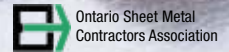


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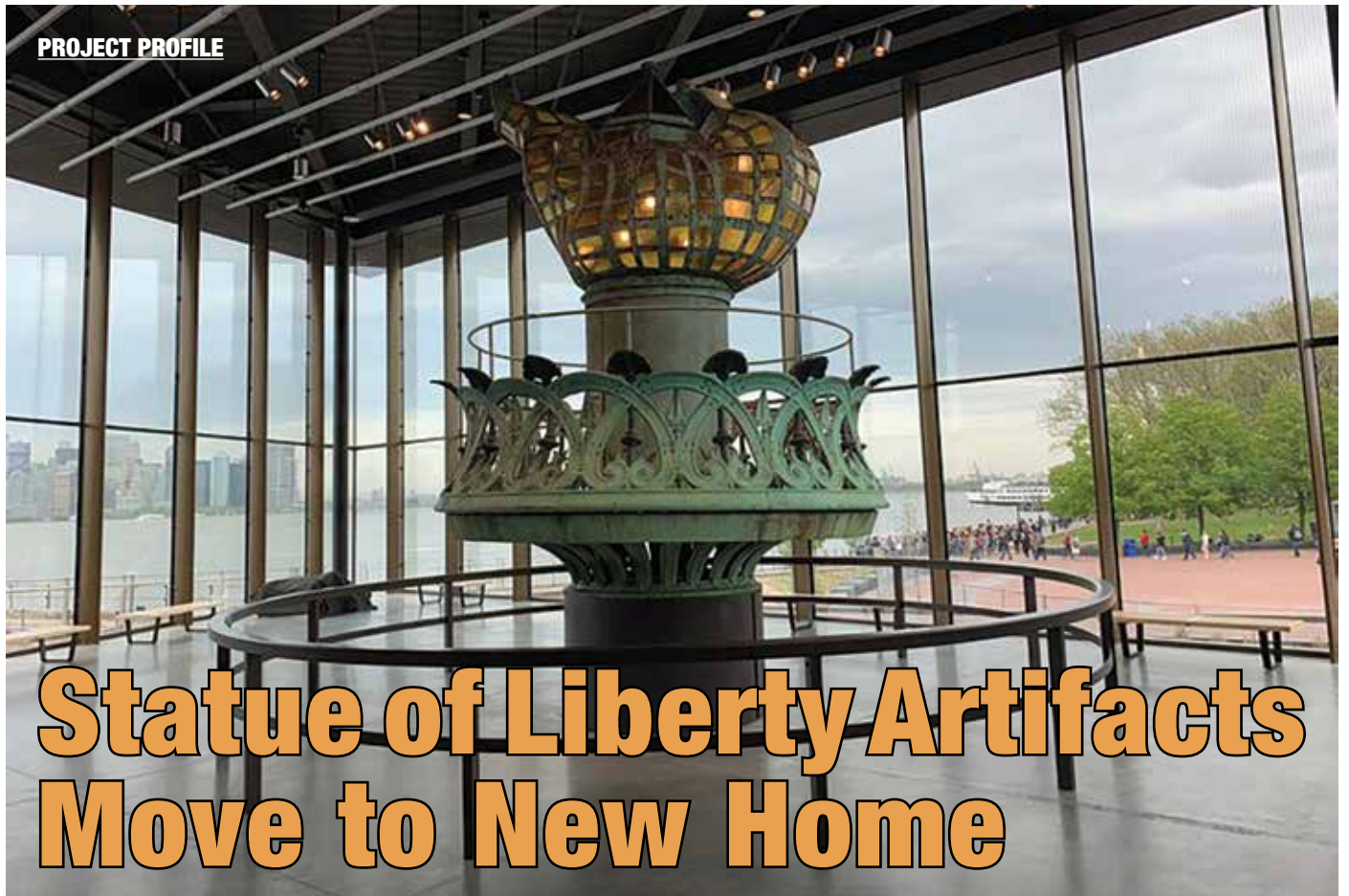
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FALL 2019 CROSSFLOW

THE OFFICIAL NEWSLETTER OF THE ONTARIO SHEET METAL CONTRACTORS ASSOCIATION

PROJECT PROFILE



Statue of Liberty Artifacts Move to New Home

Heather & Little Ltd. Pivotal in Historic Move

A company sure is good at what it does when it receives the nod to complete work on a world-renowned landmark. Just ask Mike Papania, executive vice president of Heather & Little Ltd. (H&L), Toronto, ON, who was quite excited to be approached by a U.S. contractor needing some expert advice on a complicated project involving the Statue of Liberty.

