatial and temporal distributions of seismic events under different confining conditions Qi Zhao, Nicola Tisato, Andrea Lisjak, Omid K. Mahabadi, and Giovanni Grasselli
10:40 - 11:05	Microseismic facies analysis: A novel approach to partitioning and interpreting unconventional reservoirs Aamir Rafiq, David W. Eaton and Jubran Akram
11:05 - 11:30	Are Source Characteristics of Fluid Driven Hydraulic Fracture Induced Earthquakes Distinct from Natural Tectonic Earthquakes? Gisela Viegas, Ted Urbancic and Adam Baig

Geological Fundamentals I

ROOM:	Glen Room 206
CHAIR(S):	Brett Norris and Daniel Alessi
8:05 - 8:15	Introduction
8:15 - 8:40	Rock boundaries selection from more than one geophysical log using principal component and derivative analyses Omid Mahmoodi and Richard Smith
8:40 - 9:05	Modern chronostratigraphic data demonstrate that currently popular sequence models for fluvial systems don't work Andrew D. Miall
9:05 - 9:30	Micro-FTIR Hyperspectral Imagery: A New Method for Identifying Aragonite, Calcite, and Dolomite in Carbonate Rocks and Assessing their Formational History on the Micron Scale Michelle C. Tappert, Hilary Corlett, Ralf Tappert, Benoit Rivard, Jilu Feng, Derek Rogge and Roland Stalder

9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Facies analysis of thin-bedded reservoirs in mixed-influenced deltaic systems and implications for halo plays Janok P. Bhattacharya
10:40 - 11:05	Resolving stratigraphic variations in natural fracturing using core data Laura E Kennedy* and Jack D Beuthin
11:05 - 11:30	Mapping Formation-Top Offsets in Southwest Alberta, Canada: Methodology and Results S. Mei, D. Pana and R. Schultz

Frontiers

ROOM:	Glen 208-209
CHAIR(S):	Sam Williams
8:05 - 8:15	Introduction
8:15 - 8:40	Petroleum Geology for the Cambro-Ordovician Anticosti Sedimentary Basin, West Coast of Newfoundland Craig Boland
8:40 - 9:05	Identification and Characterization of Petroleum Systems in the Labrador Sea Using Seafloor Sampling and Seep Studies Stéphane Polteau, Steve Whidden, Tom Neugebauer, Asif Ali, Reidun Myklebust and Sverre Planke

9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Petroleum Potential of the Souris Valley Beds of the Lodgepole Formation in Southern Saskatchewan Sienna R. Johnson and Stephen L. Bend
10:40 - 11:05	Hydrocarbon-rich shales of the Middle Triassic in Canada: a comparative study of the Arctic's Murray Harbour Formation versus the Doig Danielle M. Kondla, Hamed Sanei, Amin Ghanizadeh, Samuel Aquino, Omid Haeri-Ardakani and Christopher R. Clarkson

Hydrogeology 101: Regulatory and Mapping

ROOM:	Macleod Hall A1-4
CHAIR(S):	Jamie Wills and Pei-Ling Wang
8:05 - 8:15	Introduction
8:15 - 8:40	Hydrogeology 101 for the Petroleum Geologist J. Wills
8:40 - 9:05	Play-Based Regulatory Trends for the Alberta Petroleum Geoscientist Dr. Kevin P. Parks
9:05 - 9:30	Hydrogeological Characterization of Basal Paskapoo Sandstones in the Subsurface of West-Central Alberta Brad J. Hayes

9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Net-to-gross sandstone characterization of shallow bedrock units for regional hydrogeological mapping in central and southern Alberta Lisa A. Atkinson & Shilong Mei
10:40 - 11:05	Working Together to find Water: Hydrogeology and Geology Jocelyn Keith-Asante
11:05 - 11:30	Developing a Local-Scale, Integrated Surface Water and Groundwater Management Plan for Water Sourcing for Unconventional Projects Soren J Poschmann and Sean M Sullivan

Enhanced Oil Recovery / Heavy Oil Recovery

ROOM:	Macleod Hall A/B
CHAIR(S):	Robert Gardner and Rudy Strobl
SPONSOR:	



8:05 - 8:15	Introduction
8:15 - 8:40	A Practical Approach to Caprock Analysis Mike Carlson, Dickson Lee, Peter Cooper and Adam MacDonald
8:40 - 9:05	Time-lapse AVO/AVA Analysis in a CHOPS Heavy Oil Field Naimeh Riazi and Larry Lines
9:05 - 9:30	A CHOPS case study of a discovery of highly viscous heavy oil on the Poundmaker Cree Nation in Saskatchewan, Canada David H. Drover

9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Gravity monitoring of 4D fluid migration in SAGD reservoirs incorporating sedimentology E Judith Elliott and Alexander Braun
10:40 - 11:05	Interaction of Electromagnetics with Geology for Thermal Treatment of Heavy Petroleum Prof. Don Lawton, Amin Saeedfar and Kirk G. Osadetz
11:05 - 11:30	Intraformational Lean Zones in Oilsand Reservoirs Patrick M. Collins

Hydraulic Fracturing Geomechanics

ROOM:	Macleod Hall D
CHAIR(S):	Natayla Ionkina and Manuel Aboud
8:05 - 8:15	Introduction
8:15 - 8:40	Numerical investigation of the influences of rock fabrics on hydraulic fracturing operations Qi Zhao, Andrea Lisjak, Omid K. Mahabadi, and Giovanni Grasselli
8:40 - 9:05	The Influence of Mesh Size on Fracture Network Growth John W. Crowley, Adam M. Baig, and Ted Urbancic
9:05 - 9:30	Review of hybrid continuum/discontinuum methods for geomechanical modelling of hydraulic fracture growth Murad AbuAisha, David W. Eaton, Jeffrey Priest and Ron Wong
9:30 - 10:15	COFFEE BREAK & POSTER SESSIONS
10:15 - 10:40	Multidisciplinary approach to identify open fracture systems and assess their impact on hydraulic fracturing and microseismic Jean-Yves Chatellier, Tammy Chow and Jennie Wong
10:40 - 11:05	Microseismic Incorporated into a 3D Coupled Fluid and Geomechanics Hydraulic Fracture Numerical Model Neda Boroumand* and David W. Eaton
11:05 - 11:30	Lithological Controls on Mechanical Anisotropy in Shales to Predict In Situ Stress Magnitudes and Potential for Shearing of Laminations During Fracturing Ken Glover

MONDAY AFTERNOON

Physical Properties of Rock

ROOM:	Telus Room 101-102
CHAIR(S):	Aleksey Romanov and Jay Williams
1:15 - 1:25	Introduction
1:25 - 1:50	Pore-Scale Simulations of Haines Jumps during Two-Phase Flow in Porous Media Carla Santiago, Shahin Ghomeshi, Sergey Kryuchkov, Jonathan Bryan, Apostolos Kantzas
1:50 - 2:15	Fully 3D simulation of fluid-pressure-driven fracturing using a novel continuum-discontinuum approach: Preliminary results Andrea Lisjak, Patrick Kaifosh, Omid Mahabadi, Bryan Tatone, Giovanni Grasselli
2:15 - 2:40	Study of the Single Phase and Two Phase Flow Properties of the Mesaverde Formation; A Network Model Study Farzad Bashtani, Faisal Alreshedan, Sergey Kryuchkov, Jonathan Bryan, and Apostolos Kantzas

2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Where does free convection (buoyancy and density driven) flow occur? K. Udo Weyer and James C. Ellis
3:25 - 3:50	Determining In Situ Properties of Claystone Aquitards Using Pore Pressure Responses from Grouted-in Pressure Transducers Laura A. Smith, S. Lee Barbour, M. Jim Hendry
3:50 - 4:15	Predicting Physical Properties of Porous Media at Sub-Pore scales from Natural to Complex Heterogeneous Systems: Application in tight reservoirs Shahin Ghomeshi, Farzad Bashtani, Saeed Taheri, Evgeny Skripkin, Sergey Kryuchkov, Jonathan Bryan, and Apostolos Kantzas

Geochemistry: New Methods and Observations

ROOM:	Telus Room 104-106
CHAIR(S):	Barry Bennett and Duncan Findlay
1:15 - 1:25	Introduction
1:25 - 1:50	Groundwater Dynamics and Microbiological Reduction as Possible Factors in the Precipitation of the Pine Point MVT Pb-Zn Deposits K. Udo Weyer and David H. Adams
1:50 - 2:15	Element/Aluminum Ratios in Chemostratigraphy: A Dubious Normalization Resulting in Spurious Correlations Dr. Grant W. Lowey
2:15 - 2:40	Upper Ordovician hydrocarbon source rock types in North- America – Paleogeographic and paleotectonic control on Type I / II and II-S distribution Denis Lavoie, Shunxin Zhang and Derek Armstrong

2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Predicting the mobilization of dissolved metals, organics and gas generation from aquifer sediments prior to in situ operations Michael C. Moncur, S. Jean Birks, John J. Gibson, Yi Yi and Dogan Paktunc
3:25 - 3:50	The Origin of Petroleum: The Mystery Remains Uliana G. Romanova and Gennady V. Romanov
3:50 - 4:15	Influence of Hydrothermal Dolomitizing Fluids on Basinal Sediments: Devonian of Western Canada Ron Spencer and Tom Weedmark


Microseismic II

ROOM:	Glen Room 201-204
CHAIR(S):	Adam Baig and Sean Lovric
1:15 - 1:25	Introduction
1:25 - 1:50	Comparison of STA/LTA and Power Spectral Density (PSD) methods for Microseismic Event Detection Yoones Vaezi* & Mirko van der Baan
1:50 - 2:15	Waveform similarity for quality control of event locations, time picking and moment tensor solutions Fernando Castellanos and Mirko van der Baan
2:15 - 2:40	Three Dimensional Attenuation Tomography from microseismicity Frank J. Calixto and Mirko van der Baan
2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Introduction to Moment Tensor Inversion of Microseismic Events Thomas S Eyre*, Mirko Van Der Baan
3:25 - 3:50	Understanding Low Frequency Seismicity in a Hydraulic Fracturing Context Megan Zecevic*, Guillaume Daniel, Fabien Hubans, Pierre Gouédard
3:50 - 4:15	4D Tomography and Deformation from Microseismic Data John W. Crowley, Adam M. Baig, and Ted Urbancic

Geological Fundamentals II

ROOM:	Glen Room 206
CHAIR(S):	Heather Wright and Hong Yang
1:15 - 1:25	Introduction
1:25 - 1:50	Devonian Petroleum Systems and Exploration Potential, Southern Alberta, A Review in Three Parts Andy Mort, Leonard Stevens, Richard Wierzbicki
1:50 - 2:15	The Nature of the Kananaskis Thrust at Quaite Valley, Exshaw, Alberta Kristina Kublik and Robert Taerum
2:15 - 2:40	Time-lapse analysis of shallow gas migration after an internal blowout Hung N. Dinh, Mirko Van der Baan, Martin Landro
2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	"Geology screwed up again! or A template for Mine Site Technical Support" Ted W. Hannah
3:25 - 3:50	Devonian Petroleum Systems and Exploration Potential, Southern Alberta Andy Mort, Leonard Stevens, Richard Wierzbicki

Frontiers: East Coast Canada

ROOM:	Glen Room 208-209
CHAIR(S):	Simon Haynes and Deric Cameron
SPONSOR:	
1:15 - 1:25	Introduction
1:25 - 1:50	Frontier Regions and Opportunities - Multi-Client Seismic Data and Basin Entry Decisions Katja Akentieva
1:50 - 2:15	Renewed Exploration and New Insights into the Slope and Deep Water Regions of the Flemish Cap and Labrador Sea, Offshore Newfoundland and Labrador, Canada Deric E. Cameron, Xianghong Wu, J. Kim Welford, Alsing Selnes
2:15 - 2:40	EM survey in Flemish Pass Basin, East Canada Xianghong Wu, Anne Marit Østvedt Ghazi, Jon Rasmussen, Bill Spindler and Ian Atkinson, Deric E. Cameron
2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Evidence for hyper-extended continental crust in the East Orphan Basin from seismic reflection data and potential field forward modelling and inversion J. Kim Welford, Deric Cameron, James Carter and Richard Wright
3:25 - 3:50	Deltaic and Fully Marine Settings Interpreted From Conventional Core, Offshore Labrador, Canada Lynn T. Dafoe, Graham L. Williams, and Kate Dickie
3:50 - 4:15	A Late Jurassic, Tithonian to Early Eocene, Ypresian, stratigraphic framework for the Mizzen F-09, L-11, and O-16 exploration wells, Flemish Pass Basin, Offshore Newfoundland Nigel R. Ainsworth, Leslie A. Riley, Simon Haynes, Michael McDonough, & Edward Stacey

