



# Information Bulletin

## April 26, 2010

### MEIA Gold Charter Members



### Silver Charter Member





## MEIA Information Bulletin for April 26, 2010

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## **MEIA**

### ***MEIA Events***

#### **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 ENVR2010.

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

Register [here](#) View draft agenda [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

Registration & Lunch: 11:00 a.m.  
Tee Off: 12:00 p.m. sharp  
Dinner 5:00 p.m.

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!)

For more information see [www.meia.mb.ca](http://www.meia.mb.ca)

[Register](#) [Sponsor](#)

## **Enercan West**

November 25, 2010  
Fort Garry Hotel, 222 Broadway, Winnipeg

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 to enquire about sponsorship levels and benefits.

## ***MEIA News***

### **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***

#### **Electronic Waste Recycling, Household Hazardous Waste (HHW) Programs Available Throughout Province**

More Than 1.5 Million Kilograms of E-waste, 750,000 Kilograms of HHW Diverted from Landfills by Manitobans in 2009: Blaikie

April 21, 2010

Manitobans are turning in more e-waste for recycling each year since the launch of Manitoba's first collection program in 2007, Conservation Minister Bill Blaikie announced today.

"Considering the amount of electronic technology available to consumers, it's not surprising that e-waste makes up a significant portion of waste on the planet," said Blaikie. "Manitobans are recognizing that fact and are being environmentally responsible by using the e-waste collection depots throughout the province."

Beginning May 1, Manitobans will have access to 29 e-waste collection depots located throughout the province under the E-waste Roundup program, the minister said. Ten of the sites will offer year-round collection services. The remaining 19 sites will be open to the public until the end of October. A list of e-waste recycling depots is available at [www.greenmanitoba.ca](http://www.greenmanitoba.ca).

Under the program, electronic waste depots accept the following materials at no charge when they are from residential sources: TVs, VCRs, stereos, microwaves, phones, computer equipment, laptops, printers, scanners, fax machines and copiers. All e-waste collected is sent for proper end-of-life recycling and no materials are sent to landfills.

More than 1.5 million kilograms were recycled in the 2009 E-waste Roundup program, surpassing the total combined collection amount in both the 2008 and 2007 programs. Since 2007, when the provincial E-waste Roundup program began, more than 2.6 million kilograms of residential e-waste have been collected and sent for responsible end-of-life recycling.

It is estimated that every tonne of recycled e-waste diverted from landfills prevents about a tonne of greenhouse gas emissions. Since 2007, Manitoba has recycled

more than 2.6 million kilograms of e-waste and avoided an estimated 2,400 tonnes of greenhouse gas emissions from being released into the environment.

“Since 2007, the provincial government has invested more than \$3 million to support the network of e-waste collection depots, as well as the transportation and environmentally responsible processing of obsolete or unwanted electronic equipment,” said Blaikie.

The Household Hazardous Waste (HHW) program will also be available again in 2010. Last year, HHW depots received more than 750,000 kilograms of HHW at 35 collection events held in the province. A record 8,133 vehicles visited the collection depots, clearly demonstrating Manitobans’ interest in ensuring this waste is properly disposed of and kept out of landfills, said Blaikie.

HHW includes waste items such as paints, solvents, corrosive cleaners, pesticides, batteries and pressurized gas containers.

From April to September, Miller Environmental’s Winnipeg depot at 1803 Hekla Ave. will be open the first and last Saturday of each month from 9 a.m. to 4 p.m. These hours are reduced from October to March when Miller’s Winnipeg depot is open the first Saturday of the month only. However, Winnipeg residents can also book a weekday appointment through Green Manitoba’s Online HHW appointment system or by calling Miller Environmental directly at 925-9600.

Scheduled rural and northern HHW events include:

- May: Steinbach (May 8), Brandon (May 15);
- June: Winkler (June 12), Selkirk (June 19);
- September: Portage la Prairie (Sept. 11), Dauphin (Sept. 20), Swan River (Sept. 21), The Pas (Sept. 22), Flin Flon (Sept. 23), Thompson (Sept. 25); and
- October: Brandon (Oct. 9).

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

## **No Slacking Off for Consulting Engineers**

April 23, 2010

It's a good time to be an engineering consultant, and that's also good news for the province's construction industry.

"The last five years have been as busy as it's ever been," Harley Pankratz, president of Consulting Engineers of Manitoba Inc., said, and this year is shaping up to be just as busy.

And the awards of excellence go to...

Here are this year's winners of Manitoba Awards of Excellence in Engineering:

Keystone Award:

-- AECOM Canada Ltd. and Crosier Kilgour Partners Ltd. for their work on Manitoba Hydro's award-winning downtown highrise office tower. AECOM provided the mechanical and electrical services and Crosier Kilgour provided the structural engineering services.

Engineering Awards:

-- AECOM and Crozier Kilgour Partners in the building engineering category for the Hydro project.

-- Accutech Engineering Inc., also in the building engineering category, for development of a new senior school in Arviat, Nunavut.

-- Crosier Kilgour & Partners, (infrastructure/transportation), for restoration of the 1914 Waddell fountain in Central Park.

-- AECOM, (environmental), for a project to remediate and redevelop several contaminated properties in Brandon.

-- Teshmont Consultants LP, (energy resource development), for providing a cost-effective solution for replacing PCB-filled AC filters, two HVDC converter stations and some aged, non-PCB-filled capacitors for Great River Energy.

-- KGS Acres Ltd., (municipal & water technology), for retrofitting the waste-water collection system at Manitoba Hydro's Pointe du Bois generating station.

Awards of Merit:

-- MMM Group Ltd., (infrastructure/transportation), for preparing design build documents and functional planning study for the CentrePort Canada Way inland port project in Winnipeg.

-- J.R. Cousin Consultants Ltd., (environmental), for designing a new solid waste disposal facility for the Town of Lynn Lake.

