



# Information Bulletin

## March 24, 2010

### MEIA Gold Charter Members



### Silver Charter Member





## MEIA Information Bulletin for March 24, 2010

### Contents

<b>MEIA</b> .....	<b>3</b>
<b>MEIA Events</b> .....	<b>3</b>
Annual General Meeting .....	3
Environmental Sampling .....	4
Industry Standard Emergency First Aid Course .....	4
Golf Tournament.....	5
Enercan West .....	5
<b>MEIA News</b> .....	<b>6</b>
MEIA Environmental Career Fair.....	6
Interested in the MEIA? .....	7
<b>General News</b> .....	<b>7</b>
<b>Local Interest</b> .....	<b>7</b>
Conservation Spending Takes a Hit.....	7
Non-renewable Phosphorus Both a Curse and a Necessity.....	8
Canada 2010: A Workplace Essential Skills Snapshot .....	10
Plant Off to Splashy Start .....	11
Burning Question Over Dead Wood.....	14
<b>National Interest</b> .....	<b>15</b>
Government of Canada Celebrates World Water Day With an Investment in Water Quality Research.....	15
Government of Canada Releases Draft Assessments for 17 Substances Included in the Chemicals Management Plan.....	17
Government of Canada Delivers on Wastewater Rules: Proposed Regulations Released Today .....	19
Forging Canada-Brazil R&D Partnerships to Help Entrepreneurial Researchers and Companies Exploit the \$100 Billion Global Biofuels Market.....	20
<b>Business and Career Opportunities</b> .....	<b>21</b>
<b>Local</b> .....	<b>21</b>
Centrallia 2010: VIP Information Breakfast .....	21
Call for Letters of Intent for the Lake Winnipeg Basin Stewardship Fund.....	21

Internationally Educated Engineers Qualification (IEEQ) Program .....	22
Capturing Opportunities Awards Celebrate Community Volunteers, Achievements, Corporate Partnerships: Struthers .....	23
<b>National.....</b>	<b>24</b>
Director, Environmental Assessment.....	24
Field Coordinator .....	26
Sustainable Development Technology Canada Announces Latest Call for Clean Technology Funding Applications.....	26
Global Commerce Support Program - Going Global Innovation.....	28
<b>International.....</b>	<b>28</b>
Canada Trade Mission to Greece and Turkey - May 2010 .....	28
<b><i>Upcoming Conferences/Events/Trade Shows .....</i></b>	<b>30</b>
<b>Local.....</b>	<b>30</b>
Cloud Computing- The Next Evolution of Business with Mark Driver, Gartner .....	30
Better Buildings Conference .....	32
Make Energy Efficiency a Top Priority .....	32
IBPSA – Canada eSim 2010 .....	33
<b>National.....</b>	<b>33</b>
Global Positioning Systems (GPS): Principles and Applications (1.2 CEUs) .....	33
Taking It To the Next Level.....	34
WaterTech 2010.....	34
Project Delivery - A Successful Strategy from Concept to Completion (1.2 CEUs).....	35
15th Annual Contaminated and Hazardous Waste Site Management Course.....	35
<b>International.....</b>	<b>36</b>
Community Heat that Works!.....	36
World Bioenergy 2010.....	36
Water in Mining 2010.....	37
Energy and Environment .....	37
World Congress on Industrial Biotechnology and Bioprocessing .....	37

## **MEIA**

### ***MEIA Events***

#### **Annual General Meeting**

Wednesday, April 21, 2010  
 Canad Inns Fort Garry - 1824 Pembina Hwy

Keynote speaker and further details to follow.

7:30 am - Breakfast and registration  
8:00 – 9:30 am – Annual General Meeting

9:45 - 11:30 a.m. - The AGM will be followed by a presentation by provincial officials of Manitoba Conservation on current and updated regulations.

(Please note that if you are not joining us for breakfast, you can attend the AGM at no cost. Please confirm your attendance with the MEIA staff at 783-7090).

Click [here](#) to register

## **Environmental Sampling**

Wednesday, May 19, 2010  
University of Manitoba

This full day seminar demonstrates how to obtain environmental scientific samples and ensures the integrity of the samples right through to the laboratory testing process. Participants will learn proper field sampling methods of soil, water and air. They will also be taught laboratory methodology, including the importance of proper paperwork evidence and chain of custody issues.

For students at the University of Manitoba, attendance at this seminar offers this program as a 1.5 hour credit hour course in ENVR3010.

This is a popular program, so please register early to ensure a spot.

Register [here](#)

## **Industry Standard Emergency First Aid Course**

Wednesday, May 26, 2010  
B-390 Provencher Blvd

\*Workplace Safety and Health regulations state that an employer must ensure that a minimum number of first aiders are present during working hours at a workplace.

Workplace Safety and Health requirements: 1 person trained for every 11 employees (minimum).

The Manitoba Environmental Industries Association in conjunction with Canadian First-Aid Training offers this training at considerably reduced rates.

The full day training, from 8:30 to 4:00 p.m. includes:

Emergency First Aid w/CPR Level A  
(EFA-A - CPR: Adult - 1+2 rescuers) - (Industry standard course)

Best practice - Expires after 1 year. Good for 3 years

To view all that the course includes, click [here](#)  
This \$55 price can't be beat! Register [here](#)

## **Golf Tournament**

May 27, 2010  
St. Boniface Golf Club

Details of the 2010 tournament will be available soon. This year's event will offer opportunities to win:  
Silent Auction Prizes - proceeds will go to the Children's Rehabilitation Foundation  
Door Prizes (just for showing up)  
50/50 Draw (that's your Mulligan!)

Click [here](#) for more information

Register [here](#)

## **Enercan West**

November 25, 2010

The MEIA is partnering with the Saskatchewan Environmental Industries and Managers's Association to host the 2nd bi-annual Enercan West conference on

November 25, 2010 at the Fort Garry Hotel. This conference will focus on alternative energy

If you are interested in participating on the organizing committee of this conference, please contact the MEIA office at 783-7090.

Interested sponsors can call the MEIA staff or click [here](#) to view sponsorship opportunities and benefits.

## ***MEIA News***

### **MEIA Environmental Career Fair**

The MEIA Student Chapter hosted the first annual MEIA Environmental Career Fair on Wednesday, March 10, 2010 at the University of Manitoba

The career fair, “Bridging Professionals of Today with Those of Tomorrow”, was extremely well attended by over 350 visitors to the booths.

The career fair provided an excellent career development and networking opportunity for students and visitors from various fields of study to meet with established professionals representing the diverse career paths available in the environmental sectors in Manitoba. Students gained insight about their desired career path through an exchange of knowledge of the rapidly growing industry, as well as effective career planning strategies. Businesses and organizations showcased their companies or associations to those entering environmental fields.

Excellent Breakout Sessions offered participants an opportunity to provide information about their field, company or other opportunities. These sessions were very well received, and we look forward to offering them again next year.

The 2011 MEIA Environmental Career Fair plans are already underway under the strong leadership of the Student Chapter. It will be held at the University of Winnipeg, and we look forward to seeing you all there!

## **Interested in the MEIA?**

Do you know someone who should be on our information distribution list? Are we sending information to the proper person within your company? Please email our office at [admin@meia.mb.ca](mailto:admin@meia.mb.ca) with names and contact information and we will be sure they receive MEIA news!

