Program

Sunday, December 4, 2016

16:00 - 17:30 Registration in the Conference Centre

18:00 - 21:00 Ice Breaker: VICTORIA BALLROOM

Sponsored by: ALFA LAVAL & BGC ENGINEERING

Monday, December 5, 2016

Mount Temple (Room A and B)

7:00 - 8:00 Registration (Continental Breakfast)

7:00 – 8:00 SPEAKERS BREAKFAST (Alpine Room)

8:15 - 8:30 Opening Remarks

Keynote Address

8:30 - 9:30 REGULATION OF OIL SAND TAILINGS FACILITIES IN ALBERTA

Tim Eaton (Alberta Energy Regulator)

9:30 - 10:00 Coffee Break – Sponsored by: SRK CONSULTING

Mount Temple Room A

SESSION A-1: TAILINGS MODELING AND BEHAVIOUR (Session Chair: Gord McKenna)

10:00 - 10:20 CONSOLIDATION-DESiCCATION IN OIL SANDS FINE TAILINGS AND THE UNSATCON MODEL

Paul Simms and Shunchao Qi

10:20 - 10:40 CONSOLIDATION AND ATMOSPHERIC DRYING OF FINE OIL SAND TAILINGS: COMPARISON OF BLIND SIMULATIONS AND FIELD SCALE RESULTS

Philip J. Vardon, Yutian Yao, L.A. van Paassen and A. Frits van Tol

10:40 -11:00 OPTIMIZING TAILINGS DEPOSITION TO MAXIMIZE FINES CAPTURE: LATEST ADVANCE IN PREDICTIVE MODELING TOOLS


IOSTC 2016, Lake Louise, AB - December 4-7, 2016
11:00 - 11:20 LARGE-STRAIN CONSOLIDATION MODELING TO DETERMINE REPRESENTATIVE TAILINGS CONSOLIDATION PROPERTIES FROM TWO MESO-SCALE COLUMN TESTS

Jason Stianson, Robert Mahood, Delwyn G. Fredlund and Josh Sun

11:20 - 11:40 FIELD PILOT PERFORMANCE RESULTS FOR FLOCCULATED FLUID FINE TAILINGS UNDER THREE DEPOSITIONAL VARIATIONS

Dale Kolstad, Ben Borree, Jason Song and Robert Mahood

11:40 - 12:00 THIXOTROPIC EFFECTS ON THE RHEOLOGY OF POLYMER AMENDED MATURE FINE TAILINGS: IMPLICATIONS FOR SURFACE DEPOSITION CONTROL

Shabnam Mizani, Paul Simms, Ward Wilson and Nick Beier

Mount Temple Room B

SESSION A-2: TAILINGS MANAGEMENT (Session Chair: Tamara Giles)

10:00 - 10:20 IN SITU DEPOSITION OF TREATED TAILINGS


10:20 - 10:40 INTERBEDDED SAND LAYERS (ISL) CONCEPT FOR DEEP FINES-DOMINATED TAILINGS DEPOSITS

Srboljub Masala, Silawat Jeeravipoolvarn, Reza Nik and Robert Donahue

10:40 -11:00 ON THE BENEFICIAL USE OF SOFT MUD – CASE STUDY MARKER WADDEN PROJECT

Thomas Vijverberg, Walter Jacobs, Roeland Lievens and Alexis Roels

11:00 - 11:20 CO-DEPOSITION IN THE OIL SANDS: BLENDING OF FLUID FINE TAILINGS WITH OVERBURDEN

Ralph Burden and G. Ward Wilson

11:20 - 11:40 OVERVIEW OF HOLISTIC APPROACH TO OIL SANDS TAILINGS MANAGEMENT

Siba Patnayak and Saidul Alam

11:40 - 12:00 OIL SANDS TECHNOLOGY TO MEET THE CHALLENGES OF NEW WORLD SUSTAINABLE TAILINGS MANAGEMENT

Kevin Moran, John Oxenford, and Scott Nelson

12:00 – 13:20 Lunch Break (Victoria Ballroom) –

Sponsored by: CONETEC INVESTIGATIONS
Mount Temple Room A

SESSION B-1: RECLAMATION (Session Chair: John Brogly)