-- AECOM, (municipal & water technology), for its work on a new membrane-treatment water-waste treatment facility for the City of Brandon.

-- AECOM, (municipal & water technology), for its assistance in designing and constructing a new marine water main for the City of Kenora.

Lifetime Achievement Award:

AECOM Canada Ltd., for construction of a railway bridge and embankment at Emerson as part of floodway expansion.

-- George Rempel, co-founder of TetrES Consultants, for his individual achievements, leadership and contributions to consulting engineering over 35-plus years.

Engineering Action Award:

-- Ralph Kurth, president of Teshmont Consultants LP, for service and dedication to the Consulting Engineers of Manitoba Inc.

Rising Star Award:

-- Beth Phillip, emerging as a leader in the early stages of her career through outstanding engineering achievements and involvement with CEM.

-- Source: CEM Inc.

"Most people have as much work as they can handle."

A CEM official once said the role of an engineer is to "take the vision and all of the other things an architect wants to do, and make it a reality."

So when engineers are busy, that means a lot of new projects are proceeding. And that means more work for contractors and tradespeople.

It also usually means more jobs for engineering-industry workers, which include engineers, technologists, scientists and geologists.

Pankratz said industry officials are anticipating a modest increase in employment levels this year, although it won't be as big as last year's five to 10 per cent gain.

Pankratz was commenting as the industry prepared to honour 2009's best engineering projects at its 11th annual Manitoba Awards of Excellence in Consulting Engineering dinner, which was held Thursday night at the Winnipeg Convention Centre.

Twelve company awards and three individual awards were handed out, with the top honour -- The Keystone Award -- going to AECOM Canada Ltd. and Crosier Kilgour Partners Ltd. for their work on Manitoba Hydro's award-winning downtown highrise office tower.

"Manitoba Hydro Place has drawn attention from around the world and serves as a model of excellence internationally on how a project can be developed from the onset with sustainability in mind and utilize natural passive systems to create dynamic efficiencies in energy usage and human comfort," the CEM said in announcing this year's award winners.

A total of 23 projects were submitted for this year's competition. AECOM was the big winner, with five awards.

Pankratz said one of the reasons the engineering sector never experienced a slowdown during last year's recession is there were a number of ongoing projects that got underway before the downturn and continued into 2009. The Hydro building was an example of that and the airport redevelopment was another.

A flurry of new government infrastructure projects also helped to offset a slight decline in commercial and mining-industry projects last year, he said. And this year there seems to be just as much infrastructure work and the number of commercial and mining-related projects is starting to pick up again, he said.

By: Murray McNeill

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

## **Wardrop Acquires Hydromantis, Inc. of Cambridge, Ontario**

Toronto: April 2, 2010

Wardrop, A Tetra Tech Company (Wardrop), announced today that it has acquired Hydromantis, Inc. (Hydromantis) of Cambridge, a firm of 17 employees specializing in the optimization and design of wastewater and water treatment systems. This acquisition expands Wardrop's integrated services and project management capabilities with immediate benefits to Wardrop's Infrastructure Division. The terms of the transaction were not disclosed.

"This is an exceptional opportunity for Wardrop," said Shayne Smith, President of Wardrop. "Broadening Wardrop's design and execution capabilities in the areas water and wastewater is an important component of our national Infrastructure expansion program. The integration of Hydromantis is a natural evolutionary step for us, and expands our technical skill base while broadening our geographic presence. We welcome the Hydromantis team to Wardrop."

"We are excited to bring our combined expertise and resources to our existing and future clients," said Mike Newbigging, President of Hydromantis. "By joining Wardrop, we can accelerate our expansion plans and bring additional expertise and diversity to the industry. The common vision and goals of both Wardrop and Hydromantis provide a powerful platform for collaboration. We see a bright future working together."

About Hydromantis ([www.hydromantis.com](http://www.hydromantis.com))

Hydromantis, Inc. is a Cambridge based environmental consulting firm providing total engineering solutions for the optimization and design of Water and Wastewater treatment. Hydromantis has the capabilities and experience to complete projects from initial conception through to detailed design, construction management, commissioning, operation and training of facility staff.

About Wardrop ([www.wardrop.com](http://www.wardrop.com))

Wardrop, A Tetra Tech Company, is a multi-disciplined consulting and engineering firm that provides innovative solutions for the natural resource management, energy, and infrastructure markets globally. Wardrop currently has 1,000 employees who work collaboratively throughout its North American and overseas operations. Wardrop is part of Tetra Tech (NASDAQ: TTEK), a leading provider of consulting, engineering, program management, construction, and technical services. The combined companies have more than 10,000 employees worldwide and capabilities that span the entire project lifecycle.

## **Province Helping Industry Help the Environment**

Green Building Products Online Directory Will Help Build a Greener Manitoba:  
Blaikie

April 13, 2010

The launch of the Manitoba Green Building Products Directory will help industry help the environment, Conservation Minister Bill Blaikie and Marten Duhoux, chair of the Canada Green Building Council Manitoba Chapter, announced today at the Better Buildings Conference in Winnipeg.

The directory is a partnership between Green Manitoba, a special operating agency of the Manitoba government, and the Manitoba Chapter of the Canada Green Building Council. It lists environmentally preferable building products and materials for the construction, renovation and operation of commercial and institutional buildings.

Green Manitoba ([www.greenmanitoba.ca](http://www.greenmanitoba.ca)) is a service delivery agency for government departments and a wide range of public- and private-sector organizations to help create a greener and cleaner Manitoba.

“The new, web-based directory will make it much easier to find and incorporate locally available products for green construction projects that will ultimately benefit Manitobans and our environment,” said Blaikie. “Though our Green Building Policy, the province is a national leader, incorporating sustainability in its construction and supply needs planning.”

