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ADDITIONAL SPONSOR:

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Engineering, environmental sciences, architecture, and construction are the cornerstones of FTCH’s services, as we design and craft solutions to foster growth and build community.

TECHNICAL SESSION SPONSOR:

Aclima
Supporting Sponsor of Air Quality Monitoring Challenges and Innovations – Parts I and II Sessions on Tuesday, June 25

EXHIBITION:

ADDITIONAL EXHIBITORS:

Booth #308 – ARIA Technologies
www.aria.fr
ARIA Technologies is a European Leader in the modeling of atmospheric environment, applied to several fields: small scale meteorology, industrial air pollution, urban and regional air quality simulation and forecast systems, risk assessment in the chemical and nuclear industries, emergency response, wind and solar energies and climate change.

Booth #202 – Atmosfir Optics
www.atmosfir.net
Atmosfir is an innovative, advanced air monitoring technology company focused on providing our clients with the best air monitoring solutions. Atmosfir has unique intellectual properties and years of in-the-field experience. Our spectral and spatial data fusion algorithms all use the best available open path hardware, and innovative solutions to meet client needs.

Booth #221 – SGS Galson
www.ssgalson.com
SGS Galson is your one stop EHS Laboratory. We offer 5-day guaranteed turnaround time or your analysis is free, Free pumps, media and accessories, Free Technical Support 24/7/365 from the best client service experts in the industry, and IH Equipment Rental. We are leading the way again with our new Innovative Cloud Remote Sensor Monitoring System. Stop by our booth to learn about Smart Sense, real-time monitoring and sampling initiation system. Direct read capabilities include Total Particulate, PID, CO, CO2, SO2, O3, EtO, CH4 and more! Paired with the direct read sensors, active sampling capabilities include: silica, VOCs, metals, and more! This is a great tool for collecting exposure data 24/7 for Indoor Air Quality (IAQ), perimeter and task monitoring, and other monitoring situations.

Booth #323 – Énergir Natural Gas Truck
Énergir et C.A.T. Inc. have joined forces to put on the road the first renewable natural gas (RNG) heavy duty truck in Québec. Énergir is actively involved in the development of the renewable natural gas sector. It is a renewable and carbon neutral energy derived from residual organic matter.

Énergir et C.A.T. Inc ont uni leurs forces respectives pour mettre sur la route le premier camion de transport de marchandise alimenté au gaz naturel renouvelable (GNR) au Québec. Énergir s’implique activement dans le développement de la filière du gaz naturel renouvelable. Il s’agit d’une énergie issue de matières organiques résiduelles, renouvelable et carboneutre.

BOOTH LOCATION CHANGE:

Booth #123 - K-12 Education Committee (moved to booth #223)
UPDATED EVENTS

TUESDAY, JUNE 25

**Breakfast with the Exhibitors**
10:30 am – 11:30 am
Attendees are welcome to enjoy a complimentary breakfast in the exhibition hall following the ribbon cutting ceremony.

**Book Signing**
11:00 am – 12:00 pm, B2B Zone
François Reeves, MD will be signing his book *Planet Heart: How an Unhealthy Environment Leads to Heart Disease*.

**Opening Reception Entertainment**
6:30 pm – 8:00 pm
Painchaud Productions, a musical group from Québec, will provide contemporary background music featuring strings, piano and guitar. Enjoy this new, exciting addition to the ACE Opening Reception!

THURSDAY, JUNE 27

**Critical Review, 8:00 am – 10:30 am, Room 206B**
Additional Critical Review Discussant: *Calvin Duane*, environment manager for Canadian Natural Resources Limited, and a member of Canada’s Oil Sands Innovation Alliance (COSIA) will replace Kevin E. Percy, Ph.D.