“I was honoured that they approached us to contribute to this job,”

Papania said. “Our reputation in the industry must have preceded us. We deal with customers in the United States all the time, but I didn’t realize we had as wide an audience as we do.”

It all started with a phone call in 2018. Initially sounding like a script from “*Mission Impossible*,” where the project and the players remained unrevealed, after a few weeks of telephone consultation, it was finally disclosed that the job involved the disassembly of the original torch and a

replica of Lady Liberty’s life-size foot, so they could be moved to a new location.

The Statue of Liberty, located on Liberty Island in New York Harbour, NY, was a gift from France to the people of the United States. Designed by French sculptor Frédéric Auguste Bartholdi, and built by Gustave Eiffel, the copper statue was dedicated on October 28, 1886. The statue stood tall for three decades before it was damaged in an explosion in 1916,

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Statue of Liberty Artifacts Move to New Home

... continued from page 1



during World War I. Sculptor Gutzon Borglum was tasked with the repairs, but made some serious design errors. Replacing some of the copper with amber panes of glass, rain and snow entered the torch's framework and led to severe corrosion. By 1985, the torch had to be replaced, leading to the original 3600 pound torch being housed in a small museum at the base of the statue.

In 2016 the decision was made to build a larger, more modern museum facility. In addition to the design of the 26,000 sq. foot museum, planners had to determine the best way to move the historic artifacts from one location to the other. In fact, it took almost two years of consultation to devise the best plan. And

that plan included H&L.

Having been hired as a consultant to Rambush & Rambush Lighting – a company specializing in lighting – H&L was tasked with determining the best way to dismantle the torch and the foot, and allow them to be safely re-assembled in the new location.

“Because most of the torch is stained green glass, Rambush & Rambush was the ideal choice to deal with the lighting side of the project,” Papania said. “But they looked to H&L’s experience with solid copper rivet removal and replacement, as these pieces are irreplaceable.”

Travelling to New York City to receive an award on behalf of H&L – for

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Crossflow is the official marketing publication of the Ontario Sheet Metal Contractors Association. Circulated four times per year, the e-newsletter is designed to provide association news and program updates, government affairs information, educational opportunities, as well as updates on current industry trends.

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OSM Welcomes New Members

Wally McIntosh Memorial Scholarships Presented

The Ontario Sheet Metal Contractors Association (OSM) is pleased to announce the recipients of the 2020 Wally McIntosh Memorial Scholarship Awards. Mr. McIntosh would certainly be proud of the hard-working students recognized this year.

The former OSM president, who passed away in 1982 at the height of his career, always held education in high regard. This year OSM offered two \$2500 scholarships to children of OSM member firm employees who are graduating from high school, and entering college or university.



Sarah Mojeski



Shelby Wilson

Every year presents a new challenge for the panel of judges who are tasked with choosing the two most deserving applicants. Not only are their academic achievements considered, but so are their extracurricular activities, community outreach, leadership qualities and employment history.

After much deliberation and discussion, the panel narrowed their decision to Sarah Mojeski and Shelby Wilson.

Daughter of Chris Mojeski, vice pres-

ident of John Kenyon Ltd., Sarah is currently working towards a Bachelor of Architectural Studies at Carlton University.

Shelby is currently at the University of Waterloo working towards an Honors in Science. She is the daughter of June Wilson, estimator at E.S. Fox.

Earlier this year, the OSM Board of Directors decided to discontinue the \$1000 scholarship to a deserving student at Lambton College. Instead OSM will award this scholarship to the graduated sheet metal

apprentice of the Ontario Sheet Metal Workers Training Centre that obtains the highest average mark from all three phases of day school. Only union apprentices that have attended all phases of day school at the training centre are eligible. The apprentice award will be presented at the completion of the advanced program which is currently underway.

