

ESAA Weekly News

An Information Service for Alberta's Environment Industry

The Week Ending April 21st, 2017



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Comments & submissions are welcome!

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2017 ARTWORKS CONTEST – STUDENT PHOTO AND POSTER WINNERS ANNOUNCED

The Environmental Artworks Foundation of Alberta is pleased to announce that the winners for the 2017 contest have been chosen and are now posted on-line at: <http://www.artworksalberta.org/2017Winners.htm>

Thank you to all of the schools and students who participated. Over 300 submissions were received.

Details on the 2018 contest and grant program will be available in late 2017.

For complete details about the Environmental Artworks Foundation of Alberta, visit: <http://www.artworksalberta.org>

WATERTECH 2017 PRESENTATIONS NOW AVAILABLE

Presentations from WaterTech 2017 are now available online at: <http://www.esaa.org/watertech/about/proceedings/>. In addition, all of the presentations from the past 10 years can be found online at the above link.

Thank you to all of the sponsors, exhibitors, presenters and delegates for make the 10th WaterTech a big success.

THE 2017 ESAA PHOTO CONTEST IS NOW OPEN

The 2017 ESAA Photo Contest is now open! The subject for this year's photo contest is "Iconic Canadian Landscapes". Canada will be celebrating its 150th birthday this year and we would like to highlight the beauty of Canada's landscapes. Applicants are encouraged to submit photos that display Canada's scenic vistas with emphasis on iconic locations.

Please note there is a NEW category this year for non-members. You do not have to be a member of ESAA to enter into this category!

Please visit <http://www.esaa.org/photocontest/> for contest rules and details.



2016 Winner – Chris McCue – McCue Engineering Contractors

**THE 2017 ESAA INDUSTRY AWARDS IS NOW
ACCEPTING APPLICATIONS!**

The ESAA Industry Awards is an annual awards program that recognizes member excellence in the areas of environmental innovation and community involvement. The program is open to all ESAA member organizations with the winners announced and awarded each year at the *RemTech* Symposium held in October. As part of the recognition process, winners will be featured in a short promotional video showcasing their companies. The videos will then be available to the winning companies following *Remtech* to use for their own promotional material.



Award Eligibility

All ESAA member organizations are eligible to participate in the ESAA Industry Awards program and must be a member in good standing at the time the award recipients are announced. Applicants are allowed to apply in both categories but are permitted only one entry per category.

Award Categories

The two categories for the ESAA Industry Awards are outlined below:

1) Environmental Innovation Award

Awarded to a member of Alberta's Environmental Industry that has shown leadership in the area of environmental innovation.

Award Criteria

The **Environmental Innovation Award** recognizes an individual or companies' innovative efforts designed and executed to support and contribute to the environmental industry. The award may be given in recognition of individuals or companies who implemented or completed an innovative technology, procedure or project that increased efficiencies; minimized waste or eliminated duplication of efforts, processes or systems; contributed to significant cost savings; and contributed to a positive environmental outcome.

ENVIRONMENTAL INDUSTRY AWARD APPLICATION

2) Community Involvement Award

Awarded to an ESAA member organization that has shown an outstanding commitment to bettering their community through active fundraising and community involvement.

Award Criteria

The **Community Involvement Award** recognizes a member organization that is an active community leader demonstrated through: volunteering significant time and corporate resources to work with charitable, educational, and/or environmental organization, or community service group; or may have participated in significant community project/program that increases awareness of the importance of the environmental industry among students and the general public or improves the quality of life in the community.

COMMUNITY INVOLVEMENT AWARD APPLICATION

Any questions about the Industry Awards can be directed to Lisa Kinasewich, Manager, Industry and Government Relations: kinasewich@esaa.org.

ONESTOP: RECLAMATION CERTIFICATE TOOL UPDATE

April 19 Update - Based on feedback we heard from OneStop users, the AER has updated the tool. Energy operators can now submit phase 1 environmental site assessment (ESA) data.

When ESAs are submitted to the OneStop tool, they will be linked to an energy asset and will stay with the asset regardless of the energy operator.

This will allow the AER to more accurately report on closure activities, and it will focus our attention on where there is no progress towards reclamation.

A full list of updates and the OneStop maps can be found on the [Systems and Tools](#) page, then scroll down to the OneStop: Reclamation Certificate.

INVASIVE MUSSELS FOUND ON BOAT CHECKED AT SOUTHERN ALBERTA INSPECTION STATION

(Source: Lethbridge News) Staff at a southern Alberta boat inspection station have detected the first mussels of the season.

Staff at a southern Alberta boat inspection station have detected the first mussels of the season. The invasive species was found on a sailboat coming in from Ontario that was checked at the Dunmore station. Mussels have devastating and permanent effects on ecology and seriously impact infrastructure like irrigation networks and water treatment facilities. Once they're introduced into a waterway, they are impossible to eradicate. It's also illegal, under the Alberta Fisheries Act, to bypass an open inspection station while carrying a water-based vessel. Fines can reach as high as \$100,000 or 12 months in prison. - *Tina Giesbrecht*

ALBERTA ANNOUNCES EFFICIENCY REBATES TO SUPPORT HOME IMPROVEMENTS

A new Energy Efficiency Alberta program will support homeowners and local Alberta contractors through rebates for insulation, tankless hot water heaters and windows.

Beginning April 28, rebates of up to \$3,500 will be available for eligible home improvement products, including insulation for attics, basements and above-grade walls. Tankless hot water heaters (ENERGY STAR® certified) and triple glaze (low-e, argon) windows will also be available.

To qualify, homeowners must select from a list of Alberta-based registered contractors on efficiencyalberta.ca to install eligible products. Contractors will guide homeowners through the application. Rebates will go directly to the homeowner once each project is complete.

