

MONDAY MORNING

	Back to the Basics: Geophysics Chairs: Dennis Ellison and Nathan Fester	Critical metals and raw materials: research, exploration and production part 1 Chairs: Tania Martins and Lee A. Groat and Robert Linnen	Evolution of northwest Laurentia: Taking stock after fifty years of progress part 2 Chairs: Robert MacNaughton and Karen Fallas, Beth Fischer, David Moynihan	Groundwater Issues Associated with Energy Development part 1 Chairs: Ken Hugo and Erik Quattero and Alanna Felske	Improving geological interpretations through remote sensing, virtual reality, and digital outcrop models Chairs: Janice Allen and Alexander Braun	International Case Studies Chair: Mahhub (Bob) Alam	Machine Learning / AI / Big Data I Chairs: Brian Emmerson and Don MacNeil	Nitrate in Groundwater Chairs: Cynthia McClain and Yefang Jiang	Petrophysics Chairs: Nazmul Haque Mondol and Nasir Rahim	Seismic - Full-Waveform Inversion Chairs: Rafael Sanguinetti and Raul Cova	Seismic Acquisition: Advances and New Tech Chairs: Andrea Crook and Michael Hons	Skill Fundamentals 101 and Case Studies - Geology Chairs: Shelley Leggett and Brian Zaitlin	Volcanology, Igneous Petrology, Geochemistry part 1 Chair: Xueming Yang	Workplace Culture/Diversity Chairs: Alicia Bjarnason and Nadine Pearson
8:35-9:00	What size should my seismic survey be? An examination of surface vs. subsurface area Andrea Crook	Critical Minerals Initiatives at Natural Resources Canada: Ensuring Canada's role in Global Supply Chains Genevieve Marquis	Insights into the age and composition of northern Cordillera basement from crustally derived magmas emplaced across the Selwyn Basin Kirsten Rasmussen	Devonian Aquifer Depressurization at the Keast Mine Sonia Jobidon	Augmenting Geological Field Mapping and Interpretation with Real-Time 3D Digital Outcrop Modeling Callum Walter	Hydrocarbon Maturity Assessment of the Morondava Basin, Offshore Madagascar Fouad Faraj	Machine learning as a tool to predict the mass of oil from well logs Marcelo Guando de Andrade	Major hydrochemical processes controlling groundwater quality deterioration in the coastal aquifer of Taleza, Algeria Lamine Boumazza	Exploring in the archives - structure, stratigraphy, and stress from public dipmeter and borehole image logs Kris Vickerman	Full waveform inversion of multimode surface wave data: numerical insights Raul Cova	Inversion-based deblending using Radon transform Amr Ibrahim	The Role of Geomodeling in the Multi-disciplinary Team David Garner	Where curling collides with rock physics: Characterizing the damage evolution of curling stones Derek Leung	Habit Patterns that Lead to Long-Term Success in a Diverse Workplace Karens Brawley
9:00-9:25	Optimal Seismic Wave Field Sampling: A Wave Number Approach to Acquisition Fundamentals Easton Wren		Deep-water first occurrences of Ediacara biota prior to the Shuram carbon isotope excursion in the Wernecke Mountains, Yukon, Canada Thomas Boag		Unmanned Aerial Vehicle (UAV) Radiation Anomaly Detection and Possible Applications in Mineral Exploration Kiyavash Parvar	Silurian succession from North Africa - Sedimentology and thermal history for a new era of hydrocarbon exploration Hocine Djouder	Accounting for Uncertainties in Neural Network Predictions to better assist Petrophysicists in Grain Size Interpretations Florian Basler	Nitrate occurrence in groundwater of Alberta, Canada Cynthia McClain	Virtual Petrophysical Laboratory - Part1: Modeling and Visualization Leon Fedenczuk	Full waveform inversion with unbalanced optimal transport distance Da Li	Innovative high trace density survey design for broadband land seismic data acquisition: insights and lessons learned for Symphony (D5A) and Compressive Seismic Imaging Howard Watt		Convergent margin origin of Neoproterozoic anorthosite-bearing layered intrusions in the Superior Province, Canada Ali Polat	Operation Minerva Calgary - Over 30 years of Success in STEM Advocacy Alicia Bjarnason
9:25-9:50	What's the Datum Jason Noble	Evaluating Muscovite as an Indicator mineral for lithium bearing pegmatites, Wewusko Lake pegmatite field, Manitoba, Canada David Benn	Chemostratigraphy of the Ediacaran Gametrail Formation across a shelf-slope transect in the Wernecke Mountains, Yukon, Canada James Busch	Investigating the Origin of Elevated H2S in Groundwater Discharge from Abandoned Gas Wells, Norfolk County, Ontario Richard Jackson	Using a Simulated Horizontal Well to Investigate a 3D Geological Model from the Alberta Fold and Thrust Belt Andrew Newson	Sedimentary model of a Permian-Triassic salt giant in the Peruvian fold-and-thrust belt Emilio Carrillo	A Geological and Petrophysical Data Driven Approach for Reservoir Reserves Estimation Emmanuel Ibdunmoye	Nitrate changes in shallow groundwater in the Batterssea Drain area Jacqueline Kohn	Core Calibration of Log Derived Petrophysical Models for the Characterization of Source-Rock Reservoirs Chad Hartman	Direct elastic FWI updating of rock physics properties Qi Hu	A Comparison Of 3D Multi-Component (9C) Data Image Volumes Acquired With Conventional and Simultaneous Source Techniques (KWP Phase II) James W. (Tom) Thomas	3D geomodeling and applications in Oil Sands reservoirs and Tight Oil reservoirs Weishan Ren	Unravelling the Geochemistry and Tectonic Setting of the Eocene Summerland Volcanics, British Columbia, Canada Tharwa Saleh	An Update on APEGA's activities investigating & addressing the Barriers Women Face in the Engineering and Geoscience Workplace Alicia Boyle
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS													
10:35-11:00	Depth Imaging - Above and Beyond Reflections. Why and How of your PSDM project. Svetlana Bidikhova	Cesium Deposits Bruce W Downing	Getting the Wind(er)merre) at our Back(bone): Clarifying Fifty Years of Ediacaran-Cambrian Confusion in NW Canada Robert MacNaughton	Marten Hills Clearwater Formation - Controls on Oil Quality Tessa Wilson	Exploring in Asia for Oil and Gas in Naturally Fractured and Weathered Basement Reservoirs Tako Koning	Creating and leveraging large, digital stratigraphic datasets by using stratigraphic section digitizers Daniel Coultts	Nitrate in shallow groundwater at CFOs in south and central Alberta Mike Iwanyszyn	Characterization and Petrophysical Rock Typing of a Reservoir in the Coastal Swamp Depobelt. Eloeghene Enaworu	Using targeted full waveform inversion uncertainty quantification to understand acquisition requirements Scott Keating	Is there Value in Acquiring Higher Trace Density Seismic? Jason Schweigert	Petrography: A Brief History of Rock Imaging and Current Applications to Unconventional Reservoir Characterization Lyn Canter	Volcanic reconstruction of Neoproterozoic volcanic rocks of the Sunset Lake area, Beaulieu River greenstone belt, Slave craton, NWT Shelby Austin-Fafard	The Aftermath of Bill C-69 - How to conduct GBA+ Impact Assessments Marcie Hawranik	
11:00-11:25	A Microseismic Primer Paige Mamer	Uncertain paragenetic origins of disseminated submicroscopic zircon from the Nuiklavik Volcanics, north-central Labrador Taylor Ducharme	Deposition and hiatus in the lower Paleozoic epicratonic basin of NWT Elizabeth Turner	Risk-Based Approach to Site Management and Remediation Sami Morgan		Evaluating Well Completion Design in the Viking Formation using a Data Driven Approach Luisa Porras	Data and Modelling Analysis Considerations for Nitrate Plume Assessment in Alberta Tills Paul Martin	Mineralogy analysis of Jurassic reservoir sandstones using wireline log data in the northern North Sea Manzar Fawad	Full waveform inversion of distributed acoustic sensing strain data Matthew Eaid	METIS: Flying Carpets John Archer		Constraints on the origin of intrusion breccias: Observations from the Paleoproterozoic Boundary Intrusions in the Flin Flon area Kevin Ansdell	Oil & Gas Sector's Response to the New Extended, 61-Week Parental Leave Rachael Pettigrew	
11:25-11:50	Rock-Physics Models - A Tutorial Carl Reine	Helium occurrences and lithium brine potential in the Williston Basin, southwestern Manitoba Michelle Nicolas	Cambrian Correlation: the use of quantitative biostratigraphy as a test of the traditional trilobite biostratigraphic framework Chad Morgan				Tracing the sources and fate of nitrogen at gold mine sites using stable isotopes of nitrogen and water Rihem Jaldi	Machine learning-based Vs prediction Nazmul Haque Mondol	A case study in the Delaware Basin: Application of Time-Lag FWI and 3D SRME/IMA multiple attenuation Dongren Bai	A Fresnel based survey design approach Michael Hons				
11:50-12:15	Computation of anisotropic elastic moduli for muscovite and clay minerals Venkatesh Anantharamu	Investigating the Lithium Potential of Brines in Saskatchewan: New Results from Brine & Core Sampling Gavin Jensen	The Road River Group of northern Yukon, Canada: Early Paleozoic deep-water sedimentation within the Great American Carbonate Bank Justin Strauss				What caused pervasive groundwater nitrate contamination in Prince Edward Island: fertilizer or forage legume? Yefang Jiang		High-resolution Full Wavefield Inversion model building in deep-water environment: A case study in the Orphan basin. Eric frugier	Sensor Placement Optimization for Seismic Data Acquisition and Shot Reconstruction Yi Guo				

