

# InfraStructures

CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 18 • Number 1 • December 2012/January 2013 • *English Edition*



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## A Brief Word...

*Once again with one year over and another offering a bounty of new challenges and rewards. Who says '13 is unlucky?*

*We'll have stable and affordable interest rates and pedestrian growth rate as we have had through the past year at least until summer.*

*But if 2012 wasn't a "Bust", will 2013 be a "Boom"? Likely not, but it will be a step in the right direction.*

*Fortunately by the middle of the year a lot of turmoil will be behind us, Charbonneau and McGuinty among them. The Bank of Canada will have a new Governor and there will be subtle but positive indicators from around the global economy.*

*2013 will also be a year of innovation and positive news from the equipment industry. There will be a full schedule of shows and news events. Expect to see a focus on energy efficiency, emission-friendly technologies and much more announcements from manufacturers and end-users alike.*

*As always, InfraStructures will be your eyes and ears, bringing you all the news you want and need to know. We'll be covering all the major events from the show floor as only Canada's leading industry publication can.*

*We'll also be out on the jobsite to see what the industry is saying, in English and French as only InfraStructures can do.*

*So, don't moan about the coal in your stocking. Relax and enjoy the season's festivities because the New Year will have much to challenge you with.*

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On the cover: a Bobcat 3450 Utility Vehicle with rapid link system that allows operator to switch from snow blade, bucket, forks, mower or broom just with a click.

**TAKEUCHI ANNOUNCES AGCON EQUIPMENT AS NEW DEALER IN MANITOBA**

Takeuchi-US has announced AgCon Equipment as the latest addition to the expanding Takeuchi dealer network in North America. As a full service heavy construction, landscaping and agricultural equipment distributor, AgCon Equipment will represent the full line of Takeuchi compact earthmoving equipment from their offices in Springfield, Manitoba.

Founded in 2011 by owner Troy Ash, AgCon Equipment specializes in the sales, rental and service of construction and agricultural equipment to their customer network in Southern Manitoba. "We know it's a big deal when it comes to purchasing equipment. That's why we keep it simple and sell only the best agriculture and heavy construction equipment available on the market to our clients," says Mr. Ash. "Our sales staff has a comprehensive

knowledge of the products we sell — and even the products we don't sell — because you have to know the market to know what the best is! We believe that by selling the best, our customers will reap the greatest benefits in terms of production and yields."

Takeuchi is an ISO 9001 certified manufacturer of an extensive line of compact track loaders, compact excavators and compact wheel loaders. Founded in 1963, Takeuchi was the first company to introduce the compact excavator to North America, setting the stage for one of the highest growth product segments ever introduced in the compact equipment market. The compact excavator has become a main line product for both rental and construction/utility companies. Takeuchi continued to lead the compact construction industry with the introduction of the first compact track loader to North America.

Source: Takeuchi-US

**AMERICAN TIRE DISTRIBUTORS, INC. EXPANDS ITS PRESENCE INTO CANADA**

American Tire Distributors, Inc. (ATD) announced recently that it has acquired the assets of TriCan Tire Distributors based in Edmonton, Alberta. This marks a significant step for ATD as it expands the distribution services of the company beyond the borders of the U.S. for the first time.

TriCan is the leading national tire distributor in Canada with 15 distribution centers stretching across the country. Similar to ATD, TriCan focuses on delivering outstanding customer service and this approach has led to TriCan's significant growth since its founding in 1978.

American Tire Distributors will operate TriCan as a stand-alone business unit. TriCan will retain its company name and its management team, led by Chris Fletcher who has been president of TriCan since October 2006.

ATD plans to begin expanding TriCan's existing distribution centers in 2013 to support a broader product screen offering to customers. ATD also plans to add several new distribution centers across Canada by opening Greenfield locations and potentially acquiring other Canadian distributors.

Source: American Tire Distributors

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## ELLISDON AWARDED ITS FIRST MANAGED SERVICES CONTRACT

EllisDon recently announced the award of its first Managed Services contract. The work is being done at PwC Tower, a 650,000 square foot office tower that is owned by the British Columbia Investment Management Corporation (bcIMC). Located in Toronto's Southcore Financial District, the project was built by EllisDon and was completed in August 2011.

The PwC Tower is considered one of Canada's most advanced IP networked commercial buildings, as it is one of the first commercial towers in North America to feature a unified base building network. This means that all base building systems, including security, power metering and lighting, are using the unified IP Network.

EllisDon's Managed Services group was engaged to provide comprehensive maintenance and monitoring of this network, in order to ensure the seamless operation of the building. The group will provide 24/7 monitoring and support of the network, that includes a single point of accountability for customer requests and incident management.

The Managed Services group was created in January of 2012 as a complement to the company's Information & Communication Technology and Facilities Management groups. Through their engagement, the Managed Services team provides ongoing system and technology support to property managers and building owners with the objective of leveraging the advanced technological solutions that are being deployed within the building.

Robert Barnes, EllisDon's director of Managed Services, talks about the importance of this win for the company: "This is a huge win for EllisDon and the Managed Services team," says Mr. Barnes. "We are not just handing the keys over and walking away once core construction is complete, but rather, we are systematically implementing a strategy from the start of occupancy to ensure seamless operation of a building throughout its lifecycle."

Source: EllisDon Corporation

## ARUP'S TORONTO OFFICE EXPANDS SENIOR LEADERSHIP TEAM

By bolstering its team with senior leaders who have successfully delivered complex projects throughout Canada and globally, Arup's Toronto office is investing

in its ability to provide the highest-quality service to clients in multiple market sectors.