“Energy efficiency makes life more affordable for Albertans. It also creates good jobs. The Home Improvement Rebate will make a practical difference for Alberta families while supporting local contractors and helping to diversify our economy.”

Shannon Phillips, Minister of Environment and Parks and Minister Responsible for the Climate Change Office

“An efficient home is a more comfortable and affordable home. As the Residential Retail Products Program gets fully underway, Albertans will have many opportunities to invest in a wide range of efficiency products to improve their own homes.”

Monica Curtis, CEO, Energy Efficiency Alberta

Contractors who wish to be added to the registry can apply at efficiencyalberta.ca. They must complete a short training course and meet the following criteria:

- be a legally registered business in Alberta
- have current liability insurance
- have current Workers' Compensation coverage

“All Weather Windows is thrilled to be participating in the Alberta Home Improvement Rebate program. Programs like these are beneficial for Albertans, helping them make informed decisions about energy-efficient products while also saving money on energy costs.” - *Richard Scott, president and CEO of All Weather Windows*

“During these challenging economic times, companies and households have to focus their spending. Programs like this will help Albertans become more efficient while supporting local businesses. We can’t wait to get started.” - *Francis Gough, SuperGreen Solutions Western Canada*

The Home Improvement Rebate is one part of Energy Efficiency Alberta’s Residential Retail Products Program, a \$24-million program providing opportunities to purchase energy-efficient appliances and products. More details on other products in the program will be coming soon.

Quick facts

There are three components to Energy Efficiency Alberta’s Residential Retail Products Program:

- **Home Improvement Rebates:** You can buy eligible products and have them installed by a certified contractor to receive rebates.
- **Online Rebates:** You will be able to buy qualifying clothes washers, refrigerators and smart thermostats, and apply for rebates online.
- **Instant Rebates:** You can receive instant point-of-sale rebates on eligible products, such as LED lights, programmable thermostats, water-saving devices, smart power strips and heavy-duty timers.

CONTAMINATION FOUND IN SEDIMENT OF RIDEAU CANAL IN OTTAWA

(Source: HazMat Magazine) As reported by the [CBC](#), Parks Canada (the Canadian equivalent of U.S. National Park Service) is testing the sediment along the Ottawa stretch of the Rideau Canal to determine the extent of contamination along the waterway. Also, Ontario Ministry of the Environment officials are investigating game fish in the canal to determine if they are safe to eat.

The contaminated sediment was first discovered in November of 2016 when workers doing repairs to the canal accidentally churned up bottom sediment that contained contaminants. Testing of the water found heavy metals and polycyclic aromatic hydrocarbons (PAHs).

The newest set of tests is designed to determine the extent of the contamination the area. The stretch of contamination is the section of the Rideau Canal in downtown Ottawa. It is suspected that the sediment could be contaminated along several kilometres.

Parks Canada has known for some time that the bottom sediment of the canal has been impact by past industrial activities that existed on its banks including a paint factory, regular train traffic, and steam-powered vessels hauling industrial goods. The recent repair activities, however, have raised the profile of the issue and raised some concerns amongst fisherman and users of the canal.

With respect to the Ontario Ministry of the Environment and Climate Change (MOECC) investigation on game fish, there is concern that game fish caught along the Canal could have ingested contaminated sediment. The study will determine the level of contamination in various fish species along the Rideau Canal.

The federal Ministry of the Environment, Catherine McKenna, stated “The sediments in question are low risk to health but of course we are monitoring them and we’ll continue to do so. Parks Canada is going to be working hard making sure that the conditions are safe and taking appropriate measures.”

The Rideau Canal is a Canadian National Historic Site and a World UNESCO Site. It cuts through the heart of the Nation’s Capital and is a very popular for skating in the winter and all sorts of activities in the summer.

QUEBEC ANNOUNCES \$175 MILLION CLEAN-UP FUND

(Source: HazMat Magazine) The Government of Quebec recently announced it is setting aside \$175 million over the next five years to fund the clean-up of vacant land. Of that the total sum, \$120 million will be spent on cleaning up contaminated lands owned by the province and the remaining \$55 million will be used to subsidize the clean-up of properties owned by municipalities and, in some cases, private property owners.

The government sees the clean-up funds as an investment in development that will spur growth and create jobs. Quebec's Environment Minister, David Heurtal, stated in a news conference that the estimated value of the land that goes undeveloped because of contamination at \$2 billion.

A similar program run in Quebec between 2007 and 2015 in which \$60 million in provincial monies was used to clean-up 155 hectares (380 acres) of land. It was estimated that the \$60 million invested by the Province for clean-up the lands resulted in \$1.6 billion in private investment.

The announcement won praise from both the Union of Quebec Municipalities and the President of the Chamber of Commerce representing east Montreal. They both stated that the fund will bring economic opportunities and create jobs.

CONCERNS WITH CANADA'S ARCTIC OIL-SPILL RESPONSE PLANS

(Source: HazMat Magazine) The [World Wildlife Fund Canada](#) (WWF-C), the Canadian arm of the international not-for-profit environmental activist organization, recently issued a report on Canada's preparedness for cleaning up an oil spill in the Arctic. In short, the WWF-C is of the view that remote Arctic communities face almost certain environmental catastrophe in the event of an oil spill from large shipping vessels.

The report chronicles research done by the WWF-C on the state and availability of oil-spill response equipment, training resources, and the communications infrastructure in the Arctic. Report researchers found major issues in all areas related to spill response in Canada's Arctic.