Hydrogeology 102

ROOM:	Macleod Hall A1-4
CHAIR(S):	Jamie Wills and Pei-Ling Wang
1:15 - 1:25	Introduction
1:25 - 1:50	Smart monitoring to address the risks of Unconventional Oil and Gas development Jon Fennell
1:50 - 2:15	Retrospective Case Study of Perceived Water Well Interference by CBM Fracking M. Cathryn Ryan, Tiago A. Morais and Per Pedersen
2:15 - 2:40	Risk-based Investigation for Thermal Mobilization of Heavy Metals in Groundwater Rudy Maji, Matt Neuner, Solaleh Khezri and Don Haley
2:40 - 3:00	COFFEE BREAK

- 3:00 - 3:25** **Methodology to assess groundwater quality during CO2 injection at the Quest CCS project**
Luc Rock, James Brydie, Don Jones, Jon Paul Jones, Ernie Perkins, Emily Taylor
- 3:25 - 3:50** **Preliminary Helicopter EM Survey Results over the Brandon Channel and Assiniboine Delta Aquifers, Brandon, Manitoba**
Jean M. Legault, David Toop, Geoffrey Plastow, Nasreddine Bournas, Zihao Han and Marta Orta
- 3:50 - 4:15** **Hydrogeology Panel Discussion**

SPE Panel Session

ROOM: Macleod Hall A/B

CHAIR(S): SPE

SPONSOR:



- 1:15 - 2:40** **PART 1: SPE Panel Session – Caprock Integrity**
Panelists: Corey Froese, Robert Bachman, Rick Chalaturnyk, Mike Carlson
Moderators: Robert Hawkes, Claudio Virues
- 2:40 - 3:00** **COFFEE BREAK**
- 3:00 - 4:00** **PART 2: SPE Session - Thermal SAGD Recovery: Non-linearity And Stress-dependency In Unconsolidated Formations And The Associated Impacts On Thermal Recovery**
Amir H. Hosseini
Drained/Undrained Zones Boundary in Steam-Assisted Gravity Drainage Process
Mazda Irani, Ian Gates
- 4:00 - 5:00** **PART 3: SPE Session - Understanding the Deliverability Behavior of Unconventional Reservoirs: Controls of Anisotropic In-situ stress and Permeability on Optimization of Well and Hydraulic Fracture Spacing for Unconventional Reservoirs: Examples from the Western Canadian Sedimentary Basin**
Ken Glover, Albert Cui
History-Matching and Forecasting Tight Oil and Gas Condensate Wells Using Analytical, Semi-Analytical and Empirical Methods
Jesse Williams-Kovacs, Christopher Clarkson
Ken Glover, Jesse Williams-Kovacs

Linking Modern Physical Geography and Subsurface Geology The Influence and Legacy of Dr. Derald G. Smith

ROOM: Macleod Hall D

CHAIR(S): Jason Lavigne and Paul Durkin

1:15 - 1:25 **Introduction**

1:25 - 1:50 **The evolution of image log interpretation; Muwais and Smith, 1990: Back to the future part IV**
Howard Brekke

1:50 - 2:15 **Investigating sedimentary environments: The ground penetrating radar revolution – past, present and future**
Harry M Jol

2:15 - 2:40 **Derald Smith and Inclined Heterolithic Stratification (IHS): Examples of his influence on the present and future of thermal oil recovery in Canada**
Peter Putnam

2:40 – 3:00 **COFFEE BREAK**

3:00 - 3:25 **Accreting complexity onto the simple point bar: The legacy of Derald Smith**
John Holbrook, Matthew Palmer and Alex Torres

3:25 - 3:50 **Paleochannel migration history and characterization of resulting point bars, counter point bar, and abandoned channels from an Upper Cretaceous fluvial meander belt, Dinosaur Park Badlands, Alberta**
Paul R. Durkin, Stephen M. Hubbard, Zennon Weleschuk, Derald G. Smith, John Holbrook, Matthew Palmer, Alexander Torres and Dale A. Leckie

3:50 - 4:15 **Post Mesozoic events and processes on the western interior, or, “Why is Alberta so flat?”**
Robert R. Young

MONDAY MORNING POSTERS

- 9:30 am** 26
Source of the Chinkeh oil from Maxhamish field, Liard Basin, northeastern British Columbia
 Chunqing Jiang, Andy Mort, Margaret McMechan and Zhuoheng Chen
- 9:30 am** 19
High resolution marine seismic surveying in the Sudbury structure
 Andrew M. Zajch, Bernd Milkereit, Nicholas Eyles
- 9:30 am** 13
Neural Network Application of Curvature Attribute for Fracture Analysis
 Valentina Baranova, Azer Mustaqeem and Kristoffer Rimaila
- 9:30 am** 9
Integration of Rock Mechanical Reservoir Model and Microseismic Date to Establish Accurate Stimulated Reservoir Volume
 Sheng Yang, Zhangxin Chen and Wei Wu
- 9:30 am** 1
Mud Sedimentation in a Distal Offshore Setting: Upper Cretaceous (Santonian) Puskwaskau Formation, North-Central Alberta
 Omar N. Al-Mufti, A. Guy Plint, and Burns A. Cheadle
- 9:35 am** 25
Unravelling Heavy Oil Systems: A Novel Approach
 Sarah J. Porter and Gemma Hildred
- 9:35 am** 20
The optimum color operator for recovering low frequencies
 Sina Esmaeili* and Gary F. Margrave
- 9:35 am** 14
Recent Updates to the Alberta Table of Formations
 Alberta Geological Survey
- 9:35 am** 8
The recognition and implications of a single composite submarine canyon fill interpretation for Late Cretaceous Nanaimo Group strata on Hornby and Denman Islands, B.C.
 Heather A. Bain and Stephen M. Hubbard
- 9:35 am** 2
Comparative Fracture Characterization of the Upper Cretaceous Second White Specks Formation, Southwestern Alberta
 Bram A. Komaromi* and Dr. Per K. Pedersen
- 9:40 am** 30
Maximizing Production by Optimizing the Placement of Hydraulic Fracture Stages Using Weighted Petrophysical and Geomechanical Attributes
 Chris R. Walsh, Geoff M. McBryan, Daryl B. Curtis, Graham A. Cameron
- 9:40 am** 21
Lithology and Mineralogy Estimation from Matrix Density Utilizing Wireline Logs in Glauconitic Sandstone, Blackfoot Area, Alberta
 Omar Mazen Derder
- 9:40 am** 15
Similarities in characteristics of regional earthquakes and inferred long-period long-duration (LPLD) events
 Enrico Caffagni, David W. Eaton, Mirko van der Baan and Joshua P. Jones
- 9:40 am** 7
Geometric and Kinematic Reconstruction of the Chaleurs Bay Synclinorium (Gaspé Belt) through the Integration of Geological and Geophysical Data
 Diego Tovar, Michel Malo, Mathieu J. Duchesne and Nicolas Pinet
- 9:40 am** 3
Element/Aluminum Ratios in Chemostratigraphy: A Dubious Normalization Resulting in Spurious Correlations
 Dr. Grant W. Lowey
- 9:45 am** 31
Effect of data sampling on the location accuracy of high frequency microseismic events
 Natalia Verkhovtseva
- 9:45 am** 22
Comparison of porosity information derived from impedance outputs from pre-stack and post-stack inversion of 3D seismic data
 John R. Fernando
- 9:45 am** 16
Provenance of early Mississippian Bakken Clastics Based on Detrital Zircon and Detrital Conodonts
 Tarig Ib. Mohamed and Charles Henderson
- 9:45 am** 4
Seeing through the oil: Hyperspectral imaging for the enhanced visibility of sedimentary and biogenic features in Athabasca oil sands core
 Michelle Speta, Benoit Rivard, Murray Gingras
- 9:50 am** 5
Logarithmic Phase-only waveform inversion on two different shallow marine geologic settings
 Rajesh Vayavur*, and Andrew. J. Calvert
- 9:50 am** 32
Seismic Hazard and Hydraulic Fracture-Induced Seismicity
 Gisela Viegas, Adam Baig, and Ted Urbancic
- 9:50 am** 23
Recording seismic on geophones within ground screws
 Peter M. Manning, Eric Gallant, Kevin Hall

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9:50 am 17
Seismic parameter design for reservoir monitoring and improved PS fold distribution; Brooks, Alberta

Davood Nowroozi, Donald C. Lawton and Andreas Cordsen

9:55 am 33
Resolving time dependant stress variations through analysis of microseismicity ($M < 0$) recorded during hydraulic fracture stimulations

Adam M. Baig, Ted Urbancic, Eric von Lunen

9:55 am 24
Destruction of the Mineral Matrix and the Oil Fluid Caused by Steam Stimulation of the Oil-Containing Carbonate Rock

Tatiana Nicolaevna Yusupova, Gennady Vasilevich Romanov, Yulia Muratovna Ganeeva, Rais Salihovich Khisamov; Cristoph Israilevich Yakubson, Danis Karlovich Nourgaliev

9:55 am 18
Priddis 2014 broadband surface and walkaway VSP seismic experiment

Kevin W. Hall, Kevin L. Bertram, Malcolm B. Bertram, Joe Wong, Peter M. Manning, Eric V. Gallant, Kristopher A.H. Innanen, Don C. Lawton and Gary F. Margrave

9:55 am 6
Geochemical Input to a Karst Mine Flooding Geohazard Assessment, Mineable Oil Sands Area, Alberta

Matthew Neuner, Francisco Castrillon Munoz, and John Wozniwicz and Sanil Sivarajan

10:00 am 34
Rupture Characteristics of Hydraulic Fracture Induced-Triggered Seismicity

Ted Urbancic and Adam Baig

10:00 am 29
Reservoir characterization of eolian deposits in Mesozoic rift settings: Examples from the Minas Subbasin, Nova Scotia

Kenneth T. Martyns-Yellowe, Darragh E. O'Connor, Grant D. Wach

10:00 am 12
Rock-Eval/TOC data for the Canol Formation from wells in Mackenzie Plain and Peel Plain, Northwest Territories

Jonathan Rocheleau, Leanne J. Pyle and Kathryn M. Fiess

10:05 am 28
Reducing the Risk of Compromised Frac Stages by Optimizing Zonal Isolation Packer Placement Using an 8 Arm High Resolution Microresistivity Imaging Tool

Daryl B. Curtis, Graham A. Cameron, Geoff M. McBryan, Chris R. Walsh

10:05 am 11
Reservoir Potential in the Middle Jurassic Shaunavon Members, West of the Main Oil Field Trend, Southwestern Saskatchewan

Peter D. Hill* and Arden Marsh

10:10 am 27
Preliminary diatom content of some Cretaceous formations in Saskatchewan

Velez, M., MacKenzie, K., Meickel, S., Olineck, B., Diaz, J., and Binda, P.

10:10 am 10
Numerical investigation of the influences of rock fabrics on hydraulic fracturing operations

Qi Zhao, Andrea Lisjak, Omid K. Mahabadi, and Giovanni Grasselli

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TUESDAY MORNING

Seismic Modeling and Waveform Inversion

ROOM:	Telus 101-102
CHAIR(S):	Raul Cova and Shahpoor Moradi
8:05 - 8:15	Introduction
8:15 - 8:40	Seismic wave scattering in viscoelastic media: Born approximation Shahpoor Moradi and Kristopher A. Innanen
8:40 - 9:05	Estimation of the Elastic Constants for HTI Media Using Full-Newton Multi-parameter Full Waveform Inversion Wenyong Pan*, Kris Innanen, Gary Margrave, Mike Fehler, Xinding Fang and Junxiao Li
9:05 - 9:30	Total variation tomographic inversion via the Alternating Direction Method of Multipliers Landon Safron and Mauricio D. Sacchi

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

10:15 - 10:40	Application of Kirchhoff approximation in iterative multiparameter elastic waveform inversion Hassan Khaniani*, John C. Bancroft and Eric von Lunen
10:40 - 11:05	Comparing step length calculation using well logs with a line-search method Babatunde Arenrin*, Gary Margrave and John Bancroft

Geochemistry: Unconventionals

ROOM:	Telus 104-106
CHAIR(S):	Gemma Hildred
8:05 - 8:15	Introduction
8:15 - 8:40	The Use of Elemental and Stable Isotope Chemostratigraphy for Regional Correlation of the Duvernay Formation, Western Canada James Griffiths, Gemma Hildred, Ceri Roach, Barry Lees, Sarah Porter, Nick Sullivan, Ken Ratcliffe
8:40 - 9:05	Mudrock Chemical Characterization Using Energy Dispersive XRF Technique, Paleocondition Reconstruction Applications Somayeh Hosseinienejad, Per Kent Pedersen, Ronald James Spencer
9:05 - 9:30	The Bakken Formation within the Northern Part of the Williston Basin: a Comprehensive and Integrated Reassessment of Organic Matter Content, Origin, Distribution and Hydrocarbon Potential Stephen L. Bend, Titi E. Aderoju, Bree Wrolson, Oluseyi Olajide

