

NA ENGINEERING ASSOCIATES INC.

NEWSLETTER | VOLUME 10 | ISSUE 8 | SPRING 2016

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NA Engineering Associates Inc.
Stratford | London | Kincardine | Markham
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Proudly providing professional consulting
services in Ontario for more than twenty years.



assessing buildings for brescia university college

Brescia University College is affiliated with Western University in London, Ontario and is Canada's only university level women's college. Brescia University College is a small collection of very different buildings that include the historic original facility (1924) as well as a brand new residence building (2013). The large tree-filled site has nine buildings in total including: academic buildings, student residence facilities, a library, and faculty offices. The College is a vibrant and very active part of Western University.

Planning for a prosperous future is critical for educational institutions such as Brescia. Educational Consulting Services (ECS) were engaged by Brescia to provide advice to help develop buildings, campuses, policies and planning tools that foster quality learning, research and an enhanced student life experience.

NA Engineering Associates Inc. was retained by ECS to complete building condition assessments of all of the buildings to get a good understanding of each building's present condition and predicted future expenditures. Existing drawings were reviewed to understand the construction of each building. Site reviews were completed including structure, exteriors, roofing, mechanical and electrical equipment. Maintenance staff were interviewed to obtain a good understanding of repairs and recent updates. The report identified, reviewed, and documented deferred maintenance projects and recommended mitigation strategies with an order of prioritization and estimated costs.

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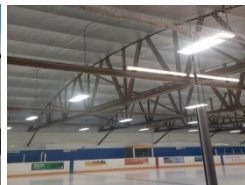
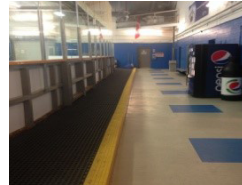
working with the city of london

NA Engineering Associates Inc. was retained by the City of London to complete a building condition assessment of Silverwoods Arena and Service building located on 50 Sycamore Street, in the City of London, Ontario. The building is comprised of a single pad ice rink and attached service building.

The assessment included a visual inspection of the structure, mechanical and electrical systems, interior finishes, as well as the building envelope and preparation of a formal report summarizing our findings. The report included a detailed description of the components and a comprehensive list of recommendation with associated costs for remediation of deficiencies and future replacements.

The refrigerant equipment, pool equipment, rink boards and furnishing in the buildings were not included as part of the report. A visual representation of buildings condition observed during this review was included.

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a lighting makeover for bruce power's machine shop

Constructed in the 1980's, the Bruce Power Central Maintenance and Laundry Facility is a large, multi-function facility where a variety of consolidated shops are located.

Upgrades to the lighting in the machine shop have long been overdue for the fine and detailed tasks performed for the manufacture and repair of metal parts. Areva NP Canada undertook the upgrade project and retained NA Engineering Associates Inc. to conduct a third-party lighting level verification of the recently-completed installation, which consisted of new high-output and energy efficient LED lighting fixtures.

The lighting upgrade project was deemed a success by all and machine shop staff and design stakeholders are extremely pleased with the final outcome.

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repairs to london's salt buildings



The City of London enlisted the professional services of NA Engineering Associates Inc. to complete field investigations of two existing salt storage buildings located at the Adelaide and Bathurst Street facility yards.

Both salt storage buildings were originally constructed in the 1970's. It was observed that substantial use of the buildings during the winter months resulted in damage to the wood superstructure and the salt caused concrete deterioration on the interior.

NA Engineering Associates Inc. was also responsible for developing repair plans for both buildings. The unique structures required detailed drawings of each dome section, clearly identifying the locations of required repairs and associated details.

Coordination and supervision of the repairs was crucial to ensure satisfactory and timely completion, in order for salt delivery operations to begin for the next winter season.

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an occupancy review for ontario power generation

NA Engineering Associates Inc. undertook the task of completing an occupancy review of the Pickering Learning Centre (PLC) located at the Ontario Power Generation Pickering site. The purpose of the review was to provide occupant load figures on a per-room basis for each of the training and shop rooms.

A detailed analysis was completed from an overall building occupant load perspective, based on the existing client drawings and a site visit. The exit and stair capacity and the building configuration were reviewed to determine if the building met all applicable Ontario Building Code requirements. An additional room-by-room analysis was conducted for each floor area of the building to determine specific occupant load limitations.

Based on our recommendations, Ontario Power Generation continues to provide a facility that optimizes class size without sacrificing comfort while maintaining a high standard level of quality training for the staff in the nuclear sector.