Gaps in oil spill response capacity are outlined in two parallel WWF-C assessments for the [Beaufort region in the western Arctic](#) and [Nunavut in the east](#). The reports found that:

- Only a small number of coastal communities have access to the most basic oil-spill response equipment from the Canadian Coast Guard.
- The communities that do have equipment say it is irregularly maintained, too few community members are trained to use it, and that some communities don't have a key to access the storage containers.
- Harsh weather conditions, periods of prolonged darkness and the presence of sea ice make most standard oil-spill response equipment ineffective.
- Remote locations mean response times for large-scale cleanup and storage equipment can be more than 10 times longer than in waters south of 60 degrees' latitude.
- Lack of reliable communications infrastructure makes it difficult for communities to call for assistance, and for responders to communicate with those on land during an oil-spill response.

The report states that first responders in the Arctic are typically members of the community and that they lack effective and reliable equipment to contain and clean-up an oil spill. Heavy fuel oil (HFO) is the standard marine fuel for cargo ships, tankers and large cruise ships. It is also one of the world's dirtiest, most polluting ship fuels, and the most difficult to clean up.

The report also contains a review on the consequences of an oil spill in remote communities. Firstly, an oil spill would contaminate habitat for arctic wildlife and destroy fish habitat. Secondly, it would likely contaminate a wider area as it would get trapped under sea ice and potentially travel hundreds of kilometres.

A third report prepared by WWF-C outlines a [framework for creating oil spill response plans](#) in Nunavut's remote communities. Recommendations from the reports include:

- Phase out the use by ships of HFO, the most toxic and difficult to clean up of any marine fuel in the Arctic.
- Align response time standards in the North with those south of 60 degrees latitude.
- Develop community-based response plans.
- Increase funding for training of community responders.
- Consult with Inuit organizations on decisions that affect Arctic communities, and use both scientific and traditional knowledge to identify preferred shipping routes and areas to be avoided.

Though the chances of a large-scale oil spill in the Arctic are currently small, the consequences would be significant. As sea ice melts and ship traffic increases, there is an opportunity now, while traffic is still relatively low, to put measures in place to respond to spills, or prevent them from happening in the first place. Because sparsely

populated Arctic communities assume the risk of spills, they need both adequate equipment and response plans specifically tailored to the extreme Arctic environment.

DECADES-OLD STUDY SHOWS KAM LAKE'S ARSENIC LEVELS 50 TIMES OVER DRINKING WATER STANDARD

1989 study showed Kam Lake arsenic levels are higher than Frame Lake, Jackfish Lake

(Source: CBC News) The Northwest Territories government is warning Yellowknife residents not to swim or fish in Kam Lake, after a newly-unearthed study showed arsenic levels over 50 times higher than the recommended level for drinking water.

The territorial government issued a public health advisory Monday morning. The information is the [same as an advisory issued in April of 2016](#), with the addition of Kam Lake.

The data, based on a study conducted in 1989, shows that Kam Lake has dissolved arsenic levels exceeding 500 parts per billion — higher than any other lake in Yellowknife. Less than 10 parts per billion is an acceptable standard for drinking water, according to Health Canada.

"It's very old data that we found in archives over the past few months," said Dr. Andre Corriveau, the territory's chief public health officer. "Somebody noticed that study, and brought it to my attention... I can't say whether, back then, if there was some media around it.

"I assume it must have been released at some point, but I can't document that."

Despite the age of the study, Corriveau says he believes the levels are still very high in Kam Lake, which is located near former tailings ponds for the now-closed Con Mine.

"Some lakes haven't changed much in decades," he said. "It depends on the hydrology of the water... but even if, let's say, it had decreased by half, it's still in the zone above where we think it should be used recreationally."

The health advisory cautions residents not to swim, harvest nearby plants and berries, or fish for consumption in Kam Lake — the same warning issued for many lakes in Yellowknife, including Jackfish Lake and Frame Lake, though the level is much higher.

"The issue is pretty much the same... for recreational purposes," Corriveau said. "You would get health impacts more quickly at a 500 level than a 200 level, but for practical purposes, for our advisory, it doesn't make a lot of difference."

A map from a public health advisory, issued April 10, 2017, shows arsenic concentrations in areas around Yellowknife. Areas marked with yellow, orange, red, or purple dots contain arsenic concentrations above Health Canada's drinking water standard. Lakes with orange, red, or purple dots pose a hazard to people using them for recreational activities like swimming. Kam Lake is marked with a purple dot, indicating arsenic concentrations of over 500 parts per billion, the highest among lakes in the city. (Government of the Northwest Territories)

Corriveau said that it is safe to walk around Kam Lake, canoe or kayak on it, or catch and release fish.

"The hazard would come through ingestion of contaminated water or mud," he said. "We would advise people not to make tea from the water... if it was my dog, I certainly wouldn't bring them there to drink water on a regular basis."

Kam Lake wasn't included in recent arsenic studies. Corriveau said that's because the department of environment and natural resources, which organizes the studies, was focusing on the Giant Mine remediation site.

The health department, he said, only conducts studies when drinking water sources are potentially affected.

Corriveau said that he believes the department of environment and natural resources is planning a study of Kam Lake in the future, but he isn't sure of a potential guideline.

In the meantime, "it was a gap in the advisory last year," he said, "so here it is."

Grant Beck, a longtime resident of the Kam Lake area who has run a local kennel since 1989, says that although the levels are surprising, he doesn't expect it to affect residents in the area.