Duhoux, who represents a growing number of Manitoba businesses who want to build to LEED (Leadership in Energy and Environmental Design) specifications says this new website will help architects, interior designers, landscapers and trades source everything from recycled beams to green insulation to paving stones created from recycled tires available in Manitoba.

“LEED builders earn points for not just using green products but reducing transportation costs and greenhouse gases by using materials available within 100-mile radius. For LEED, the grass is greener on this side of the fence,” Duhoux said.

Local green building products will be easier to find in a single directory, Blaikie said.

The goal of the online directory is to provide a simple, easy-to-use and low-cost way for Manitoba-based green product manufacturers and suppliers to connect with Manitobans who design, construct and operate buildings.

To be listed in the directory, companies must pay a small fee and have a physical presence in the province. Building products or materials they list as made-in-Manitoba must have more than 50 per cent of their value added in Manitoba. There will be no charge for users of the directory to search for products.

The directory can be found at [www.mbgreenbuildingproducts.ca](http://www.mbgreenbuildingproducts.ca).

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

## **Five New Bioenergy Projects to be Demonstrated and Evaluated**

March 25, 2010

Manitoba Hydro has introduced five new bioenergy demonstration projects that will be conducted at various locations throughout Manitoba in 2010, as part of its [Power Smart Bioenergy Optimization Program](#).

The initiative is a collaboration between Manitoba Hydro and five of its commercial customers aimed at advancing renewable and clean energy technologies. The demonstration program also recently qualified for funding through the Government of Canada's Clean Energy Fund-established in 2009 to support demonstrations of renewable and clean energy technology in Canada.

See related news release: [Federal Government Approves Funding for Bio-Energy Projects](#)

The first project will demonstrate the use of bio-oil as a replacement for heavy fuel oil in a large-scale industrial application and will enlist the services of two outside companies. Ensyn Technologies, headquartered in Ottawa, will showcase the potential of using biomass liquid fuel at Tolko Industries' kraft paper mill in The Pas.

Known as pyrolysis oil and derived from woody biomass-it will replace standard fuel oil in one of the plant's steam boilers to test its efficacy. The first component of the testing process is scheduled for late April.

The second demonstration will be hosted by Pineland Forest Nursery in Hadashville and involves the conversion of biomass to syngas. At the nursery, waste wood from nearby sources will be converted into a combustible gas and then used to power an engine-driven generator on site. This particular application is believed to have widespread potential and could impact any commercial business with large quantities of waste wood. This project is scheduled to get underway in the summer of 2010.

A third project-also making use of waste wood-will be demonstrated at Spruce Products Ltd. in Swan River. Using what's called an organic Rankine cycle, waste wood is burned and then used to heat a refrigerant to run a small turbine-generator. The device operates in a manner similar to a refrigeration cycle, except in reverse.

This demonstration is particularly relevant because of its application to many industries where waste heat is readily available. This project is also scheduled for summer 2010.

The anaerobic digestion of "wet biomass" is the fourth demonstration project in the wings. Through the use of specialized equipment, livestock manure is digested and converted into a treated effluent and biogas. Primarily intended for dairy operations, the digested manure can be used in the traditional way as an enhanced fertilizer and the biogas for heat and power. The host site being proposed for the project is Sweetridge Farms near Winkler. The 200-cow dairy farm is seeking better manure management alternatives. The project should be underway by the summer of 2010.

The fifth and last demonstration project will be sited at Elie and will use a process known as torrefaction, or carbonization, to convert wood chips and crop residues into an alternative to coal for space and process heating. The coal alternative, or biocarbon, will be tested at sites that currently rely on burning lignite coal. Heat recovered from the conversion process will also be used for community heating. This project is also scheduled to get underway in the fall of 2010.

Manitoba Hydro President & CEO Bob Brennan said, "We're very proud of our role as an acknowledged utility leader in the promotion of bioenergy alternatives. The demonstration of the viability of these new technologies fits with our mandate of providing clean, renewable, and affordable energy."

All five of the projects will be evaluated over the next two years and are expected to have real-world applications-enhancing the operational efficiencies of several Manitoba commercial businesses and raising the profile of bioenergy technologies.

## **Amendments to Biofuels Act Would Provide Production Grant for Biodiesel Producers: Chomiak**

April 8, 2010

Manitoba continues to be a Canadian leader in biofuels use and the introduction of amendments to the Biofuels Act would establish a new grant program to support biodiesel production, Innovation, Energy and Mines Minister Dave Chomiak said today.

“We will replace the fuel-tax exemption for Manitoba biodiesel with a production grant, payable directly to provincial producers,” said Chomiak. “We expect paying a grant to provincial producers, rather than a fuel-tax exemption, will be more effective in making producers competitive and thus encourage the local production of biofuels.”

The program would offer a grant of 14 cents per litre to biodiesel producers over a five-year period, beginning immediately. The grant will be capped at 20 million litres per year, which represents roughly the amount of biodiesel required to meet Manitoba’s biodiesel sales mandate.

Manitoba currently has one licensed commercial biodiesel producer, Speedway International in Winnipeg, with the capacity to produce 20 million litres annually. Two other plants in rural Manitoba, Bifrost Bio-Blends in Arborg and Eastman Bio Fuels in Beausejour, are also expected to become licensed commercial facilities this month and add another 15 million litres of biodiesel production capacity.

Other amendments to the act focus on measures that would support compliance by fuel suppliers with the province’s biofuels mandates including:

- taking into account unique fuel-distribution patterns in northern Manitoba and providing flexibility to deal with emergencies such as shortages of biofuels or petroleum-based fuels; and
- making exemptions for fuel sales in certain areas of the province, such as northern Manitoba, where the distribution and storage of fuel in remote communities can be difficult.

“We have consulted with biofuels producers, fuel suppliers and other stakeholders to create a seamless transition to biofuels use and to identify and respond to issues of concern,” said Chomiak. “Our goal has always been to encourage the sustainable use of biodiesel and ethanol in Manitoba to reduce greenhouse-gas emissions and promote green economic development.”