OSM encourages its members to continue to share and promote this scholarship within their companies. For more information, please visit the OSM web site.



OSM 2020 Annual Convention

May 8 to 17, 2020
Athens & Rhodes, Greece

Although registration for the OSM 2020 Convention is currently sold out OSM will try to accommodate all members still wishing to attend. The 2020 Annual General Meeting and Convention will be held . May 8 to 17, in Athens and Rhodes, Greece.

Once known for smog, traffic and tacky architecture, Athens is a city reformed thanks to the fortunes brought by the 2004 Summer Olympics. Spotless streets, an ultra-modern metro, new motorways, accessible airport and signs in English, make the city easily negotiable for tourists. OSM will be housed at the Grand Hyatt Athens from May 8 to 10.

On May 11, the group will fly to Rhodes and check-in to the Elysium Resort & Spa. After six days of business meetings, networking events and personal time, the group will return home on Sunday, May 17.

To view the convention brochure and agenda, please visit the OSM web site.

If you are interested in attending, please contact Lisa Weidinger at lisa@lorandus.com as soon as possible.



OSM Attends 2019 Ladies Night

The OSM Board and their spouses were invited to attend the TSM Annual Ladies Night event held November 2 at Hotel X in Toronto.

Since the Board was already on site for a business session during the day, the invitation was extended to the Ontario members to join TSM on the 28th floor for the evening festivities.

With a theme of fire and ice, 86 couples were able to take in the spectacular views of the city, enjoy fine food and fellowship, and round out their evening by dancing the night away. A good time was had by all.



Message from the Executive Director

I am attempting to keep my report as brief as possible, considering this issue of Crossflow has plenty of content without my ramblings. I'm sure our editor as well as the Board of Directors are smirking, as rarely am I described as being 'brief'.

In this edition, we address the announcement that skills and training has been removed from the portfolio of the Ministry of Colleges and Universities and added to the responsibilities of the Ministry of Labour, Skills and Development (MLSD). The MLSD has the administration of the Ontario College of Trades and Apprenticeship Act as well as the training. I do think it will be beneficial having both the oversight of the trades and the training under the control of one Ministry as opposed to two. A positive stride which the Ministry has already made was the addition of one more class to the Ontario Sheet Metal Workers Training Centre for March 2020. Looking forward, the training centre is requesting approval for three additional classes for 2020/2021. This will take the total classes from the current 12 to 15, if approved.

The MLSD will be undertaking consultations with stakeholders to receive recommendations for the modernization of the skilled trades apprenticeship system. My concern is that this modernization could backfire and make matters worse if mishandled. OSM will participate in these discussions, and I encourage members to contact me to share perspectives and recommendations. I must say that Minister McNaughton is presenting as an approachable and engaging Minister, which is extremely positive for the industry.

In September, I attended a COCA meeting where WSIB and the Office of the Employer Advisor presented on the upcoming WSIB Rate Framework, and other initiatives including the Health and Safety Excellence program. I suspect many of our members have questions on these changes – especially those tasked with dealing with WSIB for their companies. With this in mind, OSM is partnering with Mechanical Contractors Association of Ontario (MCAO) to facilitate a seminar for our members before the end of the year.

Prompt Payment legislation is now enacted. There are currently multiple seminars on prompt payment through various location construction associations, as well as some have published guidelines to navigate the new Construction Act. Prompt Payment Ontario commissioned Geza Banfai of McMillan LLP to write the Prompt Payment Ontario Construction Act Guide for Trade Contractors. This guide is being published in a digital format only, and will be available before mid-December. OSM will provide the guide to our members free of charge. There will be no restriction for our members to share the document with industry partners.

A few projects OSM is currently working on include the development of a sheet metal estimating training program and the update of the OSM Payroll Guide. Additionally, I have had employers enquiring about the availability of group insurance for employees working outside of the bargaining unit. I have spoken to Ian Cunningham of COCA about such an insurance program being facilitated through COCA or perhaps even the CCA. The concept will be tabled for discussion at the upcoming COCA meeting in December.