## **General News**

### ***Local Interest***

#### **Conservation Spending Takes a Hit**

March 24, 2010

For a budget awash in red, there was little in the way of green for environmentalists and that had them feeling blue.

The Conservation Department saw its budget cut by 5.4 per cent -- placing it squarely in the category of the spending-priority have-nots.

"The environment is not a luxury; it's something that we need to take care of in good times and in bad," said Ron Thiessen, Manitoba director of the Canadian Parks and Wilderness Society.

In her budget speech, Finance Minister Rosann Wowchuk listed several government environmental initiatives, but few of them were new.

The government will eliminate the sales tax on shredded tires used in municipal road construction to encourage the use of recycled products. It will also invest an untold amount to reduce the amount of methane released from landfills in Winnipeg and Brandon. And it will "green" its building codes to improve water and energy efficiency in new homes and buildings.

Eric Reder, Manitoba director with the Western Canada Wilderness Committee, said Manitoba's parks are already underfunded compared with other western provinces. And Tuesday's budget is not going to improve matters.

"For us to lower the amount that we're funding Conservation -- we're definitely going in the wrong direction there," he said. "We're going to see things suffer."

Reder was hoping for a signal in the budget that the province planned to make good on a promise some time ago to protect five wilderness areas by 2010. It's already designated two. But there was no mention of it by the government Tuesday.

Conservation Minister Bill Blaikie said he "didn't enjoy" seeing his department's budget cut, but it was something the government had to do in tough economic times.

"We made some decisions to spend more on health care and in order to do that in the current environment it meant that other departments, including Conservation, had to find savings," Blaikie said.

Altogether, nine departments, saw their funding cut back.

Blaikie said budget cuts won't affect the province's ability to create new wilderness areas.

By: Larry Kusch

Source: [www.winnipegfreepress.com](http://www.winnipegfreepress.com)

## **Non-renewable Phosphorus Both a Curse and a Necessity**

March 20, 2010

We Canadians like to think of ourselves as a resource-rich nation. And it is true -- we are well-endowed with energy, water, land and minerals.

But there is one nutrient necessary to our well-being -- in fact our food security -- that we don't have in plentiful supply, and a new report from the International Institute for Sustainable Development (IISD) warns we are squandering what little of it we have.

That nutrient is phosphorus, a non-renewable resource essential to plant growth. The same phosphorus that is killing Lake Winnipeg through eutrophication.

So which is it -- precious or noxious? The IISD says our management of it makes it both.

"Phosphorus is an indispensable resource that has been mismanaged to the point that we are jeopardizing our long-term food and water security. We need not look any further than Lake Winnipeg to see the consequences of that," said the IISD's

Vivek Voora, co-author of *Peak Phosphorus: Opportunity in the Making -- Why the Phosphorus Challenge Presents a New Paradigm for Food Security and Water Quality in the Lake Winnipeg Basin*.

Canada not only depends upon importing the resource. Its economy is partly driven by exporting it in the form of food.

Comparing it to "peak oil," the term applied to depleting petroleum reserves, the recently released report raises the looming reality of "peak phosphorus." It says a wholesale shift is required in how the nutrient is viewed across all sectors of society.

Annual world consumption has grown steadily from 28 million tonnes in the early '60s to 160 million tonnes today. The cost has been rising, too. In recent years, price shocks pushed phosphorus to \$1,200 per tonne in 2008, a six-fold increase over what farmers paid in 2002.

Although prices have since fallen to around \$850 per tonne, experts say the shrinking global supplies mean it is unlikely to return to previous low levels.

Manitoba is second only to Saskatchewan as the region having the highest proportion of phosphorus-deficient soils in North America. An estimated 73 per cent of the land base here is low in phosphorus.

Yet in an odd quirk of nature, Prairie waterways are notoriously high in phosphorus because the freeze-thaw cycle of our annual spring snowmelt flushes it out of decaying plant material in a water-soluble form. In fact, the La Salle River, which starts at Portage la Prairie and meanders over to the Red River just south of Winnipeg, is referred to as "la Rivière Salé" on early maps. Translated, that means "stinking river."

Once phosphorus is lost to the sea, it takes millions of years for it to be mineralized back into a form that can be mined.

The report's authors are calling for a broadly based reassessment of policies and management strategies to prepare for phosphorus shortages. "Current practice in many industrialized countries is unsustainable in peak-phosphorus scenarios," the report says. "Changes must include substantial shifts in production and consumption patterns."

And they stress that while it is an issue with obvious implications for agriculture, it can't be addressed solely by what farmers do. "Responsibility must be shared by all stakeholders. This amounts to adopting a life-cycle, cradle-to-grave approach to phosphorus-based products, which include fertilizers, food and fibre."

That means cities, too, which for the purposes of nutrient management are intensive livestock operations on a grand scale. For example, phosphorus and ammonium can

be recovered from waste water in the form of struvite, a magnesium-ammonium-phosphorus precipitate, which can then be converted into a slow-release fertilizer.

This technology could help Winnipeg recoup some of the billion or so dollars it's spending to upgrade its waste-water treatment. A struvite-recovery system would prevent waste-water return pipes from clogging and produce a substantial amount of fertilizer (potentially more than 500 tonnes a year), which could be sold to farmers.

Controlling food waste while recapturing phosphorus through composting, instead of bagging it and dumping it in landfills, is another phosphorus-recycling imperative. It is estimated up to 40 per cent of all food is wasted worldwide. "The world's hungry could be fed more than seven times over with food waste originating from Europe and the United States alone," the report says.

Many of the fruits and vegetables produced globally never reach the market simply because they fail to conform with sizing standards. "The underlying problem leading to food waste stems in part from consumer behaviours supported by an economic system built to produce more than we need."

The report, at [www.iisd.org](http://www.iisd.org), is thought-provoking. It remains to be seen if governments can convert inertia into action.

By: Laura Rance

Source: [www.winnipegfreepress.com](http://www.winnipegfreepress.com)

## **Canada 2010: A Workplace Essential Skills Snapshot**

We need your help.

(Don't worry: it's not about money.)

We've created a very short on-line survey that asks: who is incorporating workplace Essential Skills in their workplace and how; who isn't and why; and what is still needed?

We want workplace leaders and Essential Skills practitioners we know and those we've never even met to weigh in on this to give the most representative picture of what's going on in workplaces across Canada.

We want this survey to go big ... to go viral: to reach people outside of our sphere of influence, our comfort zone and our dog-walking club.

Please fill out this survey yourself as soon as possible. Then please - please – forward this email to everyone and anyone you think should contribute their voice.

[Click here to fill out the survey](#)

Thank you for contributing your expertise and influence to this survey.

PS. Check out our video series: Essential Skills – perspective, decision-making and the way forward.

Respectfully,  
Jonathan Côté

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## **Plant Off to Splashy Start**

New city facility makes cleaner water, reduces potential carcinogen

March 19, 2010

Along with smelling better, tasting better and being devoid of dangerous microbes, Winnipeg's drinking water now contains lower levels of chemical compounds suspected of causing cancers and miscarriages.

After going online in December, the Winnipeg Water Treatment Plant -- a \$300-million facility at the Deacon Reservoir, just east of the Red River Floodway -- has been praised for improving the clarity, odour and safety of the city's drinking water.