13:20 - 13:40 SHEAR STRENGTH AND DENSITY OF OIL SANDS FINE TAILINGS FOR RECLAMATION TO A BOREAL FOREST LANDSCAPE
Gord McKenna, Brent Mooder, Bill Burton and Andy Jamieson

13:40 - 14:00 CAPPING AND CLOSING DEEP TAILINGS FINES DEPOSITS
Alexander Hyndman and Richard Dawson

14:00 -14:20 THE DBM APPROACH FOR SETTING ENGINEERING DESIGN CRITERIA FOR AN OIL SANDS MINE CLOSURE PLAN
Monica Ansah-Sam, Leah Hachey, Gord McKenna and Brent Mooder

14:20 - 14:40 A REGIONAL VIEW OF SITE-SCALE DECISIONS IN THE ATHABASCA OIL SANDS
Neeltje Slingerland and Nick Beier

14:40 - 15:00 VARIABILITY IN FLUID FINE TAILINGS
Heather Kaminsky and Oladipo Omotoso

Mount Temple Room B

SESSION B-2: CHEMICAL INTERACTIONS (Session Chair: Lois Boxill)

Aleksandra Govedarica and Milana Trifkovic

13:40 - 14:00 ADSORPTION ISOTHERM AND KINETICS STUDY OF ACID-EXTRACTABLE ORGANICS REMOVAL FROM OIL SANDS PROCESS-AFFECTED WATER ON BIOCHAR AND ACTIVATED CARBON
Tazul I. Bhuiyan, Jin K. Tak, Don Harfield and Josephine M. Hill

14:00 -14:20 POLYMER-MFT INTERACTIONS: FROM SURFACE CHEMISTRY TO RHEOLOGY
Cliff T. Johnston, Mohammadhasan Sasar, Marika Santagata, Antonio Bobet, Linna Duan, and Heather A. Kaminsky

14:20 - 14:40 APPLICATION OF NOVEL POLYMER COMBINED WITH INORGANIC COAGULATION FOR CONSOLIDATION OF OIL SANDS TAILINGS
Miguel Pelaez and Thomas Fenderson

14:40 - 15:00 OPTIMIZATION OF NEW FLOCCULANT TECHNOLOGY FOR DEWATERING OIL SANDS MATURE FINE TAILINGS
Michael K. Poindexter, Paul A. Gillis, Jason S. Moore, Lizbeth Rostro, Wu Chen and Jason Tubbs

15:00 – 15:20 Coffee Break – Sponsored by: NORWEST CORPORATION
Mount Temple Room A

SESSION C-1: TAILINGS PROPERTIES AND MEASUREMENTS (Session Chair: Jamie Sharp)

15:30 - 15:50  ADVANCED ROBOTIC PAYLOADS FOR MEASURING PROPERTIES OF TAILINGS DEPOSITS
Nicolas A. Olmedo, Ward Wilson and Michael Lipsett

15:50 - 16:10  HYPERSPECTRAL SENSING IN SUPPORT OF OIL SANDS TAILINGS OPERATION AND MANAGEMENT
Iman Entezari, Benoit Rivard, Michael G. Lipsett, and G. Ward Wilson

16:10 - 16:30  THE EFFECTS OF FLOCCULATION ON THE METHYLENE BLUE INDEX
Yunhui Li, Ron Currie, Heather Kaminsky, Andrea Sedgwick and Taimur Qureshi

Mount Temple Room B

SESSION C-2: CHEMICAL INTERATIONS (Session Chair: Paul Simms)

15:30 - 15:50  CHEMICAL AMENDMENT OF FLUID FINE TAILINGS AND RELATED LABORATORY PERFORMANCE TESTS
Randy Mikula and Gavin Freeman