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diesel generator replacement at 700 university ave in toronto



Ontario Power Generation (OPG)'s head office at 700 University Ave is a complex, high-rise office building that was constructed in 1974 and is situated on a physically constrained site in the heart of downtown Toronto. The building is supplied with electrical power from the local utility's distribution system. The focus of this project was to improve the emergency power supply.

NA Engineering Associates Inc. undertook a condition assessment of the existing diesel generator, which was nearing the end of its service life. It was determined that it was necessary to design a replacement generator system. The original diesel powered emergency system to be replaced with two new natural gas powered generators rated each at 450kW (562.5kVA) 240/416V 3Ph.

This equipment was placed on new structural steel mezzanines located on the roof of the at

700 University Ave. Additionally, we designed a new modular building to house the electrical equipment and controls. Included with this project was the design of adequate lightning and grounding protection, as well as a caution lighting system for aerial traffic controls.

NAE has worked closely with the building's owner, OPG as well as the prime contractors, Kolostat and OZZ Electrical during the construction phase to ensure installation of the new generator's and coordination with the existing power distribution system is completed without any disruption to ongoing operations.

Installation is currently underway with the project scheduled to be completed at the end of May 2016.

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kia dealership gets an overhaul!

NA Engineering Associates Inc. was retained by Alkier Motor Sport Ltd. to complete the design for a renovation and addition to an existing building for a new KIA Dealership in Waterloo, Ontario.

The existing building underwent extensive renovations including full removal of the existing showroom structure down to the existing foundation and the construction of a new structure was put in its place.

NA Engineering Associates Inc. was responsible for the structural, mechanical, electrical, fire protection and layout of the new building. Working closely with the KIA Corporate Image program equipment, fixtures and finishes were selected to compliment the program. A curtain wall system provides full vision from the street into the sales showroom.

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congratulations to our NA team members!

Earlier this year, one of our partners Larry Walton received his Consulting Engineer designation from Professional Engineers Ontario. This title helps promote recognition of engineers in independent practice; a prospective designee must be an active member, provide professional and character references, and have a minimum of five years of experience satisfactory to the PEO Council. Congratulations Larry!

Congratulations to our Brad Miller for his recent milestone of 20 years with the firm in March 2016. Brad has been with us since 1996 where he was one of the first three employees in our original Ontario Street office in Stratford, ON. Since that time, the company has seen many changes and successes but Brad continues to be an integral part of the firm and our continued success.

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a successful turkey easter giveaway!

President and CEO Nick Aroutzidis and the staff at NA Engineering put together 350 Easter baskets with all the fixings of a full turkey dinner. Staff gathered from offices in Stratford, London, Kincardine and Markham to help assemble and give out the baskets in Stratford, ON.

Easter can be a time where families that are struggling don't have extra support. The Salvation Army and the House of Blessing worked along side Nick to make sure the baskets went to those people who needed them the most, and various community partners such as the Local Community Food Centre helped with the initiative. It inspired hope in those people who were recipients of the baskets, and is sure to become a new Easter tradition!

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a birthday celebration that gives back!

Recently, one of our senior staff members celebrated a 50th birthday. The surprise celebration, attended by many of his NAE friends, was held as a fundraiser for the Aplastic Anemia and Myelodysplasia Association of Canada.

Aplastic anemia is a rare but extremely serious disorder that results when the marrow fails to produce blood cells. Myelodysplasia is similar to aplastic anemia in that production of blood cells is decreased; however, the blood cells which are produced in myelodysplasia may not function properly.

The conditions can eventually change to leukemia.

\$500 was raised at the party and NA Engineering Associates Inc. made a matching donation of \$500. Pictured here is our President and CEO Nick Aroutzidis presenting a cheque to Cindy Anthony of AAMAC.

For more information on this condition, please visit www.aamac.ca

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national cupcake day

Our second annual National Cupcake Day fundraiser for the Stratford-Perth Humane Society was a huge success again this year. Bake days were held over the course of two months, with fourteen staff members baking incredible treats to raise funds for our local Humane Society. A total of \$508.35 was raised and presented to our local shelter on April 7th, 2016.

Special mention goes to our Pastry Chef Stan (pictured), who helped us raise money for the SPHS and his fellow four legged friends! Thank you!!

Our event organizer Cheryl Young presents the cheque to Karen at the Stratford-Perth Humane Society.

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