But new treatment processes at the plant have also reduced drinking-water concentrations of potentially dangerous compounds called trihalomethanes, project manager Tom Pearson said.

Trihalomethanes are toxic chemicals that form when chlorine comes into contact with organic matter. They tend to be present in large concentrations in water that originally comes from surface sources such as lakes, where algae are plentiful.

Since Winnipeg draws its water from Indian Bay on algae-rich Shoal Lake -- and used to rely solely on chlorine for water-treatment -- trihalomethanes became a serious concern after Health Canada recognized the potentially carcinogenic effects of the compounds.

Although the cause-and-effect relationship is not clear, trihalomethanes are suspected of causing colorectal cancer and reproductive problems in humans, according to Health Canada.

During the last decade, Health Canada reduced the maximum acceptable concentration of trihalomethanes in drinking water from 350 to 100 parts per billion. In the U.S., the Environmental Protection Agency sets the upper limit at 80 parts per billion.

As recently as February 2009, the trihalomethane concentration of Winnipeg's drinking water was 115 parts per billion. At the time, the city was using only chlorine and ultraviolet radiation baths to disinfect drinking water.

But when the water treatment plant went online in December, it began using a battery of new treatment processes that eliminate the potential for trihalomethanes to form, both by removing organic materials from drinking water and reducing the need to add as much chlorine.

Algae and other organic materials are now removed by chemically binding them together in a tank, floating up the clumps with tiny air bubbles then skimming the resulting muck off the surface. Winnipeg's drinking water is also treated with ozone and carbon filters, in addition to UV radiation and chlorine.

As a result, the concentration of trihalomethanes in Winnipeg's drinking water was only 80 parts per billion in February 2010, Pearson said.

While that's below the Canadian limit, Pearson believes Health Canada may soon follow the U.S. lead on trihalomethanes. So Winnipeg water-treatment engineers are exploring ways to reduce trihalomethane concentrations even further, possibly by cutting back on chlorine or by adding ammonia to the treatment process.

The latter move would be safe for humans but potentially toxic to pet fish. If the city chooses to add ammonia to drinking water, it would launch a public awareness campaign for pet owners.

By Bartley Kives

### **From lake to tap**

Winnipeg's new water treatment process, in eight easy steps:

1. Intake: Winnipeg draws its water from Indian Bay on Shoal Lake, near the Manitoba-Ontario border. Chlorine is added at the intake site. The gravity-powered Winnipeg Aqueduct then carries the water 156 kilometres to the Deacon Reservoir, east of the Red River Floodway. Pumps draw the water into the Winnipeg Water Treatment Plant.
2. Flocculation: In the first tank, a coagulant called ferric chloride is added to allow algae and other organic materials to clump together. Sulfuric acid is also added to increase acidity for treatment purposes.
3. Dissolved air flotation: Tiny bubbles float the clumps to the top of the next tank. The resulting brownish sludge is skimmed off and sent to a settling pond, where it eventually dries and becomes inert landfill.
4. Ozonation: In the next tank, ozone -- created at the plant -- is added to kill bacteria, improve taste and smell and also improve the performance of the filter in the next stage. Remaining ozone molecules are then removed by adding sodium bisulphite.
5. Filtration: Next, the water passes through biologically activated carbon filters, which are covered with a slime of beneficial bacteria. These bugs digest organic material, while the filters remove remaining particles in the water, including parasites.
6. Chlorination: In the next tank, chlorine -- also produced on site -- is added to kill viruses and bacteria. Sodium hydroxide is added to return the acidity to normal. The water then passes into a clear-well, an underground chamber that balances inward and outward pressure flows.
7. UV disinfection: Drinking water is then bathed in ultraviolet radiation for a few seconds to deactivate any remaining parasites, such as cryptosporidium and giardia.
8. Distribution: Fluoride is added to fully treated water to prevent tooth decay. Orthophosphate is also added to prevent lead from leaching into water from old pipes. Treated water then flows to three pumping stations and reservoirs. More chlorine is added before water flows into the city's distribution system and then to city homes and businesses.

Source: [www.winnipegfreepress.com](http://www.winnipegfreepress.com)

## **Burning Question Over Dead Wood**

City's disposal practices in 'dark ages'

March 20, 2010

An Alberta machine distributor has an axe to grind with the City of Winnipeg over 3,000 tonnes of tree limbs and trunks slated to be burned or buried in the Brady Road Landfill.

Over the course of a normal year, the city destroys about 4,000 tonnes of waste wood, most of it infested elm, as a result of ongoing Dutch elm disease-control and tree-pruning efforts.

In an effort to whittle down this figure, the city started a pilot project that saw some of the downed trees delivered to Wood Anchor, a Winnipeg wood-reclamation company that converts waste trees into flooring and other products. Even fungus-infested wood can be reclaimed by slicing interior pieces thin enough to be dried out in kilns.

Tree trunks or limbs that aren't large enough to slice into lumber must be ground up into three-centimetre cubes in order to dry out the wood and prevent the disease from spreading.

But no grinder exists in Winnipeg to handle the job, given the difficulty of chewing up twisted pieces of very hard elm. Most of the waste delivered to Wood Anchor -- somewhere between 3,000 and 3,500 tonnes -- is slated to be buried or burned by June 1 to prevent elm bark beetles from using the wood as a breeding habitat.

"We need to get this material dealt with immediately," said city forester Martha Barwinsky, citing provincial regulations governing Dutch elm disease. "This is a situation we have to act on right away."

But an Edmonton-based distributor of shredding, grinding and crushing machines believes none of the diseased elm needs to wind up in the landfill.

On Friday, The Groundworx Co. brought a German-manufactured Doppstadt shredding machine to Wood Anchor to demonstrate dry, hard elm can indeed be broken down. But the resulting wood shreds still need to be ground up further by a conventional grinder.

While ordinary grinders work too quickly to handle waste elm, shredders do the trick by working more slowly but with more power, said Grant Kergen, owner and sales manager for Groundworx.

The catch is the machine costs \$650,000 -- and there's no money in the city budget to grind up waste wood, let alone purchase or lease equipment for this purpose.

Right now, Winnipeg's arrangement with Wood Anchor doesn't cost the city a penny, said Barwinsky, who planned to view a demonstration of the shredder on Friday. The pilot project saves the city a few dollars, in terms of reduced tipping fees at Brady Road, she said.

Kergen said he is surprised Winnipeg has no means to deal with waste wood other than burying it or burning it, claiming other Canadian cities turn it into compost or use it as fuel for furnaces.

"What kind of dark ages does this city live in?" Kergen asked. "The city is thinking of the cheapest option. Nobody is trying to come up with a long-term solution. Burning wood is just archaic."

Kergen said he spent about \$12,000 to bring his shredder to Winnipeg for a demonstration. But he denied that's why he is upset with the city.

"Don't buy my machine. I don't care," he said. "Just solve your problem."

Along with elm, the city's waste wood includes disease-free ash and poplar.

By: Bartley Kives

Source: [www.winnipegfreepress.com](http://www.winnipegfreepress.com)

## ***National Interest***

### **Government of Canada Celebrates World Water Day With an Investment in Water Quality Research**

OTTAWA, Ont.: March 22, 2010

Canada's Environment Minister, Jim Prentice in partnership with Western Economic Diversification, today announced the Government of Canada's investment in water quality research at the Universities of Lethbridge and Saskatchewan.