The 2020 OSM AGM and Convention has sold out. We currently have 45 couples attending, not including Lorandus staff. It is encouraging to see that participation has grown annually over the past four years. OSM will make our best effort to secure space if there are still members wishing to attend. Please contact Lisa Weidinger, at Lorandus, via email at lisa@lorandus.com.

One of my objectives when I started serving the association was to grow membership. I'm pleased to say that OSM has done just that. I believe this growth has been from the efforts of our Board of Directors, local associations and our valued members reaching out to non-member employers. I encourage employers to be engaged in your local association, OSM and SMACNA. We benefit from associating with one another and collectively working together towards common goals.

With that said, I'll wrap it up. Short and sweet, just like me.

LEGISLATIVE UPDATE



New Duties Announced in Ontario House of Commons

Premier Doug Ford recently issued a statement on changes to Ministerial responsibilities in the Ontario House of Commons.

Of note is the removal of training and skills development from the Ministry of Colleges and Universities to now being under the portfolio of the Ministry of Labour. MoL inspectors are currently responsible for policing the compulsory trades and ensuring those working in it are in possession of a Certificate of Qualification or that apprentices are properly registered.

Monte McNaughton, Minister of Labour, Training and Skills Development, recently announced the establishment of a Construction Advisory Panel. This panel will provide input on issues of interest in the construction sector directly to the Minister. Issues could include labour and employment law, the rise of new equipment and technologies, workplace health and safety, and injury prevention. The panel will provide an opportunity for the Minister to hear the different perspectives and concerns from construction industry partners.

Additionally, McNaughton announced the appointment of Andrew Pariser (RESCON) and Adam Melnick (Heat and Frost Insulators Union) to lead consultations with stakeholders and provide recommendations to the Minister in order to modernize the skilled trades apprenticeship system.

APPRENTICE COMPETITION

Ontario Apprentices Shine at Niagara Falls Competition

The Ontario Apprentice Competition was held September 25 to 29, 2019 in Niagara Falls, ON. Twelve competitors from Local Union 30, 47, 235, 397, 473, 537 and 562 were in attendance.

Fitting to the Niagara Falls area, this year's hands-on project – which was completed directly next to the falls – was a vintage tourist binocular. Many tourists passed by and made a point of stopping to watch the competitors partake in their craft.

This year's competition winners were:

- Fifth Place – **Adamo Beaudoin** (LU285) – Aria Comfort Systems
- Fourth Place – **James Morrison** (LU473) – no employer
- Third Place – **Matthew Weaver** (LU537) – Lancaster Group
- Second Place – **Sunny Lad** (LU285) – no employer
- First Place – **Sean Davis** (LU397) – Comfort Heating Solutions
- Congeniality Award – **Ivan Salan-**



da Morales (LU30) – Plan Mechanical
 Congratulations to all of the winners. The 2020 Ontario Apprentice Competition will be held in Ottawa, ON, however the date and venue have not yet been released. The 2020 Canadian Apprentice Competition will be held in St. John's, NL, July 15 to 19, 2020 at the Delta Hotel St. John's Conference Centre.

Co-Operative Education Partners Wanted For University Students

The University of Waterloo (UofW) is seeking companies interested in partnering in its cooperative education program.

UofW is home to some of the brightest and talented students in the world, and is recognized as one of Canada's leading universities for employer-student connections. In fact, over 7000 employers have tapped into the value of co-op students from Waterloo.

Companies simply register at uwaterloo.ca and post their job requirements. They can then access over



21,000 students available for full-time positions over four- to -eight-month work terms.

For more information, please contact Emily Burgess at (226) 220-1766 or Emily.burgess@uwaterloo.ca.

INNOVATIVE TECHNOLOGY



Camfil Introduces New Filter Media

Camfil has introduced an innovative new HEPA filter which provides fine airborne particulate control for facilities which require cleanroom environments.