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

## **Manitoba Water Stewardship Ends Moratorium on Dauphin Lake Fishery**

April 25, 2010

Manitoba Water Stewardship advises the closure and fishing restrictions on the Dauphin Lake tributaries put in place on April 14 were lifted at noon today.

The measures included a moratorium on all fishing of walleye on the Turtle, Valley and Vermilion rivers, along with a daily limit of six walleye on other major tributaries during the spawning season. Based on monitoring of the tributaries, Manitoba Water Stewardship has determined that spawning is now complete.

The department noted the conservation measures were in addition to existing measures including reductions in the commercial harvest of walleye from Lake Dauphin, reductions in the daily catch limit of walleye for anglers, the requirement that all spawning-sized walleye be released, and closure of all commercial and recreational fishing during the spring spawning season.

The department said that the provincial government remains committed to working with First Nation, Métis, and other commercial and recreational users of the fishery to ensure a sustainable fishery.

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

## **Top Green Marks for Museum, Airport**

New facilities rising in city get designation

April 14, 2010

The WAA's Michael Rodyniuk in the terminal under construction, the first LEEDS-certified facility of its kind in North America.

Winnipeg will soon be home to the continent's first certified green airport terminal building as well as one of the country's most environmentally friendly museums.

Delegates attending a green buildings conference Tuesday in Winnipeg were told the Winnipeg Airports Authority's new airport terminal building, which is scheduled to open later this year, and the new Canadian Museum for Human Rights, which is expected to open in the summer of 2012, are both being built to LEED (Leadership in Energy and Environmental Design) Silver standards.

### Special features

HERE are some of the energy-efficient and environmentally friendly features of the Winnipeg Airports Authority's new airport terminal building and the new Canadian Museum for Human Rights, both of which are still under construction:

#### The airport terminal building:

Extensive use of windows and skylights to let in an abundance of natural light and reduce the need for artificial lighting.

Using a sunshade-and-etching process on the windows to reduce glare and reflect away excess sunlight to save on cooling costs.

A radiant floor system throughout the building that pumps warm water through pipes in the floor to warm it during the winter and cool it during the summer, thereby saving on heating and cooling costs.

#### The human rights museum:

Planting of Prairie grass on three of the four roots of the building and in the surrounding landscape.

Landscape design that does not require an irrigation system.

Design and implementation of an erosion and sedimentation-control plan that conforms to stringent standards for construction activities.

Design and implement a recycling/salvaging program for construction materials. Selection of low-VOC-emitting adhesives, sealants, paints and coatings for the building.

Development of a green housekeeping program.

Use of energy-efficient heating and cooling systems.

-- WAA, CMHR

WAA senior vice-president Michael Rodyniuk said the Winnipeg facility will be the first LEEDS-certified airport terminal building in North America.

And Grant Van Iderstine, principal with Smith Carter Architects and Engineers Inc., the lead architect for the museum project, said the CMHR will be one of the country's most environmentally friendly museums in terms of its design and impact on the environment.

The two megaprojects are part of a growing listing of green buildings that have been popping up around the city -- a list that also includes Manitoba Hydro's award-winning downtown office tower, Canada Post's \$100-million mail-sorting plant at the airport, Smith Carter's head office on Buffalo Place, a number of local credit union buildings and even some condominium complexes.

Sergio Almeida, chairman of the ninth annual Better Buildings Conference & Exhibition, said "there wasn't a lot going on for years" in terms of local green building projects.

"But in the last three or four years, LEEDS (projects) have become very common in Manitoba," he said. "We're heading in the right direction."

The two-day Better Buildings Conference, which got underway Tuesday, is designed to provide the 270 delegates with updates on various sustainable/green building projects in the province, as well as tips on how they can incorporate innovative design, technologies and operational best practices into their own building projects.

"We want people to know not only what's being done, but what can be done," Almeida said.

The airport terminal and the human rights museum were two of the projects featured in the opening-day sessions.

Rodyniuk and Russell Lavitt, senior mechanical engineer with SMS Engineering Ltd. -- the mechanical engineer for the airport terminal project -- said the terminal building is not only designed to use less energy, but also to produce less greenhouse gases.

For example, it has a radiant floor heating system to reduce heating and cooling costs and a heat recovery system that will recover and reuse waste heat equipment in the building will generate.

Delegates were told the airport terminal and \$205-million museum complex also make use of recycled building materials. And both are collecting the waste construction materials from their building sites for recycling.

Although many of the green features will result in reduced operating costs for the buildings, Van Iderstine said saving money isn't the reason for going green.

"A lot of it has to do with erecting healthy buildings and environmental stewardship."

Two local organizations -- the Manitoba chapter of the Canada Green Building Council and the provincial government's Green Manitoba agency -- also used the opening day of the conference to announce the official launch of a new website ([www.greenbuildingproducts.mb.ca](http://www.greenbuildingproducts.mb.ca)) where builders, designers and others can go to obtain information about green building products made or distributed in Manitoba.

By: Murray McNeill

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

## **Manitoba Supports Sustainable Agriculture Practices: Struthers**

Over 180 Projects Approved for 2009-10 and 2010-11

April 22, 2010

The Manitoba Sustainable Agriculture Practices Program (MSAPP) has completed its first intake of applications for beneficial management practice (BMP) incentive funding for the 2010-11 fiscal year, Agriculture, Food and Rural Initiatives Minister Stan Struthers announced today.

“The MSAPP is a incentive-based program announced by the province in 2008 to encourage producers to adopt and implement BMPs to help reduce greenhouse-gas (GHG) emissions that contribute to climate change,” said Struthers “The MSAPP is part of our commitment to reduce greenhouse gas emissions by 2012 to help achieve its climate change objectives and transition to a low-carbon and green economy.”