"The international theme for World Water Day 2010 focuses on the importance of water quality. Here at home, the Government of Canada also sees water quality as a critical issue," said Minister Prentice. "By partnering with these universities on world class science, we are working to preserve Canada's water quality for today and future generations."

Today's investment totals \$3.75 million and will go towards research projects that will ultimately assist organizations in making environmentally-responsible decisions aimed at preserving water quality. Environment Canada will provide more than \$1.5 million of in-kind support and Western Economic Diversification will provide \$2.25 million.

"The Government of Canada is working to support innovative and knowledge-based research to find new products, technologies or services that address environmental sustainability issues such as water quality and water quantity," said Western Economic Diversification Minister Yelich. "Through investments in technology commercialization, we are preparing our economy for future growth and long-term prosperity."

"Access to and sharing of water and land use information and knowledge remains one of the most significant challenges to the development of responsible management policies and plans," said University of Lethbridge President and Vice-chancellor Dr. Bill Cade. "The Water and Environmental Sciences Hub will be used by governments, industry, academia and the public to make more-informed decisions regarding water and will create a better understanding of this resource."

"This collaborative project, which draws on outstanding research talent from our new School of Environment and Sustainability, the Saskatchewan Research Council, and Environment Canada, will not only have practical application for environmentally sound policy decisions around location of power plants, but will strengthen Canada's competitive edge as a global leader in water resource technology, training and innovation," said Karen Chad, University of Saskatchewan Vice-President of Research.

The projects complement Environment Canada's commitment to the Global Environment Monitoring System Water Programme (GEMS/Water) of the United Nations Environment Programme (UNEP), an international water science program that develops and maintains a global freshwater quality information system for use by all United Nations members. The program received additional federal funding last year.

In Alberta, the University of Lethbridge will lead the establishment of the Water Resource Technology Initiative (WRTI), a group that will initially develop the Water Hub, an interactive web-based platform that will be a repository for water data, mapping and imagery, and environmental science data. Information from the Water Hub will be available to help organizations develop water resource technologies.

At the University of Saskatchewan, researchers will develop software that can be used as a decision-support tool to help energy developers make environmentally-responsible decisions on power plant locations by determining the impact of power plants or other power-generating technologies on water quantity and quality in the

area. Once developed, the software will be marketed to utility companies, power generation equipment suppliers and governments.

Related document:

[Government of Canada celebrates World Water Day with an investment in water quality research](#)

[Backgrounder - 2010-03-22]

Source: [www.ec.gc.ca](http://www.ec.gc.ca)

## **Government of Canada Releases Draft Assessments for 17 Substances Included in the Chemicals Management Plan**

On March 20th, the Honourable Leona Aglukkaq, Minister of Health, and the Honourable Jim Prentice, Minister of the Environment, released the draft screening assessment reports for 17 substances assessed in Batch 9 of the Chemicals Management Plan. Proposed risk management information on Batch 9 substances was also provided for those substances considered likely to require actions to reduce risks.

"Chemicals play an important role in protecting our health and contributing to our quality of life," said Minister Aglukkaq. "Canadians want to know that the chemicals we use every day are managed properly and that is why the Government is committed to the Chemicals Management Plan and protecting the health and environment of Canadians."

"The Government of Canada has released assessments and, where warranted, risk management plans for nine of the 12 batches under the Challenge to Industry," said Minister Prentice. "The Government of Canada will continue to meet its commitment to Canadians by reviewing a new batch of substances every three months, and to make progress in safeguarding Canadians and their environment."

The Government is proposing five substances assessed in Batch 9 may pose a risk to human health (methyl eugenol, vanadium oxide, potassium bromate, NDTHPM and TGOPE).

Methyl eugenol is naturally-occurring in the essential oils of several plant species which may be used as a flavour ingredient in food and beverages. There are no human studies to indicate methyl eugenol in food poses a risk to human health. Methyl eugenol may also be used as a fragrance ingredient and softener in personal care products and cosmetics.

Vanadium oxide is an industrial chemical that is used in the manufacture of high-strength steel and sulphuric acid. It is also released to the environment primarily in association with particulate matter formed through combustion of heavy oil and coal in certain industrial sectors. Vanadium and its compounds also occur naturally in the environment (i.e., soil).

Potassium bromate is used primarily in industrial applications, including as an oxidizing agent, in Canada. NDTM is a synthetic azo-based dye that is primarily used as a colorant in non-food based paper. TGOPE is used in some epoxy resins and adhesives.

In addition to recommending the five substances proposed harmful to human health be added to Schedule 1 of CEPA, 1999, the Government is also proposing that a future use notification tool be applied to all five substances in addition to other risk management activities. This provision requires that the Government be notified of any new import, manufacture or use of these substances, and that human health and ecological screening assessments be completed before considering whether to allow these uses.

The Government is also recommending the Significant New Activity (SNAc) provision of the Canadian Environmental Protection Act, 1999 (CEPA, 1999), be applied to six other chemicals assessed in Batch 9 (Pigment Yellow 24, Pigment Red 88, Eosine Lead Lake, BDN, BDAC, and Solvent Red 49.) The Government's draft assessments indicate these substances do not pose a risk at this time under CEPA, 1999; however, this provision will require that the Government be notified of any new import, manufacture or use of these substances, and that human health and ecological screening assessments be completed before considering whether to allow these uses.

Notices containing summaries of the draft screening assessment reports were published in Canada Gazette, Part I, on March 20, 2010. The complete draft screening assessment reports for all Batch 9 substances and the proposed risk management scopes for the substances of concern can be found on the [Chemicals Management Plan website](#). Interested parties are encouraged to submit comments on the draft screening assessments and proposed risk management scopes before May 19, 2010

Source: [www.ec.gc.ca](http://www.ec.gc.ca)

## **Government of Canada Delivers on Wastewater Rules: Proposed Regulations Released Today**

OTTAWA, Ont.: March 19, 2010

Environment Minister Jim Prentice today announced that the proposed Wastewater Systems Effluent Regulations have been published in Canada Gazette, Part I beginning the formal 60-day public comment period.

"Last month, I released a public-consultation draft of the regulations because we wanted to hear back from Canadians. And today with the Canada Gazette posting, we are again listening to Canadians and working to make the proposed wastewater regulations law. These are concrete steps we are taking to make sure that Canadians continue to enjoy water that is clean, safe and plentiful for generations to come," said Minister Prentice. "

The Government of Canada is taking the lead in proposing regulations for municipal, community, federal and other wastewater systems, which include standards for national wastewater effluent quality and provide regulatory clarity for rules on reporting for more than 3,700 Canadian facilities. For those not already meeting the effluent quality standards, there is a proposed phase-in approach. For higher-risk wastewater effluent discharges, facilities will have up until 2020 to upgrade, whereas others would have until 2030 or 2040 depending on level of risk associated with existing effluent quality and environmental considerations.

"We are committed to continue working together with provinces, territories and municipalities to make this a reality," said the Minister. "These regulations will help us conserve and protect Canada's water quality. And I am happy to point out that this collaborative spirit and progress speak to the theme of "Clean Water for a Healthy World" that is the global focus of the upcoming World Water Day on March 22.