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

10:15 - 10:40	Elemental (XRF), Mineralogical (XRD), and Organic Geochemical (programmed pyrolysis) Analyses Used to Determine the Contribution of Reservoir Quality to Differential Wellbore Production of Single-Pad, Multi-Lateral Wells in the Eagle Ford, South Texas, USA. Christopher C. Matson and Bruce MacPherson
10:40 - 11:05	Applicability of ¹³C analysis for the Quest CCS project's MMV plan Luc Rock, Veith Becker, Chantsalmaa Dalkhaa, Pauline Humez, Michael Nightingale, Maurice Shevalier, Bernhard Mayer, Guoxiang Zhang
11:05 - 11:30	Multimineral modeling using new core scanning technology Wesley C. Ingram

International I

ROOM:	Glen 201-204
CHAIR(S):	Maggie Stratton and Nanna Eliuk
8:05 - 8:15	Introduction
8:15 - 8:40	High Resolution Bio-Sequence Stratigraphy and Carbonate Microfacies: A tool to explore the sedimentary history of a basin - applied on the Paleocene-Eocene Petroleum System of the Salt Range, Pakistan J. Afzal and H. Jurgan
8:40 - 9:05	Is Brazil's Prolific Pre-Salt Petroleum Geology a Template for Oil & Gas Exploration in West Africa? Tako Koning
9:05 - 9:30	When storms go bad: their impact on gutter cast distribution and dimensions, based on new data from the Miocene of eastern Borneo Jon Noad

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

10:15 - 10:40	From Andes to Zagros: variations in structural styles and seismic data from a processors' perspective Rob W Vestrum and Jon M Gittins
10:40 - 11:05	Petroleum Systems in the Volga – Ural Basin, Russia Alexey G. Romanov and Gennadiy V. Romanov
11:05 - 11:30	Evolution of the Hampshire Pull-Apart Basin, the Wytch Farm Oilfield within it, and the Dynamic Role of the Cretaceous Gault Clay in Southeastern England and the English Channel Peter B. Jones

Geological Fundamentals III

- ROOM:** Glen Room 206
CHAIR(S): Janice LeDrew and Murray Dublonko
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Current Issues in River Management: Examples from Calgary and Area**
 Éowyn Campbell
- 8:40 - 9:05** **Geomorphic Expression of Stratigraphic Units in the Great Plains**
 Meghan Holowath, Allison Kendall, Jerry Osborn
- 9:05 - 9:30** **The Canadian Well Identification System**
 Alan Huber and David Fisher
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Updating The Tectonic Stress Map Of Alberta: The Road Ahead**
 Gautier Njiekak, Qing Jia, Douglas R. Schmitt, Karsten Reiter, Olivier Heidbach, Inga Moeck
- 10:40 - 11:05** **Understanding the Mechanical Behavior of Drilling-induced Tensile Fractures through Photoelasticity Lab Tests Conducted on Glass Cubes**
 Qing Jia, Douglas R. Schmitt, Randy Kofman and Xiwei Chen
- 11:05 - 11:30** **Terrain Analysis for Optimal Pad Site Placement**
 David A McKittrick

Northern Frontiers

- ROOM:** Glen Room 208-209
CHAIR(S): Simon Haynes and Deric Cameron
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Late Paleozoic Thermochronology of Northern Yukon: Implications for Phanerozoic Basin Evolution in Northern Canada**
 Larry S. Lane, Dale R. Issler and Paul B. O'Sullivan
- 8:40 - 9:05** **Improving Alaskan Seismic Acquisition**
 Keith Millis and Malcolm Lansley
- 9:05 - 9:30** **Devonian and Cretaceous Hydrocarbon Source Rocks, Central Mackenzie Valley, Northwest Territories**
 Leanne J. Pyle, Kathryn M. Fiess and Jonathan Rocheleau
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Hydrocarbon Potential and Depositional Environment of the Lower Cretaceous Garbutt Formation, Liard Basin, Canada**
 Omid Haeri-Ardakani, Hamed Sanei, Margot McMechan, Nikola Van de Wetering, Julito Reyes and Filippo Ferri

Geology of the Duvernay

- ROOM:** Macleod Hall A1-4
CHAIR(S): Colleen Sherry and Neil Taylor
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Improved models for estimating TOC in shale resource play: An example from Duvernay Formation, Western Canada Sedimentary Basin**
 Pengwei Wang, Zhuoheng Chen, Xiongqi Panga, Kezhen Hu, Mingliang Sun
- 8:40 - 9:05** **Preliminary Fluid Flow Assessment and Diagenetic Impacts on Hydrocarbons within the Duvernay Formation, WCSB, Alberta**
 Nikola Van de Wetering, Bernhard Mayer, Hamed Sanei
- 9:05 - 9:30** **Duvernay Formation sequence stratigraphy: integrating sedimentology, geochemistry, and petrophysics**
 Levi J. Knapp, Julia M. McMillan, Nicholas B. Harris
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Unconventional Shale Play Stand-Off in Alberta: Duvernay Formation versus Nordegg Member: Stratigraphy, Rock Properties, Depositional Settings**
 Raphael A.J. Wust, Nicole Willment, Brent Nassichuk
- 10:40 - 11:05** **Determination of Duvernay Formation Reservoir Properties through Probabilistic Petrophysical Analysis calibrated to Core Studies**
 Nasir Rahim and Neil Watson
- 11:05 - 11:30** **Sequence Stratigraphic Model of the Duvernay Shale, Willesden Green Area: Understanding Influence on Well Performance**
 Muhammad Nadeem

The Business of GeoScience

- ROOM:** Macleod Hall A/B
CHAIR(S): Rob Panek and Byron Kelly
SPONSOR: 
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Oil and Gas Outlook: Opportunities and headwinds on the horizon**
 Jackie Forrest
- 8:40 - 9:05** **Evaluating and Managing Environmental Risk: A Hydrogeologist's Perspective**
 Brent, T, Lennox. Eric, G, Pringle
- 9:05 - 9:30** **The Power of GeoScience Information Management**
 Denise L. Freeland
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Learning from the recent oil price collapse – what geoscientists can do about it**
 Dave A. Russum
- 10:40 - 11:05** **How to Selectively Collect Mutli-Tonne Oil Sands Samples from a Greenfields Project Site: Teck Resources Limited's Frontier Oil Sand Project, Fort McMurray, Alberta, Canada**
 Steve R. Hill

Heavy Oil and Oil Sands: Water Resources and Hydrogeology

ROOM: Macleod Hall D
CHAIR(S): Jon Fennell and Allan Turner
SPONSOR:



- 8:05 - 8:15** Introduction
- 8:15 - 8:40** Nexen's Keg River Water Disposal Wells – N.E. Alberta, Canada
 Michael B. Rogers
- 8:40 - 9:05** Using 98/95Mo as a tracer to identify process-affected waters in the Athabasca Oil Sands Region
 Emily B. Taylor, Michael C. Moncur, S. Jean Birks, John Gibson, Alex Tennant, Michael Wieser
- 9:05 - 9:30** Thermal Effects and Quaternary Hydrogeology: Making Good Decisions in a Complex Geologic Setting
 Timothy Johnsen, Alex Haluszka and Matthew McLean
- 9:30 - 10:15** COFFEE BREAK & POSTER SESSIONS
- 10:15 - 10:40** Role of Groundwater Dynamics in the Genesis of the Athabasca Oil Sands
 K. Udo Weyer and James C. Ellis
- 10:40 - 11:05** Issue Paper: Aquifer Integrity under the Influence of Thermal Extraction of Bitumen and Heavy Oil
 Luis E. Rivera
- 11:05 - 11:30** Geochemical Input to a Karst Mine Flooding Geohazard Assessment, Mineable Oil Sands Area, Alberta
 Matthew Neuner, Francisco Castrillon Munoz, John Wozniwicz and Sanil Sivarajan

TUESDAY AFTERNOON

Seismic Noise Suppression

- ROOM:** Telus Room 101-102
CHAIR(S): Mike Moussallem and Tricia Cieslewicz
- 1:15 - 1:25** Introduction
- 1:25 - 1:50** From surface to interbed - a cascaded processing flow for land demultiple
 Juefu Wang and Shaowu Wang
- 1:50 - 2:15** A practical 1.5D approach to internal multiple elimination on mildly structured 3D data
 Peng Cheng, Dave Ganley and Mike Perz
- 2:15 - 2:40** Noise attenuation via robust low rank matrix factorization to singular Spectrum Analysis
 Mike Galbraith, Zhengsheng Yao and Randy Kolesar
- 2:40 - 3:00** COFFEE BREAK

- 3:00 - 3:25** Noise Suppression via Ensemble Empirical Mode Decomposition
 Jiajun Han* and Mirko van der Baan
- 3:25 - 3:50** Robust principle component analysis (RPCA) for seismic data denoising
 Jinkun Cheng, Ke Chen and Mauricio D. Sacchi
- 3:50 - 4:15** 1.5D Internal multiple prediction in the plane wave domain
 Jian Sun* and Kris Innanen

Reservoir Geophysics

ROOM: Telus Room 104-106
CHAIR(S): Volodymyr Vragov and Jesse Kolb
SPONSOR:



- 1:15 - 1:25** Introduction
- 1:25 - 1:50** A theoretical analysis of linear and nonlinear shear wave time-lapse difference AVO
 Shahin Jabbari and Kristopher A. Innanen
- 1:50 - 2:15** Time-lapse numerical modeling of the Quest carbon capture and storage (CCS) project: Poroelastic approach
 Shahin Moradi, Don C. Lawton
- 2:15 - 2:40** Influence of Shale Anisotropy on Caprock Stress Determination
 Jeremy Gallop
- 2:40 - 3:00** COFFEE BREAK
- 3:00 - 3:25** Analysis of azimuthal AVO curvature
 Jesse M. Kolb, David Cho, and Kris Innanen
- 3:25 - 3:50** Low Frequency Models for Inversions – Is Simple Better?
 John V. Pendrel
- 3:50 - 4:15** Quantitative Analysis Workflow to Correlate Seismic Attributes and Production Data in Horizontal Wells
 Renjun Wen
- 4:15 - 4:40** Effect of Pressure on Electrical Conductivity and Formation Factor in Sandstone
 Tariq Mohammed

International II

ROOM:	Glen Room 201-204
CHAIR(S):	Maggie Stratton and Nanna Eliuk
1:15 - 1:25	Introduction
1:25 - 1:50	Giant Tight Gas in Australia: The Challenges and Opportunities of Bringing North American Unconventional Expertise 'Down-Under' Ian J Cockerill and Stephen L. Keenihan
1:50 - 2:15	Integrated Geological And Geophysical Interpretation Of Turbidite Sands In The Reconcavo Basin, Onshore Brazil Greg Soule
2:15 - 2:40	Searching For Structurally Trapped Oil In The Presence of Fault Shadow: Las Maracas Field, Llanos Basin, Colombia David Michael Dolberg, Petroamerica Oil Corp and Kurtis Russel Wikel

2:40 – 3:00 COFFEE BREAK

3:00 - 3:25	New Horizons: Oil and Gas Potential from the Cretaceous to Permo-Carboniferous, South Central Laos Kathleen Dorey
3:25 - 3:50	A holistic approach to petroleum exploration in Colombia: Acordionero Oil Field, Middle Magdalena Valley Basin Michael E Enachescu, Mario A Prince, Dan D Negut, Ian C Edie, Florian Romanescu and Todd Keedwell
3:50 - 4:15	Communicating Exploration Uncertainty in Frontier Regions - West Greenland Case Study Rachel T. Newrick and Catherine E. Nelson

Shale and Silt Plays of Western Canada

ROOM:	Glen Room 206
CHAIR(S):	Mark Thomas and Kathleen Dorey
1:15 - 1:25	Introduction
1:25 - 1:50	Pore pressure prediction and brittleness index estimation from well logs for identifying sweet spots Yexin Liu* and Zhuoheng Chen
1:50 - 2:15	Identification of Natural Fractures in Reservoirs Using Drilling Parameter Models Mazeda Tahmeen and Geir Hareland
2:15 - 2:40	The Role of Wellsite Canister Core Desorption in Characterizing Unconventional Dry- and Liquid-Rich Shale Gas Reservoirs: An Indispensable Link from Laboratory Test to Field Production Albert Cui and Brent Nassichuk

2:40 – 3:00 COFFEE BREAK

3:00 - 3:25	A new Provenance tool for the exploration of unconventional plays: the provenance and mineralogy of silt Luca Caracciolo, Sergio Ando, Eduardo Garzanti, Marta Barbarano, Ross McCabe, Tim Pearce
3:25 - 3:50	Uncertainties in Permeability Measurements of Shales Alireza A. Moghadam and Rick Chalaturnyk
3:50 - 4:15	Extending LMR for anisotropic unconventional reservoirs Marco A. Perez