To date, over 180 sustainable agriculture projects have been approved with Manitoba producers eligible for payments of over \$2 million. Many different projects from every region of the province have been approved including funding for reduced GHG emissions from manure storage, reduced tillage, manure land application, perennial cover for sensitive land, spring fertilizer application, and improved pasture and forage quality.

When complete, it is expected these new projects will provide environmental benefits for both the individual participant and for all Manitobans. The investment in these projects will continue to provide improvements in air, water and soil quality by reducing nutrient and pathogen loss to the environment, preventing soil erosion and improving biodiversity and wildlife habitats, said Struthers.

The total GHG reductions from the actions taken so far by Manitoba producers are estimated at 82,000 tonnes of carbon dioxide, equivalent over the life of the program to approximately 59,000 tonnes in 2009-10 and 23,250 tonnes in 2010-11. GHG emissions from agriculture soils fluctuate from year to year because the types of crops grown affect the amount of fertilizer applied as well as the amount of crop residue returned to the soil after harvest.

For many years, prior to the introduction of the MSAPP, Manitoba producers adopted and implemented BMPs. These included but were not limited to:

- conservation tillage;
- cover crops;
- organic farming;
- effective nutrient management;
- manure management, handling and proper storage; and
- shelterbelts and riparian buffers

The MSAPP has seen an overwhelming response from agricultural producers in Manitoba, said Struthers, adding the program is cost shared with producers and the positive response demonstrates the value Manitoba producers place in making their operations more environmentally sustainable. The MSAPP will run until March 31, 2012.

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

## **Curbside Compost Collection for Brandon Would Reduce Greenhouse-Gas Emissions: Blaikie**

Province Supports Pilot Project with \$50,000 Grant

April 22, 2010

Brandon's organic waste will be picked up curbside for composting instead of going to a landfill, with the help of a \$50,000 provincial grant, Conservation Minister Bill Blaikie announced today to mark Earth Day.

"The province is pleased to assist Brandon with this project that will make the collection of organic materials easy and convenient and divert more waste from landfills," said Blaikie. "Projects such as these are good for the environment, the province and the planet."

The Waste Reduction and Pollution Prevention (WRAPP) Fund grant will help Brandon launch an 18-month pilot project to expand the city's efforts to divert

organic waste from landfills. Automated trucks will be used to collect the organic material and compost bins will be provided to residents. The organic material will be processed to produce quality compost. The City of Brandon has been composting organic waste at the Eastview Landfill since 1993. The project will assist the city in reducing its greenhouse-gas emissions.

The WRAPP Fund supports improved waste reduction and pollution prevention practices in Manitoba. Priority areas are organic waste management and composting, construction and demolition waste management, pollution prevention, and model waste management system development and planning.

The minister noted that the WRAPP Fund has been instrumental in Manitoba's waste reduction efforts. Since 1999, Manitobans have recycled more than 643,474 tonnes of material, equal to more than 91,925 garbage trucks full of recyclable materials. Last year, Manitobans recycled 70,337 tonnes of paper, aluminum, glass and plastic.

The WRAPP Fund is a targeted funding program under the Sustainable Development Innovations Fund. Other targeted funding programs are the Manitoba Climate Change Action Fund and the Water Stewardship Fund.

A total of 223 projects worth more than \$4.2 million have been supported through the WRAPP Fund since its creation in 2000. Information on the WRAPP Fund is available on request from Manitoba Conservation's Pollution Prevention Branch or online at [www.susdev.gov.mb.ca](http://www.susdev.gov.mb.ca).

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

## **Over Two Million Trees for Tomorrow to be Planted This Summer: Blaikie**

April 22, 2010

Over two million seedlings are to be planted this summer as part of the 2010 Trees for Tomorrow program, Conservation Minister Bill Blaikie said today.

"We are building on the 1.1 million trees already planted through the program since 2008 as part of Manitoba's Beyond Kyoto climate change initiatives," said Blaikie. "The program will continue to support many school projects including the EcoGlobe Schools program and many initiatives in smaller communities."

Trees for Tomorrow projects include completion of Smartpark at the University of Manitoba and the Red River Floodway, FortWhyte Alive, Graymount Mines and Brady Road Landfill planting projects. Over 250 landowners will be provided with a variety of seedlings for smaller-scale planting projects and several First Nations continue to be involved in the program.

Trees for Tomorrow booths will provide free seedlings at various events around Manitoba including Arbor Day in May, the Manitoba Marathon in June and National Forest Week in September.

Trees for Tomorrow will oversee about five million trees to be planted by 2012. Trees act like air filters, removing carbon dioxide to create cleaner air, reduce soil erosion and contribute to a healthier climate. It is estimated, that five million trees will remove over 13,600 tonnes of carbon dioxide from the atmosphere every year. Over 50 years, the reduction will be more than 345,000 tonnes, the equivalent of taking 69,000 vehicles off the road.

The Trees for Tomorrow program also includes a maintenance program that helps to ensure planted trees have the best chance to survive and thrive. A wider variety of seedling types and species are being grown to give the program more flexibility and success on the diverse and challenging planting sites.

Over half of Manitoba's land area, 36.35 million hectares, is dominated by forests and wooded areas. The Trees for Tomorrow program is in addition to plantings through Manitoba Conservation and the forest industry. In Manitoba, about one million more trees are planted annually than are harvested on Crown land.

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

## **Small Eco-steps Can Add Up**

Earth Day activities heighten awareness

April 23, 2010

For an observance built around the need for environmental sustainability, Earth Day has a few maintenance issues of its own.

Much like its younger cousin, Earth Hour, where the lights go dim for 60 minutes to show support for energy conservation, Earth Day activities give a sense of the tiny sacrifices required to make an ecological difference.

But it's just one day -- not a daily event. So if those practices aren't sustained over an extended period, and participating in work-sanctioned green projects is just an excuse to get out of the office before jumping back into old routines, then what's the point?