15:50 - 16:10  A COMPREHENSIVE CONTROL SCHEME FOR DYNAMIC INLINE FLOCCULATION OF OIL SANDS TAILINGS
Scott E. Webster, Wayne A. Brown, Babak Derakhshandeh, Neville Dubash, Clara Gomez and Christian N. Veenstra

16:10 - 16:30  THICKENING AND REFLOCCULATION PILOT PLANT
David Rennard, Atoosa Zahabi, Jason McMullan, Givemore Sakuhuni, Yijun Liu, Scott Hickman, Payman Esmaeili, Paul Cavanagh, Phil Lenart, Justin Loman, Ernesto Dela Rosa, Trevor Huculak, Rosario Jara, Kyle Baier, Jorge Medrano, Ashar Mirza, Aref Najafi and John Clark
International Oil Sands Tailings Conference 2016 - Program
Tuesday, December 6, 2016
(Mount Temple Room A)

7:30 - 8:30 (Continental Breakfast)
7:00 – 8:00 SPEAKERS BREAKFAST (Alpine Room)

Keynote Address
8:30 - 9:30 APPROACH TO REGULATING FLUID TAILINGS MANAGEMENT IN ALBERTA Tania De Silva (Alberta Energy Regulator)
9:30 - 10:00 Coffee Break – Sponsored by: NAIT

SESSION D: TAILINGS DEWATERING (Session Chair: Kevin Biggar)
10:00 - 10:20 TUBIFEX: A BIOLOGICAL METHOD FOR ENHANCING DEWATERING OF OIL SANDS TAILINGS. LATEST RESULTS AND NEXT STEPS
Miguel de Lucas Pardo, Xiaojuan Yang, Maria Ibanez, Luca Sittoni, Lijun Deng and Ania Ulrich
10:20 - 10:40 UTILIZATION OF PLANTS TO DEWATER AND STABILIZE MATURE FINE TAILINGS
Kera Yucel, Amanda Schoonmaker, Dani Degenhardt, Jasmeen Kaur and Bhupesh Khadka
10:40 -11:00 DEWATERABILITY OF TAILINGS FROM A HYBRID BITUMEN EXTRACTION PROCESS
Feng Lin, Yuming Xu, Tadeusz Dabros and Richard Nelson
11:00 - 11:20 IMPROVING SCROLL DECANTER CENTRIFUGE EFFICIENCY BY PREFLOCCULATION OF FEED
Alebachew Demoz
11:20 - 11:40 THE MFT CENTRIFUGING EXPERIENCE
Neil McMinn, Bryne Gramlich and Graham Stephens
11:40 - 12:00 GEOTECHNICAL PERFORMANCE AND WATER BALANCE OF CENTRIFUGED FFT DURING A ONE-YEAR FIELD TRIAL AT SHELL ALBIAN SANDS OPERATIONS
Reza M. Nik, Jack T.C. Seto and Jason Song

12:00 – 13:20 Lunch Break (Victoria Ballroom) –
Sponsored by: CONETEC INVESTIGATIONS
Keynote Address
13:20 - 14:20  COLLABORATIVE OIL SANDS TAILINGS INNOVATION: AN UPDATE ON PROGRESS BEING MADE
   John Brogley (COSIA)

SESSION E: TAILINGS PROPERTIES AND MEASUREMENTS (Session Chair: Mike Lipsett)
14:20 - 14:40  THE GEOTECHNICAL VANE SHEAR STRENGTH OF SOFT TAILINGS COMPARED TO SOFT FOODS
   Gord McKenna, Vanessa Mann, Bereket Fisseha, Nick Beier and Nicolas Olmedo
14:40 - 15:00  PERMEABILITY OF OIL SAND TAILINGS – A COMPARISON OF DIRECT CONSTANT HEAD MEASUREMENTS WITH BACK CALCULATED HYDRAULIC CONDUCTIVITY MEASUREMENTS FROM LARGE STRAIN CONSOLIDATION TEST
   Moir D. Haug, Julian Gan, Mohammad Al-Mamun and Heather Kaminsky

