

NA ENGINEERING ASSOCIATES INC.

NEWSLETTER | VOLUME 10 | ISSUE 2

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NA Engineering Associates Inc.
Stratford | London | Kincardine
www.naeng.com



Proudly celebrating twenty years providing professional
services in Ontario



solar and wind projects

Over the past several years, NA Engineering Associates Inc. has provided a variety of professional services for solar and wind power generation projects in Ontario.

These projects have included a variety of structural assessments prior to the installation of solar panels on existing structures. This ensures for our clients that rooftops have the necessary strength to bear the weight of these new installations. We have also provided professional services as electrical engineers, completing single line drawings for the installation of solar panels.

Working on wind power projects, we have also provided a variety of services. These have included structural assessments for the footings of wind turbines (pictured at lower left), as well as electrical engineering services for their installation and operation.

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open house and 20th anniversary

June 4th of this year marked the 20th anniversary of NA Engineering Associates Inc. We celebrated by holding an Open House for the firm's office in Stratford (with other open houses in London and Kincardine to follow later).

The firm grew from humble beginnings; originally operating from the spare office of a construction company, we now have three branches and nearly 40 staff. The firm is a diverse and multidisciplinary team of professionals, capable of successfully addressing an incredible range of projects. We are proud of the wide variety of work we have completed, as well as the relationships we have fostered with our incredible clients.

Thank you to all those who were able to attend the open house, and to all of our staff, friends, and clients with whom we have worked with over the past two decades.

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stratford-perth archives begin construction

In April, NA Engineering Associates Inc. attended a ground-breaking ceremony for the Stratford-Perth Archives, a project for which we recently completed detailed design requirements. In the photo to the left, Brent Powers and Nick Aroutzidis from NA Engineering Associates Inc. flank Matt Ash, Perth County's Director of Public Works (with shovel).

The new archives are being constructed near the Stratford-Perth Museum on Highway 8. The building's completion is scheduled for late in 2014, with the facility opening in 2015.

Our firm worked in close collaboration with stakeholders from the County of Perth throughout our development of the design requirements. When completed, the archives will include a number of different features: a digitization laboratory, a preservation laboratory, contaminated collection rooms, an exhibition gallery, and ancillary service spaces.

NA Engineering Associates Inc. provided a wide range of services throughout our involvement with the building's design, including work in the architectural, structural, mechanical, electrical, and civil disciplines. We will continue to act on the County's behalf, providing design oversight throughout the construction process.

Design for the archives also involved the consideration of a wide range of technical challenges. The building will provide state-of-the-art archival space (with specific electrical and mechanical systems for humidity control and protection). These features will help preserve the integrity of documents and artifacts stored within the archives for years to follow.

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darlington station's reactor mock-ups

Ontario Power Generation's Darlington Nuclear Generating Station will soon be entering a refurbishment phase that involves the removal and replacement of primary reactor components.

Prior to the actual replacement work in the station, the refurbishment team of SNC-Lavalin Nuclear Inc. and Aecon Industrial were required to assemble mock-ups of the station's reactor and feeders. These recently completed mock-ups are designed to provide a means of testing the tools and processes that will be used during the actual replacement.

Due to the extremely stringent safety requirements for work in radioactive environments, the replacement of the reactor components will be completed via remotely-controlled tools and complex multi-task machines.

For many of the scope areas required for the re-tubing process, NA Engineering Associates Inc. provided design and construction drawings for mock-up components, as well as related 3D computer models, and structural calculations. We also recently provided as-built drawings for the finished mock-ups.

The mock-ups are now in service, having recently been assembled and proof tested in the new Darlington Energy Center. The refurbishment project is expected to begin in a few years, following extensive testing. Staff can now train in a full-scale and hazard-free environment, testing processes and tools using the identical safety equipment and clothing as required in the Darlington station.

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renovating the roundhouse

Creative Property Design Build Inc. is renovating one of London's many heritage industrial buildings into a beautiful contemporary office space.

The project has involved both a renovation of the existing space and a small addition to the building, originally a 'roundhouse' repair shop.

NA Engineering Associates Inc. has provided a site assessment for the building's structural components, as well as design checks for the building. We also provided site grading design and the design of new storm, sanitary and water services to support the first phase of renovations, as well as allowances for future development.

As part of the project, some of the building's existing wooden structure needed to be replaced, with masonry repairs also required.

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our projects for sifton properties

Over the years, NA Engineering Associates Inc. has completed a wide assortment of projects for Sifton Properties, the London-based property developer and owner. These projects have varied in type, size, and scope, but have reliably been engaging and provided our staff with the chance to provide creative and innovative solutions as part of our professional services.

Our past services to Sifton Properties have included: building condition assessments, structural engineering, support on various building science projects, as well as the preparation of technical audits and reserve fund studies.

One of our recent Building Science projects for Sifton Properties included the preparation of specifications for re-cladding their property at 550 Berkshire Drive in London.

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knox presbyterian church plans a face-lift

NA Engineering Associates Inc. recently completed a project for Knox Presbyterian Church in Tiverton, Ontario. The church is a focal point in the town, and its congregation takes immense pride in their upkeep and usage of the building.

NA Engineering Associates Inc. met with members of the church's Restoration Committee, as well as a historical masonry restoration contractor, to conduct a detailed external and internal inspection of the church tower's brickwork and supporting structure.

A comprehensive condition assessment report was prepared and the Committee is using the contents to plan restoration work in 2014. There is no doubt that the surrounding community will come together and see the restoration through to its completion.

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canadian nuclear association conference and trade show

NA Engineering Associates Inc. travelled to Ottawa this February in order to attend this year's Canadian Nuclear Association's (CNA) Annual Conference and Trade Show.

The CNA is a not-for-profit organization representing the country's nuclear industry. It also acts as an advocate for the expansion of peaceful nuclear technologies.

The annual conference and trade show held by the CNA is the premier nuclear industry networking and knowledge-sharing event in Canada. It is attended by industry professionals, government officials, students, and the media.

This year marked the third time our firm has participated in the conference, following our joining to the CNA in 2012. Nick Aroutzidis, our firm's managing partner, was appointed to the board of the CNA in the same year.

More than 750 delegates from the industry gathered to review the show's many displays (including our firm's own booth) and to listen to a number of presenters and panel discussions on nuclear power.

Speakers at the event included writer and environmentalist M. Gwyneth Cravens, as well as Taylor Wilson, who (at fourteen years old) became the youngest person in history to produce fusion.

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stratford spring home show

The NA Group of Companies once again had a booth at the Stratford Spring Home Show, an event held at the Stratford Rotary Complex in April of this year.

The event was an excellent opportunity to meet with members of the public and answer questions about the variety of services provided by the NA Group of Companies (NA Engineering Associates Inc, Arky Designs Ltd, and NA Geomatics Inc).

The event also provided Peter Moreton of NA Geomatics Inc. with a venue to show off his vintage surveyor's equipment.

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fundraising runs in our jeans

For the fourth year running, the staff at NA Engineering Associates Inc. participated in National Denim Day, wearing jeans to work in support of a worthy cause.

The event was in support of the Cure Foundation, an organization that raises money to help combat breast cancer (funding hospital equipment, cancer research, as well as awareness and education initiatives).

Staff members each donated five dollars to the cause and wore pink ribbons to show their support.

Thanks to everybody for their energetic and ongoing support of this fundraising initiative.

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"COURAGE AND PERSEVERANCE HAVE
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AND OBSTACLES VANISH INTO AIR."

- JOHN QUINCY ADAMS