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Wednesday, May 18th 2016

CWLS TECHNICAL LUNCHEON PRESENTATION
FAIRMONT PALLISER HOTEL
133 - 9TH AVE. S.W. CALGARY

TIME: Lunch served at 11:30 am, Presentation starts at 12:00 pm

RESERVATIONS BY: Friday, May 13th 2016 (NOON) – Register Online at <http://www.cwls.org/events/>

COST: CWLS members reserved meal: \$40.00; non-members reserved meal: \$45.00;
Special needs meals need to be requested by phoning the office directly.
Tickets will NOT be available at the door.

TOPIC: A reassessment of the Keg River and Prairie Evaporite formations in the Athabasca and Cold Lake oil sands regions: net-pay mapping of evaporites to update paleogeography and the location of the Prairie Evaporite dissolution scarp

SPEAKER: Tyler E. Hauck, Alberta Geological Survey

ABSTRACT: This presentation will focus on the mapping and modelling of Elk Point Group strata in the Lower Athabasca Regional Plan (LARP) area as part of the production of a high-resolution 500 x 500 m grid cell 3-dimensional model. Evaporite minerals (halite, anhydrite, and gypsum) of the Prairie Evaporite Formation were assessed based on their distinctive log responses on modern spectral density log suites. Net-pay mapping of these minerals provides new insights into the deposition and stratigraphic architecture of the Prairie Evaporite as it relates to the underlying Keg River carbonate buildups. Additionally, the net-pay mapping allowed for a better delineation of the location and extent of the Prairie Evaporite dissolution scarp—a well-known intrastratal evaporite dissolution feature that runs NNW-SSE through the study area. Detailed correlation of new and established member and marker-bed stratigraphy from the Prairie Evaporite reveals the pattern of evaporite karst within the halite dissolution scarp, and provides evidence for the top-down removal of halite throughout the study area. East of the dissolution scarp, where all halite has been dissolved, the Beaverhill Lake Group and the remaining Elk Point strata drape the paleorelief on the top of Keg River carbonates, which had a strong control on the positioning of the sub-Cretaceous unconformity surface along the main paleovalley flooring Lower Mannville siliciclastic strata.

BIOGRAPHY: Tyler Hauck received his B.Sc. with specialization in geology from the University of Alberta (2005), followed by an M.Sc. (2008) in sedimentology and ichnology with Dr. Gingras and Dr. Pemberton at the University of Alberta. His M.Sc. research focused on the study of a modern microtidal barrier island / embayment system in New Brunswick. After graduate studies, Tyler joined the Alberta Research Council (now Alberta Innovates – Technology Futures), where he was involved in numerous studies involving the geological characterization of candidate formations for the sequestration of CO₂. Projects included characterization and 3D model construction of the Redwater Leduc Reef in central Alberta, and a project involving the CO₂ storage capacity estimation within the Cambrian Basal Sandstone unit in Alberta, Saskatchewan, Manitoba, Montana, and North Dakota. Tyler joined the Bedrock Geology section of the AGS in 2012, where he works as a carbonate stratigrapher mapping and modeling the Paleozoic succession in the Alberta Basin. Projects undertaken at the AGS include the regional-scale mapping of the Beaverhill Lake Group, the Devonian succession on the southern flank of the Peace River Arch, and the Paleozoic succession in 874 townships around the Athabasca and Cold Lake Oil Sands deposits.

APEGA MEMBERS:
CWLS Luncheons and courses qualify for APEGA Professional Development Hours.

Please see the CWLS Website at www.cwls.org for information regarding a Corporate Network License for the recently published CWLS Formation Water (RW) Catalog CD.

Notes: Please forward this notice to any potentially interested co-workers. Thank you.