

The Digital Pipe Digest

ACTB



Canadian Concrete Pipe Association
Association canadienne des fabricants de tuyaux de béton

Editor: A. Grant Lee, MCIP, RPP, FCInst.M January 2005

Bridge funding approved for InfraGuide

In late December 2004, InfraGuide received a letter advising that the Deputy Minister of Infrastructure Canada had approved "bridge-funding" for InfraGuide for the next fiscal year (from April 2005 to March 2006). This great news propelled InfraGuide's momentum into the next phase. In this new year, InfraGuide will also launch an education tool on Asset Management. This will be of great value to municipalities both rural and urban in building capacity within their own organizations.

In 2004 InfraGuide brought forward deliverables unique to the infrastructure community, not only in Canada but also worldwide. Success after success, InfraGuide contributed to regional, national and International organizations via national forums, conferences, presentations and technical contributions.

Throughout 2004, InfraGuide organized and managed close to 20 national committee meetings and about the same amount of working groups. InfraGuide continued to expand with the publication of 21 best practices with presence at 40 key visible events. InfraGuide recently received its 50th municipal endorsement with prospects of many more in 2005.

Leadership and direction for the National Guide is provided by a steering committee composed of members representing a broad regional mix and a combination of affiliation and expertise. Steering committee members include academics, consulting engineers, associations, local politicians, contractors and the general public.

Beyond the steering committee, the project relies extensively on the mobilization of an extensive network of volunteers representing technical expertise, all regions, and a range of community sizes across Canada.

The Federation of Canadian Municipalities (FCM) is leading this project in partnership with the National Research Council (NRC) with funds provided through Infrastructure Canada, National Research Council, and in-kind contributions.

To secure ongoing funding from Infrastructure Canada for Phase 2 work



(ending 2005), the Guide was required to submit its detailed action plan for Phase 2 as well as a long-term financial sustainability plan.

InfraGuide comprises a compendium of technical best practices for decision-making and investment planning as well as for the construction, maintenance, and repair of municipal infrastructure. The NRC and FCM will ensure that the guide is available to municipalities of all sizes across the country, thereby providing information about better and innovative design and construction techniques.

Further information is available at 866-330-3350 or infraguide@nrc.ca. The Web site is www.infraguide.ca.

CEO endorses organization for South Asia tsunami disaster relief

An unprecedented response is being witnessed from around the world to offer assistance in the aftermath of the horrific tsunami that struck many countries in South Asia on December 26, 2004. Many member firms of Consulting Engineers of Ontario (CEO) have made contributions to the relief effort. CEO encourages its members to support any of the organizations currently involved with the relief effort.

CEO reports that RedR Canada (Registered Engineers for Disaster Relief) in partnership with *Save the Children Canada* has set up a special fund for this disaster. Through this partnership with *Save the Children Canada* financial contributions are eligible for the matching funding being provided by the Canadian International Development Agency. Donations can be made on-line through the following link: [Tsunami Relief - RedR Canada](#).

RedR Canada is part of an international organization that relieves suffering in disasters by selecting, training and providing competent and efficient personnel to humanitarian aid agencies world-wide. Through RedR Canada, you can make a difference to people in need by donating skills, time or financial assistance. RedR Canada, together with its RedR colleagues around the world, is helping in two ways:

- Providing engineers and other skilled relief workers to the agencies operating on the front lines in the affected countries; and
- Providing funds where most needed.

If you are interested in learning more about RedR and how it makes engineering expertise available to relief agencies, visit the RedR Canada website at www.rer.ca or send an email to disaster-relief@redr.ca.

Canada-Ontario Municipal Rural Infrastructure Fund applications being accepted

On November 15 the Governments of Canada and Ontario signed an agreement to provide up to \$298 million each over the next five years to improve public infrastructure in small urban and rural municipalities.

Total contributions from municipalities are expected to equal that amount, so that almost \$900 million will be available for municipal infrastructure projects to provide cleaner water, better sewage systems, improved waste management and safer local roads and bridges.

Municipalities with less than 250,000 population can apply to the Canada-Ontario Municipal Rural Infrastructure Fund - known as COMRIF - for funding.

Ontario Ministry of Public Infrastructure Renewal launches newsletter

The Ontario Ministry of Public Infrastructure Renewal has launched **PIRNetNews**, a new information-sharing initiative. The newsletter and the related website are for everyone with an interest in building strong communities and improving the quality of life in Ontario - including building or repairing the province's infrastructure, providing affordable housing, planning for new growth opportunities and protecting our natural environment.



Each edition contains news from the Ministry of Public Infrastructure Renewal to help keep industry up-to-date on government initiatives and policies.