Is it possible Earth Day has turned into an Earth cliché?

"No, I think Earth Day still has great value," Randall McQuaker, the director of the enviro-friendly Resource Conservation Manitoba group, said Thursday -- Earth Day. "It does turn people's thoughts to environmental sustainability, getting them thinking about some of the things they might do.

"The concern from our perspective is that the actions don't stop there. It isn't just enough to do something on Earth Day."

In Winnipeg, a number of business and organizations participated in some form of change on Earth Day.

Some, like the 100 or so individuals who came together for the five-kilometre walk to raise money for a clean drinking water system in east Africa, took their eco-intentions outside the city, while others directed their energies closer to home, picking up a garbage bag and pitching in at the annual spring cleanup put on by the Downtown Business Improvement Zone.

"The kind of people who come out for Earth Day are the same ones who care enough to do something every day," said Kirsten Flett before setting off with Marissa Daughney to clean up the core area. "Anyone can make changes if they want to make changes."

Curtis Robinson has a different take on why Earth Day hasn't made a bigger impact. "People are lazy -- that's the only reason," he said.

McQuaker said it's not as simple as that. He sees people becoming frustrated with the idea of environmental awareness before they even think about the blue box, as the scale of change can be overwhelming.

Though composting requires commitment and making smarter food choices do cost money, McQuaker says the smallest switch in a routine can be the most important step for an individual looking to make Earth Day last a lifetime.

Most can't give up their cars but that doesn't mean you can't take a bus or bicycle to work once or twice a week, he notes.

"Sometimes there are four Rs -- reduce, reuse, recycle, and relax," McQuaker said. "In other words, don't be too hard on yourself. Try to do what you can, and don't let

the urgency of the big changes prevent you from making the small ones that can make a difference."

Thursday marked the 40th year of Earth Day internationally.

By: Adam Wazny

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

## ***National***

### **Environment Minister Announces Public Consultation on the Import and Export of Waste and Hazardous Recyclable Materials**

OTTAWA, Ont.: April 19, 2010

Canada's Environment Minister Jim Prentice announced today the start of a public consultation period that begins the process of updating Canada's regulatory framework for the transboundary movement of waste and hazardous recyclable materials. Environment Canada posted a discussion paper online that interested stakeholders and Canadians can comment on until June 14, 2010.

"I am very pleased that Environment Canada is set to strengthen its regulatory framework for the export and import of all waste, including e-waste, and hazardous recyclable materials," said Minister Prentice. "This consultation process is the first step in streamlining some of Canada's regulations and ensuring that our practices are harmonized with international standards and agreements."

The Government of Canada is updating three existing regulations under the Canadian Environmental Protection Act, 1999 (CEPA 1999), to ensure greater protection of the health and environment of Canadians and of other countries, improve policy alignment with international agreements, and add clarity to enhance the efficiency and effectiveness of the regulations.

The regulations to be updated are the Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations, 2005, the Interprovincial Movement of Hazardous Waste Regulations, 2002, and the. The new regulatory framework will ensure that electrical and electronic equipment (commonly referred to as e-waste), being exported or imported for disposal, recycling or reuse is managed in an environmentally sound manner. It will strengthen the implementation of Canada's international commitments to control the movement of waste, particularly under the

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal (1989), ratified by Canada in 1992. The regulatory update will also improve the enforceability of the regulations while reducing administrative and paperwork burden on stakeholders.

The Discussion Paper is posted for public comment on the Environment Canada's web site, at <http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=C6D17E79-1>

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

## **Government of Canada Invests in Research for Next Generation Green Buildings**

KELOWNA, B.C. : April 16, 2010

The Government of Canada is investing in research that will help to reduce the amount of greenhouse gases produced through building construction, announced the Honourable Ron Cannan, Member of Parliament for Kelowna-Lake Country, on behalf of the Honourable Jim Prentice, Minister of the Environment. The green building design project aims to reduce 75 percent of GHG emissions from the heating, cooling and construction of buildings, and is being delivered through the Asia-Pacific Partnership (APP) funding for a project led by the Okanagan Science & Technology Council (OSTEC) in partnership with Okanagan College.

"Developing next generation green buildings that generate more energy than they consume, and absorb more greenhouse gases than they emit is a very exciting project which the Government of Canada is pleased to support," said MP Cannan. "Investing in research and the development and demonstration of transformational clean energy technologies is one of Canada's key commitments under the Copenhagen Accord."

Canada's APP funding of \$500,000 for this project represents 50 percent of the total cost. The remaining half of the funding will be contributed by Okanagan College and its partners. Funding for this project is part of an \$8.4 million investment in APP projects announced by Prime Minister Stephen Harper on December 4, 2009, in Shanghai, China.

"The Government of Canada's investment in this project is welcome," said Jason Richards, OSTEC President. "High tech and green buildings go hand in hand, and this project will enhance our understanding and capacity in this area. We're pleased

to work with Environment Canada and with Okanagan College, which is demonstrating leadership on this front already."

"Taking a different, more sustainable approach to building is critical to developing a changed economy," said Jim Hamilton, President, Okanagan College. "We've recognized that as an institution, and welcome the support from OSTEK and the federal government in developing the information and skills base that will facilitate change in Canada and across the Asia Pacific region,"

Canada's participation in the APP supports its commitment to reduce greenhouse gas emissions by 17 percent from 2005 levels by 2020, a target Canada recently inscribed in the Copenhagen Accord and which also reflects the importance of aligning with the US. Canada will continue to work constructively in 2010 to implement the Accord and to complete the negotiations for a comprehensive, legally binding post-2012 agreement.

The APP is an innovative public-private partnership to accelerate the development and deployment of clean energy technologies to meet goals for energy security, national air pollution reduction, and climate change in ways that promote sustainable economic growth and poverty reduction. Seven countries participate in the APP: Canada, Australia, China, India, Japan, South Korea, and the United States.