MONDAY AFTERNOON

	Critical metals and raw materials: research, exploration and production part 2 Chairs: Tania Martins and Lee A. Groat and Robert Linnen	Emerging Seismic Technology Chairs: Robert Gunning and Svetlana Bidikhova	Evolution of northwest Laurentia: Taking stock after fifty years of progress part 2 Chairs: Robert MacNaughton and Karen Fallas, Beth Fischer, David Moynihan	Geomodelling: Uses Beyond Reservoir Understanding Chairs: Alexandra Ashrafi and Matt Minnett	Geoscience Teaching & Learning: Application of Creative Teaching for Effective Learning Chairs: Rudi Meyer and Brandon Karchewski	Groundwater issues associated with energy development part 2 Chairs: Ken Hugo and Erik Quattero and Alanna Felske	Integration of GIS Technology Chairs: Alyson Birce and Chris Harrison	Machine Learning / AI / Big Data II Chairs: Anton Biryukov and Volodymyr Vragov	Oil Sands and Integrated Oil Sands Case Studies Chairs: Sahar Ghannadi and Calin Dragolea	Rural groundwater issues Chairs: Jana Levison and Elisha Persaud	Seismic Inversion Chairs: Marissa Whittaker and Carmen Dumitrescu	Skill Fundamentals 101 and Case Studies - Geophysics Chairs: Kathleen Dorey and David Gray	The Uranium Fuel Cycle, Nuclear Energy and Climate Change	Volcanology, Igneous Petrology, Geochemistry part 2 Chair: Xueming Yang
1:25-1:50	Global critical metal resources: what we know, what we need to know, and implications for the Canadian critical metal sector Simon Jowitt	Deblending and ambient erratic noise removal via iterative robust singular spectrum analysis Rongchi Lin	Paleoceanographic signals imprinted in the Middle-Late Devonian black shales of GEM Mackenzie Project area (N.W.T.) change perception of the Middle Paleozoic Ocean and sea level fluctuations Pavel Kabanov	Hybrid Intelligent Algorithm for Permeability Estimation Based on Particle Size Distribution and Porosity Data Vahidodin Fattahpour	Do digital mapping tools improve student understanding in the field? - Lessons from a pilot project Rudi Meyer	Migration and dissolution of stray gas in shallow groundwater: a high-resolution laboratory investigation Kevin Mumford	MAPPING OF FISH BIOMASS OF LAKE MALOMBE FOR SUSTAINABLE FISHERIES MANAGEMENT MEXFORD MULUMPA	Demystifying Machine Learning Brian Russell	Methanotrophic Bacteria in an Oil Sands End-Fit Lake, and their Potential Contribution to Naphthenic Acid Degradation Felix Nwosu	Use of the artificial sweetener acesulfame to evaluate variability in septic system effluent contributions to streams Clare Robinson	Effective Porosity and Gamma Ray Estimates from Seismic Data Fred Peterson	Prestack Inversion Fundamentals: Practical Considerations for Success Laurie Weston	Use of SKUA-GOCAD 3D/4D models for exploration in the Athabasca Basin and surrounding area: some case studies (Moore Lakes, Fraser Lakes, McArthur River, Alices Lake) Irvine Annesley	Old zircons in Hawaiian xenoliths constrain mantle chemistry, evolution and convection models. John Greenough
1:50-2:15		Identification of duplex waves from vertical basement faults, Fox Creek region, Alberta: Implications for a basement rooted regional flower structure Eneanwan Ekpo Johnson	From bank to basin: carbon isotope chemostratigraphy and redox geochemistry of co-eval carbonates and shales of the Middle-Upper Devonian Ramparts and Canal formations, Mackenzie Valley, N.W.T. Cecilia Endrigo	Geomechanics of underground gas storage: A case study from Molasse Basin South Germany Muhammad Zain Ul Abedin	3D-printed models: new tools for teaching 3D visualization of subsurface geology Merilee Reynolds	Multi-phase numerical modelling of fugitive methane emissions in shallow aquifers Kenza Bouznari	Modeling Copper Potential - Comparing a Web-GIS and Desktop-GIS Methods Nadia Cairra	Theory-guided deep learning for reservoir characterization Jonathan Dowdton	Machine generated curvilinear geological structures extracted from magnetic data in the Fort McMurray oil sands area of Alberta using 2D structure tensors HASSAN HASSAN	Database Utilization to Manage and Maintain the Integrity of Rural Water Supplies Brent Morin	Modified Stochastic Inversion (MSI) Anastasya Tetei		Using Fuzzy Logic and Geological Testing to Site a Small Modular Reactor in Southern Saskatchewan Matt Thompson	Multistage, magmatic and hydrothermal evolution of the Debert Lake Rare Earth Element Prospect (REE), Nova Scotia, Canada Lutfi Ersay
2:15-2:40	The Role of Deep-Seated and Multiple Structural Controls on the Emplacement of High Concentration of Monazite, Alices Lake Property, Northern Saskatchewan, Canada James Sykes	Processing of DAS and geophone VSP data from the CaMI Field Research Station, Newell County, Alberta Don Lawton	Middle-Upper Devonian conodont faunas and biostratigraphy of the Horn River Group in the northern Mackenzie Mountains and Plain (NWT, Canada) Sofie Gouwy	Electrofacies, a guided machine learning, as a foundation for improving facies logs for the practice of geomodeling David Garner	Catalyzing Undergraduate Education: Developing a Lab Manual in Forensic Geology Gabriel Greenberg	Using Pressure Transducers at Varying Depths to Determine Aquifer Parameters and Gas Flow Effects in Water Wells Ken Hugo	GIS Analysis of Porosity and Permeability Variations in the Silurian Lockport Group, Southwestern Ontario Shuo Sun	Automation of logging through the lens of machine learning and computer vision Shervin Azad	The Investigation of Fluid Flow in the Fissured Clearwater Shale Using 3D Numerical Approach - Case Study of Joslyn Creek SAGD Project Alreza Khani	Mining of a Large Dataset to Investigate E. coli Contamination in Private Drinking Water Wells Katie White	Reservoir Characterization of Upper Mannville estuary Formation using a Rock Physics based Probabilistic Inversion Fenglin Xia	Inversion Fundamentals - Case Study Carl Reine	Deformation bands and their relationship to faults associated with unconformity-related uranium deposits: a case study and comparison of the CI and WS fault zones in the eastern Athabasca Basin Arian Kitchen	Volcanological Context and Setting of the Crownsnest Formation, Alberta. A Cataclysmic Event? Robin Adair
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS													
3:20-3:45	Solubility of monazite in granitic melts and the role of liquid-liquid immiscibility in concentrating REE Marieke Van Lichtervelde	Radon-based deblending via Robust Matching Pursuit Ji Li	Late Triassic conodonts from the Wrangell and Sitkine terranes in Alaska, Yukon, and British Columbia Martyn Golding	Direct estimation of SAGDable volumes from geological models using oilands net pay connectivity criteria for ranking and planning David Garner	Merging Earth Science with Environmental Education for Teachers through Inquiry, Constructivist and Place-based Learning Frank Ma	Investigating the long-term effects of thermal recovery operations on arsenic in groundwater Cassie Stead	Using open source technologies to improve spatial data analysis and access for geologists Tyler Pubben	4-D Time Lapse Full Waveform Inversion Case Study for SAGD Steam Chamber Imaging Anthony Kay	Fresh Water - Salt Water Boundary in the Carbonate Aquifer, South of Winnipeg, Manitoba Muhammad Iqbal	Trans-Dimensional multimode surface wave inversion of DAS data at the CaMI-FRS Luping Qu	Using seismic data to find producible fractures David Gray		Onset of the mid-Cretaceous magmatic and orogenic culmination of the Canadian Cordillera is recorded by the Murray dyke swarm, southwest British Columbia Anastasia Oglhoff	
3:45-4:10	Evidence supporting the role of late-stage post-magmatic chaos in the formation of rare-metal pegmatitic ore systems Daniel Kontak	W-net: A Dual-domain Deep Learning Model for Image Reconstruction Roberto Souza	Deformation events of the northwest Laurentian margin, Neoproterozoic to Eocene Karen Fallas	Effective Pressure Coefficient of Porosity and the Meaning of the Biot Coefficient Gautier Njiekak	Place-based Learning Using Google Earth in an Introductory Geoscience Class Jennifer Cuthbertson	Overview of a project aiming to assess environmental impacts of oil and gas activities in the Fox Creek area (AB) Christine Rivard	Incorporating time shifts and rock physics for model updates in 4D inversion Carl Reine	Shallow Groundwater Characterization and Contamination Management in a Rural Setting: What to do Bonnie Derksen		Predicting reservoir properties using neural networks Jonathan Downton			The granulite-TTG connection in the Neoproterozoic Kapuskasing uplift, Canada Jillian Kendrick	
4:10-4:35		Rapid-repeat time-lapse seismic monitoring of CO2 injection Kris Innanen		Mitigating Risk on Well Placement by Volumetric Simulation of Well Drainage and Frac Shadows Rocky Mottahedeh	Simulation-based Training: Building the Future Geoscience Workforce Ellie Ardakani		Innovation in Enhanced Oil Recovery: Monitoring of Unconventional Reservoirs using Muon Tomography Sara Pieczonka	Nutrient retention potential of prairie filter strips on marginal lands within conventional farms Daniel Noble		Machine learning and geophysical inversion Brian Russell				
4:35-5:00		Unlocking Frequencies of the Brain with Deconvolution Julie Atken		3-D Geological and Hydrogeological Modelling of the Bedrock Geology of Southern Ontario Terry Carter	The CSEG Foundation Outreach Programs: another approach to enhancing effective learning Mike Finn			Understanding groundwater contamination risk and the potential implications of changing watershed conditions Elisha Persaud						
5:00-5:25		Cloud Computing: New Era for Industry Akshay Gulati												
5:00-6:30	NETWORKING AND VIRTUAL TEAM PURSUIT													