Horn River

ROOM:	Glen Room 208-209
CHAIR(S):	Melissa Newton and Chantel Pompa
1:15 - 1:25	Introduction
1:25 - 1:50	Statistical characteristics of microseismic events and in-situ stress in the Horn River Basin Vincent Roche*, Melanie Grob, Thomas Eyre, Mirko Van Der Baan
1:50 - 2:15	Low-temperature magnetic anisotropy in shales and mudstones: Application in modelling mineralogy and fabric in the Horn River Basin, British Columbia Vivian T. Ebuefegha and David K. Potter
2:15 - 2:40	Economic implications of drilling sequence in shale gas development, example from Horn River Basin, Canada Zhuoheng Chen and Canada Kirk G. Osadetz

2:40 – 3:00 COFFEE BREAK

3:00 - 3:25	Reading Between the Lines II: A NEBC Shale Gas Quantitative Interpretation Case Study Incorporating Multi-component Data Laurie M. Weston Bellman, Andrew Nicol, Jennifer Leslie-Panek, Pamela Reid and Eric Von Lunen
3:25 - 3:50	Comprehensive Data Integration: A NEBC Shale Gas Case Study Andrew Nicol*, Jennifer Leslie-Panek, Pamela Reid, Eric von Lunen and Laurie M. Weston Bellman
3:50 - 4:15	Investigating Proppant and Fluid Influence During Hydraulic Fracturing with Rock Properties from AVO and Microseismic Mechanisms Lindsay T. Smith-Boughner, Adam Baig, Ted Urbancic, Gisela Viegas, Eric Von Lunen, Jason Hendrick and Jessica Budge


Geomechanics of Unconventional Reservoirs

ROOM:	Macleod Hall A1-4
CHAIR(S):	Adam MacDonald and Darin McCollum
1:15 - 1:25	Introduction
1:25 - 1:50	Duvernay Fracturing: From Microseismic Monitoring to Unconventional Fracture Model Construction Martin Haege, Alexey Zhmodik, Drazenko Boskovic, Venkateshwaran Ramanathan, Tina Hoffart, Qiuguo Li, Oscar Perez Michi and Neil Taylor
1:50 - 2:15	An integrated geochemical and petrophysical study of the Upper Devonian Duvernay Formation of Alberta: insights within a sedimentological and stratigraphic context Julia M. McMillan, Levi J. Knapp, Nicholas B. Harris
2:15 - 2:40	Application of an Integrated Approach for the Characterization of Mechanical Rock Properties in the Duvernay Formation Mehrdad Soltanzadeh, Amy Fox and Nasir Rahim
2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Experimental Rock Deformation under μCT: two new apparatuses Nicola Tisato, Qi Zhao, Anton Biryukov and Giovanni Grasselli
3:25 - 3:50	A Regional Geomechanical Study of the Duvernay Formation in Alberta, Canada Amy D. Fox and Mehrdad Soltanzadeh
3:50 - 4:15	Geomechanical Assessment of Seismic Hazard from Hydraulic Fracturing Shawn C. Maxwell, Frank Zhang and Branko Damjanac

Citi: Navigating the Montney in a Challenging Environment

ROOM:	Macleod Hall A/B Description to follow
SPONSOR:	
1:15 - 1:25	Introduction
1:25 - 1:50	A Look at North American Gas Markets Dr. Anthony Yuen
1:50 - 2:40	Not All Montney Created Equal GLJ Petroleum Consultants (Mirek Zaoral), McDaniel & Associates (Brian Hamm) and Sproule
2:40 - 3:00	COFFEE BREAK
3:00 - 4:15	The Montney: A Financial Perspective ARC Resources (Van Dafoe), Camcor Partners (Andrew Judson) and Grafton Asset Management (Anthony Lambert)

Heavy Oil and Oil Sands: New Observations

ROOM:	Macleod Hall D
CHAIR(S):	Andres Altosaar and Mark Caplan
SPONSOR:	
1:15 - 1:25	Introduction
1:25 - 1:50	Process-Oriented Modeling of Inclined Heterolithic Stratification and Channel Infill Deposits in McMurray Formation Renjun Wen
1:50 - 2:15	The complex issue of fluid substitution in hot production of a heavy oil field: a facies-based approach Ahmad Javanbakhti, Mahbub Alam, Joan Embleton and Larry Lines
2:15 - 2:40	Geologic Considerations of Shallow SAGD Caprock; Seal Capacity, Seal Geometry and Seal Integrity, Athabasca Oilsands, Alberta Canada Gordon T. Stabb
2:40 - 3:00	COFFEE BREAK
3:00 - 3:25	Evolution of Groundwater Hydrochemistry, North Athabasca Oil Sands Region Hugh J. Abercrombie
3:25 - 3:50	Athabasca region shallow CO₂ gas hydrate storage potential: identifying the key uncertainties for storage capacity Kirk G. Osadetz, Donald C. Lawton, Peter Englezos and Amin Saeedfar



TUESDAY MORNING POSTERS

- 9:30 am** 37
A Simple Method for Computing Conversion Point Coordinates: Application to 3D CCP Binning
 Alex Falkovskiy, Halliburton; Robert J. Ferguson and Steve Angelovich
- 9:30 am** 26
Ultrasonic Investigation of Elastic Anisotropy in Duvernay Shales
 Oliver N. Ong, Douglas R. Schmitt, Randolph Kofman, and Kristine Haug
- 9:30 am** 19
FDPM Modelling of Thermal Wellbore Instabilities within Shale Formations
 Johnson Ha, Andrea Lisjak, and Giovanni Grasselli
- 9:30 am** 13
Full waveform inversion: a synthetic test using the PSPI migration
 Marcelo Guarido, Laurence Lines and Robert Ferguson
- 9:30 am** 9
Stratigraphic Characterization of Deposits that Record Foreland Basin Initiation, Jurassic-Early Cretaceous Outcrop Belt, Great Falls, Montana
 Garrett M. Quinn
- 9:30 am** 1
A theoretical analysis of linear and nonlinear shear wave time-lapse difference AVO
 Shahin Jabbari and Kristopher A. Innanen
- 9:35 am** 38
Geochemical Input to a Karst Mine Flooding Geohazard Assessment, Mineable Oil Sands Area, Alberta
 Matthew Neuner, Francisco Castrillon Munoz, John Wozniwicz and Sanil Sivarajan
- 9:35 am** 25
Anisotropic Velocity Imaging of Saturated Sandstone under Laboratory True Triaxial Stress State Using Ultrasonic Surveys
 M. GhofraniTabari, S.D. Goodfellow, M.H.B. Nasser, and R. P. Young
- 9:35 am** 20
Weyburn core assessment from pre CO₂ and post CO₂ injection wells. Determining the impact of injected CO₂ on the reservoir.
 Gavin, K. S., Jensen
- 9:35 am** 14
Annual Water Use Reporting in Alberta
 Chris Pooley, Jens Schumacher, Richard Simms and Michael Fraser
- 9:35 am** 8
Risk-based Investigation for Thermal Mobilization of Heavy Metals in Groundwater
 Rudy Maji, Matt Neuner, Solaleh Khezri and Don Haley
- 9:35 am** 2
Regional study of the thickness of exhumed sediments in the foredeep section of the Western Canada Foreland Basin using the sonic compaction based technique
 Mailyng A. Aviles and Burns A. Cheadle
- 9:40 am** 30
High Speed Calculation of Reflectivity From Arbitrary Anisotropic Interface
 Reza Malehmir, Douglas R. Schmitt
- 9:40 am** 21
Climate Cycles Drive Aquatic Ecologic Changes in the Fort McMurray Region of Northern Alberta, Canada
 Lisa A. Neville, Paul Gammon, Timothy R. Patterson, Graeme T. Swindles
- 9:40 am** 15
Numerical studies of the spatial and temporal distributions of seismic events under different confining conditions
 Qi Zhao, Nicola Tisato, Andrea Lisjak, Omid K. Mahabadi, and Giovanni Grasselli
- 9:40 am** 7
From the lab to real scale: simulation of seismic surveillance in viscoelastic media under varying physical conditions.
 Anton Biryukov, Nicola Tisato, Giovanni Grasselli
- 9:40 am** 3
Hydrocarbon-bearing dolomite reservoir characterization: A case study from eastern Canada
 Amit Kumar Ray, Ritesh Kumar Sharma* and Satinder Chopra
- 9:45 am** 31
Hydrocarbon Generation and Expulsion Modeling in Two Transects in the Western Canada Sedimentary Basin
 Brandon Myers, Tessa K. Wilson, Nicholas B. Harris
- 9:45 am** 22
Petroleum Potential of the Souris Valley Beds of the Lodgepole Formation in Southern Saskatchewan
 Sienna R. Johnson and Stephen L. Bend
- 9:45 am** 16
Tectonic influence on the stratigraphy and complex facies distribution in the Upper Cretaceous Second White Specks petroleum system, West-central Alberta, Canada
 Emma L. Percy and Dr. Per K. Pedersen
- 9:45 am** 4
Sedimentological, ichnological, and geochemical characterization of the Horn River Group, British Columbia, Canada
 Korhan Ayranci, Tian Dong, Levi Knapp and Nicholas Harris
- 9:50 am** 32
Organizing 4D Seismic Data from an Active Mine Site
 Jianing Zhang, Bernd Milkereit
- 9:50 am** 23
Horizontal Cuttings Analysis Profiling in Unconventional Reservoirs: Laboratory Analyses and Their Applications for Optimizing Completions
 Cory E. Twemlow, Nicole M. Willment, and Brent R. Nassichuk
- 9:50 am** 17
Molecular characterization of source rocks from the Second White Specks Formation in the WCSB
 Jingping Ma*, Haiping Huang and Steve Larter
- 9:50 am** 5
Geochemical and petrophysical characteristics of Horn River shale, Middle and Upper Devonian, Northeastern British Columbia, Canada
 Tian Dong, Korhan Ayranci, Nicholas B. Harris, Cory E. Tewmlow, Brent R. Nassichuk
- 9:55 am** 33
Distribution of Metals in Petroleum Asphaltenes and Bitumoids from Reservoir and Basement Rock of the Romashkino Field, Russia
 G.P. Kayukova, I.P. Kosachev, G.V. Romanov, U.G. Romanova, and A.V. Vahin
- 9:55 am** 24
Detecting lineaments of Athabasca region by integrated geophysical data interpretation
 Ellie P. Ardakani and Douglas R. Schmitt
- 9:55 am** 18
1.5D internal multiple prediction on physical modeling data
 Pan Pan*, Kris Innanen and Joe Wong
- 9:55 am** 6
Noise attenuation via sequential rank-one matrix approximation
 Zhengsheng Yao, Mike Galbraith and Randy Kolesar
- 10:00 am** 34
The Garbutt shale of the B.C. Liard Basin: A potential liquids-rich play?
 Filippo Ferri, Margot McMechan, Omid Haeri Ardakani and Hamed Sanei

10:00 am 29
Simulation of Seismic Wave Propagation in a Deep Mine

Ramin Saleh, Bernd Milkereit, Qinya Liu

10:00 am 12
Internal multiple prediction on Hussar synthetics

Pan Pan* and Kris Innanen

10:05 am 35
Facies control on fractures of the Cardium Formation, Southwest Pembina Field, Alberta, Canada

Daniel W Hill and Per K Pedersen

10:05 am 28
Detrital zircon geochronology and the evolution of clastic source areas, Liard Basin, Northeast British Columbia

Margot McMechan, Lisel D. Currie, William Matthews, Filippo Ferri and Bernard Guest

10:05 am 11
Deep Groundwater Monitoring in Alberta's Oil Sands: Challenges and Solutions

Sheila Duchek and Gullid Koshin

10:10 am 36
Horn River Group of central Mackenzie Plain, NWT: new data from the cored section of Husky Little Bear N-02 well

Damien Weleschuk & Pavel Kabanov

10:10 am 27
Estimation of the Elastic Constants for HTI Media Using Full-Newton Multi-parameter Full Waveform Inversion

Wenyong Pan*, Kris Innanen, Gary Margrave, Mike Fehler, Xinding Fang and Junxiao Li

10:10 am 10
Exploring & Developing Fractured Basement Opportunities - Globally & Locally

Tako Koning

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WEDNESDAY MORNING

Borehole Geophysics

- ROOM:** Telus 101-102
CHAIR(S): Steve Vasey and Craig Coulombe
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Analysis of multicomponent walkaway vertical seismic profile data**
 Bona Wu, Don C. Lawton, and Kevin W. Hall
- 8:40 - 9:05** **AVA from prestack 3D VSP images**
 W. Scott Leaney
- 9:05 - 9:30** **QP and QS estimation from multicomponent VSP data**
 Michelle C. Montano, Don C. Lawton, Gary F. Margrave
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Prediction of stratigraphic units from spectral co-occurrence coefficients of well logs**
 Ben B. Bougher
- 10:40 - 11:05** **Priddis 2014 broadband surface and walkaway VSP seismic experiment**
 Kevin W. Hall, Kevin L. Bertram, Malcolm B. Bertram, Joe Wong, Peter M. Manning, Eric V. Gallant, Kristopher A.H., Innanen, Don C. Lawton and Gary F. Margrave
- 11:05 - 11:30** **Analytical Stress Modeling for Mine related Microseismicity**
 Himanshu Barthwal