15:00 - 17:30  Coffee & Exhibitor Trade Show   Mount Temple Room C
   Coffee Break – Sponsored by: HAYWARD BAKER

15:00 - 17:00  COSIA-IOSI Tailings Workshop on Research Gap and Opportunity Analysis

18:30 - 22:00  Banquet   VICTORIA BALLROOM
International Oil Sands Tailings Conference 2016 - Program
Wednesday, December 7, 2016
(Mount Temple Room A)

7:30 - 8:30  (Continental Breakfast)
7:00 – 8:00  SPEAKERS BREAKFAST  (Alpine Room)

**Keynote Address**
8:30 - 9:30  TAILINGS TREATMENT APPROACHES AT KEARL – AN UPDATE
Paul Cavanagh
9:30 - 10:00  **Coffee Break – Sponsored by: SRK, NORWEST, HAYWARD BAKER & NAIT**

**SESSION F: TAILINGS MANAGEMENT** (Session Chair: Richard Nelson)
10:00 - 10:20  SUNCOR’S TAILINGS POND FACILITY SAFETY MANAGEMENT DURING THE FORT McMURRAY WILDFIRE OF MAY 2016
Tanys MacGowan, Norm Eenkooren, and Shawn Slattery
10:20 - 10:40  COST EFFECTIVE AND RESPONSIBLE TAILINGS MANAGEMENT
Jeremy Boswell
10:40 - 11:00  CONTINUOUS SATELLITE SURVEYING FOR OIL SANDS TAILINGS MANAGEMENT
Gerry Mitchell, Jim Turner, Adrien Ghariani, and Adrian Mitchell
11:00 - 11:20  AMPHIBIOUS ROBOT FOR ENVIRONMENTAL MONITORING OF OIL SANDS TAILINGS
Nicolas A. Olmedo, Stephen Dwyer, Jamie Yuen and Michael Lipsett
11:20 - 11:40  DECANTING OF TAILINGS SUPERNATANT
Jeremy Boswell and Stewart Bodtker
11:40 - 12:00  PIPELINE TRANSPORT OF CENTRIFUGE PRODUCT
Michael Graham, Stewart Bodtker, Neil McMinn and Chuck Wanstrom

12:00 – 13:20  **Lunch Break (Victoria Ballroom) –**
Sponsored by: CONETEC INVESTIGATIONS
SESSION G: TAILINGS BEHAVIOUR (Session Chair: Andrea Sedgwick)

13:20 - 13:40 DEWATERING BEHAVIOR OF FINE OIL SANDS TAILINGS: A SUMMARY OF LABORATORY RESULTS
Yutian Yao, A. Frits van Tol, Leon van Paassen and Philip J. Vardon

13:40 - 14:00 CONSOLIDATION CHARACTERISTICS OF FLOCCULATED MFT – EXPERIMENTAL COLUMN AND SICT DATA
Dobroslav Znidarcic, Dirk Van Zyl, Mario Ramirez, Kushagra Mittal, and Heather Kaminsky

14:00 - 14:20 EFFECTS OF SHEARING AND SHEARING TIME ON DEWATERING AND YIELD CHARACTERISTICS OF OIL SANDS FLOCCULATED FINE TAILINGS
Babak Derakhshandeh, Abu Junaid, and Gavin Freeman

14:20 - 14:40 MRM ETF NORTH POOL DEPOSIT PERFORMANCE
Monica Ansah-Sam and Karsten Rudolf

14:40 - 15:00 A SHELL TAILINGS CONSOLIDATION CASING EXPERIMENTAL PILOT PROJECT (TCCEPP)
Jason Stianson, Robert Mahood, Dana Thomas and Jason Song

15:00 – 15:25 Closing Remarks