Accurate as of September 2, 2020

TUESDAY MORNING

	Applied Structural Geology and Tectonics in the Evaluation of Petroleum Systems Chairs: Catherine Huff and Elena Konstantinovskaya	Approaches for Developing Integrated Geological Site Models Chairs: Andrew Parmenter and Aaron DesRoches and Martin Sykes	Duvernay Chairs: Marco Venieri and Levi Knapp	General Hydrogeology Chairs: Cathy Ryan and Cynthia McClain	Geophysical Constraints on Geological Structures and Processes Chairs: Mostafa Naghizadeh and Ian Ferguson	Global Carbon Capture, Storage, Utilization, Monitoring and Mitigation part 1 Chairs: Anne Halladay and David Hills	Groundwater in Mountain Regions Chairs: Diana Allen and Masaki Hayashi	Latest advances in geothermal exploration and development in Canada part 1 Chairs: Stephen Grasby and Grant Ferguson	Meeting groundwater resource management challenges part 1 Chairs: Edwin Cey and Jon Jones and Gordon MacMillan	Mineralogy and Crystallography Chairs: Mashrur Zaman and Ehsan Daneshvar	Montney Reservoir Characterization Part 1 Chairs: Andrew Nerson and Victoria Biersteker	Quaternary stratigraphy of Canada, in honour of Earl Christiansen Chairs: Daniel Utting and Roger Paulen	Sedimentology, stratigraphy and paleontology Chairs: Erin Pemberton and Sean Fletcher Bidkhova	Seismic Processing part 1 Chairs: Aaron Stanton and Svetlana Bidkhova	The Geology of Mineralization: From Fluids and Melts to Economic Ore Deposits Chairs: Matthew Steele-Macinnis and Pilar Lecumberri-Sanchez, Wyatt M. Bain, Vanessa Elongo, Ben Tutolo, and Simone Pujatti
8:35-9:00	The Geometry of Hydrocarbon Fields in Fold and Thrust Belts, with Analogues from the Western Canadian Cordillera Andrew Newson	Using DFN models to improve ground control through wedge identification and hazard mapping William Junkin	Sequence stratigraphic analysis of the Duvernay Formation shale, Kaybob area, Alberta Daniel Shaw	A coupled remote sensing and modeling method for delineating groundwater discharge zones in eskers BRAHIM MAYLAL	Integrated Geophysical Imaging of the Western Superior Province, Canada Mostafa Naghizadeh	Solid Carbon: A Climate Mitigation Partnership Advancing Stable Negative Emissions Curtis Evans	Exploring the relationships between groundwater processes and properties of surficial deposits in the Canadian Rockies Jesse He	Williston Basin Geothermal Power Project Development Kirsten Marcia	Climate-Change Effects on Groundwater Recharge in the Prairies Amro Negr	Direct precipitation of Magnesite in the Cariboo Plateau Lakes, B.C. and Coorong Lakes, Australia Maija Raudsepp	First-Time Characterization of Black Shaly Facies along a Full Montney Core: Lithofacies Controls on the Distribution of Primary Organic Matter Daniela Becerra	Early Attempts in Understanding the Glacial History of Western Canada Nat Rutter	The Stratigraphy Machine Andrew and Miall	Migration with surface and internal multiples Shang Huang	New Multi-Parametric Datasets Define Structural Controls on Mineralization in the Pine Point Mining District, Northwest Territories, Canada Zachary McDougall
9:00-9:25	Methods of Estimating Fracture Abundance and Size from an Image Log in the Horizontal Cardium Well, Perist Oil Stoberg 10-11-42-15, in the Alberta Fold and Thrust Belt Charles Berg	Stochastic simulation of fracture zone and rock mass properties in groundwater models Stefano Normani	Clay minerals in black shales - an example from the Upper Devonian Duvernay Formation, Western Canada Sedimentary Basin Nicholas Harris	Improvement in understanding fractured bedrock groundwater vulnerability to road salt using high-resolution monitoring approach Mansour Salek	Sources of enhanced conductivity in the Northern Canadian Cordillera: constraints from LITHOPROBE SNORCLE Transects Ian Ferguson	Hydrocarbons with Ultra-Low Carbon Footprint: CCUS and Gasification of Deep Coal Seams Michael Blinderman	Characterization of Aquifer-Stream Systems and Preliminary Groundwater Drought Indicators in the Okanagan Basin, BC April Gullacher	Renewing and Rethinking the University of Regina Geothermal Test Well Project of 1979 Janis Dale	Reporting on the State of Aquifers in BC Amy Stoma	Radionuclides in zircon and monazite: implications to age dating and mining Mashrur Zaman	Preliminary Assessment of Reservoir Damage by Aphaltene Precipitation and Migration in Producing Montney Marc Bustin	The Relative Roles and Recognition of Consulting Industries versus Government in Surficial Geology and Geohazard Mapping Dennis O'Leary	Sophisticated Stratigraphy - How we got here Andrew Miall	Sparse inversion based deblending in CMP domain using Radon operators Kai Zhuang	The control of anhydrite sulfidation on the stockwork mineralization in the TAG mound Simone Pujatti
9:25-9:50	Using plate tectonics to understand the misunderstood Eocene source rock and climate change mechanism Lisa Neville	Development of a Hydrogeologic Database for Fractured Crystalline Rock Settings in the Canadian Shield Andrew Snowdon	Integrated interpretation; using seismic data to de-risk the Duvernay Formation Ronald Weir	RAMP lakes in northeastern Alberta - Evidence of potential for groundwater and surface water interaction Francisco Castrillon Munoz	Seismic Stratigraphy of Liard Basin NEBC Jennifer Leslie-Panek	Building Canadian CCUS - EOR Expertise for the 2020's. James Stirling	Alpine hydrogeology in a mining landscape Igor Pavlovskii	Alberta No. 1 - the Province's first conventional deep geothermal power project Catherine Hickson	Managing groundwater resources in Yukon Brendan Mulligan	Oscillatory zoned liddicoatite from Anjanabonoina, Central Madagascar: characterization of trace element variation by LA-ICP-MS Aaron Lussier	The Northeastern BC Montney Tight Oil Play: Potential and Challenges Tristan Euzen	Ice Sheet Sensitivity to Basal Processes in Idealized North American Glacial Cycles Matthew Drew	Deciphering controls on deep-water sediment routing systems along convergent margins: Leveraging basin-wide chronostratigraphic data in the Nanaimo basin. Daniel Coultts	RTM of a distributed acoustic sensing VSP at the CaMI Field Research Station, Newell County, Alberta, Canada Jorge Morsegny	Geological Mapping, Structural Setting and Archean Volcanic Rocks of Mnanka Area, North Mara Ezra Kavana