The Megalam EnerGuard filter features a polymeric media with a distinctive structure of multi-functional fibres which provide micron, sub-micron and nano particulate filtration. With configuration flexibility, the filter is said to provide the highest level of protection for product, processes and personnel.

In addition to providing energy-cost savings, the filter also offers handling forgiveness. Contrary to the fragility of some filter types, the EnerGuard has durability and physical robustness to mitigate the possibility of damage during shipment, transport, installation or incidental contact during maintenance.

Available in efficiencies of 99.95 per cent (H13), 99.995 per cent (H14) and 99.9995 per cent at 0.1 to 0.2 microns (U15), the filter is designed for the most demanding life sciences applications.

The Megalam EnerGuard panel filters are manufactured in an ISO 7 environment (Class 10,000) to ensure product cleanliness. Every filter is tested in a space that is maintained at ISO 5 (Class 100).

For more information and technical details, please contact Abhishek Arora at (416) 540-4472 or email: abhishek.arora@camfil.com.

NEW PROGRAM**WSIB Introduces Health & Safety Excellence Program**

The WSIB's new Health & Safety Excellence program integrates the strengths of the WSIB's previous incentive programs into one, and provides a clear roadmap to improve safety in the workplace.

In addition to expanding service options and modes of delivery, the new program will also increase validation and feedback to ensure effectiveness of health and safety improvements.

Success within the program can earn companies rebates and other non-financial recognition. Additionally, the program connects businesses of all sizes with WSIB-approved providers to assist in developing a program that is suitable for a specific business.

For more information or to join the program, please visit www.wsib.ca.

Changes to Clearances Announced

As of September 15, 2019, a clearance certificate will automatically be created for your business, as long as your company is up-to-date on its WSIB payments and reporting. This clearance number is valid for all contracts. In the past, a specific clearance had to be created for each business that a contractor works with.

Most newly-registered businesses that need a clearance certificate at the time of registration make an initial advance payment of \$250. This payment is applied to your WSIB account as a credit and will be applied towards your future premiums.

For more information, please visit www.wsib.ca.

WSIB UPDATE**New Rate Framework Effective January 1, 2020**

On January 1, 2020, the Workplace Safety & Insurance Board (WSIB) will release its new Rate Framework.

Currently, the WSIB uses either NEER, CAD-7 or MAP experience rating programs in order to calculate the total dollar amount in premiums to be paid by Ontario employers, including surcharges and rebates.

The new system will completely replace these programs. Instead, WSIB is shifting to a new system to make the calculation of employer premiums more transparent and easier to understand.

Although the New Rate Framework will be introduced on January 1, a transition plan will be in place to phase out NEER, CAD-7 and MAP by the end of 2020.

WSIB is simplifying how businesses will be classified by adopting the North American Industry Classification System (NAICS). A North American standard, NAICS is already used by Statistics Canada and the Canada Revenue Agency. The system will help simplify and streamline the classifications, making it easier to understand why businesses are classified the way they are. Under the NAICS, employers will be classified into 34 classes/sub-classes instead of the previous 155 different Rate Groups.

In the New Rate Framework, employers will be assigned to a Class that is representative of their business' predominant activity (this mostly applies to businesses with multiple Rate Groups under the NEER and CAD-7 systems).

The New Rate Framework takes a prospective rate setting approach. This means that in addition to annual rates, employers will be provided projected premium rates in advance, which can serve as an early indicator as to the direction of their premium rates. This will help keep employers informed and prepared for any changes to



their rates in the future. As well, any premium changes as a result of the new system will be phased in over time, allowing employers to adjust.

The New Rate Framework will use a two-step approach to set and adjust premium rates for businesses.

The first step involves setting an average rate for each industry class based on their risk profile and share of responsibility to maintain the insurance fund.

The second step looks at how an employer's individual claim history compares to the rest of the businesses in their class. This means that the overall rate under the new model will reflect individual claims experience and risk.

This two-step approach will ensure businesses are paying a fair rate that is reflective of their industry and experience. When setting premium rates, the WSIB will be using insurable earnings, claims costs and the number of allowed claims over a six-year period. For new businesses with less than one year of experience, the premium rate will be the class average rate.