Seismic Data Processing: Interpolation and Internal Multiple Suppression

- ROOM:** Telus 104-106
CHAIR(S): Mostafa Naghizadeh
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Internal multiple prediction on Hussar synthetics**
 Pan Pan* and Kris Innanen
- 8:40 - 9:05** **Prestack Trace Interpolation: Comparison of Different Algorithms and Data Domains**
 Ye Zheng, John Guo, Wenyan Liao, Laurie Ross, Balazs Nemeth and Christian Escalante
- 9:05 - 9:30** **Arbitrarily Sampled Fourier Transform for 5D Interpolation**
 John Guo, Ye Zheng and Wenyan Liao
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **1.5D internal multiple prediction on physical modeling data**
 Pan Pan*, Kris Innanen and Joe Wong
- 10:40 - 11:05** **Large dip artifacts in 1.5D internal multiple prediction and their mitigation**
 Kris Innanen and Pan Pan
- 11:05 - 11:30** **5D Tensor-based seismic data completion: The Parallel Matrix Factorization (PMF) algorithm**
 Jianjun Gao, Aaron Stanton and Mauricio D. Sacchi

Mature Fields

- ROOM:** Glen Room 201-204
CHAIR(S): Heather Makowecki and Janelle Irvine
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Sedimentology and Reservoir Characterization of the Mississippian (Tournaisian) Pekisko Formation, Hawk Hills Area, Northern Alberta**
 Lauren A. Eggie, Nancy Chow and John Miller
- 8:40 - 9:05** **Observing Fines Releases and Expanding Minerals with an Environmental - Variable Pressure - Field Emission Scanning Electron Microscope (E-VP-FESEM): Fresh Water Hydration and Wetting/Flooding Experiments on Cardium Formation Arenites, Wackes and Mudstones**
 Federico F. Krause, Chris L. DeBuhr, Camilo A. Rojas, Andrew C. Wiseman, Ron L. Watson and Rodolfo O. Meyer
- 9:05 - 9:30** **Banff, Exshaw (Alberta Basin Bakken) and Wabamun in Southern Alberta; the good, the bad and the ugly**
 Tim H.D. Hartel
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**
- 10:15 - 10:40** **Elnora D2B Pool – A New Central Alberta Nisku Reef Conventional Light Oil Discovery**
 Ted McFeely, Ken Hayes and Marlo Baydala
- 10:40 - 11:05** **How to create mis-ties beneath the Mannville coals**
 Colin Rowell, David Cho and Evan Mutual
- 11:05 - 11:30** **Exploring the Mannville Group: New insights on an old reservoir**
 David Cho, Thomas Chan, Colin Rowell and Evan Mutual

New Ideas in Western Canadian Resource Plays

- ROOM:** Glen Room 206
CHAIR(S): Jonathan Bryan and John Perrin
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Western Canada Resource Plays: A Geoscientific and Well Completions Overview of Recent Activity, Results and Trends**
 Meridee J. Fockler, Ben J. McKenzie and Heather J. McCrank
- 8:40 - 9:05** **Characterizing Organic Rich Mudstone Facies and Stratal Architectures of the Upper Cretaceous Second White Specks Petroleum System, Implications for Reservoir Fairway Distribution across West-central Alberta, Canada**
 Nick A. Zajac* and Dr. Per K. Pedersen
- 9:05 - 9:30** **Mudstone Aggregate Origins and Depositional Interpretations of the Second White Specks and Carlile Formations in Central Alberta**
 Ben C. Montgomery, Dallin P. Laycock, Ron J. Spencer and Per K. Pedersen
- 9:30 - 10:15** **COFFEE BREAK & POSTER SESSIONS**

- 10:15 - 10:40** **Provenance of early Mississippian Bakken Clastics Based on Detrital Zircon and Detrital Conodonts**
Tarig Ib. Mohamed and Charles Henderson
- 10:40 - 11:05** **A Reservoir Study: Hydraulic Fracturing in the White Speckled Shale Formation**
Neda Boroumand
- 11:05 - 11:30** **Optimising Resource Plays – An integrated “GeoPrediction” Approach**
Edward Hoskin, Stephen O’Connor, Scott Mildren, Michel Kemper, Cristian Malaver, Jeremy Gallop and Sam Green

Seismic Signal Analysis I

- ROOM:** Glen Room 208-209
CHAIR(S): Doug Horton and Brian Hargreaves
- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Field testing of multiple simultaneous vibrator sources controlled by filtered m-sequences**
J. Wong and David Langton
- 8:40 - 9:05** **3D Interferometric Refraction Statics. No More First-Break Picking.**
Valentina Khatchatryan and Mike Galbraith
- 9:05 - 9:30** **Measuring Wavelet Phase through the Seismic Processing Sequence**
Peter Cary, Nirupama Nagarajappa, Xinxiang Li, Mike Perz

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

- 10:15 - 10:40** **Through a glass darkly: improving raypath interferometry**
David C. Henley
- 10:40 - 11:05** **Georadar processing and imaging with Gabor deconvolution – University of Houston Coastal Center**
Adrian D. Smith, Robert J. Ferguson, and Robert R. Stewart
- 11:05 - 11:30** **Azimuthal weighting for layer-stripped gathers**
Chuck Ursenbach, Xinxiang Li, Peter Cary

Applied Surficial and Quaternary Geology I

- ROOM:** Macleod Hall A1-4
CHAIR(S): Gerald Osborn and Eowyn Campbell
SPONSOR:



- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Stratigraphic Controls of Quaternary Aquifer Deposits in the Primrose and Wolf Lake Oil Sands Development Areas, Northeast Alberta**
Kristyn A. Adams
- 8:40 - 9:05** **Twenty seven years later: methane seepage around failed wells at Kumzhinskoye gas condensate field, Nenets autonomous district, Russia**
Igor Pavlovskii and Pavel Krechetov
- 9:05 - 9:30** **Landslide Mapping and Characterization Using LiDAR**
Robert J. Saunders

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

- 10:15 - 10:40** **Evidence for early Pleistocene glaciation in central Alberta, Canada**
Laurence D. Andriashek and René W. Barendregt
- 10:40 - 11:05** **High water in June 2013: More flood than meets the eye**
Jason M. Abboud, M. C. Ryan, Gerald D. Osborn
- 11:05 - 11:30** **Applications of Near Surface Geophysics for Defining Surficial Features**
Alexandra L. S. Campbell

Montney I

- ROOM:** Macleod Hall A/B
CHAIR(S): Mark Norton and Amanda Knowles
SPONSOR:



- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Seismic characterization of Montney shale formation using Passey’s approach**
Ritesh Kumar Sharma* and Satinder Chopra
- 8:40 - 9:05** **Evaluation of Water-Saturations Determined from Crushed-Rock and Full-Diameter Core Samples, Montney Tight Gas Siltstone Play, Western Canada**
James M. Wood
- 9:05 - 9:30** **Discrete Fracture Network Modelling of Hydraulic Fracturing in a Structurally Controlled Area of the Montney Formation, BC**
Steve Rogers, Pat McLellan and Gordon Webb

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

- 10:15 - 10:40** **Petrophysics, Geomechanics and Rock Composition in the Montney Formation**
Noga Vaisblat, Nicholas B. Harris, Tristan Euzen

Heavy Oil and Oil Sands: Reservoir and Fluid Characterization

- ROOM:** Macleod Hall D
CHAIR(S): Michael Webb and Bryce Jablonski
SPONSOR:



- 8:05 - 8:15** **Introduction**
- 8:15 - 8:40** **Producing Oil Sands Thin Sections for Reservoir Characterization**
Julie D. Bell, Giacomo Mele, Bruno Di Matteo, Fabio Terribile
- 8:40 - 9:05** **Application of X-Ray Fluorescence (XRF) Analyses to the Characterization of Oil Sand Reservoirs**
Ron Spencer and Tom Weedmark
- 9:05 - 9:30** **Prediction of Oil Sand Permeability**
Saeed Taheri, Shahin Ghomeshi, Evgeny Skripkin, Jonathan Bryan, Hossein Hejazi and Apostolos Kantzas

9:30 - 10:15 COFFEE BREAK & POSTER SESSIONS

- 10:15 - 10:40** **Soluble Ions & the Extraction Process – It's All About Timing**
Matt Blanch
- 10:40 - 11:05** **Velocity Measurements of Pore Fluids at Pressure and Temperature: Application to bitumen**
Arif Rabbani*, Douglas R Schmitt, Jason Nycz, and Ken Gray
- 11:05 - 11:30** **Prediction of Thermal Conductivity of Oil Sands Based on Particle Size Distribution**
Evgeny Skripkin

WEDNESDAY AFTERNOON

Seismic Acquisition

- ROOM:** Telus Room 101-102
CHAIR(S): Rob Kendall and Paul Webster
- 1:15 - 1:25** **Introduction**
- 1:25 - 1:50** **Significance of 3D Binning in Today's Design Technology**
Norman M. Cooper and Yajaira Herrera-Cooper
- 1:50 - 2:15** **Evaluation of Distributed Acoustic Sensing for 3D Time-lapse VSP Monitoring of the Aquistore CO₂ Storage Site**
K. Harris, D. White, C. Samson, T. Daley, D. Miller
- 2:15 - 2:40** **OBN FAN vs Conventional Streamer Surveys**
Brad Torry and Jeff Sposato
- 2:40 – 3:00** **COFFEE BREAK**
- 3:00 - 3:25** **Seismic parameter design for reservoir monitoring and improved PS fold distribution; Brooks, Alberta**
Davood Nowroozi, Donald C. Lawton and Andreas Cordsen
- 3:25 - 3:50** **Cableless Seismic Acquisition**
Rob Kendall
- 3:50 - 4:15** **The potential of utilizing intelligent Distributed Acoustic Sensor and existing single-mode and multimode optical fibers for monitoring the reservoir characteristics**
Michael J Longton

Geological Fundamentals IV

- ROOM:** Telus Room 104-106
CHAIR(S): Rob Paul and Kyla Poelzer
- 1:15 - 1:25** **Introduction**
- 1:25 - 1:50** **A Sequential Workflow Utilizing Standard Logs for the Robust Petrophysical Evaluations in Formations with Complex Mineralogy. A Southern Alberta Case Study**
Innocent Kalu
- 1:50 - 2:15** **Discretizing Geomechanical Properties as Part of a Full Appraisal of a Mature Field in the Western Canadian Sedimentary Basin**
Clara E. Ikuku, Kalyan Saikia
- 2:15 - 2:40** **Molecular characterization of source rocks from the Second White Specks Formation in the WCSB**
Jingping Ma*, Haiping Huang and Steve Larter

- 2:40 – 3:00** **COFFEE BREAK**
- 3:00 - 3:25** **Geochemical Characterization of Fine-grained Carboniferous Strata of the Maritimes Basin Complex of New Brunswick**
Adrienne V. Nofall and Dave Keighley
- 3:25 - 3:50** **Geology's Influence on Geomechanics and How It Relates to Borehole Stability Analysis**
Jordan Gao
- 3:50 - 4:15** **Magnetotelluric and Controlled-Source Electromagnetic Study of Aquistore CO₂ Sequestration Site, near Estevan, Saskatchewan**
Joe, B, McLeod, Ian, J, Ferguson, Jim Craven, Brian Roberts, Eric Roots, Bernard Giroux

Geomodels

- ROOM:** Glen Room 201-204
CHAIR(S): Damien Thenin and Julie Dee Bell
- 1:15 - 1:25** **Introduction**
- 1:25 - 1:50** **Verification of Predictions of Magnitude of Completeness Using Observations from an Earthquake Catalogue**
Dario Baturan
- 1:50 - 2:15** **Keeping it real: deterministic geomodel of the Little Bow Upper Mannville I Pool: simulating layered behavior in a valley fill sequence to optimize ASP flood design**
J. Anne Thomson
- 2:15 - 2:40** **Development of a geostatic model for a geoscience field research site in Alberta**
Jessica M. Dongas and Don C. Lawton
- 2:40 – 3:00** **COFFEE BREAK**
- 3:00 - 3:25** **Basin Modeling in Western Newfoundland Using Oil Seep Samples**
Martin Schwangler, Nicholas B. Harris, John W. F. Waldron
- 3:50 - 4:15** **Estimation of Vertical and Horizontal Permeability in the McMurray Formation of Foster Creek**
Olena Babak*, Simon Stirling and Jonah Resnick