9:50-10:35 COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS

10:35-11:00	Tectono-stratigraphy, Structural Development and Hydrocarbon Potential of Khairpur-Jacobabad High (KJH), Lower Indus Basin, Pakistan - An Overview Based on Seismic and Well Data Muhammad Akram	Developing an integrated geological model for siting a deep geological repository: An example from the Revell Batholith in Northwestern Ontario Andrew Parmenter	A hybrid approach to geomechanical property prediction in the Duvernay Marco Venieri	Factors affecting seasonal response of groundwater levels to depression-focused recharge in bedrock wells Polina Abdrakhimova	Elastic depth trends for siliciclastic sequences Jeremy Gallop	Unconventional opportunities for carbon dioxide storage in the Athabasca Region Kirk Osadetz	Assessing the Hydrogeologic Conditions of Flowing Artesian Bedrock Wells in the Okanagan Basin, British Columbia Brynje Johnson	Geothermal Resource Characterization of the Middle Devonian Carbonate Reef Reservoir at Clarke Lake Field, Fort Nelson, B.C., Canada Matthew Minnick	Community-Based Monitoring for Water Resource Management Christina Trotter						The Early Cretaceous in the Richardson Mountains (Northwest Territories, Canada): palynological insights on the tectono-stratigraphic architecture of the Canadian Arctic mainland Emily Elifson	Multi-component accelerometer and geophone comparison to fibre-optic (DAS) data Kevin Hall	Comparing 4 Exploration Projects with the 9 large Historic gold deposits in Southern British Columbia using Median element values and Outliers, in selected Groups of public Stream Sediment (Silt) data William Howard
11:00-11:25	Geo-mechanical Modelling based on Elastic Dislocation (ED) for prediction of Fracture Network characteristics, density & orientation in complex compressional regime of Upper Indus Basin of Pakistan and comparison with FMI logs Imran M. Akram Khan & Farzeesh Fracture systems in the Perist Formation and Devonian carbonates, Roche Miette, Jasper National Park: evidences of thrust-related deformation and implications for fluid migration Elena KONSTANTINOVSKAYA	The utility of geochronology in constraining hydrogeological models: the application of U-Pb absolute ages to resolve timing of fluid flow in the Michigan Basin in southern Ontario Chelsea Sutcliffe		Calgary Zoo Flood Mitigation: Groundwater Management and Dewatering an Island Neal Barretto	A unified 3D pore pressure and lithology model for a structurally complex reservoir Draga Talinga	Cation exchange: a new strategy for mineral carbonation of smectite-rich kimberlites Nina Zeyen	Integrated Surface Water and Groundwater Modeling for Streamflow Restoration and Climate Change Assessment in a Mountain Basin Watershed in Eastern Washington State Dirk Kassenaar	Bedrock fracture study of the Mount Meager Area: implications to geothermal reservoir characterization Stephen Grasby	Consolidating 25 years of GSC groundwater studies in glaciated terrain Hazen Russell						Meander-bend migration style controls bar type and resulting heterogeneity Paul Durkin	Monoclinic ray trace synthetics Scott Leaneay	Geochemical and chronological relationships between magnetite-spilite (MnA) and iron oxide-copper-gold (IOCG) mineralization Laura Mateo
11:25-11:50	Fracture systems in the Perist Formation and Devonian carbonates, Roche Miette, Jasper National Park: evidences of thrust-related deformation and implications for fluid migration Elena KONSTANTINOVSKAYA			Hydrogeologic Considerations of Low Impact Development Blake Hiebert	Delineation of hydrothermal dolomite on Cape Donovan, Southampton Island, Nunavut, Canada using magnetotellurics Ian Ferguson	The Greenhouse Gas Emissions Coverage of Carbon Pricing Instruments for Canadian Provinces Jennifer Winter	Nazca Lines May Indicate Groundwater Flow in Faults David Bethune	Geothermal drilling and well completions in comparison to oil and gas practices in low temperature (Catherine Hickson)	Assessing the impacts of mine dewatering on the hydrogeochemistry of peatlands and surficial aquifers Marwa Kraouala						Integrating Seafloor and Outcrop Observations of Upslope-Migrating Bedforms to Refine Interpretations of Deep-Water Stratigraphy Rebecca Englert	Seismic illumination analysis through physical modeling Nasser Kazemi	Deep structural features in prospectivity mapping for hydrothermal-type gold deposits/showings in the Red Lake-Stormy region, Superior Province Farham Adiban
11:50-12:15									Contaminants from an old closed landfill impacting an urban stream Victoria Propp						Coeval Deposition and the Implications for Sequence Stratigraphic Correlations in a Structurally Controlled Area of the Viking Formation Sarah Schultz	Offset-to-angle calculations for PS data Charles Ursenbach	