POSTER SESSION

Page 38

**Air Quality – Measurement, Monitoring, Modeling**

**Attention Risk Assessors! It’s Time to Move to the AERSCREEN Air Dispersion Model**
*AUTHOR CORRECTION*

Paper # 585652
*David McCready: EnviroCalc Consulting; Jim Morrow: J.W. Morrow*
Tracking Canadian Mercury Emissions from Products Containing Mercury
(NEW POSTER)
(Moved from Challenges in Emission Inventory Development Session on Wednesday, June 26 at 3:30 pm on page 65)
Paper # 603371
Brittany Sullivan, Duane Smith: Environment and Climate Change Canada

Residuals and Waste: Reclamation, Re-Use and Recycling

(TITLE CHANGE) Removal of Alkali in the Red Mud by SO2 under Mild Conditions
Student Poster # 31, Paper # 614919
Sirine Boussorra, Guy Mercier, and Louis-César Pasquier, Institut National de la Recherche Scientifique, Eau Terre Environnement

TECHNICAL SESSIONS
TUESDAY, JUNE 25

Page 43
Climate Change, Health, and Local Adaptive Management
Track: CLIM
Room: 205C
6/25/2019, 1:30 PM
Platform – TCC: CCP
Chair: Barbara Tool O’Neil, Adelante Consulting, Inc.
Vice Chair: Michael Conrardy, AECOM

(PRESENTATION TIME CHANGED FROM 2:30 PM to 1:30 PM)
Car Ownership in Québec & Canada: Trends, Factors & Consequences
Paper #605176
Jerome Laviolette, Catherine Morency: Polytechnique Montréal

(PRESENTATION TIME CHANGED FROM 2:50 PM to 1:50 PM)
New Metrics for Assessing the Balance and Sustainability of Street Design: A Case Study in Montréal
Paper #605415
Gabriel Lefebvre-Ropars, Catherine Morency: Polytechnique Montréal; Paula Negron-Poblete: Université de Montréal

(PRESENTATION TIME CHANGED TO 2:10 PM)
Think Global Act Local-Using Adaptive Management through Land Use Law
Paper # 601729
Elizabeth Rubenstein: Klodowski Law

(PRESENTATION TIME CHANGED TO 2:30 PM)
The Value of Energy Efficiency as a Public Health and Climate Change Mitigation Strategy
Paper # 587047
Cassandra Kubes: American Council for an Energy-Efficient Economy

(PRESENTATION TIME CHANGED TO 2:50 PM)
Climate Resilience, Adaptation and Mitigation: Québec’s Best Initiatives in Vulnerable Francophone Countries
Paper #627509
Éric Théroux: Québec Ministère de l’Environnement et de la Lutte Contre les Changements Climatiques

3:10 PM
Towards Resilience in Large Cities: Evaluating the Cost of Climate Change Adaptation in Québec’s 10 Largest Cities
Paper #999997
Isabelle Charron, Bertrand Montel: Groupe AGÉCO
4:00 PM
Conditions Associated with Peak Observed SO2 Concentrations and AERMOD’s Skill in Simulating These Events
Paper # 593805
Robert Paine, Jeffrey Connors, Christopher Warren, Olga Samani: AECOM

4:20 PM
AERMOD and CALPUFF Dispersion Model Evaluation of Mass Conservation
Paper # 593581
Taylor Roumeliotis: Ramboll; Rakesh Singh: Ramboll

(PAPER WITHDRAWN)

4:40 PM
CALPUFF vs. AERMOD Dispersion Model – A Case Study
Paper # 602480
David Giard: BBA Inc.

(PRESENTATION TIME CHANGED TO 4:40 PM)
An AERMOD Case Study for Capped and Horizontal Point Sources
Paper # 599123
Anthony Schroeder: Trinity Consultants

(PRESENTATION TIME CHANGED TO 5:00 PM)
Modelling Emission Sources at Canadian Mines Using CALPUFF and AERMOD
Paper # 629331
Piotr Staniaszek, Chenxing (Ann) Teng: WSP; Randall Rudolph: Millennium EMS Solutions Ltd.

Page 48
Not in My Backyard: Legal Issues in Finding Common Ground for the Approval of Major Resource Projects
Track: REGU
Room: 205B
6/25/2019, 4:00 PM
Panel – TCC: EPE
Chair: Selina Lee-Andersen, McCarthy Tétrault LLP
* Selina Lee-Andersen: McCarthy Tétrault LLP
* Dominique Amyot-Bilodeau: McCarthy Tétrault LLP

(ADDITIONAL PANELIST)
* C. Flint Webb, Leidos

WEDNESDAY, JUNE 26
Environmental Risk Assessment Process to Identify Potential Compliance Risks
Paper # 593494
Jenny Vieira, Chris Bestfather: SNC-Lavalin Inc.