The regulations are the principal instrument that Environment Canada is using to implement the Canadian Council of Ministers of the Environment (CCME) Canada-wide Strategy for the Management of Municipal Wastewater that was endorsed in 2009.

The Government of Canada is partnering with provinces, territories and municipalities to make significant investments in water and wastewater infrastructure. Under Government of Canada infrastructure funds, including the Building Canada, Green Infrastructure, Stimulus and Gas Tax Funds, over \$3.25 billion has been spent or committed for wastewater and water infrastructure. Such projects are a top priority for these funds.

Canadians can now access the proposed regulations at <http://www.gazette.gc.ca/rp-pr/p1/2010/2010-03-20/html/reg1-eng.html>

## ***Forging Canada-Brazil R&D Partnerships to Help Entrepreneurial Researchers and Companies Exploit the \$100 Billion Global Biofuels Market***

ISTPCanada Hosts Bilateral Workshop on the Efficient Production of Cellulosic Biofuels

OTTAWA, Ontario: March 16, 2010

ISTPCanada is helping entrepreneurial researchers and companies to capitalize on the \$100 billion global biofuels market by supporting the development of new Canada-Brazil R&D and business partnerships in cellulosic ethanol.

Together with [Agriculture and Agri-Food Canada](#) (AAFC), the [NSERC Green Crop Network](#), the [Cellulosic Biofuels Network](#) and [Embrapa](#) (Agricultural Research Corporation of Brazil), ISTPCanada convened more than 50 scientists and delegates from academia, industry and government to explore opportunities for bilateral R&D and business cooperation at the Canada-Brazil Workshop on the Efficient Production of Cellulosic Ethanol on March 13, 2010 in Ottawa, Ontario. With a focus on the development and application of novel biofuels technologies, this initiative could help to stimulate increased trade, foreign investment and business opportunities that create competitive advantage for both countries.

The workshop brought together a Brazilian delegation led by Embrapa Agroenergy, and Canadian representatives from eight companies, 11 universities, and more than a dozen government departments and research networks with expertise in cellulosic biofuels. The event enabled participants to meet with prospective partners, identify key opportunities for Canada-Brazil R&D cooperation, discuss potential bilateral R&D projects and prospective sources of investment; and define the next steps. The group is planning a follow-up meeting in Brazil in July 2010 to explore initial implementation of select bilateral initiatives.

For more information, please review the complete [press release](#) or contact Sonya Shorey, Communications Strategist at 613.851.9416 or [sonyashorey@istpcanada.ca](mailto:sonyashorey@istpcanada.ca).

## **Business and Career Opportunities**

### ***Local***

#### **Centrallia 2010: VIP Information Breakfast**

March 26th, 2010

From October 20-22, 2010, more than 500 small to medium sized businesses from around the world will gather in Winnipeg, Manitoba, Canada, during Centrallia to form new business relationships of mutual benefit. This global business to business forum is your company's opportunity to forge profitable alliances with companies located in the Americas and across the world. Also present will be chambers of commerce, economic development agencies and government trade representatives from around the world, making this an excellent opportunity to learn about the nuances of exporting to numerous global markets.

This breakfast is your opportunity to learn more about the event and how to become involved in a truly exciting opportunity for Manitoba businesses.

#### Centrallia 2010: VIP Information Breakfast

When: March 26, 2010  
Where: Delta Winnipeg  
Time: 7:30am- 9:00am

Please RSVP by March 17th, 2010 to Rosanne Legal at 253-4888  
or [rlegal@animcanada.com](mailto:rlegal@animcanada.com)

[Click here for further details.](#)

For more information on Centrallia, please visit their website at [www.centrallia.com](http://www.centrallia.com).

#### **Call for Letters of Intent for the Lake Winnipeg Basin Stewardship Fund**

Deadline April 1, 2010

The Lake Winnipeg Basin Stewardship Fund (the Fund) is a \$3.65 million initiative that provides financial support for high-impact, solution-oriented projects that reduce

nutrient loads and/or improve the ecological sustainability of Lake Winnipeg and its basin.

Environment Canada is now accepting applications for the Spring 2010 funding round (Round 4). The Fund is now using a two stage process to assess eligible projects:

Stage 1: Letters of Intent are submitted and reviewed by Environment Canada against eligibility requirements. Once a Letter of Intent is deemed eligible, applicants will be invited to submit a detailed proposal.

Stage 2: Invited proposals will undergo a technical review and then be evaluated by a Public Advisory Committee that makes funding recommendations to the Minister of Environment.

The deadline for Letters of Intent for the Spring 2010 round is April 1, 2010.

Applicants are asked to submit Letters of Intent (maximum 2 pages using the attached template) as follows:

An electronic copy by email to [LW.Info@ec.gc.ca](mailto:LW.Info@ec.gc.ca), and

The original, signed Letter of Intent, by mail, to

Lake Winnipeg Basin Stewardship Fund

Environment Canada

Suite 150, 123 Main Street

Winnipeg, Manitoba, R3C 4W2

Further details on the Fund and the application process, including eligibility criteria and guidelines for Letters of Intent, are available at: <http://www.ec.gc.ca/paae-apcw/default.asp?lang=En&n=61284017-1>. If you have any questions about the Lake Winnipeg Basin Stewardship Fund and/or the call for Letters of Intent, please call 1-800-567-1570 or e-mail [LW.Info@ec.gc.ca](mailto:LW.Info@ec.gc.ca).

## **Internationally Educated Engineers Qualification (IEEQ) Program**

The IEEQ Program is a program in the [Faculty of Engineering, University of Manitoba](#) that accelerates the process by which internationally-educated engineers fulfill the academic qualification requirements of [APEGM](#) as part of the process toward registration as a P.Eng. in Manitoba.

Academic Coursework: Internationally-educated engineers enrolled in the IEEQ Program take senior-level technical and design courses in the Faculty of Engineering (September through April). Courses include Engineering Economics,

Practicing Professional Engineering in Manitoba, and technical and design courses chosen in the area of the Confirmatory Exams assigned by APEGM  
Paid Co-op Work Experience: Internationally-educated engineers enrolled in the IEEQ Program are placed in paid employment with an employer in their engineering discipline (generally May through August).

Cultural Integration Support: Internationally-educated engineers enrolled in the IEEQ Program also take part in an intensive year-long orientation to the business practices, professional culture, and professional ethics of engineering Canada, language tutoring, and networking opportunities with practicing engineers.

Most internationally-educated engineers enrolled in the IEEQ Program will be able to complete the IEEQ Program in 12 months. However, a 24-month option is also available.

For more information, click [here](#)

## **Capturing Opportunities Awards Celebrate Community Volunteers, Achievements, Corporate Partnerships: Struthers**

Nominations Now Being Accepted For 2010 Awards

January 19, 2010

Capturing Opportunities, Manitoba's rural business forum, will honour the achievements of volunteers and corporate partnerships that benefit Manitoba's rural communities in April, Agriculture, Food and Rural Initiatives Minister Stan Struthers announced today.

"Manitobans know who the movers and shakers are in their communities, the go-to people who can be counted on to get things done and which companies offer support to community activities," said the minister. "These are the people and companies who create the success stories that benefit our rural and northern communities. This will be the opportunity to give them the official recognition they so richly deserve."

The annual Capturing Opportunities forum will take place at the Keystone Centre in Brandon on April 22 and 23. Capturing Opportunities awards are presented at the celebration banquet at the Keystone Centre on Thursday, April 22.