If you'd like to have **PIRNetNews** visit the OMPIR web site at www.pir.gov.on.ca

The inaugural issue carried articles on programs designed to help Ontario municipal governments that own about 45% of all public infrastructure, and the recently introduced Places To Grow Act (Bill 136) that would allow for long-term planning for population and employment growth in specific geographic areas. The issue also reports on Ontario's long-term strategy to ensure clean, safe, and affordable drinking water that includes repair of existing water and wastewater infrastructure.

CSCE seminar offerings

The Canadian Society of Civil Engineers (CSCE) is offering seminars on buried pipeline assessment, renewal, and assessment, and innovations, as well as best practices for municipalities, through 2005.

The first, *buried pipeline assessment, renewal, and assessment, and innovations* is scheduled for April 7 in Ottawa. A large portion of city water and wastewater infrastructure was installed in the early 1900s. This infrastructure is in a state of significant deterioration and needs substantial renewal investment. Failure to address this deterioration will increase maintenance and repair costs and lead to reduced levels of service that could threaten public health, the environment and the economic prosperity of Canada's communities. Dr. Mark Knight will present an overview of buried water and wastewater infrastructure challenges, discuss pipeline condition assessments and rehabilitation methods, and will introduce buried network asset management practices. Mark will also discuss research initiatives in the USA and Europe.

This seminar is followed by a series across Canada on *innovations and best practices for municipalities* in Toronto, Vancouver,

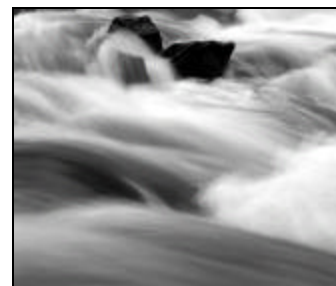
Edmonton, Winnipeg and Halifax, April through August.

Go to www.csce.ca for information.

WERF partners on stormwater BMP database

The Water Environment Research Foundation (WERF) is collaborating with several organizations to fund and manage the International Stormwater Best Management Practices Database.

This tool will provide information as communities, departments of transportation, and private parties plan to spend billions of dollars over the next several years implementing BMPs for compliance with regulatory programs for protecting water quality.



The coalition a contract to Wright Water Engineers and GeoSyntec Consultants to operate the database, grow the database through the addition of new BMP data, and develop protocols for integrating low impact development (LID) techniques into the database.

The International Stormwater BMP Database was initially developed under grants from the US EPA under the guidance of the ASCE Urban Water Resources Research Council (UWRRC). The database provides a mechanism for scientifically-based collection and management of data needed to evaluate the effectiveness of stormwater runoff BMPs. Information on the database is accessible through the project's Web site www.bmpdatabase.org

Source: Water Environment Association of Ontario Newsletter December 2004

Concrete pipe and box applications and industry developments in print

Concrete pipe in North America has a long history of dependability and performance. Quality of product and performance standards have taken a giant leap forward, making concrete a preferred material for many traditional sanitary and storm sewer applications. Precast reinforced concrete pipe and boxes are finding niche markets where never before envisioned such as ventilation tubing (Earth Rangers Centre and Niagara Falls Butterfly Conservatory), buried utility galleries, groynes for current control and fish habitat in harbours, animal and pedestrian crossings of rail lines and highways, stormwater storage and retention chambers, small bridge structures, jacking and tunneling applications, and marine outfalls. New applications are limited only by the imagination of infrastructure designers.



The concrete pipe industry and its associations regularly publish applications of interest in many trade and professional publications throughout Canada and the United States. Many published articles become archived on various Web sites for access via the Internet.

Following is a compendium and summary of some of the articles published over the past month.

Concrete Pipe News

Hospital Board Goes With Precast Concrete Boxes To Manage Stormwater

Precast concrete box sections were used for an underground stormwater detention system to accommodate onsite stormwater management. The project called for 650 lineal feet of 12-foot x eight-foot precast concrete box sections placed in five parallel lines.

Reinforced Concrete Pipe Seen As End-of-Life Solution

A run of 60-inch diameter CMP collapsed and caused the closure of West Hackley Avenue in Muskegon, Michigan. The culvert was replaced with a twin 60-inch diameter concrete pipe culvert. Projects originally designed for 50 years are often expected to perform much longer. Concrete pipe installations allow designers and owners of infrastructure to err on the conservative side when planning projects.