In 2020, WSIB will consider the accident years from 2013 to 2018 to create an employer's Personalized Premium Rate. The accident experience from 2016 to 2018 will be worth two-thirds of the 2020 Personalized Premium Rate, while 2013 to 2015 will be worth one-third.

For more information, please visit the Office of the Employer Advisor.

INDUSTRY EVENT

SMACNA Hosts 2019 Annual Convention

The Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) held its annual convention October 20 to 23, 2019 in Austin, TX. This was the first time SMACNA has held its convention in Austin, and the event continued to be successful with over 1000 members attending.



This year also marked the grand finale of SMACNA's 75th anniversary and included an interactive exhibit highlighting SMACNA's history. Association members were invited to join in by adding their own milestone to the timeline. The earliest milestone was from 1878 when SMACNA member Schoppe Co. Inc. was founded. SMACNA will be reviewing all the milestones and possibly adding them to the digital timeline on its website.

Following the education sessions on Monday, October 21, SMACNA presented its Safety Excellence Awards for Canada. This year's winner was Modern Niagara who won in the over 100,000 man-hours category. Modern Niagara Executive Vice President, Jim Warner, was in attendance to receive the award.

After completing his term as director, Danny Dillon of Dilfo Mechanical turned the reins over to Blair Hubber of Lancaster Group who was installed to the SMACNA Board of Directors.

At the conclusion of the convention, Nathan Dills turned the responsibilities and duties of president to Angie Simon,



PHOTO TOP LEFT: SMACNA Past President Nathan Dills (left) presents the president's gavel to incoming President, Angie Simon. Simon is the first female president in SMACNA's 75-year history.

PHOTO TOP RIGHT: SMACNA Past president Nathan Dills (left) presents the Safety Excellence Award for Canada to Jim Warner of Modern Niagara.

PHOTO ABOVE: The SMACNA Annual Convention concluded with an exclusive concert by best-selling band Foreigner.

of Western Allied Mechanical, who will take on the role for the 2019-2020 year. Simon, who is the first female president in SMACNA's history, is a registered Professional Mechanical Engineer.

The event closed with an exclusive concert with one of the best-selling bands of all time, Foreigner. The group entertained the delegates with hits like "Jukebox Hero" and "I Want to Know What Love Is."

The 2020 SMACNA Annual Convention will be held September 27 to 30 at the Broadmoor in Colorado Springs.



SMACNA HVAC Duct Construction App Introduced

SMACNA has introduced a new app that will provide SMACNA compliant options for rectangular duct with dimensions from one- to 120-inches for applications negative to positive 10-inch water gage.

The scenarios for the app are limited to joint lengths of four-, five- and six-feet. The transverse connections are limited to T1 (flat drive), T5 (flat slip), T10, 11 and 12 (standing slips) and T25 a or b (TDC/TDF). Where appropriate, the app will also provide options for intermediate reinforcement. The full range of reinforcement spacing options is six-, five-, four-, three-, two-and-one-half and two-feet.

In most cases the app will provide options for internal reinforcements and external reinforcements. Internal options are limited to EMT conduit tie rods and external reinforcements are limited to angles. Enough information is provided so users can choose other options from SMACNA's Standard.

The output of the app is a written description of the duct as well as a graphic representation. Users can view the report on-screen or email it.

The app does not provide every possible solution found in SMACNA's standard and it will not provide every detail. For example, the app does not provide requirements for the proper attachment of the reinforcements. The app is intended to be used in conjunction with SMACNA's HVAC Duct Construction Standard.

The app is only available to SMACNA members via the SMACNA website.

ASHRAE-Toronto and SMACNA Host Industry Expo & Seminar

ASHRAE-Toronto, SMACNA and the Toronto Sheet Metal Contractors Association (TSM) presented the fifth annual industry exposition and seminar on November 6, 2019, at the Sheraton Parkway Toronto North.

In addition to a table-top trade show, the featured presentation for the evening was "Futureproofing Commercial

Buildings: The Unification of Multiple Building Systems," with speaker Ryan Sen, regional sales director, Distech Controls.