Related document:

[Canada's Investment in Next Generation Green Buildings Under the Asia-Pacific Partnership](#)

[Backgrounder 2010-04-16]

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

## **Canadian Appointed to Advisory Committee of Canada-US-Mexico Commission for Environmental Cooperation**

OTTAWA, Ont.: April 7, 2010

The Honourable Jim Prentice, Minister of the Environment, today announced the appointment of Linda Angove to the Joint Public Advisory Committee (JPAC) of the Commission for Environmental Cooperation (CEC). Ms. Angove's appointment is effective April 1, 2010.

"I am proud to announce the appointment of Ms. Angove to this important tri-national public advisory body," said Minister Prentice. "I'm confident that Ms. Angove's wealth

of experience with organizations promoting public dialogue on key national issues will play an important role in ensuring active Canadian public participation and transparency in the work of the CEC."

Ms. Angove will replace the Honourable David Emerson, one of the five current Canadian members of the JPAC.

"I would like to thank Mr. Emerson for his contributions to the committee and commend him for his achievements and service to Canadians during his tenure," said Minister Prentice.

JPAC - composed of 15 citizens equally representing Canada, the United States and Mexico - serves as an advisory body to the Environment Ministers of Canada, the United States and Mexico, and as a mechanism for the Ministers to hear public views on environmental issues of continental importance.

The CEC is an international organization created by Canada, Mexico and the United States under the North American Agreement on Environmental Cooperation (NAAEC). The CEC was established to address regional environmental concerns, help prevent potential trade and environmental conflicts, and to promote the effective enforcement of environmental law. The Agreement complements the North American Free Trade Agreement (NAFTA). The CEC's secretariat is located in Montreal, Quebec.

For more information about the CEC, visit: [www.cec.org](http://www.cec.org).

Related Documents

[Canadian Appointed to Advisory Committee of Canada-US-Mexico Commission for Environmental Cooperation](#)

[Backgrounder 2010-04-07]

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

## **Alberta Energy Regulator Conditionally Approves Two Oilsands Tailings Plans**

Calgary: April 23, 2010

Alberta's energy watchdog has approved plans submitted by two major oilsands players to deal with waste from their projects, but the thumbs-up comes with several conditions.

The decisions on the Syncrude Canada Ltd. (TSX:COS, TSX:IMO, TSX:SU, TSX:NXY) and the Fort Hills Oil Sands Project (TSX:SU, TSX:UTS, TSX:TCK.B) proposals were the first to be made since oilsands miners were ordered to clean up their tailings ponds last year.

"Over the last 30 years, oilsands operators have set numerous targets for closing their tailings ponds. And historically none of those targets have been met," said Davis Sheremata, a spokesman for the Energy Resources Conservation Board.

That prompted the regulator require oilsands companies to set a firm date to close their tailings ponds, which contain vast amounts of water, clay, sand and bitumen left behind by the extraction process.

"The dates of those plans have to be adhered to, or they'll face enforcement action," Sheremata said. "We've shut oilsands facilities down before, and if we have to we'll do it again."

Tailings are one of the key reasons Alberta's oilsands have been garnering so much negative attention internationally. Syncrude is currently on trial on federal and Alberta environmental charges for the deaths 1,600 ducks that landed on one of its ponds in 2008.

The ERCB estimates tailings ponds today contain about 840 million cubic metres of fluid and cover about 170 square kilometres across northern Alberta.

Syncrude's Mildred Lake and Aurora North sites together hold about 505 million cubic metres of tailings. Each of the six ponds are targeted to be returned to a surface solid enough to walk on between 2016 and 2060 under the plan, the ERCB said.

These dates appear to be at odds with Premier Ed Stelmach's call for the ponds to be eliminated within a few years.

Stelmach declined to comment Friday, but on Thursday he said Alberta needs to close the ponds as soon as possible. When pressed for a specific timeline, Stelmach said Alberta just can't talk about closing the ponds, it has to show progress because the ponds are what people around the world see.

"I know that within a matter of a few years we should be able to get there," Stelmach said.

"I want to be realistic in timeline but yet we want to send a clear message that this is the direction we are taking. Lets get it done."

The approval of Syncrude's plan "makes a mockery" of Stelmach's comments, said Greenpeace campaigner Mike Hudema.

"Premier Stelmach's announcement that he'll force the phase-out of wet tailings in a 'few years' is more hot air from a government that won't even enforce its own directives," Hudema said.

The ERCB's Sheremata said the board's decision and Stelmach's comments don't necessarily contradict one another, since the premier was likely referring to the time at which oilsands miners will accelerate their reclamation processes as opposed to completing them.

The six conditions the ERCB placed on both Syncrude's Mildred Lake and Aurora North sites concern the consortium's plans to separate fine particles of sand and clay - the component of the tailings mix that takes the longest time to settle - from the wastewater.

Syncrude spokeswoman Cheryl Robb said the consortium was proud of its proposal, which includes using various technologies to encourage tiny particles to the bottom of the water more quickly.

"In our estimation it was an aggressive plan that we submitted," Robb said. "Some of the requirements the (ERCB) put on are making sure that we hold to that plan."

In its original directive early last year, the energy board set out timelines for companies to start the process. Oilsands miners were to convert at least 20 per cent of the fine particles in their waste water to solid waste by June 2011. That rises to 50 per cent by 2013.

However, the ERCB is allowing Syncrude to only capture 9.3 per cent of the particles next year and 34.6 per cent in 2013.

Joe Obad of the environmental group Water Matters said the ERCB should have rejected Syncrude's proposal outright if it didn't adhere to its rules.

"Alberta often talks about having this world class regulator, but if it's holding the hands of the companies to meet a very clear directive in private, it doesn't offer the transparency that I think most Albertans and Canadians would want out of their regulator," he said.