Value of Integrating Multicomponent Seismic Technologies

- ROOM:** Glen 206
CHAIR(S): Jeff Grossman and Chris Steinhoff
- 1:15 - 1:25** **Introduction**
- 1:25 - 1:50** **Multi-attribute fracture analysis of the Washout Creek 3C3D data set**
Michael J. Perz, Xinxiang Li, Wendy Ohlhauser, Ritesh Kumar Sharma, Peter Cary, Satinder Chopra
- 1:50 - 2:15** **Vector imaging of converted wave seismic data**
Aaron Stanton and Mauricio D. Sacchi
- 2:15 - 2:40** **Addressing interferometric S-wave static corrections in the tau-p domain**
Raul Cova, David Henley and Kris Innanen
- 2:40 – 3:00** **COFFEE BREAK**

- 3:00 - 3:25 **Sensitivity of interval Vp/Vs analysis of seismic data**
Rafael J. Asuaje* and Don C. Lawton
- 3:25 - 3:50 **A method for converted wave receiver statics correction in the CRG domain**
Saul E. Guevara and Gary F. Margrave
- 3:50 - 4:15 **Horn River Converted Wave Processing Case Study**
Christian D. Ansorger

Seismic Signal Analysis II

- ROOM:** Glen Room 208-209
CHAIR(S): Mirko Van Der Baan and Paul Anderson
- 1:15 - 1:25 **Introduction**
- 1:25 - 1:50 **High-dimensional resolution enhancement in the continuous wavelet transform domain**
Shaowu Wang, Juefu Wang and Tianfei Zhu
- 1:50 - 2:15 **Stratigraphic filtering and Q estimation**
Gary F. Margrave
- 2:15 - 2:40 **Drift time estimation by dynamic time warping**
Tianci Cui and Gary F. Margrave
- 2:40 - 3:00 **COFFEE BREAK**
- 3:00 - 3:25 **Unbiased surface-consistent scalar estimation by crosscorrelation**
Nirupama Nagarajappa*, Peter Cary
- 3:25 - 3:50 **The optimum color operator for recovering low frequencies**
Sina Esmaeili* and Gary F. Margrave
- 3:50 - 4:15 **Compressive time-lapse seismic data processing using shared information**
Felix Oghenekohwo, and Felix J. Herrmann

Applied Surficial and Quaternary Geology II

- ROOM:** Macleod Hall A1-4
CHAIR(S): Gerald Osborn and Eowyn Campbell
- 1:15 - 1:25 **Introduction**
- 1:25 - 1:50 **Combining airborne electromagnetics with geotechnical data for automated depth to bedrock tracking**
Craig W Christensen, Andreas, Pfaffhuber, Helgard Anschutz and Tone F Smaavik
- 1:50 - 2:15 **Buried tunnel valley aquifers in the Fort McMurray region, northeast Alberta**
Nigel Atkinson and Laurence Andriashek
- 2:15 - 2:40 **Uncovering the surface: surficial geology mapping in Alberta**
Daniel J. Utting, Steven Pawley, and Nigel Atkinson
- 2:40 - 3:00 **COFFEE BREAK**
- 3:00 - 3:25 **Morphodynamics of The Bow and Elbow Rivers**
Jonathan Slaney
- 3:25 - 3:50 **Stable isotope tracing of sources of nitrate in aquatic systems: examples from rivers in southern Alberta**
Mary Kruk and Bernhard Mayer

Montney II

- ROOM:** Macleod Hall A/B
CHAIR(S): Erin James and Amy Fox
- 1:15 - 1:25 **Introduction**
- 1:25 - 1:50 **Not all Montney is Created Equal: Characterising Montney Unconventional Resource Potential using Common Risk Segment Mapping**
Ian J Cockerill
- 1:50 - 2:15 **Characterization of Organic Matter Fractions in the Montney Tight Gas Siltstone Reservoir**
Hamed Sanei, James M. Wood, Omid Haeri Ardakani and Chris R. Clarkson
- 2:15 - 2:40 **Solid Bitumen as a Determinant of Reservoir Quality in the Montney Tight Gas Siltstone Play**
James M. Wood, Hamed Sanei, Mark E. Curtis and Chris R. Clarkson
- 2:40 - 3:00 **COFFEE BREAK**
- 3:00 - 3:25 **An Integrated Approach to Well Completions in the Montney Formation, N.E British Columbia**
David Kelly, Graham Janega, Bogdan Batlai, John Nieto and Robert Bercha
- 3:25 - 3:50 **Geological Controls on Reservoir Properties of the Montney Formation in Northeastern BC: An integration of sequence stratigraphy, organic geochemistry, quantitative mineralogy and petrophysical analysis**
Tristan Euzen, Bob Everett, Robert V. Everett, Matthew Power, Vincent Crombez, Sébastien Rohais, Noga Vaisblat and François Baudin

Rock Physics

- ROOM:** Macleod Hall D
CHAIR(S): Bill Goodway and Marco Perez
- 1:15 - 1:25 **Introduction**
- 1:25 - 1:50 **Rock physics study of the Nisku aquifer from results of reservoir simulation**
Davood Nowroozi and Donald C. Lawton
- 1:50 - 2:15 **Anisotropic Velocity Imaging of Saturated Sandstone under Laboratory True Triaxial Stress State Using Ultrasonic Surveys**
M. GhofraniTabari, S.D. Goodfellow, M.H.B Nasser, and R. P. Young
- 2:15 - 2:40 **A rock-physics tutorial: Discovering a supermodel**
Carl Reine
- 2:40 - 3:00 **COFFEE BREAK**
- 3:00 - 3:25 **Linking Microseismicity, Characterization of Pre-Existing Fractures and Geomechanical Models in Hydraulic Stimulation**
Jonathan Gallagher, Adam M. Baig, Ted Urbancic, Eric von Lunen
- 3:25 - 3:50 **Effects of Finite Specimen Dimensions on Laboratory Measurements of Rock Moduli and Q**
Wubing Deng and Igor B. Morozov
- 3:50 - 4:15 **Uncertainty estimates on prestack inversion for a Central North Sea sandstone injectite field**
Thomas. R. N. Jansson, Klaus B. Rasmussen, Helen Basford and William Dow

9:45 am	31
A novel approach for low frequency model generation based on multiattribute regression analysis	
Amit Kumar Ray, Satinder Chopra and Ritesh Kumar Sharma	
9:45 am	22
Investigating fault shadows in a normally faulted geology	
Sitamai Ajiduah* and Gary Margrave	
9:45 am	16
Complex Facies Delineation: A Geological Model of the Hoadley Barrier Bar in Central Alberta	
Adrienne E. McDougall and Per K. Pedersen	
9:45 am	4
Seismic discontinuity attributes and Sobel filtering	
Satinder Chopra and Kurt J. Marfurt	
9:50 am	32
Monitoring of Carbonate Reservoir Development by hanging the Composition and Properties of Produced Crude Oil	
Yulia Muratovna Ganeeva, Ludmila Victorovna Fedonina, Tatiana Nicolaevna Yusupova, Gennady Vasilevich Romanov, Vladimir Alekseevich Alfonsov	
9:50 am	23
Factors Influencing Production Rates in the Raven River Member of the Cardium Formation in Garrington, Alberta	
Raymond C Van and Per K Pedersen	
9:50 am	17
Paleochannel migration history and characterization of resulting point bars, counter point bar, and abandoned channels from an Upper Cretaceous fluvial meander belt, Dinosaur Park Badlands, Alberta	
Paul R. Durkin, Stephen M. Hubbard, Zenon Weleschuk, Derald G. Smith, John Holbrook, Matthew Palmer, Alexander Torres and Dale A. Leckie	
9:50 am	5
Churning seismic attributes with principal component analysis	
Satinder Chopra and Kurt J. Marfurt	
9:55 am	24
The Bakken Formation within the Northern Part of the Williston Basin: a Comprehensive and Integrated Reassessment of Organic Matter Content, Origin, Distribution and Hydrocarbon Potential	
Stephen L. Bend, Titi E. Aderoju, Bree Wrolson, Oluseyi Olajide	
9:55 am	33
T-R Sequence Model for the Bakken Formation in Southeast Alberta, Southwest Saskatchewan	
Tarig Ib. Mohamed and Charles Henderson	

9:55 am	18
Rock physics study of the Nisku aquifer from results of reservoir simulation	
Davood Nowroozi and Donald C. Lawton	
9:55 am	6
Characterization of the dolomite reservoirs with the help of photoelectric index volume	
Ritesh Kumar Sharma*, Satinder Chopra and Amit Kumar Ray	
10:00 am	34
Catalytic Aspects of the Filling of Oil Fields	
I.P.Kosachev, V.G.Izotov, L.M.Sitdikova, G.V.Romanov	
10:00 am	29
Shale Rheology and Retained Fracture Conductivity	
Ken Glover, Albert Cui, Raphael Wust	
10:00 am	12
Petrophysical analysis of reservoir characterization for the Devonian-Mississippian lower middle Bakken member in the Viewfield pool, SE Saskatchewan	
Kezhen Hu, Zhuoheng Chen and Chao Yang	
10:05 am	35
Analyzing partial-stacked seismic volume outputs from spectral decomposition techniques	
Rafael R. Sanguinetti	
10:05 am	28
Hydrocarbon-bearing dolomite reservoir characterization: A case study from eastern Canada	
Amit Kumar Ray, Ritesh Kumar Sharma* and Satinder Chopra	
10:05 am	11
Seismic Signal Enhancement Using 2D Fast Discrete Curvelet Transform --- An Application to VSP and Common-Shot Gathers From a Hardrock Environment	
Dong Shi and Bernd Milkereit	
10:10 am	36
Petrophysical Study of Gas Shale of the Permian Roseneath and Murteree Formations of the Cooper Basin, Australia.	
Quaid Khan Jadoon*, Eric Roberts, Tom Blenkinsop, Raphael Wust, Syed Anjum Shah	
10:10 am	27
Comparing step length calculation using well logs with a line-search method	
Babatunde Arenrin*, Gary Margrave and John Bancroft	
10:10 am	10
Using hyperspectral imaging to enhance the detection of bioturbation in Athabasca oil sands hand samples in weathered and fresh surfaces	
Paulina Hauf, Michelle Speta, Benoit Rivard, Murray Gingras	

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 Because of limited parking, we encourage you to take the C-Train to the Brentwood Station.

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THURSDAY • MAY 7, 2015

SESSION 1: CLASTICS

8:50 - 9:00	Introduction / Welcome
9:00 - 9:25	Comparison of porosity and permeability within the Cardium Formation between East Pembina 02-16-049-07W5 and West Pembina 04-32-047-10W5, West-Central AB Holly Nicholas
9:25 - 9:50	Hydrocarbon assessment of the Cardium light oil play in the Willesden Green Field - Cardium U Pool, west-central Alberta Marco Venieri
9:50 - 10:20	Morning Break
10:20 - 10:45	Integrating a High Resolution Core Analysis with the Sedimentological and Stratigraphic Controls on Hydrocarbon Accumulation and Production in the Bakken Formation, Viewfield Pool, SE Saskatchewan David Cronkwright
10:45 - 11:10	Mineralogy and lithofacies of the Montney Formation: how representative are cuttings compared with core Marc Enter
11:10 - 11:35	AGAT Laboratories Presentation
11:35 - 1:30	Lunch

SESSION 2: CARBONATES

1:30 - 1:55	Duvernay Formation - What have we learned so far? Carolyn Currie
1:55 - 2:20	Devonian Petroleum Systems and Exploration Potential, Southern Alberta, A Review in Three Parts Richard Wierzbicki
2:20 - 2:45	Internal Stratigraphy Review and Petroleum Potential of the Lower Mississippian Souris Valley Beds, South Eastern Saskatchewan Scott MacKnight
2:45 - 3:15	Afternoon Break
3:15 - 3:40	Mississippian Souris Valley Potential in Southeast Saskatchewan John Lake

SESSION 3: GEOPHYSICAL INTEGRATION

3:40 - 4:05	CMC Research Institute's Countess well (10-22-17-16W4): the Upper Cretaceous succession at a New and Unique Subsurface Laboratory and Technology Demonstration Site in Newell County Kirk Osadetz
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FRIDAY • MAY 8, 2015

SESSION 4: OIL SANDS

- 8:50 - 9:00 Introduction/ Welcome
- 9:00 - 9:25 **Bedding Scale Modeling Based Workflow to Estimating Vertical Permeability in Oil Sands Reservoir for SAGD Process Simulation**
Renjun Wen
- 9:25 - 9:50 **Reservoir Heterogeneity in Marginal Marine Settings of the Athabasca Oil Sands: Apparent Continuity of Mud Beds Between Closely Spaced Cores**
Michael Ranger
- 9:50 - 10:20 Morning Break
- 10:20 - 10:45 **Rock Rigidity and Geological Facies Templates in Finding Key Reservoir Properties for Heavy Oil Fields**
Mahbub Alam

- 10:45 - 11:10 **Sedimentary Fabrics for the Inner Estuary and Fluvio-Tidal Transition Zone of the Petitcodiac River Estuary, NB, Canada**
Alina Shchepetkina

- 11:10 - 11:35 **AGAT Laboratories Presentation**

- 11:35 - 1:30 Lunch

SESSION 5: FRONTIERS

- 1:30 - 1:55 **A Storm-Influenced Shoreface Succession Within the Cambrian Mount Clark Formation of the Colville Hills Region, Northwest Territories**
David Herbers
- 1:55 - 2:20pm **North America's First Oil Shale Play, Ordovician Collingwood (Utica) Shale in Southwestern Ontario**
Allan Phillips



AAPG**BOOTH 710**

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www.continentallabs.ca | 403-250-5125

Core Laboratories Canada Ltd.**BOOTH 605**

Core Laboratories is a leading provider of proprietary and patented reservoir description, production enhancement, and reservoir management services for the global petroleum industry. Core Laboratories has over 70 offices in more than 50 countries and is located in every major oil producing region in the world. Our company provides its services to the world's major, national, and independent oil companies.