TUESDAY AFTERNOON

	East Coast Canada Chairs: Catherine Huff and Ivan Pasechnik	Environmental and Groundwater Applications of Geophysics Chairs: Rachel Lauer and Paul Bauman	Evolution of the Canadian Arctic Geodynamic models and the potential for resources Chairs: Keith Dewing and Elizabeth Turner	Geoscience and Society Chairs: Jennifer Cuthbertson and Stacia Skappak	Global Carbon Capture, Storage, Utilization, Monitoring and Mitigation part 2 Chairs: Anne Halladay and David Hills2	Latest advances in geothermal exploration and development in Canada part 2 Chairs: Stephen Grasby and Grant Ferguson	Lithospheric deformation: from terrane accretion to continent collision Chairs: Eva Enkelmann and Will Matthews	Machine learning applications for subsurface characterization Chairs: O and Bahaa Beshry	Meeting groundwater resource management challenges part 2 Chairs: Edwin Cey and Jon Jones and Gordon MacMillan	Montney Reservoir Characterization Part 2 Chairs: Krista Beavis and Ian Kirkland	Sediment transport in alluvial rivers and streams: implications for contaminant migration pathways Chairs: Andrew Binns and Scott Gardner	Seismic Processing part 2 Chairs: Aaron Stanton and Svetlana Bidkhova	Uncertainty, Risk and Decision Making Chairs: Alexey Romanov and Thomas Jerome	Unconventional Plays: Improving Performance and Efficiency through Integration Chairs: Julia McElgunn and Sochi Iwohala
1:25-1:50	MLA-SEM analysis of well cuttings - a new tool for inter and intra-well correlations Derek Wilton	MONITORING GROUNDWATER DYNAMICS WITH TIME-LAPSE GRAVITY GRADIOMETRY: FORWARD MODELLING Mert KARANFIL	Evolution of the Mesoproterozoic Borden basin, Nunavut: sags, rifts, lakes, and forelands in a major zinc district Elizabeth Turner	GS's Geo-mapping for Energy and Minerals program (GEM): 12 years of Northern Geoscience Carl Ozyer	Ambient noise correlation study at the CaMI Field Research Station, Newell County, Alberta Marie Macquet	Coupled Thermo-Hydro-Mechanical (THM) model for Geothermal Energy Extraction from Fractured Rock Masses Maurice Dusseault	Complex magmatic arcs and syn-magmatic sedimentation in Cape Breton Island NS; challenges in geological mapping and geochronology of highly compressed accretionary margins. Deanne van Rooyen	Estimation of Acoustic Impedance from Seismic Data in Well-log Resolution Using Machine Learning, Neural Network, and Comparison with Band-limited Seismic Inversion Ryan Mardani	Including subsurface drainage in hydrological models using seepage nodes to improve surface and groundwater flow simulations Vinicius Boico	Link between sedimentary fabric and fracture distribution of the Montney - key insights from a world class outcrop using UAV photogrammetry Simon Poirier	Sediment transport and particulate-sorbed contaminant redistribution pathways in alluvial rivers and streams Andrew Binns	Cleaning up first arrivals in the cross-spread domain Stewart Trickett	THE USE OF SEISMIC TECHNOLOGIES IN REDUCING UNCERTAINTY IN THE ESTIMATION OF RESERVES AND RESOURCES; APPLICATIONS OF 3D, 4D SEISMIC AND MICROSEISMIC TO THE SEC, NE-S1, 101 AND PRMS EVALUATIONS Jeff Aldrich	Play-scale analysis of wastewater production from unconventional oil and gas wells Ashkan Zolfaghari
1:50-2:15	Detrital zircon U-Pb and fission-track double-dating of Jurassic to Cretaceous reservoir sandstone units in the Jeanne d'Arc basin, offshore Newfoundland Emily Johns-Buss	Integration of Frequency-Domain AEM, Surface Geophysics and High-Resolution Coreholes to Support Regional Hydrogeologic Conceptualizations Colby Steelman	Demise of the Ordovician carbonate platform in the Canadian Arctic Islands. Keith Dewing	REDEVELOP: Training the next generation of science and engineering leaders and policy makers to change public perception of Canada's energy sector Celia Kennedy	CO2 reservoir monitoring with a permanent seismic source (ACROSS) and DAS at the Aquistore CCS site Masaru Ichikawa	Thermo-hydro-mechanical (THM) modeling of borehole breakouts for in-situ stress determination in geothermal exploration Shunde Yin	The role of crustal recycling during the assembly of the supercontinent NUNA: Geochemical and isotopic constraints from felsic magmatism in the Makkovik Province, Labrador. Alana Hinchey	Self Organizing Maps Applied to Seismic Attributes as a Tool to Improve Stratigraphic Resolution Carolann Loudon	Using Multimodel Predictions for Groundwater Management Gordon MacMillan	Liquids in the Lower Montney: Investigations Using Fluid Dynamics Data Allison Gibbs	Sediment Transport in Skewed Kinoshita Meandering Channels: Implications for Contaminated Sediments David Nguyen	Spectrum-preserving internal multiple elimination and its application to a 3D land dataset Juefu Wang	Evaluating The Impact of 3D Seismic in Unconventional Resources James Gouveia	Using Discrete Hydraulic Fracture Simulations to Inform Stimulation Optimization in the Montney Stephen Rogers
2:15-2:40	An understanding of effectiveness of a multidisciplinary approach on sandstone reservoir studies, Example from Grand bank offshore Newfoundland Ehsan DANESHVAR	Commissioning an Electrical Resistivity Imaging System for Long Term Seepage Monitoring at a Dam Abutment Daniel Boulay	A regional mineralizing fluid in the Cornwallis Zn-Pb district, Arctic Canada Jordan Mathieu	Curling rock physics and smartphone rotation data Scott Leaneay	Quest CCS Facility: Microseismic Observations Stephen Harvey	Subsurface Characterization Methods for Multilateral Closed Loop Geothermal Systems. Case Study of Field Scale Technology Demonstration Project in Alberta, Canada Jeanine Vany	Towards a kinematic model for Iapetus Ocean closure John Waldron	An Approach to Rock Typing and Subsurface Reservoir Characterization: Case Study of a Conventional Reservoir in "GB" Field Eleoghene Enaworu	Numerical Simulation of Canadian Shield Lake Hydrological Processes under Future Climate Scenarios James Harris	Multidisciplinary integration to reveal compartments and leaking zones in the Montney by combining gas chromatography coherency indexes and cuttings compositions Jean-Yves Chatellier	Characterization of Nutrient and Sediment Transport within a Clay Basin Scott Gardner	A new time-varying gain limits inverse Q filtering with the continuous compensation function Jianguo Yan	Reserves Volumetric Estimations. Mapping vs. Geomodeling: Review of these two Approaches, their Pros and Cons, the Recommendations from the COGEM and the SPE-PRMS and the Practice in the Industry Thomas Jerome	Identifying "Like" Rock for Future Upside Hannah Stirling