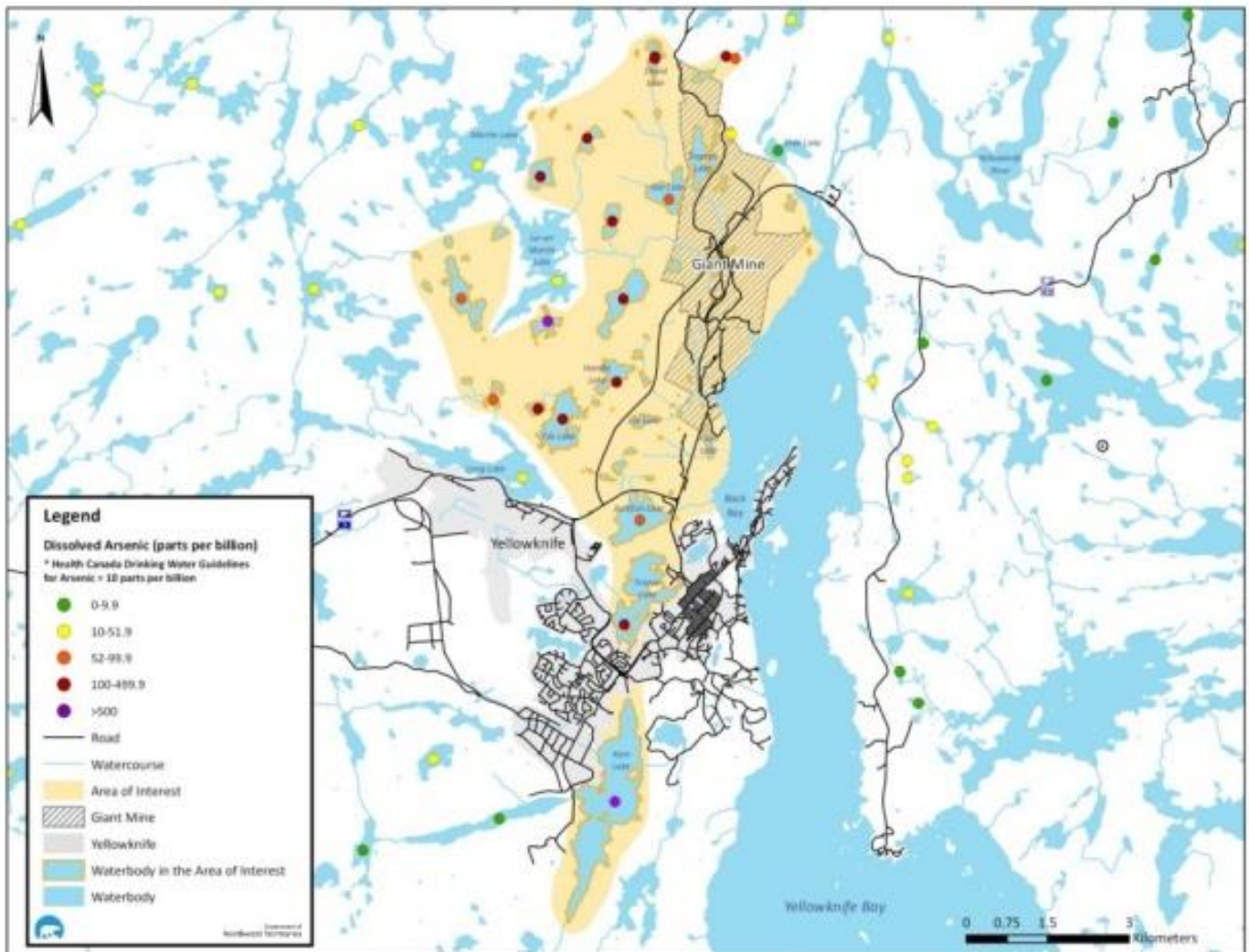
"It is a surprise that it's that high," he said. "But I don't think it was a concern. No-one used it for swimming, no-one uses it for anything, except when it freezes over."

Locals, Beck said, use the lake for snowmobiling and walking their dogs in the winter months. In the summer, residents hike around the lake, and do a small amount of catch-and-release fishing.

Beck said that he remembers a time when the lake was a lagoon located near a Con Mine tailings pond, stymieing residential development. However, now that the area has become more attractive, local development has taken place, with the Lakeshore subdivision filling up on Kam Lake road.

Despite the revelations, though, Beck doesn't foresee any changes to the way residents — both old and new — use the area.

"I've been running my dogs there [on the ice], for 30, 35 years," he said. "no-one's used it for anything else."



Data Source:

Mike J Palmer, Galloway JM, Jamieson HE, Patterson RT, Falck H, and Kokelj SV. The concentration of arsenic in lake waters of the Yellowknife area; Northwest Territories Geological Survey, NWT Open File 2015-06. 25 p.

EPA IS SOLICITING RECOMMENDATIONS ON REGULATIONS THAT COULD BE REPEALED, REPLACED OR MODIFIED TO MAKE THEM LESS BURDENSOME

On February 24, 2017, President Donald Trump issued [Executive Order 13777](#) on Enforcing the Regulatory Reform Agenda. The order establishes the policy of the United States to alleviate unnecessary regulatory burdens placed on the American people. Among other things, it requires each agency to create a Regulatory Reform Task Force to evaluate existing regulations and to identify regulations that could be repealed, replaced or modified to make them less burdensome.

As part of implementing the order, EPA is soliciting public comments and engaging in additional outreach to identify such regulations. **We will be accepting comments through May 15, 2017 at docket [EPA-HQ-OA-2017-0190](#).** Go to <https://www.epa.gov/laws-regulations/regulatory-reform> to learn more about this effort.

In addition, EPA's Office of Land and Emergency Management (OLEM), will host a public meeting to obtain additional stakeholder feedback on **Tuesday, May 9, 2017, from 9:00am to 5:00pm EDT** in Arlington, Virginia. The intent of the meeting is to provide an opportunity for interested parties to present recommendations specific to OLEM's regulations. Please see <https://www.epa.gov/rcra/office-land-and-emergency-management-seeking-feedback-reducing-regulatory-burden> on how you can submit comments and participate in or listen to the OLEM public meeting. For more information on OLEM programs, please see <https://www.epa.gov/aboutepa/about-office-land-and-emergency-management>.