Nominations are now being accepted for the four award categories:

- Outstanding Community Leadership - for individuals who have made significant and notable contributions for the betterment of their community or region, who have served as a catalyst for positive action and exhibit the highest standards of community leadership, dedication, ability and innovation.
- Economic Development Innovation - for organizations or municipalities whose actions illustrate innovation in community development, build on the resources of the community, respond to challenges and opportunities, and demonstrate outcomes in rural economic development.
- Rural Youth Achievement - for individuals, associations or municipalities whose activities enable youth to take action on their concerns.
- Economic Development Innovation Corporate - for businesses whose corporate actions illustrate innovation in community economic development through co-operation with community partners, build on the resources of the community, respond to changes, challenges and/or opportunities, and demonstrate outcomes in rural economic development.

Award winners will receive a commemorative artistic glass award and \$1,000 to contribute to a community organization of their choice.

"Our province is proud to recognize the hard work and dedication of community participants of all ages and from all walks of life, organizations, municipalities and businesses that use their leadership, communication and organizational skills, energy and enthusiasm to bring about the positive changes that make their communities and regions a better place to live and work," said Struthers.

Nomination forms are available at any GO office, by contacting the Capturing Opportunities office at 1-800-933-9863 or online at [www.capturingopportunities.ca](http://www.capturingopportunities.ca).

Nominations will be accepted until noon on Thursday, April 1.

Source: [www.gov.mb.ca](http://www.gov.mb.ca)

## ***National***

### **Director, Environmental Assessment**

Saskatchewan's Ministry of Environment is seeking an energetic, motivated individual to lead the Environmental Assessment Branch in the Ministry's Division of Environmental Assessment, Lands and Aboriginal Affairs.

You will lead a team of 12 staff in implementing the Province's environmental assessment program and processes. As well, you will be a member of the Ministry's Senior Management Committee and help ensure that implementation of the environmental assessment program supports the Ministry's overall objectives for results based regulation.

The Director is expected to ensure that:

- environmental assessment processes are implemented consistently across the range of projects and developments under review by branch staff in conformity with the legal requirements of The Environmental Assessment Act;
- proponents are aware of their responsibilities and obligations;
- other branches of Environment and the government understand their role in environmental assessment and make best use of opportunities to contribute to the assessment process;
- joint environmental assessments with the federal government meet the objectives of the Canada-Saskatchewan Agreement on Environmental Assessment Cooperation;
- and
- the Minister of the Environment is provided with the appropriate information and analysis on which to base decisions about the acceptability of the environmental impacts of projects and developments subject to the Act.

In addition, the Director is expected to lead processes that result in continuous improvement of the Provinces' environmental assessment processes. Objectives are:

- to ensure that environmental assessment processes are as efficient as possible while maintaining or enhancing their effectiveness at protecting the environment;
- to identify opportunities to cooperate with other programs of the Ministry or the government and integrate those opportunities into the structure and operation of environmental assessment processes; and
- to implement a new results based regulatory model for environmental assessment.

The ideal candidate will have outstanding leadership, coaching, organizational, interpersonal and communications skills; knowledge and practical experience with environmental protection legislation and its administration; and, a solid understanding of the history, objectives and operation of provincial and federal environmental assessment processes.

The knowledge required for this position would be obtained through a post-graduate academic degree involving studies related to environmental engineering, environmental sciences or other appropriate discipline and significant industrial experience. Experience in environmental, social or economic impact assessment with government or industry would be preferred. The skills required would typically be demonstrated over 10 or more years of progressively responsible, related experience including more than one supervisory or management role.

This position was previously advertised from December 7th to the 18th. Candidates need not reapply.

To apply, visit [www.careers.gov.sk.ca](http://www.careers.gov.sk.ca)

MAN001147, Regina, Environment

CLOSING DATE: March 24, 2010

### **Field Coordinator**

Lake Winnipeg Research Consortium Inc.

The Lake Winnipeg Research Consortium Inc. (LWRC) requires a person to coordinate all science-related activities on board the LWRC research vessel MV NAMA0 during the 2010 field season on Lake Winnipeg. Three research surveys (spring, summer, fall), approximately 25 days each, will take place during the open water season. The vessel carries a crew of 9 sailors with berths for an additional 7 science staff, one of which is the Field Coordinator. A total of 60 sampling stations will be visited during each survey and a variety of sampling devices will be deployed at each site while the vessel is at anchor. During inter-station travel, trawling is undertaken to evaluate the forage fish community of Lake Winnipeg.

For more information, click [here](#)

### **Sustainable Development Technology Canada Announces Latest Call for Clean Technology Funding Applications**

Sustainable Development Technology Canada (SDTC) is calling on entrepreneurs and technology developers across Canada to submit Statements of Interests to the SD Tech Fund™, as SDTC opens its 17th round of funding.

"Investing in promising clean technology solutions developed in Canada is key to creating the smart, green jobs of the future," said SDTC President and CEO Vicky Sharpe. "More than ever, cleantech is becoming an economic driver for the Canadian economy, as well as other global economies. SDTC funding provides a critical boost to promising Canadian cleantech companies to become market-ready and export-ready".

SDTC is a not-for-profit corporation created by the Government of Canada to finance and support the late-stage development and pre-commercial demonstration of clean

technologies. SDTC helps companies through the critical juncture when capital and scaling costs become formidable challenges and the risk profile deters many other investors.

Since its creation in 2001, SDTC has allocated \$464 million to 183 clean technology projects. An additional \$1.1 billion has been leveraged from project consortia members, for a total portfolio value of \$1.6 billion.

"SDTC's thorough review process helps clean technology developers strengthen and refine their value proposition to other investors, industrial partners and customers," said Sharpe. "Although funding is important, providing developers with the tools they need to reach the market is also key to their success."

While applications for nearer-to-market technology innovations that deliver clean air benefits and GHG reductions are encouraged, SDTC is also particularly interested in clean water and clean soil technology solutions.

SDTC recently released an SD Business Case™ report on Industrial Transportation - the sixth in a series of comprehensive sector reports which highlight priority investment areas for the fund. SDTC also encourages technology developers with solutions that address priority investment themes related to this sector or any of the others examined by the SD Business Case™ reports to apply for funding. The SD Business Case™ reports are available in the Knowledge Centre section of the SDTC website at [www.sdtec.ca](http://www.sdtec.ca).

SDTC is accepting applications until April 21, 2010. Potential applicants are requested to first review the application process and funding requirements at [www.sdtec.ca/en/SOInfo.htm](http://www.sdtec.ca/en/SOInfo.htm) and then schedule an initial call with an Applications Manager by emailing [applications@sdtec.ca](mailto:applications@sdtec.ca).

#### About SDTC

Sustainable Development Technology Canada (SDTC) is an arm's-length foundation created by the Government of Canada which has received \$1.05 billion as part of the Government's commitment to create a healthy environment and a high quality of life for all Canadians.

SDTC operates two funds aimed at the development and demonstration of innovative technological solutions. The \$550 million SD Tech Fund™ supports projects that address climate change, air quality, clean water, and clean soil. The \$500 million NextGen Biofuels Fund™ supports the establishment of first-of-kind large demonstration-scale facilities for the production of next-generation renewable fuels.