2:40-3:20 COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS

3:20-3:45	Re-examining faults as primary and secondary salt welds in the late Paleozoic Antigonish sub-basin of Nova Scotia Alison Thomas	Geophysical and geochronological constraints on the regional hydrogeology of the Banff Hot Springs Thomas Wilson	LATE PENNSYLVANIAN-EARLY PERMIAN TECTONICALLY-DRIVEN STRATIGRAPHIC SEQUENCES AND CARBONATE SEDIMENTATION ALONG NORTHERN MARGIN OF SVERDRUP BASIN (OTTO FJORD DEPRESSION, ARCTIC CANADA) Daniel Calvo Gonzalez	Perception of hydraulic fracturing in western Canada: Public survey results Jordan Phillips	Quest CCS Facility: Time-Lapse Seismic Campaign Stephen Harvey	Post-Eocene kinematics of faults that host potential geothermal systems in southeastern British Columbia Theron Finley	Cenozoic exhumation history of the northern Richardson Mountains, Canada: Results from (U-Th-Sm)/He analysis Ryan McKay	Ensuring Geologic Ordering in Bayesian Facies Estimations John Pendrel	Utilizing "Calibrated" Hydrogeologic Understanding for Groundwater Management Decision-Making Paul Martin	Core Plug Scale Anisotropy and Geologic Controls on Acoustic Velocity of the Montney and Dolg Formations Pablo Lacerda Silva	Image enhancement through data-domain least-squares migration: an Orphan basin example Pablo Lacerda Silva	Geological Modelling To Capture Reservoir Uncertainties: A Case Study From Simian Field, Offshore Nile Delta, Egypt Rehab Helmy	A Norddegg Shale Re-evaluation, West Central Alberta Michelle Lund
3:45-4:10	Clay-Dependent Rock Physics Approach to Pore Pressure Prediction - An Example from East Coast Canada Joel Loeffler	Time-lapse Electrical Resistivity Imaging (ERI) reveals how rainfall, evapotranspiration, percolation and tile drainage affect soil moisture below a field of oats Troy Dobson	Upper Paleozoic Geology of the Northwest Margin of the Sverdrup Basin, Arctic Canada: Insights using stratigraphy and detrital zircon geochronology into the Paleogeographic and Tectonic evolution Bradley Galloway	Working towards a geoscience-literate public: Description of an innovative undergraduate course entitled "Geology and Human Health" Jennifer Cuthbertson	Resource Estimations for Conventional Deep Geothermal Projects Catherine Hickson	Exhumational history of the central Rocky Mountain Trench using low-temperature thermochronology Kelley Fraser	Augmenting Geoscience Workflows: Identifying Lithofacies With A Multi-Layer Machine Learning Architecture Judah Okwobi					Cross Dip Moveout Correction of Crooked 2D Seismic Surveys along Curved Processing Lines Christopher Mancuso	Performance Tracking: A Historical Background to Promote Learning Gary Citron
4:10-4:35			Global warming leads to Early Triassic nutrient stress across northern Pangea Stephen Grasby	Implementing a hands-on outreach program at the University of Saskatchewan to promote geoscience awareness to K-12 students Courtney Onstad	Alberta Precambrian Basement: Implications for EGS Development Spencer Poullette	Stratigraphic Age and Provenance of the Leech River Schist On Vancouver Island, British Columbia from LA-ICP-MS Depth Profiling Joanna Dlugosz	Seismic Waveform Classification for Direct Hydrocarbon Indicators (DHIs) using Siamese Networks Yexin Liu				Optimum offset range and source-receiver orientations for detecting the SvP converted waves in anisotropic media Hossein Jodeiri Akbari Fam	Exploration "Thinking" and the Present State of Machine Learning Workflows Jeff Aldrich	
4:35-5:00			Revisiting the magmatic Ni-Cu-PGE prospectivity of the High Arctic LIP, Nunavut, Canada Marie-Claude Williamson	Building a Community: Bringing Business Students to Energy Literacy and Careers Jennifer Dunn							Seismic Denoising by Supervised Deep Learning without Seismic Data Chao Zhang	Why E&P Projects Fail Roger Whittaker	