Please direct questions to EPA.OLEM.RegulatoryReform@epa.gov.

UPCOMING EVENTS



BEST 2017 | May 10-12, 2017 | Whistler, BC

The British Columbia Environment Industry Association's BEST Conference is the premier Environmental Business Conference in the province of British Columbia. Conference registration includes: welcoming reception, two days of programming (technical sessions and keynote presentations), off-site networking reception, and all meals and coffee breaks. **For more information or to register visit: <http://bceia.com/best/>**

CANADIAN WATER SUMMIT

June 22, 2017
Toronto

ESAA Members Save 25%

The Canadian Water Summit attracts hundreds of professionals from water industry groups across all orders of government, manufacturing, industry associations, cleantech, local communities, academia, and NGOs. As we celebrate Canada's 150th, delegates will explore opportunities to collaborate on water technology and infrastructure finance, "blue economy" growth and climate change resilience through progressive policies, smart business and bold investment leadership.

Join us in Toronto for the 8th annual Canadian Water Summit on June 22, 2017 at the Sheraton Centre Toronto Hotel. Mark your calendars, sign up for the email alerts and stay tuned to CWS social media feeds – more details to come!

Registration: 25% discount for ESAA Members – Use the Code - **ESAACWS17** when registering online at: <http://www.watersummit.ca/>

International Association of Impact Assessment – Western and Northern Canadian Affiliate (IAIA-WNC) Pubinar Series.



Evening Pubinar Series

(IAIA-WNC Southern Alberta)

March 22 | April 19 | May 31

We are trying something a little different with a three-part series of "Pubinars", hosted in Calgary, intended to provide food for thought and stimulate lively discussion.

These evening sessions will be held at the Village Brewery Taproom (5000 – 12A Street S.E.) from **7-9pm**. Light snacks will be provided. Beer and non-alcoholic drinks are available for purchase (the Village Store will also open if you'd like something to take home).

Guest Speakers

Marla Orenstein | Geetha Ramesh | Miles Scott-Brown

These three are tasked with sharing a brief presentation to get the conversation going. All three have presented at International IAIA Conferences in the past and are passionate about Impact Assessment.

March 22 (past) – Marla Orenstein kicked off the series with a thought-provoking discussion on **Emerging Technologies, Artificial Intelligence, and Impact Assessment**.

Marla Orenstein is the President and founder of Habitat Health Impact Consulting (Habitat), and President-Elect of the International Association for Impact Assessment. An epidemiologist and an international leader in the field of Health Impact Assessment, Marla's work at Habitat allows her to indulge her interest in international exploration with her passion for bringing structure, order and clarity to unruly data. Marla is a founding member of the Society for Practitioners of Health Impact Assessment. She also co-authored the textbook Health Impact Assessment in the United States, which was published by Springer in 2014. Marla holds an M.Sc. in Epidemiology from the University of Edinburgh.

April 19 – Geetha Ramesh - The Sustainable Development Goals (SDGs)

In 2015, more than 190 world leaders committed to 17 Sustainable Development Goals (SDGs) to help us all end extreme poverty, fight inequality & injustice, and fix climate change. We each have a role to play if we're going to achieve these goals of a more prosperous, equitable, and sustainable world.

The Sustainable Development Goals (SDGs), otherwise known as the Global goals, build on the Millennium Development Goals (MDGs), while including new areas such as climate change, economic inequality, innovation,

sustainable consumption, peace and justice, among other priorities. The goals are interconnected – often the key to success and will involve tackling issues more commonly associated with one another.

The SDGs work in the spirit of partnership and pragmatism to make the right choices now to improve life, in a sustainable way, for future generations. They provide clear guidelines and targets for all countries to adopt in accordance with their own priorities and the environmental challenges of the world at large.

Come and join us for an introduction to the global SDGs and to find out what Canada's role in SDGs is and what it means for Alberta, Calgary and you!

Dr. Geetha Ramesh is a Principal Consultant and Practice Lead for Health with the Environmental, Social, and Geosciences services with Advisian (Worley Parsons). With over 24 years of experience in the environmental industry, specifically in the field of environmental assessments, site assessments, health impact assessments, regulatory approvals and permitting, environmental toxicology and stakeholder engagements; she has led, provided technical and advisory services and associated regulatory applications and permitting both across Canada and internationally.

Dr. Ramesh is internationally respected for her expertise in health assessment and her contributions to the development of regional initiatives, development of guidance documents and frameworks in the health sector. Currently she also co-chairs the health section of IAIA, an international forum of environmental practitioners.

May 31 – Miles Scott-Brown - The Use of Drones in Impact Assessment.

Miles Scott-Brown is an Integrated Environments Ltd. (IEL) Partner and Founder and is responsible for strategic direction and management of IEL business lines and services. In his role as a Partner, he oversees the financial, resourcing and technical growth and delivery of IEL professional services. At the discipline level, Miles leads out IEL's regulatory, audit and environmental assessment services.

Miles Scott-Brown has over 25 years of experience in environmental impact assessments, audits and strategic management of environmental and social issues related to resource development and sustainability issues in Canada and globally. He has gained this experience through completion of a wide variety of projects in western Canada, the NWT and Yukon and internationally throughout South America, Europe, Africa and Asia. Miles has specific expertise in auditing, compliance assessment and environmental & social performance monitoring for international lending and financial institutions. Miles has also worked within client organizations to provide value added environmental assessment and management expertise supporting timely project approvals and providing adherence to project scheduling and cost controls.

Miles area of practice expertise is related to the coordination and preparation of complex environmental impact assessments, auditing and compliance assessment of environmental and social performance and completion of strategic and cumulative impact assessments.