Exploring the Meaning of Durability of Reinforced Precast Concrete Pipe

The capability of pipe to perform as expected for the design life of a project is a fundamental engineering consideration, especially in today's economic environment where life cycle cost analysis and asset management requirements have been set in place to ensure sustainable buried infrastructure. When specifiers and design engineers understand the properties of concrete and all factors affecting the performance of reinforced concrete structures, durability of reinforced concrete pipe becomes meaningful

Concrete Pipe Journal

Lined Reinforced Concrete Pipe a First for London

A 675 mm (27-inch) diameter concrete sanitary sewer commissioned in the late 1960s was replaced with a specially designed 590 meter (1,935 foot) precast concrete system to improve the environment of a London Ontario neighborhood and solve major structural problems caused by sulfuric acid (H₂SO₄).

Pre welded Reinforcing Assembly Contributes to Efficiency of Quick Span

Reinforcement assemblies were fabricated on a specially designed at StelCrete's Fort Erie plant so that all assemblies were consistent including 30M rebar spaced at 150 mm on centre around the exterior corner of the bridge sections.

York-Peel Feedermain Expands Product Line for Munro

The new 8,550 square metre plant in Barrie is capable of producing precast concrete pressure pipe sizes from 400 mm to 3000 mm inside diameter with a standard length of 6,096 mm.

Environmental Science & Engineering Magazine

Lined Reinforced Concrete Pipe a First for London

A 675 mm (27-inch) diameter concrete sanitary sewer commissioned in the late 1960s was replaced with a specially designed 590 meter (1,935 foot) precast concrete system to improve the environment of a London Ontario neighborhood and solve major structural problems caused by sulfuric acid (H₂SO₄).

Ontario Construction News

Pre welded Reinforcing Assembly Contributes to Efficiency of Quick Span

Reinforcement assemblies were fabricated on a specially designed at StelCrete's Fort Erie plant so that all assemblies were consistent including 30M rebar spaced at 150 mm on centre around the exterior corner of the bridge sections.

Hon. John Godfrey, P.C., M.P. replies to CCPA/ACTB letter

In October 2004, the CCPA/ACTB wrote a letter to the Minister of State (Infrastructure and Communities), the Hon. John Godfrey expressing support of the New Deal for Cities and Communities.

The Minister responded on December 17. He noted that details on how funds from the gas tax will be allocated within each of the provinces and territory will be developed through bilateral agreements with the Government of Canada so that funds can flow to municipalities in 2005.

The letter is posted on the members only section of the CCPA/ACTB Web site at www.ccpa.com

North American Cargo Securement Standard effective January 1, 2005

The Ontario Ministry of Transportation has notified the CCPA/ACTB that Ontario regulations pertaining to the implementation of the new cargo securement standard has been approved and is now in effect. An educational enforcement period is in effect until July 1 and thereafter in full effect. This gives six months for the training of drivers and loaders.

The regulations are on the government's e-Laws Web site at www.e-laws.gov.on.ca. They are located under the Highway Traffic Act section – Regulation 614.

Questions can be directed to Ron Covello at the Carrier Safety and Enforcement Branch at ron.covello@mto.gov.on.ca or 905-704-2566.

Seminars are available through the Ontario Trucking Association by contacting Yvonne Macaulay at 416-249-7401 ext. 235.

The letter from the MTO is posted in the members only section of the CCPA/ACTB Web site

Complete your final plans for attending the CCPA/ACTB and OCPA Annual Meeting now

The AGM is scheduled for Friday February 18 with plans for technical presentations and debate on February 19, 2005. The OCPA has blocked rooms at the Pillar and Post from February 16 to 19 for the convenience of members who may wish to spend some time in the region.

Registration is required for the meetings by sending a completed form to the OCPA (fax 905-631-1905). The registration fee is

\$250.00 for members and \$100.00 for guests. There is no charge for children.

Registration at the Pillar and Post Inn is the responsibility of each member. There is a price range for rooms at the Inn. Contact the Pillar and Post at 905-468-2123, 1-888-669-5566, or e.kerr@vintageinns.com



All notification and proxy forms have been emailed to members. **If you do not plan to attend the CCPA/ACTB meeting and wish to vote by proxy, you must fax the signed proxy to Grant Lee at 905-702-0819.**

ACPA AGM scheduled for March 13-16 in Vegas



The 97th Annual Meeting of the American Concrete Pipe Association is scheduled for March 13 to 16 at the Venetian Hotel and Casino in Las Vegas. The AGM offers attendees a chance to review industry accomplishments of 2004 and kick-start the Association's activities for 2005. Howard

Putnam, former CEO with Southwest Airlines is the keynote speaker on March 15.

Register online at www.concrete-pipe.org.

About MCPX – the trade show for the entire manufactured concrete products industry in North America.

MCPX 2005, Partnering For A Solid Future, offers hundreds of suppliers, dozens of educational and training courses and unlimited networking opportunities.



MCPX is North America's only combined event that brings together the entire manufactured concrete products industry. It is the No. 1 event where you can network with industry leaders from around the country, meet with distributors and suppliers and see the latest products—all under one roof. The show is scheduled for February 11 to 13 in Indianapolis.