5:00-6:30 NETWORKING AND VIRTUAL CODE BREAK

WEDNESDAY MORNING

	Advancements in Operations Chairs: Kurt Armbruster and Brad Powell	Advances from regional to microscale: Geochemical, Geophysical and Engineering Applications to Montney Formation Evaluation Chairs: Gabriela Gonzalez Arismendi and Shona Clarke	Design, construction, & early development of reclaimed wet landscapes in the Alberta Oil Sands area part 1 Chairs: Carla Wytrykush and Jan Ciborowski	Digital Geoscience Chairs: Stan Cena and Dustin Borotik	Economic resources associated with impact structures Chairs: Erin Walton and John Spray	Energy Advocacy Chairs: Victoria Wallace and Ken Wallace	Evolution of cratons and cratonic margins: the role of microscale techniques to unravel Precambrian tectonic processes Chairs: Daniele Regis and Eric Thiessen and Jillian Kendrick	Geophysical Applications to Influence Business Decisions and/or Optimize Capital Efficiency Chair: Matt Ng	Microseismic part 1 Chairs: Jieyu Zhang and Barry Fish	Mineral chemistry and igneous processes Chairs: Zeinab Azadkhah and Shannon Zurevinski	Organic Geochemistry Chairs: Martin Fowler and Andy Mort	Seismic Interpretation Case Histories Chairs: Nawras Al-Khateb and Kathleen Dorey	Taking Stock of Geology of Canadian Cordillera: A session in honor of Philip S. Simony part 1 Chairs: Kevin Root and Margot McMechan	Unconventional EOR Chairs: Michael Muirhead and Phyllis Pacchiano	What's Shaking in Induced Seismicity? Part 1 Chairs: Mehrdad Soltanzadeh and Paige Mamer
8:35-9:00	Integration of real-time geosteering and drilling analytics in Operations Aleksandr Stepanov	Molecular and Isotope Geochemistry of Liquid Hydrocarbons from the Montney Formation Jaime Cesar	Synchrude Canada Ltd.'s Base Mine Like: the first pit lake in the oil sands Carla Wytrykush	Visualization and Analysis of Multi-Parameter Geophysical Data to Delineate Subsurface Geology Albena Undercova	Controls on the oil and gas potential of impact structures John Spray	The Energy Transition: Talking Points Aaron Foyer	Deciphering the timescales and mode of Archean orogenesis in the Pikwitonee Granulite Domain using multi-mineral petrochronology Besim Dragovic	Porosity and its impact on production in the Montney Andrew Iverson	Microseismic Data Quality Control Using Supervised Machine Learning Elie Ardakani	Redox effect on estimating crystallization pressure of granites Xue-Ming Yang	Unwelling petroleum fluid residence time in subsurface reservoirs Renzo SILVA	Sub-Thrust Exploration Plays as Upside Potential in South Sumatra Basin, Indonesia. Aziz Permana	Preliminary stratigraphy and geochronology of the Hazelton Group, Kitsuult River area, Stikine terrane, northwest British Columbia Rebecca Hunter	Lithological Controls on Oil Permeability of Tight Oil and Liquid-rich Gas Reservoirs: An Experimental Study Kesu Zhong	Determination of Local Magnitude for Induced Earthquakes in the Western Canada Sedimentary Basin: An Update Ali Mahani
9:00-9:25	Resistivity inversion as a tool for geosteering thermal oil development wells Calin Dragoe	Utilizing well logs to define and characterize rock types (Flow units) in the Montney Formation, Western Canada. Stephany Hernandez	Assessing relationships between methane dynamics and chemical mass transport across the tailings-water interface of an oil sands end pit lake Daniel Francis	Differentiation of dolomite phases in outcrop using hyperspectral imaging Hilary Corlett	The geophysical characteristics of impact craters and implications for hydrocarbon reservoirs Robert Stewart	Energy Advocacy - What can Professionals Do? Brad Hayes	Granulite-amphibolite transitions: quantifying the conditions of fluid infiltration and deformation in cratonic margins Andrew Whyte	CO2 sequestration - geophysicists are needed! Don Lawton	Machine learning applied to hydraulic fracturing data for microseismic prediction Jorge Nutes Andrade	Physical and Chemical Anatomy of Igneous, Titanian Andradite Garnets from the Crownnest Formation, Alberta. Robin Adair	Novel geochemical tools based on light hydrocarbons from different petroleum systems: Neoproterozoic Windermere at the Worsley Charlie Lake LL Pool Jaime Cesar	Evidence for Strike Slip Faulting from 3D Seismic and HZ strip logs and its impact on hydrocarbon distribution at the Worsley Charlie Lake LL Pool Rainer Augsten	World-Class Example of an Ancient Deep-Marine Passive-Margin Turbidite System, Neoproterozoic Windermere Supergroup in the Southern Canadian Cordillera Bill Arnott	Numerical Simulation of Undulating Shale Breaking with Steam-Assisted Gravity Drainage (SAGD) for the Oil Sands Reservoir with a Shale Barrier Min Kim	Understanding and Mitigating Induced Seismicity Risk in the Kiskatinaw Area, BC: Enhanced Seismograph Network Coverage Kelly MacDougall
9:25-9:50	Predicting Dewatering in Structurally Challenging Coalbed Methane Reservoirs Luis Rivera	Applications and use of Time Lapse Geochemistry in Unconventional Resource Appraisal and Development Elizabeth Watt	Monitoring Biogeochemical Cycling in an Oil Sand Pit Lake via High Resolution Spatial Distribution of Organic Chemicals Mikhail Dereviankin	How big data particle-size measurements can be used by oil sands geoscientists Russell (Stan) Standifffe	An overview of the economic geology of the Sudbury Impact Structure, Canada: Cu-Ni Sulfides and platinum group element deposit development Lucy Thompson	Climate Change, Carbon Politics and the Future of Fossil Fuels David Yager	2.56 to 1.87 Ga evolution of the Rae cratonic margin: micro- to macro-scale constraints from Boothia Peninsula-Somerset Island, Nunavut Mary Sanborn-Barrie	Aeromagnetic Interpretation of Basement Structure and Architecture of the Dahomey Basin, Southwestern Nigeria. Eze Okoro	High-accuracy Real-time Microseismic Analysis Platform: Case Study Based on the Super-Sauze Mud-based Landslide Jiangfeng Li	Apatite and Zircon Compositional Constraints on the Petrogenesis of the Hujighe Porphyry Mo Deposit, Lesser Xing'an Range, NE China Kai Xing	The diagenetic continuum of hopanoid hydrocarbon transformation from early diagenesis into the oil window Dane Symott	Beyond seismic stack: How rock physics inversion helps with horizontal oil well placement in Southern Alberta Evan Mutual	Taking Stock of Terrane Accretion in the Canadian Cordillera: The Record of a Continental Bulldozer H. Daniel Gibson	I'll Huff and I'll Puff and I'll - Recover more Oil? Part 1: The Rock Carolyn Currie	Seismicity associated with hydraulic fracturing operations: The influence of complex and competing stress regimes Rebecca Salvage
9:50-10:35	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS														
10:35-11:00	Remote Geosteering - Applications in Conventional and Unconventional Plays in Canada Mustafa Pasha	Can You Feel the Strain? DAS Strain Fronts for Fracture Geometry in the BC Montney Groundbirch Felix Todea	Evaluation of NAs distribution and sources within the water column in BML Mohamed El-Warakly		Role of impact devolatilization in the genesis of Ni-Cu-PGE mineralization in the Sudbury Impact Structure C Michael Leshar	Advocacy Tips to Help Get the Conversation about Oil and Gas Right Deidra Garyk	Mesoarchean high-temperature reworking of the Akia Terrane, North Atlantic Craton, West Greenland Chris Yakymchuk	Geophysical Applications to Influence Business Decisions Starbird Duhaull	3D Seismic Interpretation of the TOC/IME seismic volume: Implications for localization of induced microseismicity in the Fox Creek area ELENA KONSTANTINOVSKAYA		Geochemical features and genetic mechanism of deep-water source rocks in the Senegal Basin, West Africa YIPING WU		Impressive display of deformation features at the base of the Lewis Thrust Sheet in the Kananaskis Area: example of a large-scale strain gradient in a compressional regime Normand Bégin	I'll huff and I'll Puff and I'll - Recover More Oil? Part 2 The Fluids Colin Thiessen	Statistical Assessment of Operational Risks for Induced Seismicity from Hydraulic Fracturing in the BC Montney: Interpretation Amy Fox
11:00-11:25	The Canadian Well Identifier, not your Daddy's UWI Sue Carr	The Distribution and Origin of Hydrogen Sulphide in the Triassic Montney Formation, British Columbia and Alberta Marc Bustin		The Steen River Impact Structure in NW Alberta: An Impact-Generated Skarn Deposit Erin Walton		A Stranded Nation Heidi McKillop		Assessing Potash Inflow Hazards Todd LeBlanc	Extracting maximum value from minimal acquisition: A microseismic case study Benjamin Witten		Chemometrics application in assessing heavy oil reservoir fluid heterogeneity in Southeastern Mexican heavy oil fields Mengsha Yin		Using Compositional Simulations to Assess Huff-n-Puff (HnP) Performance for a Duvernay Shale Well Hamidreza Hamdi	Some Insights on Induced Seismicity in the Duvernay East Shale Basin Terry Zwicker	
11:25-11:50	Domain Master Data Management - What's in it for me? Floy Baird	Predicting and Optimizing Fracture Growth Through the Integration of Microseismic and Seismic Data. Sam Muller		Long-term accumulation of microbial methane in the Devonian Siljan impact structure, Sweden Henrik Drake		TBD Lynn Nellis					Dipicolinic acid as a tracer for thermophilic endospores and hydrocarbon seeps in deep water marine sediments Jayne Ruttray				
11:50-12:15	Calcareous Sand Scale Problem of Exploration Well BG-01, Belumai Formation, Benggala Field Aziz Permana				Seismic Characterization and Laboratory Analysis of Impact Structures Chris Nixon						Geochemical Tools for Monitoring Petroleum Hydrocarbon Sources and Remediation in the Environment Greg Slater				