Page 57
Answering Critical Challenges Facing our Planet in Air Quality by Using NASA’s Current & Future Earth Observing Satellites
Track: MINI/AQMM
Room: 206B
6/26/2019, 10:10 AM
Panel – TCC: AAM
Chair: Sue Estes, NASA/UAH Helena Chapman, NASA Applied Sciences Program
Panelists:
- John Haynes: NASA
- Gregory Osterman: NASA Jet Propulsion Laboratory
- Ali Omar: NASA Langley Science Directorate

(TWO ADDITIONAL PANELISTS)
- Tracey Holloway: University of Wisconsin-Madison
- Mark Zondlo: Princeton University

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Emissions for Point and Area Sources
Track: AQES
Room: 303A
6/26/2019, 1:30 PM
Platform – TCC: AAE
Chair: Juan Carlos Ramirez-Dorronsoro, Marietta College
Vice Chair: Shamia Hoque, University of South Carolina

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Challenges in Emission Inventory Development
Track: AQES
Room: 303A
6/26/2019, 3:30 PM
Platform – TCC: AAE
Chair: Juan Carlos Ramirez-Dorronsoro, Marietta College
Vice Chair: Shamia Hoque, South Carolina State University

Tracking Canadian Mercury Emissions from Products Containing Mercury
Paper # 603371
Brittany Sullivan, Duane Smith: Environment and Climate Change Canada

(PRESENTATION TIME CHANGED TO 3:30 PM)
Choosing Data Sources for Relevant, Complete, Consistent, Transparent, and Accurate Reporting
Paper # 600432
Kerry Weichsel: Civil & Environmental Consultants, Inc.

(PRESENTATION TIME CHANGED TO 3:50 PM)
Adding Particulate Matter to EPA’s eGRID Database
Paper # 600932
David Cooley: ABT Associates; Travis Johnson: U.S. EPA; Marissa Hoer; Jonathan Dorn: ABT Associates

(PRESENTATION TIME CHANGED TO 4:10 PM)
Estimating Volatile Organic Compound Emissions at a Wastewater Treatment Plant Using U.S. EPA’s WATER9 Model
Paper # 601619
Disha Shah, Amit Sen: CDM Smith
Time Series Concentration Profiles of Ambient Carbon Dioxide at Locations in Alberta and Relations to Anthropogenic Activities
Paper # 597710
Quamrul Huda: Alberta Environment and Parks; Arturo Sanchez-Azofeifa: University of Alberta

Long-Time Atmospheric Monitoring Data, Snow Albedo and Black Carbon in Snow Measured in Portillo, Los Andes Mountains, Chile
Paper # 601770
Francisco Cereceda-Balic: Department of Chemistry and Centre for Environmental Technologies, Universidad Técnica Federico Santa María, Chile; Victor Vidal: Universidad Técnica Federico Santa María – Centre For Environmental Technologies (CETAM-UTFSM), Chile; Hans Moosmüller: Desert Research Institute; Magin Lapuerta: Universidad de Castilla-La Mancha, Spain

Status of Renewable Energy Projects in Egypt
Paper # 591325
Mounir Wahba Labib: National Academy of Science, Egypt; Yasser Saad Mohamed: Climate and Environment Protection Foundation, Egypt; Alan Gertler: Desert Research Institute

Assessment of the Social and Economic Impacts Due to Climate Change in Egypt
Paper # 591361
Mounir Wahba Labib: National Academy of Science, Egypt; Yasser Saad Mohamed: Climate and Environment Protection Foundation, Egypt; Alan Gertler, Desert Research Institute

ROOM CORRECTIONS – THURSDAY, JUNE 27

Elemental, Ionic, and Organic Analysis for Air Measurement Application — Room 203

Meetings on June 27
Sessions conclude at 3:10 pm on Thursday, June 27. There will not be a session break.

3:10 pm – 4:20 pm – ROOM CORRECTION
Technical Coordinating Committee Meeting – Nanotechnology, Room 205B

3:20 pm – 4:20 pm – ROOM CORRECTION
2019 Non-ACE Programming Task Force (PRG) Meeting, Room 207

4:30 pm – 5:30 pm – ROOM CORRECTION
2020 ACE Planning and Technical Council Wrap-Up Meeting, Room 207

Health Effects & Exposure – Part 1 — Room 303A