MCPX offers outstanding educational opportunities in production, technical, management, safety, marketing and many other key areas of your business, for all sectors of manufactured concrete products industry.

And don't forget about the MCPX Gala Networking Reception. The evening starts off right with live entertainment, hors d'oeuvres and lots of networking. This is an extravaganza that you don't want to miss!

With big special events, fantastic prizes, industry-specific training, the largest manufactured concrete trade show ever in North America and a host of networking opportunities, MCPX offers something for everybody. For more information on the 2005 MCPX Show, go to www.mcpx.org.

ACPA's Design Data Sheets go wireless

The ACPA Design Data series is becoming paper-less. Design Data are design aids covering all design issues concerning precast concrete pipe.

In November 2004, the Design Data became no longer available on paper from the ACPA. Those wishing to view and print out Design Data sheets may access an electronic version on the ACPA web site.

To access Design Data, go to www.concrete-pipe.org and click on the Design Data button under the Technical Data drop down menu on the top of the page.

ACPA's trade show exhibits for 2005

The ACPA plans to exhibit in at least three major trade shows during fiscal year 2005.

- ◆ MCPX 2005, Indianapolis, IN, February 11 to 13.
- ◆ APWA Congress & Exposition, Minneapolis, MN September 11 to 14
- ◆ AASHTO Annual Convention/2005 Trade Fair Nashville, TN, September 15 to 20



Plan part of your 2005 marketing program around the ACPA exhibits to increase the impact of our industry presence.

Concrete Pipe Industry Billboard

2005

ACPA Production Short Course School/MCPX
Indianapolis, Indiana
February 9 to 11

NUCA 2005
Orlando, Florida
February 8 to 12

CCPA/OCPA Annual General Meetings
Niagara-on-the-Lake, Ontario
February 18, 19

Ontario Good Roads Association Conference
Toronto, Ontario
February 20 to 23

97th Annual Meeting of the ACPA
Las Vegas, Nevada
March 13 to 16

CONEXPO-CON/AGG
Las Vegas, Nevada
March 15 to 19

Water Environment Association of Ontario
Huntsville, Ontario
April 17 to 19

Ontario Water Works Association Conference and Trade Show
Ottawa, Ontario
May 8 to 11

Ontario Environmental Tradeshow
Toronto, Ontario
May 11 to 12

Canadian Society for Civil Engineering Annual Conference
Toronto, Ontario
June 2 to 4

**Federation of Canadian Municipalities 66th
AGM and Municipal Expo**

St. John's, Newfoundland
June 3 to 6

ACPA CPU 201 – Concrete Pipe University

Irving, Texas
TBA

AWWA Conference & Exposition

San Francisco, California
June 12 to 16

STORMCON

Orlando, Florida
July 18 to 21

ASCE Pipelines 2004 Conference

Houston, Texas
August 21 to 24

ACPA Committee Week & CPU 301

Santa Fe, New Mexico
August 7 to 10

APWA Congress & Exposition

Minneapolis, Minnesota
September 11 to 14

**Transportation Association of Canada (TAC)
Annual Conference**

Calgary, Alberta
September 18 to 21

WEFTEC 2005

Washington, D.C.
October 29 to November 2

ACPA Fall Marketing Short Course School

TBA

International NO-DIG 2005

Rotterdam, Netherlands
September 19 to 21

Construct Canada 2005

Toronto, Ontario
December 4 to 6

Canadian Public Works Expo

Mississauga, Ontario
November 30 to December 1

2006

TRB 85th Annual Meeting

Washington, DC
TBA

World of Concrete 2006

TBA

ACPA 98th Annual Meeting

Scottsdale, Arizona
March 5 to 9

2007

BAUMA

Munich, Germany
2007 (every 3 years)

Hockey sticks

The January 17 issue of Marketing Magazine included bits of info about hockey that just might stick.

It's a good time for banner ads as no hockey means that the Web is experiencing a surfing surge. Fifty one percent of NHL fans surveyed say they are spending more time on the Internet to fill the void.

Bettman and Goodenow might as well take their time. Fifty-nine percent of respondents to a survey of NHL fans said when hockey eventually returns, their interest in watching will be lower. Fans said the same thing during the last lockout, but fears that viewership would be adversely affected ultimately weren't realized.

The Digital Pipe Digest is published by the Canadian Concrete Pipe Association through AGL Marketing Limited. The Digest is being distributed via Internet technology and the World Wide Web. Information is believed to be correct at time of publication. The CCPA shall not be liable for any error or omission. It is published and distributed monthly, and is intended to provide general information, with contacts.