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ONTARIO CONSULTING ENGINEERING AWARDS RECOGNIZE ACHIEVEMENTS OF ENGINEERING FIRMS

The 2010 Ontario Consulting Engineering Awards were presented on June 10 at Deerhurst Resort in Huntsville, Ontario. The awards recognize the knowledge, skill and expertise of consulting engineers in Ontario and showcase the importance of consulting engineering to the economic, social and environmental quality of life in Ontario.

The awards were presided over by the master of ceremonies, Howard Brown.

Introduction

The Ontario Consulting Engineering Awards are presented by Consulting Engineers of Ontario, a non-profit organization representing over 225 consulting engineering firms in Ontario.

The judges are a panel of eminent professional engineers representing client groups, professional associations and universities who are not currently engaged in consulting practice. Projects are judged based on four criteria as they apply to each project:

- Project objectives, solutions and achievements;
- Technical excellence and innovation;
- Level of complexity; and
- Contribution to social, economic and/or environmental quality of life.

An **Award of Excellence** is presented in each of three categories based on the size of firm as determined by the number of employees:

- Firms with 1 to 25 employees;
- Firms with 26 to 100 employees; and
- Firms with 101 or more employees.

Projects are also eligible to be recognized with an **Award of Merit** for achievement in one of up to six areas of practice:

- Building engineering and science;
- Environment;
- Industry, energy and resources;
- Project management,
- Studies and research; and
- Transportation.

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Firms of all sizes are eligible for the Awards of Merit.

One firm receives the **Willis Chipman Award** for the project that best demonstrates the important contribution of consulting engineering to the economic, social and environmental quality of life in Ontario. Firms in all three categories are eligible for this award.

Willis Chipman (1855 - 1929)

The Willis Chipman Award is a fitting way to recognize consulting engineers for excellence and to pay tribute to one of the great leaders and innovators of the engineering profession. Willis Chipman is reputed to be one of Ontario's earliest consulting engineers.

Chipman graduated from McGill University in civil and mechanical engineering in 1876. He was particularly interested in the design and construction of water and sewage systems and by 1884 he was the supervising engineer of the Brockville waterworks. He is regarded as the originator of separate systems for sanitary and stormwater sewers in Canada. During his career, Chipman worked on over 50 waterworks and sewage projects across the province.

Chipman was a prominent participant in the Association of Ontario Land Surveyors, Canadian Society of Civil Engineers, Engineering Institute of Canada and the Engineers Club of Toronto.

Willis Chipman Award Winner:

J. L. Richards & Associates Ltd.

Ravensview Wastewater Treatment Plant in Kingston

The largest municipal project in the city of Kingston's history, the \$115 million Ravensview Wastewater Treatment Plant Upgrades were completed under budget and six months ahead of schedule. Kingston's vision to be Canada's most sustainable city was embraced through environmental stewardship, energy management, and sustainable practices. The treatment standards and plant performance exceed expectations.

Client/Owner: Utilities Kingston

Award of Excellence Winners:

Firm with 1 to 25 Employees

Quad Engineering Inc.

Hot Rolling of Titanium Ingots - A New Process

Perryman Company had a new concept to roll titanium ingots, replacing the existing forging process. Quad Engineering turned this concept into the execution of a successful project. Work included "first principle" process engineering; customized equipment design; manufacture of large, complex components in multiple Ontario facilities; and installation engineering for minimum costs.

Client/Owner: The Perryman Company

Firm with 26 to 100 Employees

DST Consulting Engineers Inc.

Green Ground Improvement of a Brownfield in Thunder Bay, Ontario

Soil settlement, due to consolidation, results in building damage. Settlement occurs over long periods of time. This poses a particular challenge in Thunder Bay when developing new buildings. A geotechnical investigation showed that a new Leon's building would require a deep foundation. Deep foundations are expensive. In this project, an innovative ground improvement method was used to eliminate the deep foundation requirement.

Client/Owner: Leon's Furniture Limited

Firm with 101+ Employees

Dillon Consulting Limited

Walker Road CPR Grade Separation

A grade separation was required to eliminate vehicular congestion on Walker Road caused by slow moving U.S. bound trains as they are subjected to scanning after 9/11. The grade separation involves land acquisition, utility relocations, a 45-metre bridge, 4,000 m² of earth-reinforced walls, watercourse realignment and a storm water pump station.

Client/Owner: The Corporation of the City of Windsor

Award of Merit Winners:

Building Engineering and Science Award

Sigmund Soudack & Associates Inc.

The Absolute

This 56-storey building's main feature is its shape, which presented challenges in the development, analysis and structural system design. Ellipse shaped slabs, turned by variable angles, with respect to central vertical axis, create an attractive curve-shaped building, dubbed *Marilyn Monroe*.

Client/Owner: Dominus Management Group

Environment Award

Stantec Consulting Ltd.

Sandy Hill Flood Control & Park Rehabilitation

Stantec's solution to surface and basement flooding, in the Sandy Hill area of Ottawa, unites the innovative engineering design of a flood control solution with the redesign of a beautiful community asset. The result is a beautiful, imaginative public space that offers reliable flood protection while revitalizing the community.

Client/Owner: The City of Ottawa

Industry, Energy and Resources Award

Simulent Inc.

Modelling Epoxy Lining Procedure in Pipe Lining

In this project a comprehensive experiment and analytical study of the pipe lining process was carried out using an epoxy resin. The project was successful in determining the most important parameters to ensure a high quality lining. Pipe lining software, used to optimize the operational conditions prior to performing the lining, was developed.

Client/Owner: Bradley Mechanical Services/Pipe-Shield

Studies and Research Award

Delcan Corporation with McCormick Rankin Corporation

Ontario's Action Plan for the Intelligent Border Crossing

As cross border trade and traffic increase, issues such as long waits, congestion and unpredictable crossing times have emerged. Their impacts are both far reaching and local, affecting our economic competitiveness, quality of life and health, and the local border communities. In response to these issues the Ministry of Transportation Ontario (MTO) and Transport Canada initiated the development of an Action Plan for the Intelligent Border Crossing. The objective is to facilitate the efficient movement of people and goods across the border at all fourteen land border crossings, which are the responsibilities of both Canada and the United States.

Client/Owner: Ministry of Transportation Ontario/Transport Canada

Transportation Award

URS Canada Inc.

Detroit River International Crossing

This was the Canadian contribution to the bi-national study addressing traffic capacity, system connectivity, border processing and redundancy at Canada's busiest land border crossing. Recommendations carried forward include a new six-lane bridge spanning the Detroit River, new Canadian inspection plaza and a new six-lane access road (the Windsor-Essex Parkway).

Client/Owner: Ministry of Transportation Ontario

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For further information please contact:

Barry Steinberg, P.Eng
President, Consulting Engineers of Ontario
Phone: (416) 620-1400 ext. 224
Cell: (416) 458-1779
E-mail: bsteinberg@ceo.on.ca