Sen's presentation touched upon

... continued on page 8

SMACNA Releases Technical Bulletin

SMACNA issued a technical bulletin – *Hanger Straps Embedded in Concrete Test Results* – on October 18, 2019.

The SMACNA Testing and Research Institute (STRI) completed load tests on three different combinations of strap embedded in concrete.

The test specimens included (A) 16 ga x one-inch wide double coil hanger strap embedded flush with the bottom of the concrete surface; average concrete compressive strength was 3,650 psi; (B) 16 ga x one-inch wide double coil hanger strap embedded one-inch from the bottom of the concrete surface; average concrete compressive strength was 3,600 psi; and (C) 16 ga x 1-1/2-inch wide double coil hanger strap embedded 1 inch from the bottom of the concrete surface; average concrete compressive strength was 3,850 psi. The test configurations for the three types of test specimens are illustrated in the bulletin.

To download the full bulletin, please visit www.smacna.org.

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ASHRAE-Toronto and SMACNA Industry Expo & Seminar

what the building of the future looks like; open communications; virtualization of systems; enterprise management; hybrid architecture; data warehousing; advances in security; and, applying tomorrow's technology today.

In addition to providing valuable insight into the buildings of the future, the evening provided an outstanding opportunity for delegates to network with local distributors, designers and manufacturers, as well as peruse the latest in HVAC, hydronics and sheet metal products.

Statue of Liberty Artifacts Move to New Home

... continued from page 2

the West Block Project on Parliament Hill in Ottawa – Papania took a detour in order to visit the Statue of Liberty and determine what exactly they were dealing with. Although some unique thinking was required, the final game plan wasn't that far outside of the realm of what H&L specializes in.

"I remember saying to Dave (Spears, H&L shop foreman) that it's amazing that (Rambush & Rambush) came to us to do a project like this," Papania said.

Having a concept in mind, Papania came home and began to bring his vision to life.

"In the old days, workers would join two pieces with solid rivets," he explained. "One worker would put the rivet through the holes and another would hammer it on the other side so it would expand or 'mushroom'. This was the reason why everyone was leery of moving the piece. The re-installation of the solid copper rivets was the concern because the torch was so old and fragile."

According to Papania, the answer came through a simple brass bolt. Because brass is a soft metal, not only was it easy to shape, it also would not damage the pieces. U.S. Park officials agreed.

Creating three different lengths, H&L shop professionals grinded down the six-sided brass bolts so they would be round, and then hammered the tops to give them an authentic look. The bolts were then covered with solder, followed by a blue stone chemical to give them that aged copper appearance. The bolts that were created were exact replicas. Definitely a win for H&L.

With bolts in hand, Papania and 30-year H&L veteran David Spears headed to New York to guide the disassembly of the torch and the replica foot. Working



alongside Rambush & Rambush Lighting, Papania and Spears guided the contractor's to carefully drill out the original solid copper rivets to make disassembly possible. Once the pieces were moved to the new location, the H&L team was again on hand for the re-assembly using the H&L fabricated brass bolts which were made into solid rivet replicas.

When asked if there was a level of fear dealing with pieces of such significant historic value, Papania said "of course there is, but we're used to dealing with items of this nature."

"You can't let fear get into your head," he explained. "It's like a heart surgeon doing open heart surgery. Over time, the procedures become second nature. This is what we do and it just comes naturally."

As the new Statue of Liberty Museum opened on May 16, 2019, Papania reflects on the contribution H&L made to safely disassemble and reassemble the two historic pieces, and make sure they safely arrived in their new home so the over 4.3 million annual visitors could enjoy them and the many other pieces on display.

"The Statue of Liberty project was a special job for us not for the work involved, but because of what the pieces were," Papania said. "We get to be a part of many historic projects, but it's not everyday when someone can say they worked on the Statue of Liberty."

Welcome New Members

The Ontario Sheet Metal Contractors Association (OSM) welcomes the following new members:

- James York Contracting
- MVC Architectural Products
- North West Installations
- NRK Mechanical Ltd.
- Quality Mechanical
- Valenca Aluminum Inc.
- Western Mechanical & Electrical
- Camfil (OSM Associate Member)