WEDNESDAY AFTERNOON

	Advances from regional to microscale: Geochemical, Geophysical and Engineering Applications to Duvernay Formation Evaluation Chairs: Gabriela Gonzalez Arismendi and Shona Clarke	Advances in micro-analytical methods in the study of economic deposits	Clastic Sedimentology Chairs: Mark Caplan and Jon Noad	Deep Groundwater Sourcing and Wastewater Disposal Chairs: Brent Bowerman and Brad Hayes	Design, construction, & early development of reclaimed wet landscapes in the Alberta Oil Sands area part 2 Chairs: Carla Wytrykush and Jan Ciborowski	Emerging Opportunities and Methodologies Chairs: Draga Talanga and Dennis Ellison	Energy Advocacy Chairs: Victoria Wallace and Ken Wallace	Microseismic part 2 Chairs: Jieyu Zhang and Barry Fish	Reservoir Engineering and Hydraulic Fracturing in Unconventional Plays Chairs: Ali Ziarani and Robyn Swanson	Structure Interpretation Chairs: Ian Dawes and Bob Fuenning	Taking Stock of Geology of Canadian Cordillera: A session in honor of Philip S. Simony part 2 Chairs: Kevin Root and Margot McMechan	The geophysics of the built environment Chairs: Robert Ferguson and Mathew McDonald	What's Shaking in Induced Seismicity? Part 2 Chairs: Mehrdad Soltanzadeh and Paige Mamer	
1:25-1:50	Beyond Quantitative Interpretation: a Duvernay Case Study Carmen Dumitrescu	Application of cathodoluminescence to tracking metasomatism in intrusion-related ore settings Daniel Kontak	Sequence stratigraphic and sedimentological record of the McMurray and Wabiskaw depositional systems, Lower Cretaceous, Athabasca Oil Sands Area Yang Peng	Wastewater Disposal in the Montney Play Fairway of NE British Columbia Brad Hayes	Unanticipated risk generation to water capped tailings technology precipitated by alum addition in Base Mine Lake Lesley Warren	Multi-method dating of individual apatite and zircon grains: faster and less expensive methods for detrital studies. Scott Jess		Quality Control of Microseismic Moment Tensors from Surface-Based Acquisitions Adam Baig	Examination of Infill Drilling Effects on Midterm Well Productivity: A Montney Case Study Melanie Popp	Structural Analysis of Fold Interference in the West-Central Glennie Domain, Reindeer zone, Saskatchewan, Canada Shelby Brandt	Stratigraphic continuity across the southern Canadian Cordillera: Forland Thrust and Fold Belt: Implications for tectonic models Philip Simony	Distributed Acoustic Sensing the Red Line in Calgary: where is my train? Robert Ferguson	A Stochastic Modelling Approach to Induced Seismicity Risk Mitigation Thomas Eyre	
1:50-2:15	Isotopic composition of gases from the Unconventional Duvernay Formation Gabriela Gonzalez Arismendi	Detection of Rare Earth Element (REE)-bearing minerals in bedrock and surficial sediments down-ice from the Strange Lake deposit, Nunatsiavut, Labrador, by MLA-SEM Derek Wilton	Observations on Transgression, Regression and Sequence Stratigraphy in the McMurray Formation, Athabasca Oil Sands Area Daryl Wightman	Disposal of Oil and Gas Waste Fluids: Trends of the Past, Present and Future It's all About the Rocks Kim Kingsmith	Hydrological and Hydrogeological Performance of Constructed Hummocks at a Reclaimed Composite Tailings Deposit Maxwell Lukembach	XRF on thin sections tested on conventional and unconventional carbonates - a review of results obtained using different tools and various device settings Jean-Yves Châtellier		Event detection using a fast matched filter algorithm - An efficient way to deal with big microseismic datasets Hanh Bui	Unconventional Oil Production Shortfalls - How to Explain Observed Well Behavior Robert Bachman	Long-lived deformation recorded along the Precambrian Thelon and Judge Sissons faults, northeast Thelon Basin, Nunavut Rebecca Hunter	Paleozoic facies relationships across the central Kechika trough (NW Rocky Mtns.) preclude possibility of cryptic Cretaceous suture or mega-fault Johanne Nelson	Distributed Acoustic Sensing: Explanation of Signal Anomalously Responsive to Traffic Noise Michael Audia	Empirical and Numerical Investigation of the Effects of Hydraulic Fracturing Operational Factors on Triggering Induced Seismicity in Northeastern British Columbia Afshin Amini	
2:15-2:40	Unraveling production trends in the Permian Basin: how can this knowledge be used to extend the edge of the Duvernay play? Graham Bain	Rapid Discrimination of Potash Mineralization Using Crossplots - Case Histories Eric Crain	Facies Asymmetry in a Highstand Symmetrical Delta, Viking Formation, Crossfield Area, Alberta, Canada Nakari Diaz	Scoping Analysis of the Basal Belly River Formation for Water Supply, in the Area Southeast of the City of Red Deer, Alberta Stephen Burnie	Early Development and Controls on Aquatic and Semiaquatic Invertebrate Community Composition in the Sandhill Constructed Watershed, Alberta, Canada Jan Ciborowski	3D printing of rock analogs in sand: a tool for design and repeatable testing of geochemical and transport properties Rick Chalaturnyk		Crosscorrelation to Velocity Calibration: Automated detection of perforation signals and multi-stage velocity model inversion in microseismic monitoring Fernando Castellanos	Geomechanical analysis and Discrete Hydraulic Fracture Simulations to Improve Cardium Well Efficiency Stephen Rogers	An overview of Structural Styles and Hydrocarbon Potential, Sulaiman Foldbelt, Pakistan shabeer Ahmed	Geology of the southern Kicking Horse Rim Cambrian carbonate platform edge, southern Canadian Rocky Mountains - structural and tectonic implications Margot McMechan	What's Shakin'? The Assessment of Vibrations in an Urban Environment. Patrick Mah	Investigating Possible Causative Mechanisms for the Largest Hydraulic Fracturing Induced Earthquake in Canada Bei Wang	
2:40-3:20	COFFEE BREAK WITH EXHIBITORS AND POSTER PRESENTATIONS													
3:20-3:45	Black oil window rocks from the Devonian Duvernay Formation: Insights from fabric and organic matter analyses using FIB-SEM and other unconventional techniques Brad Culver	Fast, high resolution mapping of fine-scale trace element distribution in pyrite and marcasite by LA-ICP-MS with the Aerosol Rapid Introduction System (ARIS) Merile Reynolds	Mid-latitude Western Australia and Shark Bay: modern climatic and environmental analogs for the Triassic Montney and Charlie Lake formations of the WCSB Graham Davies	A comparison of plant communities at the reclaimed Sandhill Wetland to natural Albertan peatlands and marshes Jeremy Hartlock	Emerging Cretaceous Oil and Gas Play, Alberta, Canada. Controls on Productivity Peter Bauman		Numerical Investigation of Microseismicity Using Bonded Particle Method Yiru Zhou	Identifying Relationship Between Water Flowback and Hydrocarbon Productivity Using Data-Driven Analytics Tamer Moussa	The Early Paleozoic Windermere High, southern Canadian Cordillera: Implications for the continuity of the Lower Paleozoic tectonostratigraphic succession and for Early Paleozoic Tectonics Kevin Root	Use and evaluation of EM surveys for anthropogenic salinity assessments Leslie Hardy	To decluster or not to decluster? Implications for seismic hazard analysis in induced seismicity Mauricio Reyes Canales			
3:45-4:10	Managing Casing Deformation Risk in the Duvernay Formation (Kaybob, Alberta) Sobhi Alhashwa		Nature and Origin of the Systematic Stacking Pattern of Matrix-Rich and Associated Matrix-Poor Strata in Two Tectonically Different Deep-Marine Turbidite Systems Jagabir Ningthoujam	Establishment of peat-forming vegetation: A Comparison of two constructed wetlands for oil sands mine reclamation in Alberta Andrea Borkenhagen	Direct probabilistic inversion of seismic AVO data for reservoir characterization in the presence of thin beds and elastically ambiguous facies Raul Cova		Injection-Induced Seismic Hazard in Fox Creek Alberta Maurice Dusseault	Investigating the Effect of Pressure Perturbation on Induced Seismicity in the Montney Formation Zahra Esmailzadeh		The seismology of active transportation Robert Ferguson				
4:10-4:35			The Guinness Book of Sedimentology: your guide to the world's largest EVER sedimentary features Jon Noad		Clean Hydrogen Production (ONLY) From Heavy Oil Reservoirs Grant Strem									
4:35-5:00			Geologist, work with your geomodeler to ensure your sedimentological interpretation is properly taken into account in the geomodel Thomas Jerome											
5:00-5:25			Planar stratification: Flat as a pancake and not a ripple in sight Bill Arnott											