CREWES/University of Calgary**BOOTH 100**

Located at the University of Calgary in Calgary Alberta, CREWES is a dynamic collaboration of academic scientists, graduate students, and hydrocarbon industry scientists who conduct research in exploration seismology. It is supported by the University, industry, and NSERC. Research topics span exploration seismology and include acquisition, processing, imaging, inversion, and interpretation. CREWES records its own data, often with 3C receivers, and develops imaging and interpretation techniques.

www.crewes.org | 403-220-8863

CSEG**BOOTH 1013**

Canadian Society of Exploration Geophysicists Phone: (403)262-0015 Since 1949 the CSEG has been promoting the science of geophysics while encouraging fellowship, cooperation and education amongst its members. Through the many annual activities offered by the CSEG and its volunteers, members have the opportunity to attend courses, seminars and monthly technical luncheons, enjoy social interaction at various events including the golf tournament, curling bonspiel, and family ski weekend, as well as continuing education week and the yearly convention.

www.cseg.ca | 403-262-0015

CSPG**BOOTH 1014**

CSPG, Canada's Energy Geoscientists, welcomes you to visit our booth located on the exhibit floor. Learn more about all of the upcoming events, conferences, & workshops CSPG has to offer. Enter our draw for a chance to win a \$250 CSPG Credit.

www.cspg.org | 403-264-5610

CWLS**BOOTH 1015**

The CWLS (Canadian Well Logging Society) is the oldest organization devoted to log analysis, incorporated in Calgary in 1957. The CWLS is "The Society" for those interested in exploring resources in Canada using well log data. CWLS offers; courses, field trips, a technical data base and publications to its membership.

cwls.org | 403-437-4065

CSWG/CSEG/CWLS University Student Outreach**BOOTH 1003**

This year at the 2015 Geoconvention the CSEG foundation, CSPG, and CWLS University Student Outreach Committees will be joining forces again to provide services specifically for geoscience students. Students are encouraged to stop by the booth to and sign up for memberships along with the student mixer, find out what events and programs will be coming up and network with the professionals who will be volunteering.

www.cwls.org, www.cspg.org, cseg.ca | 403-993-1040

Datalog Technology Inc.**BOOTH 108**

Logging While Tripping (LWT) is a patented formation evaluation technique in which quality open hole logs are acquired in a method that is more cost effective, uses less rig time, and has fewer inherent risks than wireline, drill pipe conveyed, or logging-while-drilling methods. LWT allows open hole logs to be acquired in horizontal and hostile hole conditions where logging was previously impossible or uneconomic.

www.datalogtechnology.com | 403-479-5203

dGB Earth Sciences**BOOTH 620**

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www.dgbes.com

DMT Geosciences Ltd.**BOOTH 329**

DMT Geosciences Ltd. (DMT) provides comprehensive geoscience, consulting and engineering support to the energy, minerals and environmental sectors. DMT's geophysical group offers a full range of services in exploration, engineering and environmental geophysics.

As well, DMT delivers mine safety services, operational assistance, project management, economic analyses and mine design and engineering. In Canada DMT operates from offices in Vancouver and Calgary and is owned by DMT GmbH & Co. KG of Essen, Germany. With offices, experience and support worldwide, we're there when you need us ...

www.dmtgeosciences.ca | 403-781-2158

Drillinginfo**BOOTH 329**

Drillinginfo is the leading SaaS and data analytics company for energy exploration decision support, helping the oil and gas industry achieve better, faster results. The company's predictive decision platform combines intelligence, analytics, tools, and services in one seamless system to deliver value at every stage of the E&P process. Drillinginfo services more than 3,200 companies globally from its Austin, Texas-based headquarters, and has more than 600 employees on five continents. For more information, visit www.drillinginfo.com.

www.drillinginfo.com | 403-998-3120

EAGE (European Association of Geoscientists & Engineers)**BOOTH 927**

EAGE is a professional association for geoscientists and engineers. Founded in 1951, it is an organization with a worldwide membership (around 18,000 members), providing a global network of commercial and academic professionals. The association is truly multi-disciplinary and international in form and pursuits. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and civil engineering. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division. The main activities of EAGE are events (conferences, exhibitions, workshops), publications (journals, books), educational programmes, student activities and recruitment.

www.eage.org | +31 88 995 5055

Enersoft**BOOTH 1005**

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enersoft.ca | 403-472-1384

EnerPlus

Enerplus is a North American energy producer with a portfolio of high quality oil and gas assets in resource plays that offer significant organic growth potential. We are focused on creating value for our investors through the execution of a disciplined capital investment strategy that supports the successful development of our properties, and a monthly dividend to shareholders. We are a responsible developer of resources that strives to provide investors with a competitive return comprised of both growth and income.

www.enerplus.com | 403-298-8961

ESG SOLUTIONS**BOOTH 615**

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www.esgsolutions.com | 403-266-1331

FairfieldNodal**BOOTH 818**

FairfieldNodal, the leader in seismic nodal technology, offers a full spectrum of revolutionary acquisition systems and technology services. This offering includes the design and manufacture of ZNodal™ systems, a family of true cable-free seismic nodes that can continuously acquire data in any terrain or marine depth, easily and with minimal environmental impact. Beyond tools, FairfieldNodal offers an extensive spec-data library; acquisition services to countries worldwide; unsurpassed imaging for complex geology; cost-effective prestack time and depth migration services for large-scale projects; and licensing of non-exclusive data from a continually expanding shelf database in the Gulf of Mexico.

www.FairfieldNodal.com | 281-275-7619

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www.fei.com | 281-994-4332

Foothills Resource Services**BOOTH 903**

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GEO ExPro**BOOTH 1016**

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GEO ExPro is an interdisciplinary magazine and online publication designed to explain and clarify geoscience and technology for everybody involved in the exploration and production of oil and gas resources. geoexpro.com - The next generation GEO ExPro website enables readers to enjoy rich media content on any device and operating system including desktops, tablets and phones. The site is regularly updated with interactive articles where you can also access our extensive archive and download the pdf of the magazine for free. Please come by our booth 1016 to pick up a complimentary copy of issue no.2

www.geoexpro.com | +44 (0) 7909915513

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www.geobiztechnology.com | 281-661-8305

Geoscience BC**BOOTH 822**

Geoscience BC is a non-profit organization established in 2005 through an investment from the Province of British Columbia. We generate earth science information in partnership with First Nations, the resource sector, universities, governments and communities. We deliver this information to the public to encourage investment and enable informed land use decisions for the benefit of all British Columbians.

www.geosciencebc.com

GeoEdges Inc.**BOOTH 803**

GeoEdges Inc. creates regional Geological Edge Sets for use in all digital mapping applications. North American regions covered by our products include Western Canada, Northern U.S. Rockies & Williston Basin, Texas & Midcontinent U.S., Eastern U.S., Mexico, and North American Shales.

www.geoedges.com | 403-870-8122

geoLOGIC systems ltd**BOOTH 103**

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www.geologic.com | 403-292-1992

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www.geomodeling.com | 403-262-3172

GEOSPACE Technologies Canada**BOOTH 229**

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www.geospace.com | 403-250-9600

Geo-Steering Solutions Inc.**BOOTH 431**

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www.geo-steer.com | 587-352-2236

Government of Manitoba, Dept. of Mineral Resources**BOOTH 921**

The Government of Manitoba Department of Mineral Resources promotes economic development for Manitoba's petroleum and mineral resources. It administers and governs the disposition of oil and gas rights, mineral rights, exploration, development and production of Manitoba's petroleum and mineral resources. In support of petroleum exploration, the Manitoba Geological Survey Branch conducts regional and detailed petroleum and stratigraphic studies throughout the province.

www.manitoba.ca/petroleum | 204-945-6577

H2 Laboratories Ltd.**BOOTH 129**

H2 Laboratories is a subsidiary of Green Imaging Technologies (GIT), the world leader in lab based analysis of rock core via Nuclear Magnetic Resonance (NMR). Our services offer fast, accurate, non-destructive analysis of rock core samples used by the oil and gas industry in exploration and reservoir characterization. Building on GITs expertise in expanding the suite of measurements that can be done with NMR, H2 Laboratories has the goal of making NMR core analysis accessible to all oil companies, oil service companies and academic institutions, regardless of size.

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Itasca Microseismic and Geomechanical Evaluation (IMaGE), is an initiative that combines microseismic excellence with state-of-the-art geomechanical simulations to offer a new standard in engineering hydraulic fracture treatments for unconventional reservoirs. IMaGE brings together a team of globally recognized technical experts, added to Itasca's leadership in geomechanics, to provide unique microseismic project design, processing and interpretation services. IMaGE products and services allow our clients to extract the

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www.imperialoil.ca

ION Geophysical Corporation

BOOTH 703

ION is a leading provider of technology-driven solutions to the global oil & gas industry. ION's offerings are designed to help companies reduce risk and optimize assets throughout the E&P lifecycle. For more information, visit www.iongeo.com.

www.iongeo.com | 281-933-3339

Journey Energy

Journey Energy Inc. engages in the exploration, development, and production of oil and natural gas in the Western Canada Sedimentary Basin. Journey trades on the TSX under the symbol JOY.

www2.journeyenergy.ca/journeyenergy/ | 403-303-3493

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www.nrcan-rncan.gc.ca | 780-435-7280

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www.nr.gov.nl.ca/nr/energy/index.html | 709-729-0579

Northern Analytical

BOOTH 130

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www.northernani.com | 403-809-1515

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BOOTH 931

The Northwest Territories Geological Survey (NTGS), a Division of the Department of Industry, Tourism and Investment, Government of the Northwest Territories, advances geoscience knowledge of the Northwest Territories for the benefit of Northerners and all Canadians. We do this through the delivery of geoscience research, analysis of mineral and petroleum resources, and by offering excellence in digital data management.

www.nwtgeoscience.ca

NUTECH

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NUTECH is an upstream reservoir solutions company specializing in creating strategies to value, manage, and act on assets in all phases of the reservoir lifecycle. Our strategies are referred to as Reservoir Intelligence and are the result of 15 years of experience and the development of unique integrated processes and proprietary technologies. Our technologies include expertise in petrophysics, completion engineering, core analysis, geological modeling, and reservoir engineering. To date, NUTECH has developed Reservoir Intelligence solutions for clients in every known conventional and unconventional basin.

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OpenGeo Solutions

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BOOTH 629

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<http://www.optasense.com/> | +44 1252 392000

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www.panimaging.com | 306-717-6952

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Petro-Explorers Inc.

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Pro Geo Consultants has been providing technological innovation and expertise to our clients since 1978. Our experience includes well-site Geological Supervision and core and sample studies. Areas of expertise include WCSB, Mackenzie Delta, Beaufort Sea, NWT, Tuk Peninsula, East Coast, and over 20 countries internationally. What's New: Using cost-conscious science, Pro Geo Laboratories & Analytics facilitate precise data generation, interpretation, play imaging and reservoir characterization. Our geological specialists, combined with the most current equipment and techniques provides our clients with the answers to their sample and core questions, allowing them to make informed and timely decisions.

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Pulse Seismic Inc. offers the second largest licensable seismic data library in Canada, covering more than 340,000 net kilometres of 2D data and over 28,264 square kilometres of 3D data. The data library extensively covers the Western Canada Sedimentary Basin and portions of the Northwest Territories, Yukon, Manitoba and Montana. Pulse also offers participation surveys for clients that want to reduce the cost of acquiring seismic data. For more information visit www.pulseseismic.com.

www.pulseseismic.com | 403-531-0259

Qeye Labs

BOOTH 828

Qeye Labs is a geophysical technology company specializing in the science of quantitative interpretation (QI), providing project based consultancy using our proprietary and innovative QI software. Our tailored QI workflows combine descriptive geological disciplines with accurate geophysical measurements to help our clients better understand their reservoirs. The combination of our extensive experience in QI technology development and project execution ensures a seamless transition from idea to solution. Founded in 2012, the company has quickly grown to serve the global oil and gas industry with offices in Europe and North America.

www.qeye-labs.com | 403-978-8393

Quality Microscopes Ltd

BOOTH 120

We are an authorized dealer for Carl Zeiss Canada Ltd and supply new Zeiss microscopes with a specific focus on Geoscience applications; supplying high quality binocular and trinocular microscopes for use on Wellsite and for routine core and drill cuttings examination, with provisions for high quality imaging. We also supply Zeiss compound microscopes for thin section examination and imaging, including polarization and fluorescence capabilities. We accept trade-ins of good quality used binocular and compound microscopes and make fair market offers for Lab surplus disposition of microscopes and Geological equipment. Visit our booth to see the new Zeiss Stereo models.

www.qualitymicroscopes.ca | 403-615-1624

Resolve GeoSciences, Inc.