Internally, Miles plays an important internal role of senior review and staff mentoring in support and delivery of IEL quality assurance and quality control procedures.

For more information visit: <http://iaia-wnc.ca/2017/03/20/evening-pubinar-series/> or contact Margot Ferguson at: margot.ferguson@envirosearch.ca

ONE DAY COURSE: *AN INTRODUCTION TO GREENHOUSE GASES*

Friday, May 12, 2017

Hotel Blackfoot, Calgary, Alberta

The Association of the Chemical Profession in Alberta is pleased to offer a one-day course on Greenhouse Gases.

Topics

- Introduction to greenhouse gases
- Policy and regulations
- Sampling and measuring
- Management of greenhouse gases

Who should attend?

- Those involved in greenhouse gas data collection and auditing
- Chemists who want to broaden their background knowledge
- Other professionals who work in the environmental industries.

Registration Information

Early bird registration before May 1, 2017

\$275 for ACPA members

\$325 for non-members

After May 1, 2017

\$325 for ACPA members

\$375 for non-members

Student registration

\$75 before May 9, 2017

The course fee includes continental breakfast, lunch and coffee breaks.

To register and pay online, you must first log in to your online ACPA account (or create a guest account) at www.pchem.ca via the log-in box at the top right of the web page. Then click on "Event Registration" in the log-in menu and proceed from there. Or call the ACPA office at the number below.

Additional information is posted in the "News and Events" section of the ACPA website.



The International In-Situ Thermal Treatment (I2T2) Symposium, with a theme of "Remediation and Recovery," is a 2-day event held May 30-31, 2017 at the Banff Centre in Banff, Alberta.

"... the goal of the symposium is to share knowledge and learnings on in-situ thermal remediation and recovery technologies that will enable the Delegates to have an informed and unbiased understanding of how these processes might be useful tools in their industry..."

The symposium features:

- Keynote Presentation: Dr. Wenran Jiang, Director of Canada-China Energy and Environment Forum; Special Advisor to Alberta Minister of Energy; Senior Fellow of Asia Pacific Foundation of Canada; a Global Fellow at the Woodrow Wilson International Center for Scholars in Washington, DC; and Special Advisor on China to the US and Canada based Energy Council.
- 18 Sessions
- 1 Panel Discussion 'Opportunities for Technology Transfer in In-Situ Thermal' Panelists include:
 - Dr. Rick Chalaturnyk, Foundation CMG Chair in Reservoir Geomechanics, University of Alberta;
 - Dr. Jason Cole, Principal Technologist, CH2M Hill;
 - Dr. Ian Gates, Professor and Transition Leader, University of Calgary;
 - Dr. Jason Gerhard, Canada Research Chair in Geoenvironmental Restoration Engineering, University of Western Ontario;
 - Mr. John LaChance, President, Mc² USA;
 - Dr. Xin Song, Professor, Chinese Academy of Science
- 13 Poster Sessions

Registration includes:

- All Meals
- Networking / Social Event (held in conjunction with the May 31st Poster Session)

Special Registration Rate for ESAA Weekly News Subscribers: Visit: I2T2symposium.org and click the registration link. Enter the code 'ESAA' to receive a 15% discount. Refund for the 15% discount will be issued within 24 hours.

At the I2T2 Symposium you will have the opportunity to gain knowledge and insights on in-situ recovery technologies and in-situ thermal remediation processes. Many of the technologies and processes used in petroleum recovery and environmental remediation have similar challenges. This symposium will be a great opportunity to learn of the latest advances in these two areas and to share research outcomes and practical experience. Lowering costs, reducing environmental impacts, and improving project sustainability will be major themes of the symposium.

Sponsorship opportunities available.

Join us today and be part of one of the most anticipated events in the region.

For more information visit I2T2symposium.org or contact:

Diane Olson
dolson@i2t2symposium.org
[403-569-5100](tel:403-569-5100)

CANADIAN WATER INDUSTRY BUSINESS DEVELOPMENT MISSION TO INDONESIA AND SINGAPORE JULY 12-18, 2017

The Government of Alberta's Ministry of Economic Development and Trade, in collaboration with Global Affairs Canada, invites you to participate in the Canadian water industry business development mission to Indonesia on July 12-14, 2017 and Singapore July 17-18, 2017. This mission will offer you the chance to engage with local companies and government agencies to learn about local business opportunities in Indonesia and Singapore's water infrastructure.

Companies with expertise in the following areas are invited to participate

- Wastewater treatment /management
- Instrumentation/testing; and
- Environmental services/consulting.

Indonesia – July 12-14, 2017

- Attend the IndoWater Expo and Forum, Indonesia's largest water and wastewater convention, <http://www.indowater.com/> in Jakarta.
- Develop opportunities via business to business meetings with local companies.
- Optional visit to the City of Bandung, the capital of West Java province, on July 11, 2017 to meet with representatives from the Bandung Institute of Technology, a local water utility, as well as potential partners and end users.

Singapore July 17-18, 2017

- Meet with Singapore's Economic Development Board, and the PUB – Singapore's National Water agency.
- Participate in a Canada sponsored opening reception held during the Singapore International Water Week Spotlight, a by invitation only meeting for water utilities from around the world which brings together over 200 participants from 40 different countries.
- Visit the Changi Water Reclamation Plant to learn about Singapore's [Deep Tunnel Sewerage System Phase 2](#) project.
- Develop opportunities via business to business meetings with local companies.

We are looking for a show of interest from Alberta-based companies in order to develop a complete participation package, which will include a cost breakdown. This mission requires a minimum of 5 participating companies, and registration is limited to 10 companies; first come first serve.

To express your interest in this mission, please contact Martha Rogalski, by no later than **May 8 2017**.