SDTC operates as a not-for-profit corporation and has been working with the public and private sector including industry, academia, non-governmental organizations

(NGOs), the financial community and all levels of government to achieve this mandate.

## **Global Commerce Support Program - Going Global Innovation**

Are you:

- a Canadian company or researcher?
- wanting to work with a foreign partner?
- looking to solidify a international partnership for future [R&D collaboration?](#)

If you said "yes" to the all the questions above - then Going Global Innovation funding is right for you.

Going Global Innovation

Going Global Innovation (Going Global) is the innovation, science and technology pillar of the Global Commerce Support Program (GCSP). The GCSP provides a client focused consolidated approach for accessing funding sources from DFAIT in order to attract [foreign direct investment](#), increase Canadian innovation and commercialization opportunities and to [increase Canada's business share in foreign markets](#).

The objective of Going Global is to promote and enhance Canada's international innovation efforts by supporting Canadian companies and/or researchers in pursuing international R&D collaborative opportunities through the development of partnerships with key players in other countries/economies.

Who is Eligible?

Canadian researchers from private [companies](#), universities, and non-government research centres

For more information, click [here](#)

## ***International***

### **Canada Trade Mission to Greece and Turkey - May 2010**

The Government of Canada's Department of Foreign Affairs and International Trade (DFAIT) is organizing a trade mission to Istanbul, Turkey, and Athens, Greece in May 2010. A formal letter of invitation will follow shortly.

Following closely on the heels of the Vancouver 2010 Olympic Games, Canada's profile will be prominent on the world stage making this an ideal time to showcase Canadian capabilities in key sectors throughout Greece and Turkey. This mission will help raise Canada's commercial profile with key decision makers and potential clients. Canadian companies will also benefit from the new Canada-Turkey and Canada-Greece Double Taxation Agreements.

The mission will focus on an array of opportunities in the following sectors (please see attached market overviews for more information):

In Greece the focus will be on Agriculture and Agri-Food; Aerospace and Defence; Clean Energy; Environment; and Information and Communications Technology (ICT).

In Turkey the focus will be on Aerospace; Clean Energy; Environment; ICT; and Mining.

**Aerospace and Defence:** Greece holds promising opportunities in aircraft and aerospace systems. Opportunities in Turkey abound in both civil and military aircraft - in corporate-use fixed and rotary wing aircraft; and in parts and accessories for civilian and military aircraft, including engines and landing gears.

**Agriculture and Agri-Food:** The food industry in Greece is one of the most profitable and fastest growing sectors with significant export potential. Turkey has a strong processed and value-added agri-food sector. Current Canadian agri-food trade includes lentils, canola seeds, wheat, corn, food industry residues, hatching eggs, bovine semen, and pet food.

**Clean Energy:** With strong growth in domestic demand in both countries, there are many opportunities in wind power, solar power, photovoltaic panels, hydrogen fuel cells, biomass, hydro and nuclear technology. The Turkish government is implementing financial incentives to attract investors in this sector.

**Environment:** Both Turkey and Greece have taken measures to deal with serious environmental challenges resulting in new business opportunities. In the Greek market there is strong growth potential in waste management and environmental equipment and services. The Turkish market offers opportunities in air and water purification technologies, waste water treatment, solid waste disposal, environmental impact studies, and waste containment and handling for mining industries.

**ICT:** These markets are rife with opportunity in equipment and services in software, hardware and wireless technology.

**Mining:** Turkey is among the richest countries in the world in terms of mineral deposits. Ever since the implementation of a new Mining Law, enacted in 2005 and

designed to liberalise the business environment in the sector, mining exploration licenses, and FDI, have shown significant growth.

This trade mission will help you access the many opportunities in these important markets by actively promoting your technologies and expertise. We will build on Canada's world-renowned reputation in these priority sectors to increase both our growth potential and partnerships. A conference call for interested companies to learn more about the opportunities in these markets will be organized in February 2010. Details will follow early in the New Year.

Those of you who have been on previous Canada trade missions will be familiar with their tremendous value to Canadian companies. Trade missions provide various networking opportunities and access to key local businesses and government contacts. Such opportunities will impact your current and future business endeavours considerably.

We are seeking Canadian companies with the expertise and capacity to provide needed services and/or products to the Turkish and Greek markets.

To receive an invitation package to participate in the trade this mission, please complete the attached form and return it to me by email or fax:

Brigitte Martin

Business Development Officer, International Trade Missions Division,  
Foreign Affairs and International Trade Canada

Tel.: 613-944-7072 Fax: 613-995-8669 or [brigitte.martin@international.gc.ca](mailto:brigitte.martin@international.gc.ca)

## **Upcoming Conferences/Events/Trade Shows**

### ***Local***

#### **Cloud Computing- The Next Evolution of Business with Mark Driver, Gartner**

April 7, 2010

Fairmont Winnipeg

How will cloud computing be defined and evolve?

How will cloud computing affect the strategy and direction of IT and business?

Which vendors, markets and industries will be transformed by the cloud computing phenomenon?

"Cloud computing" is a style of computing where scalable and elastic IT-related capabilities are provided "as a service" to external customers using Internet technologies. It heralds an evolution in business ? no less influential than the era of e-business ? in both positive and negative ways.

Cloud Computing has become a hot industry term that's been used in many contradictory ways. Overall, there are very real trends toward cloud platforms and also toward massively scalable processing. Virtualization, service orientation and the Internet have converged to sponsor a phenomenon that enables individuals and businesses to choose how they'll acquire or deliver IT services, with reduced emphasis on the constraints of traditional software and hardware licensing models.

Services delivered through the "cloud" will foster an economy based on delivery and consumption of everything from storage to computation, to video, to finance deduction management. This presentation defines cloud computing, exposes potential risks and opportunities, and examines the next evolution of business.

Date: April 7, 2010  
Location: Fairmont Winnipeg  
Time: 7:30 A.M. ? 9:30 A.M. (includes a hot buffet breakfast)  
Cost: ICTAM and CIPS Members:\$35.00  
Non-Members: \$70.00  
Info: Nancy at (204) 944-0533 or [nancy@ictam.ca](mailto:nancy@ictam.ca)

Program:  
7:30am Registration, Breakfast and Networking  
8:00am Welcome and Opening Remarks  
8:10am ICTAM's Salary Survey  
8:30am Presentation, Mark Driver, Gartner  
9:15am Q & A  
9:30am Adjourn

Cancellations:  
Cancellations are accepted until noon, April 5, 2010. ICTAM is required to pay for guaranteed attendance therefore all registered participants who do not cancel by April 5th will be invoiced regardless of whether they attend the event. Substitutions are welcome.

Promotional Partner  
ICTAM would like to acknowledge and thank CIPS Manitoba for being a promotional partner for this event.

Meet Our Speaker  
Mark Driver, Research VP, Gartner

Mark Driver is a vice president and research director in Gartner Research, where he specializes in application development technologies, open-source software and multiple computing platforms. Within Gartner, Mr. Driver serves as a principal analyst for Java technology, as well as the Microsoft .NET framework. He is also the principal analyst covering the business and technical issues of the open-source software model and cloud computing. He covers many aspects including adoption challenges, best practices, market impact and development models.

Prior to joining Gartner, Mr. Driver was a technical architect and project leader for more than 15 years in the IT industry, where he focused on distributed open systems development. He worked in several areas including state government, commercial software vendors and in-house IT groups.