Sheremata, with the ERCB, said it was virtually impossible for Syncrude, which has been operating since the 1970s, retool its facilities quickly enough to meet the earlier guidelines, so it was willing to be flexible.

Syncrude will be in full compliance with - and may even exceed - the ERCB's rules after the 2014.

The ERCB also has also imposed two caveats on Fort Hills, a proposed oilsands mine 90 kilometres north of Fort McMurray, Alta., that has yet to be sanctioned by project operator Suncor Energy Inc.

Fort Hills must apply for pilot testing of new tailings pond technologies six months before its project starts up. It must also have no fluid deposits containing clay at the end of the mine's life.

The regulator is still reviewing plans for the Royal Dutch Shell (NYSE:RDS)-operated Albian Sands as well as projects operated by Canadian Natural Resources Ltd. (TSX:CNQ), Imperial Oil, Shell Canada Ltd. and Suncor.

By: Lauren Krugel

## **Business and Career Opportunities**

### ***Local***

#### **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](#)

## ***National***

### **CCME: Assessment of Climate Change Impact on Water Quality Guidelines**

Project Description: Contractor will assess if and how climate change will influence water quality guidelines development and provide guidance on the need and opportunity to incorporate climate change impacts into the process of guideline development.

Closing Date/Time: Monday, May 10, 2010, 12:00 noon CDT

Project Status: Open for competition  
[Request for Proposals 492-2011](#)  
(53 KB) (pdf)

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

### ***Local***

#### **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](#)

## **National Leadership Development Conference (NLDC)**

May 12 – 16, 2010  
Canad Inns Fort Garry

The future of Canada's economic and social progress lies in the hands of today's young people.

AIESEC Canada's National Leadership Development Conference (NLDC) provides an environment in which Canada's top university students learn how to be effective leaders in competitive and challenging global and national environments.

#### Conference Topics:

- Cross-Cultural Communication
- Leading and Motivating People
- Social Entrepreneurship
- Sustainability in Practice
- Harnessing your Passions
- Community Development
- Conducting Business around Religion/Politics

For more information, see [www.aiesec.ca/manitoba](http://www.aiesec.ca/manitoba)

## **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](#)

## **CSCE 2010 Annual Conference**

June 9, 2010  
Winnipeg, MB

### **1. Introduction to Blast Load on Structures**

This course will introduce participants to the basic characteristics of a blast wave and how to determine the fundamental blast parameters as it pertains to a target structure. Analysis and design of reinforced concrete and structural steel elements subjected to blast loads will be presented.

Instructor

Abass Braimah, Ph.D., P.Eng.  
Assistant Professor of Civil engineering,  
Department of Civil and Environmental Engineering,  
Carleton University,  
Ottawa, ON

### **2. Seismic Design of Buildings (based on the provisions of 2005 NBCC)**

The seismic design provisions of the 2005 National Building Code of Canada will be discussed with particular emphasis on local site effects, equivalent static load method of design, building irregularities, drifts and displacements, and the effect of torsion. The concepts will be illustrated with some sample designs. The forthcoming changes for the 2010 NBCC will be discussed in brief.

Instructor

Jag Mohan Humar, Ph.D., P.Eng., FCSCE, FEIC, FCAE  
Distinguished Research Professor,  
Department of Civil and Environmental Engineering,  
Carleton University,

Ottawa, ON

[Click to view the brochure and to register](#)

## ***National***

### **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](#)

## **Canada 3.0**

Defining Canada's Digital Future

May 10 – 11

Stratford Rotary Complex

Stratford, Ontario

Whether you're a Content Creator, Tool Maker, or Tool User, this is your chance to influence our national digital media action plan. Become part of the discussion to ensure Canada can not only compete, but also lead the world, in today's new digital economy.

For more information, see [www.canada30.ca](http://www.canada30.ca)

## **Municipal Wastewater Treatment, Testing and Monitoring**

May 10 - 13, 2010  
Edmonton, AB

The seminar topics include municipal wastewater characterization and treatment, using both established conventional and advanced treatment technologies, including classical settling, secondary treatment, chemical and biological nutrient removal, filtration, (reverse osmosis, ion exchange, carbon adsorption), and disinfection.

[Additional Information](#)

## **Algae World Summit 2010**

May 17-19, 2010  
Hilton Del Mar - San Diego, CA  
Building Bridges in the Algae Value Chain

Join us at this unique forum where key players in the algae industry --co-product algae purchasers, oil and chemical companies, utilities, industrial CO2 generators, wastewater treatment operators, algae technology developers, algae equipment suppliers, algae project developers, biofuels refiners, financiers, transportation companies and government representatives--will share the latest information on:

Their activities in support of the emerging algae industry  
The key technical, financial and economic issues they are addressing  
The relationships they are establishing to support the value chain

For more information see: [www.infocastinc.com](http://www.infocastinc.com)

## **A&WMA's 103rd Annual Conference & Exhibition**

June 22-25, 2010

Calgary, Alberta

Join the Air & Waste Management Association (A&WMA) and over 2,400 environmental professionals from around the world in Calgary for our 103rd Annual Conference & Exhibition (ACE).

ACE 2010 will feature a technical program boasting over 500 presentations among 140 sessions and 60 expert panels, and new for 2010, the Mega Poster Session where more than 100 posters will be displayed. ACE 2010 also includes hundreds of exhibitors displaying the latest in environmental technology and innovation, fun social and networking events, and professional development courses taught by industry leading instructors.

Visit the ACE Web site at [www.awma.org/ACE2010](http://www.awma.org/ACE2010) for more conference information or to register.

## ***International***

### **World Bioenergy 2010**

May 25-27, 2010

Jonkoping, Sweden

Conference and Exhibition on Biomass for Energy

World Bioenergy has truly developed into a global forum for bioenergy. The [programme](#) is now published, and it includes 81 speakers from 28 countries, representing all continents.

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>