Martha Rogalski

Senior Trade and Investment Officer
Asia Pacific Branch
Trade and Investment Attraction Division
Alberta Economic Development and Trade
Office: [780-422-1056](tel:780-422-1056)
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Industry Positions Openings

For more information visit ESAA's Job Board under the news section of www.esaa.org

Intermediate Environmental Consultant

Term: Full-Time
Application Deadline: April 30, 2017
Job Location: Calgary



North Shore Environmental Consultants Inc. (North Shore) is a progressive environmental company that specializes in providing environmental management services to the upstream oil and gas industry. Since our inception in 2002, North Shore has offered cost efficient and effective solutions to the complex environmental challenges faced by today's industries. We offer our employees exceptional career development opportunities and an excellent team-oriented working environment.

North Shore has an immediate opportunity in our **Calgary office** for a fulltime **Intermediate Environmental Consultant**.

Key Responsibilities:

- Assist with the coordination and execution of Phase 2 and Phase 3 environmental site assessments through to reclamation certification.
- Assist with small and large scale reclamation and remediation projects
- Coordinate and complete detailed site assessments and groundwater monitoring
- Complete vegetation assessments and supervise weed management activities in forested, native prairie, and cropland settings
- Prepare and submit daily cost tracking and project status reports
- Prepare detailed technical reports, work plans, and cost estimates
- Implement corporate and client safety programs
- Ensure that project requirements are met in a timely and effective manner
- Support other environmental service line projects, as required

Qualifications:

- Strong vegetation identification and soil characterization skills
- Solid understanding and working knowledge of the upstream oil and gas regulatory requirements in Alberta
- Willingness to travel and be in the field for extended periods of time
- Technical Diploma or University Degree in environmental science or related discipline
- Possess excellent verbal and written communication skills
- Proficient with Microsoft Office Suite and database entry
- Valid driver's license
- Good physical health and ability to work outdoors in varying conditions
- Self-motivated and have a willingness to succeed within a team environment
- Highly organized and have the ability to prioritize multiple tasks

Preference will be given to candidates with 3-5 years of directly related experience in the upstream oil and gas industry and who are eligible to obtain a professional designation. Previous experience with managing various assessment, reclamation, and remediation projects will also be considered an asset. Compensation will be based upon candidate experience.

Application Details: Please submit your resume via email to careers@northshoreenv.com. We thank all applicants for their interest; however, only those considered for an interview will be contacted. For more information about North Shore, please visit our website at www.northshoreenv.com

Soil Handling Monitor

Term: Full-Time

Application Deadline: April 28, 2017

Job Location: Alberta (Edmonton office)



COMPANY OVERVIEW:

Paragon is a leading environmental consulting company specializing in soils and vegetation as they relate to natural resource and infrastructure development and reclamation. Our team has the good fortune to work on many of the largest and most dynamic industrial projects in the country. Our reputation with clients is built through using applied science, decades of experience and sound judgment to help their projects be successful. We recognize the collective strengths of our team and are committed to providing high-quality service, while ensuring a safe and rewarding work environment. Paragon offers our team members an engaging and professional workplace that fosters creativity and diversity. We invest in people by offering competitive salaries and benefits, interesting projects, fun group events, and numerous professional development opportunities.

Paragon is currently seeking **Soil Handling Monitors** with pipeline experience to join our team.

POSITION SUMMARY:

Paragon provides conservation and reclamation planning and monitoring services to many major pipeline projects, throughout our beautiful country. Soil handling monitors are responsible for supporting client reclamation programs, including soil salvage, soil placement, reclamation monitoring and compliance with regulatory commitments. Successful candidates will gain a thorough understanding of the pipeline regulatory environment and industrial operations, in addition to contributing to the successful reclamation of major industrial projects. These positions are predominantly field-based, and include shift-work of various durations. For you to enjoy this work and be successful, you must naturally have a positive nature, be flexible, quietly confident, like to work outdoors in all conditions and thrive when working independently within a project team environment. You understand that asking for advice or clarification is not a sign of weakness. You believe that nothing is more important than working safely and protecting those around you. If you can't bear the thought of missing some prime camping weekends and/or will struggle to find dog/cat/bird-sitting, this job is not for you. The construction season is busy, but there are usually ample opportunities to travel or simply relax once the snow flies.

RESPONSIBILITIES:

- Supervision of conservation and reclamation activities along pipeline rights-of-way
- Assisting Project Managers with various tasks as they arise
- Other responsibilities may include, but are not limited to: data management through the collection, entry, synthesis and reporting phases; site seeding; vegetation control; preparing various formats of field reports; ground disturbance preparation, hazard assessment; accurate completion of chain-of-custody forms and delivery to the lab when needed
- Providing input on how best to use the technology available to us to improve the reclamation process
- Attending workshops, meetings and other similar events
- Exercising good judgment in situations that are not covered by policies and procedures
- Pursuing continuing education and participating in conferences and workshops
- Preparing regular, timely and accurate timesheets, expense reports and other relevant documentation
- Assisting with equipment maintenance and safety

MINIMUM REQUIREMENTS:

You must have the following attributes:

- Bachelor of Science, Bachelor of Applied Science or Diploma in a reclamation-related field from a recognized university or college
- Eligibility to register with the Alberta Institute of Agrologists (AIA)
- At least 2 years of experience in a related role
- An absolute, genuine dedication to safe work
- Thorough understanding of the natural resources industry and standards
- Ability to work productively independently as well as in a team setting
- Demonstrable proficiency applying the Canadian System of Soil Classification
- Results-oriented and efficient, with excellent problem solving skills
- Strong interpersonal and communication skills, with an affinity for working respectfully with colleagues, contractors and clients (i.e. you are not a jerk)
- Knowledge of and experience with computers and PC software, especially Microsoft Word, Excel and Outlook (at least an intermediate level of proficiency)
- Tech-savvy such that advanced GPS units do not scare you
- Valid Class 5 Drivers License, with a clean drivers abstract (or darn close to it)
- Good physical condition with the ability to walk long distances when necessary