[Click Here for more information and to Register online](#)

If you have any questions, please contact Nancy at (204) 944-0533 or [info@ictam.ca](mailto:info@ictam.ca)

## **Better Buildings Conference**

Manitoba Chapter, Canada Green Building Council  
April 13 – 14, 2010

Find out about:

The newest and most up-to-date information on Sustainable/Green Buildings with a focus on Manitoba

How to incorporate innovative design, technology, and operational best practices in your building project

Enhanced building performance

How being environmentally conscious can positively impact your bottom line

Tips and tools for greening your workplace

Registration opens in January 2010. Visit us at: [www.betterbuildings.org](http://www.betterbuildings.org)

## **Make Energy Efficiency a Top Priority**

April 28 – 29, 2010  
Winnipeg

Wednesday, April 28, 2010: Spot the Energy Savings Opportunities

Thursday, April 29, 2010: Energy Monitoring

Spot the Energy Savings Opportunities:

A full-day workshop that will help you identify low-cost ways to cut energy consumption in your organization using a 7-step process.

Energy Monitoring:

A full-day workshop that focuses on how your organization can save energy through systematic monitoring and analysis. Participants are encouraged to bring a laptop computer to gain the most benefit from workshop activities.

For more information contact: Genevieve Thachik at 613-943-2361 or [genethac@nrcan.gc.ca](mailto:genethac@nrcan.gc.ca), or Stephanie Roy at 613-996-0763 or [steroy@nrcan.gc.ca](mailto:steroy@nrcan.gc.ca)

More information and Registration [here](#)

## **IBPSA – Canada eSim 2010**

May 19 – 20, 2010

Manitoba Hydro Place, Winnipeg

IBPSA – Canada's biennial conference, eSim, brings together professionals, academics and students interested in building performance simulation issues and applications. The 2010 conference is hosted by Manitoba Hydro, in collaboration with the National Research Council of Canada.

For more information, click [here](#)

## ***National***

### **Global Positioning Systems (GPS): Principles and Applications (1.2 CEUs)**

March 29 – 30, Edmonton, Alberta

Edmonton Information:

[Global Positioning Systems \(GPS\): Principles and Applications \(1.2 CEUs\)](#)

## Description

Basic concepts of satellite positioning. Overview of datums and coordinate systems. Description of GPS satellite orbit; GPS signal structure, GPS modernization, pseudorange and carrier-phase measurements, linear combinations of GPS observables; GPS errors and biases; absolute and relative positioning; static, kinematic and real-time kinematic (RTK) GPS positioning' ambiguity resolution techniques; practical considerations; GPS augmentations. Other regional and global navigation satellite systems (GNSS).

## **Taking It To the Next Level**

Innovations for EHS Practitioners and Auditors  
AAC Annual Conference

April 19 – 21, 2010  
Delta Lodge at Kananaskis, Alberta

A must-attend conference for those working in the environmental, health and safety fields.

For more information, click [here](#)

## **WaterTech 2010**

The premier water technology transfer event for environmental professionals.

April 21 – 23, 2010  
Fairmont Banff Springs

The final program for the 3rd Annual WaterTech Symposium is now available on-line at: <http://www.esaa-events.com/watertech/agenda.htm>

The WaterTech 2010 program will feature:

- 36 technical presentations

- a dedicated afternoon stream of Regulatory Updates
- Keynote presentations featuring:
- Brian Skerry, Underwater Ocean Photographer, National Geographic Magazine
- Patricia Mulroy, General Manager, Southern Nevada Water Authority
- 40 exhibitors
- a number of industry networking opportunities.

For complete event and registration information for WaterTech 2010, visit:  
[www.esaa-events.com/watertech/](http://www.esaa-events.com/watertech/)

### **Project Delivery - A Successful Strategy from Concept to Completion (1.2 CEUs)**

Global Innovative Campus

April 22 – 23, 2010  
Hilton Winnipeg  
1800 Wellington Avenue

For more information please go to <http://www.gic-edu.com/coursedetail.aspx?id=435>

### **15th Annual Contaminated and Hazardous Waste Site Management Course**

Theory, Practice & Outdoor Field Demonstrations

May 3-7, 2010  
Toronto, Ontario, Canada

2010 Course Registration OPEN

GOwen Environmental, the Association for Environmental Health and Sciences and the International Association of Hydrogeologists present Contaminated and Hazardous Waste Site Management, a comprehensive course that provides a solid theoretical and practical foundation in contaminated site management. The Course has been developed especially for individuals who manage, regulate, investigate, remediate, or are impacted by contaminated sites. Managing these sites is a

multidisciplinary task, therefore, integrating several disciplines is necessary to efficiently and economically manage or make decisions regarding site issues.

For more information click [here](#)

## ***International***

### **Community Heat that Works!**

A unique Bio-Heat Tour + Information Session

April 20-22, 2010  
Burlington, Vermont

Join us for a three-day tour in Vermont—the state with more installed bioenergy than anywhere else in North America.

The Canadian Bioenergy Association (CanBio) is helping Canadian communities shift from fossil-fuel heat to local, money-saving and environmentally-friendly bio-heat. Whether you are in the final planning stages of installing a community bio-heat system, or you're curious about the potential for biomass heating in small, medium, and large public buildings—this study tour is the perfect opportunity to get a first-hand look at bio-heat installations that work.

This two-day study tour and one-day information session will show you how wood chips and pellets are being used economically to heat public schools, colleges, courthouses, and other institutional buildings, as well as run a 50MW power plant. \$400 (incl. GST)

For more information, click [here](#)

### **World Bioenergy 2010**

May 25-27, 2010  
Jonkoping, Sweden

Conference and Exhibition on Biomass for Energy

For more information, click [here](#)

## **Water in Mining 2010**

II International Congress on Water Management in the Mining Industry  
Santiago, Chile  
June 9 - 11, 2010

The theme is "Protecting Water Quality: Reconstituting the Natural World".  
For additional information, please contact:  
Olga Cherepanova, Event Coordinator [wim@wim2010.com](mailto:wim@wim2010.com)  
or visit the website at [www.wim2010.com](http://www.wim2010.com)

Air and Waste Management Association's 103rd Annual Conference & Exhibition

## **Energy and Environment**

June 22 - 25, 2010

Exhibition: JUNE 22 – 24  
Calgary Telus Convention Centre  
Calgary, Alberta

For more information, please visit, [www.cpans.org/ACE 2010](http://www.cpans.org/ACE 2010)

## **World Congress on Industrial Biotechnology and Bioprocessing**

June 27 – 30, 2010  
Washington, D.C.

The World Congress on Industrial Biotechnology and Bioprocessing will bring together scientists, industry and government leaders, and academia from around the globe to exchange ideas about the growing biotechnology industry.

Attendees will enjoy presentations various topics including biotechnology for climate change, cellulosic biofuels, renewable chemical platforms, energy from algae, specialty chemicals, food ingredients and more.

This unique conference will feature dynamic plenary sessions, international networking opportunities, and business partnering meetings. Sponsorship and exhibition opportunities are available; please contact us at [worldcongress@bio.org](mailto:worldcongress@bio.org) or 202-962-6630.

For more information, please go to: <http://bio.org/worldcongress>