BOOTH 616

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www.resolvegeo.com | 713-972-6206

Resource Geoscience Western

BOOTH 102

Canada is world-renowned for training and fostering a specialized breed of entrepreneurial geologist-explorers. For more than five decades Western University has mentored some of the world's most successful industry leaders. In 2007, the Department of Earth Sciences and Western launched an ambitious \$22 million dollar project: Resource Geoscience Western (RGW) to meet the demands of the mineral and petroleum industries for a new generation of highly qualified personnel that can reduce investment risks through smarter exploration methods.

www.uwo.ca/earth | 519-661-2111 x89009

RigSat Communications and Gas Detection & Petrocraft Products Ltd. and Geologic Storage

BOOTH 802

RigSat Communications serves the oil patch rental market in Alberta, Northern BC and Saskatchewan. We develop and customize our products to work in harsh and remote areas. We pride ourselves on having the most advanced and low maintenance equipment in the industry. Petrocraft Products Ltd. has served the Oil and Gas Industry in Western Canada for more than 4 decades. Combining knowledge and experience, we offer quality geological and laboratory supplies to companies around the globe. Petrocraft Products Ltd. is a supplier that you can depend on for all your wellsite, geological and laboratory supplies.

www.petrocraft.ab.ca | www.rigsat.com | 403-272-9590

Rocking Horse Energy Services

BOOTH 1002

Rocking Horse Energy Services supplies conventional and wireline retrievable coring services to oil, gas, mining, environmental, and mineral clients. We have the ability to core on any rig, anywhere, and consistently delivering great results. Rocking Horse is an innovative coring company, that can adapt quickly to changes in the scope of work with great results. Our team has beat previous recovery and efficiency records on all new projects, while saving our clients money.

www.rockinghorseinc.com | 403-324-0867

Rockwell Consulting Ltd.**BOOTH 1000**

Rockwell Consulting Ltd. is dedicated to providing high quality, professional well-site supervision and remote geo-steering services with timely reporting and competitive rates. Our well-site geologists are experienced in conventional and unconventional, underbalanced and invert mud systems, for vertical, deviated and horizontal wells. Our final reports have earned the reputation of being some of the most complete and thorough reports in the industry. Developing strong relationships is a priority so we can support the needs of our clients presently and into the future. "Our most valuable partner is our client" Stephan Dragomir, President

www.rockwellconsulting.ca | 403-457-5496

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www.rogii.com | 281-866-1390

Rose & Associates, LLP**BOOTH 1011**

Rose & Associates offers industry-renowned training courses and consulting on prospect risk analysis, play-based exploration and common risk segment mapping, portfolio analysis and unconventional resource project assessment and valuation. Our Microsoft Excel-based exploration risk and resource assessment software tools use our course methods to address: prospect/play definition and resource/chance of success estimation, unconventional resource valuation, portfolio aggregation, and performance tracking and seismic amplitude analysis.

www.roseassoc.com | 713-528-8422

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Roxar, a business unit of global Fortune 500 company Emerson, is a leader in reservoir management software. Their seismic to simulation solution helps operators make informed decisions across the prospect lifecycle on where to drill, what production strategies to adopt, and how to maximize oil & gas recovery from their assets. The result for operators is better decisions, leading to better returns on investment. Placing uncertainty management at the heart of decision-making, Roxar delivers the confidence and understanding that enables operators to enhance recovery and unlock the value of their assets.

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RPS**BOOTH 319**

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rpsgroup.com/canada | 403-265-7226

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www.SableConsultants.com | 403-726-0666

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Saskatchewan Ministry of the Economy**BOOTH 923**

The Petroleum Geology Unit of the Saskatchewan Ministry of the Economy is responsible for researching, compiling, and maintaining information on the geology and hydrocarbon resources of southern Saskatchewan. Available at the booth will be a variety of the Ministry's geological publications. Survey geologists will be in attendance to receive questions from industry clientele.

www.gov.sk.ca | 306-787-0651

Saudi Aramco**BOOTH TBA**

Saudi Aramco is a world leader in integrated energy and chemicals. We are driven by the core belief that energy is opportunity. From producing approximately one in every eight barrels of the world's crude oil supply to developing new energy technologies, our global team is dedicated to creating positive impact in all that we do. We focus on making our resources more sustainable and more useful. This promotes long-term economic growth and prosperity around the world.

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Schlumberger**BOOTH 429**

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www.slb.com | 403-509-4000

Seisland Surveys**BOOTH 916**

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www.seisland.com | 403-255-2770

SeisWare International Inc.**BOOTH 403**

SeisWare International Inc. is a technology company that develops, markets and supports a full suite of geoscience interpretation software. SeisWare seismic interpretation software is a 2D/3D seismic interpretation package, and Recon® is a geological interpretation package featuring advanced Cascade Technology™. SeisWare has offices in Calgary, Houston and Austin and agents in China and Colombia.

www.seisware.com | 403-265-6577

Seitel Canada Ltd.**BOOTH 411**

With over 37,000 square kms of 3D and almost 650,000 linear kms of 2D, Seitel Canada Ltd is Canada's largest provider of seismic data to the Oil and Gas industry. Our Sales and Marketing team, Processing group, web based technologies and data management system ensures accurate and timely delivery from our state of the art Technology Centre. Our Operations group is tasked to deploy our capital, creating new surveys in desirable resource plays and challenging environments throughout the WCSB. Learn more about Seitel Canada by visiting our website www.seitel.com or visit us at booth 411. For more information call 403-515-2800.

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Society of Exploration Geophysicists

BOOTH 805

The Society of Exploration Geophysicists is a not-for-profit organization whose mission is connecting, inspiring, and propelling the people and science of geophysics. SEG, founded in 1930, fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, in characterizing the near surface, and in mitigating earth hazards. The Society, has more than 30,000 members (and growing) in 138 countries, representing 51 sections and associated societies in 31 countries, and over 300 student chapters in 63 countries. We fulfill our mission through our publications, conferences, forums, websites, and other educational opportunities.

www.seg.org | 918-497-5566

Society of Petroleum Engineers

BOOTH 929

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 147 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org.

www.spe.org | 972-952-9393

Society of Exploration Geophysicists

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The Society of Exploration Geophysicists is a not-for-profit organization whose mission is connecting, inspiring, and propelling the people and science of geophysics. SEG, founded in 1930, fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, in characterizing the near surface, and in mitigating earth hazards. The Society has more than 30,000

members (and growing) in 138 countries, representing 51 sections and associated societies in 31 countries, and over 300 student chapters in 63 countries. We fulfill our mission through our publications, conferences, forums, websites, and other educational opportunities.

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Soul of Canada

BOOTH 624

Soul of Canada is a graphic arts, and history research and publishing company based in Alberta. We share our research through many media including the production of history showcase calendars, framed photography, and films. We are producing a series of books about the development of Alberta through the lens of resource extraction, infrastructure development, heavy construction and some of the people that made this happen. We are interviewing families, companies and people in the trades and professions, documenting their stories and contributions to building Canada. We welcome collaboration to pursue these and other Canada 150 related projects.

www.soulofcanada.com | 587-785-4859

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SYSTEM DEVELOPMENT, INC.

BOOTH 118

Over the past 25 years, System Development, Inc. has established a foundation of excellence through the development of products and services for the oil and gas industry. By collaborating with leading geophysical application providers, SDI created versatile viewing, printing, editing and exploration graphics management tools for geoscientists and other industry professionals. SDI now looks forward to the challenge of leveraging emerging technologies to develop new products and capabilities that will benefit our current and future customers.

Www.SDICGM.COM | 713-266-5667

Talisman Energy

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www.talisman-energy.com

The EOR Alliance c/o IFP Canada

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Tourmaline Oil Corp

Tourmaline is a Canadian intermediate crude oil and natural gas exploration and production company focused on long-term growth through an aggressive exploration, development, production and acquisition program in the Western Canadian Sedimentary Basin.

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Trican Geological Solutions

BOOTH 122

Trican Geological Solutions specializes in unconventional reservoir evaluation in the global market place. Reservoirs hold valuable information, from how resources are stored to how the formation will respond to stimulation. From our permanent laboratories in Calgary and Houston to our mobile labs around the world, we provide expert laboratory and field analysis, including drill cuttings profiling and in-depth geological studies. Our reservoir insight, integrated with drilling, completions and well production data, enhances our customers' understanding of their reservoirs and optimizes hydrocarbon recovery.

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University of Waterloo-Department of Earth and Environmental Sciences

BOOTH 126

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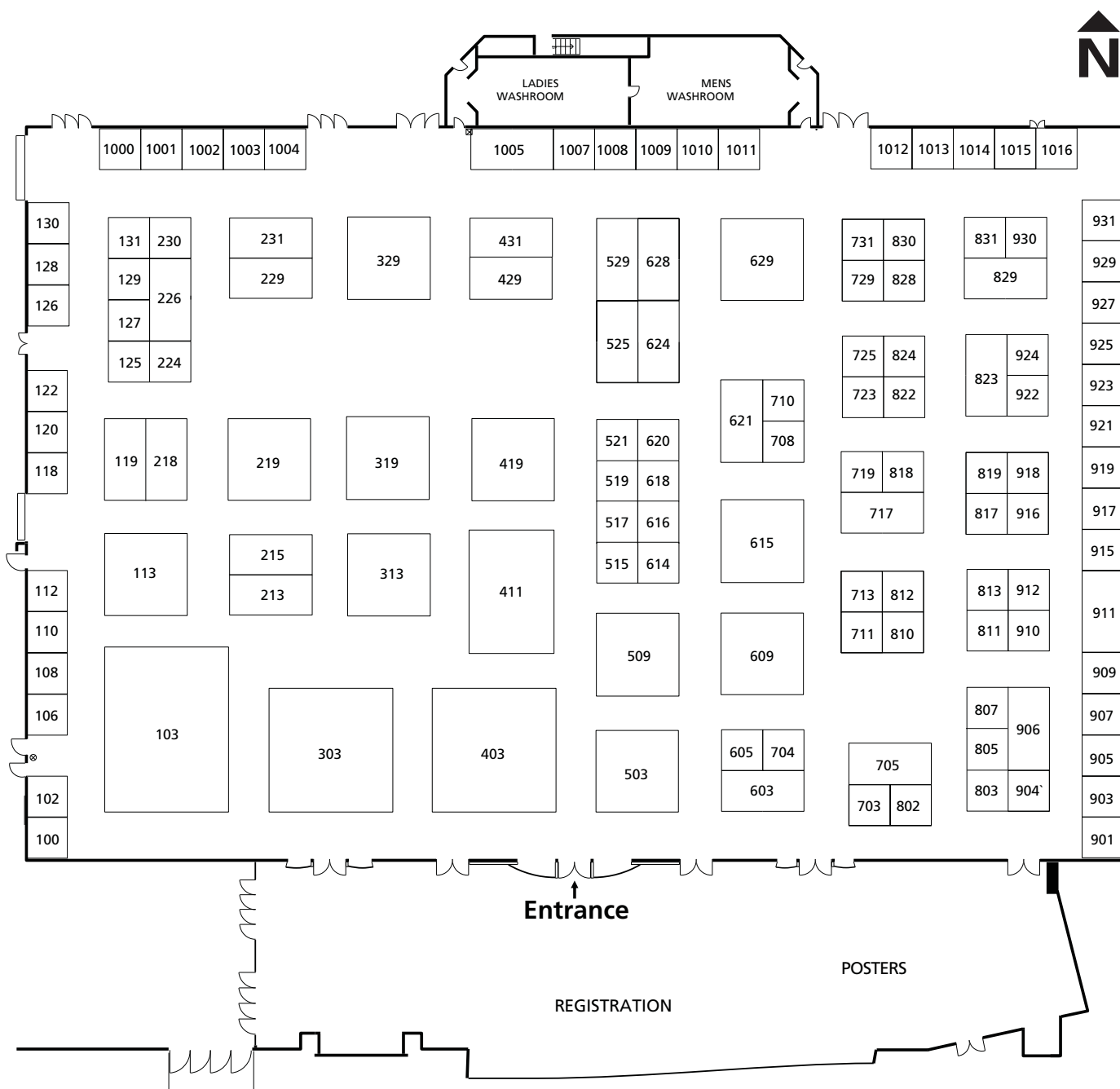
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WellSight Systems Inc.

BOOTH 122

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www.WellSight.com | 1-800-447-1534 / 403-237-9189



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