PREFERRED QUALIFICATIONS:

- Safety Certificates: First Aid, Advanced driver training, GDII, H2S, OSSA, CSTS, PCST, WHMIS, Bear Aware, ATV/UTV
- Demonstrated competence in conflict management
- Experience with pre-disturbance soil survey and/or post-reclamation assessments
- Current registration with the AIA
- Plant identification skills
- Understanding of agricultural practices

REPORTING AND LOCATION: This position reports to the Pipeline Project Managers, and is based in Edmonton, Alberta.

Application Details: Interested candidates are encouraged to apply by sending a PDF copy of your cover letter and resume to info@paragonsoil.com, noting "Soil Monitor Application" in the subject line.

Paragon Soil and Environmental Consulting Inc.

14805 - 119 avenue

Edmonton, Alberta T5L 2N9

Website: <http://www.paragonsoil.com/>

Phone: (780) 434-0400

Fax: (780) 482-1260

Email: info@paragonsoil.com

Intermediate Soil Surveyor

Term: Full-Time

Application Deadline: April 28, 2017

Job Location: Alberta (Edmonton office)



COMPANY OVERVIEW:

Paragon is a leading environmental consulting company specializing in soils and vegetation as they relate to natural resource and infrastructure development and reclamation. Our team has the good fortune to work on many of the largest and most dynamic industrial projects in the country. Our reputation with clients is built through using applied science, decades of experience and sound judgment to help their projects be successful. We recognize the collective strengths of our team and are committed to providing superior client service, while ensuring a safe and rewarding work environment. Paragon offers our team members an engaging and professional workplace that fosters creativity and diversity. We invest in people by offering competitive salaries and benefits, interesting projects, fun group events, and numerous professional development opportunities. Paragon is currently seeking an Intermediate Soil Surveyor to join our Edmonton office.

POSITION SUMMARY:

Paragon provides soil survey and mapping services across most of Canada. Soil surveyors are responsible for executing soil survey programs (no kidding), including ground disturbance preparation, field execution, data management, and reporting. Support for other programs such as soil salvage and revegetation is commonly required. Successful candidates will gain a thorough understanding of various project types, will be cross-trained in vegetation identification, in addition to contributing to the successful reclamation planning of major industrial projects. This position has office and field-based tasks, and includes field shifts of various durations. For you to enjoy this work and be successful, you must naturally have a positive nature, be flexible, like to work outdoors in all (bug and weather) conditions and thrive when working independently within the larger project group. You understand that asking for advice or clarification is not a sign of weakness. You believe that nothing is more important than working safely and protecting those around you. The field season can be very busy, but we do our best to ensure that you will be able to enjoy some time off during the spitefully short unfrozen seasons.

RESPONSIBILITIES:

- Assisting and/or leading soil survey programs, from proposals and project start-up through to the final deliverable submission.
- Working cooperatively with technical, HSE and geomatics colleagues to successfully deliver our products.
- Assisting Project Managers with various tasks as they arise
- Other responsibilities may include, but are not limited to: data management through the collection, entry, synthesis and reporting phases; site seeding; vegetation control; preparing various formats of field reports; ground disturbance preparation, hazard assessment; accurate completion of chain-of-custody forms and delivery to the lab when needed
- Providing input on how best to use the technology available to us to improve the soil survey process

- Attending workshops, meetings and other similar events
- Exercising good judgment in situations that are not covered by policies and procedures
- Pursuing continuing education and participating in conferences and workshops
- Preparing regular, timely and accurate timesheets, expense reports and other relevant documentation
- Assisting with equipment maintenance and safety

MINIMUM REQUIREMENTS:

You must have the following attributes (i.e. we realize that the economy is tough at the moment, but if you are a medical technologist/pipefitter/waiter/materials engineer/etc., please don't spam us with your resume):

- Residence in the Edmonton area, or be able and willing to move
- Bachelor of Science, Bachelor of Applied Science or Diploma in a related field from a recognized university or college
- Eligibility to register with the Alberta Institute of Agrologists (AIA)
- At least 2 years of soil survey experience
- An absolute, genuine dedication to safe work
- Thorough understanding of the natural resources industry and standards
- Ability to work productively independently as well as in a team setting
- Demonstrable proficiency applying the Canadian System of Soil Classification
- Results-oriented and efficient, with excellent problem solving skills
- Strong interpersonal and communication skills, with an affinity for working respectfully with colleagues and clients at all levels (i.e. you are not a jerk)
- Knowledge of and experience with computers and PC software, especially Microsoft Word, Excel and Outlook (at least an intermediate level of proficiency)
- Tech-savvy such that advanced GPS units do not scare you
- Valid Class 5 Drivers License, with a clean drivers abstract (or darn close to it)
- Good physical condition with the ability to walk long distances when necessary

PREFERRED QUALIFICATIONS:

- Safety Certificates: First Aid, Advanced driver training, GDII, H2S, OSSA, CSTS, PCST, WHMIS, Bear Aware, ATV/UTV
- ATV/UTV/Argo operation experience
- Current registration with the AIA
- Plant identification skills
- Understanding of agricultural practices

REPORTING AND LOCATION: This position reports to various Project Managers, and is based in Edmonton, Alberta.

Application Details: Interested candidates are encouraged to apply by sending a PDF copy of your cover letter and resume to info@paragonsoil.com, noting "Soil Surveyor Application" in the subject line.

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