With the founding of a multidisciplinary building engineering practice in October 2011 and the continued development of its existing infrastructure, aviation and transport practices, the Toronto office has grown 25% over the past 12 months. Due in part to recent project wins such as the 2015 Pan Am Games stadia and velodrome

and the Champlain Bridge (Montreal) business case, further expansion is expected in 2013.

Richard Terry, the new leader of the office's building engineering practice, joins from the London office (taking over the role from John Bachelor, who has transferred to Copenhagen). An Arup principal and structural engineer with over three decades of international experience, he has successfully led the engineering

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## Vermeer S450TX Mini Skid Steer Now Available with Gas-Powered Engine

Vermeer completes its family of mini skid steers with the addition of the S450TX. The newest member of the Vermeer® mini skid steer family is well suited for rental customers, as well as landscapers and general contractors who need a compact machine that can perform various tasks. With its ability to accommodate a wide range of attachments, the S450TX is one of the most versatile machines a contractor can have.

A 226.8 kg SAE-rated operating capacity with a 648.6 kg tipping capacity gives the S450TX a lot of muscle for its size. Vermeer has incorporated a four-pump hydraulic system, which provides performance and efficiency when powering attachments. A single pilot-operated joystick is now integrated into the S450TX platform, which makes the machine easy to maneuver and operate in comparison to manual control systems. The operator can also experience a smooth range of operation without having to balance the engagement of two separate controls.

The S450TX offers the customer the ability to customize the machine with the choice of engine and track options. The Kubota 24.8-hp diesel engine and Kohler EFI 27-hp gas engine both provide excellent torque performance and are designed for those who use attachments requiring greater engine torque.

The electronically-controlled fuel injected gas engine has a number of benefits – as compared to conventional carbureted engines – such as lower fuel consumption, easier maintenance, improved starting due to the elimination of the choke and cleaner emissions. A narrow 17.8 cm track provides a smaller machine footprint for tight work areas, such as landscaping applications and residential construction. The standard 22.9 cm-wide track offers reduced ground pressure for increased flotation and stability.

The S450TX is designed with a spring-cushioned platform that keeps operators out of the mud and debris. The platform features cushioning on the front and side for additional support when working in rough terrain. An operator presence system suspends ground drive and attachment motion if the operator steps off the machine. LED lighting for warning lights offers excellent visibility and longevity. With a rear panel and side shields for greater service access, S450TX operators are offered quicker maintenance.

Source: Vermeer Corporation



design of prominent large-scale projects including the refurbishment of London's Embankment Place and the redevelopment of Zurich's airport. He formerly served as a director of the London office and was a member of the board for the firm's UK region (which also encompasses the Middle East and Africa).

Darryl Doucet has also joined the Toronto team as business leader for the building engineering practice. A mechanical engineer with over two decades of technical and managerial experience in the Canadian market, his role is to focus on client service and engagement, as well as broaden awareness of Arup's integrated multidisciplinary services.

Arup has also brought Catherine Belanger to the office as an associate principal. She is a mechanical engineer with a background in project management and mechanical building services design, including specialized experience in healthcare design. In her current role she manages the delivery of large and complex projects, beginning with the Pan Am 2015 stadia and velodrome venues.

In addition, Toronto structural engineer Hassan Ally has been promoted to associate principal. The leader of the office's structural group, he has been heavily

involved in the design and management of ambitious projects around the world. He is heading the design team for the 2015 Pan Am Games venues, and is lead structural engineer for design of the York University and Vaughan Metropolitan Centre Subway stations on Toronto's Yonge-Spadina Line extension.

Source: Arup

### JOST ACQUIRES EDBRO

With effect from November 20, 2012, JOST has acquired the British company Edbro plc from Caravelle. With the acquisition, the JOST group expands its extensive product portfolio for commercial vehicles to incorporate hydraulic cylinders and systems.

Since its foundation in 1916, Edbro has been engaged in the development of hydraulic lifting equipment and is the market leader in hydraulic systems for commercial vehicles today. This product leadership will be further strengthened by the integration into JOST.

Edbro is the leading company in the field of vehicle-mounted hydraulic systems. The product portfolio includes front-end, underbody, tipping and trailer-thrust cylinders, as well as customized hydraulic kit solutions.

Edbro's R&D, production and headquarters are located in Bolton, UK. There are about 200 employees working for the company across Europe. Edbro sells its products worldwide to the leading manufacturers of the truck and trailer industry.

Source: JOST-Werke GmbH

### JOB OPPORTUNITIES GROW FOR ENGINEERING TECHNOLOGY PROFESSIONALS

A college education in engineering and applied science technology is opening plenty of doors, even as the general Canadian economy struggles with slow growth.

When the new 2012 OACETT Salary Survey asked employers if they planned to increase the number of engineering technicians or technologists in their organizations within the next 12 months, 47% said Yes, up from 41% in OACETT's previous survey in 2010. Organization size was not a factor in the decision - small firms were just as likely as larger ones to plan on adding engineering technology staff over the next year.

Yet acquiring the right talent remains a challenge. Compared to 2010, when 54% of employers said they were finding it difficult to attract qualified candidates, this year 65% said they were having the same trouble. That level almost matches the 68% figure of the pre-recession economy of 2007.

The survey also canvassed employers for their views on professional development (PD). Almost a third (31%) encourages their employees who are members of professional associations to volunteer their time as part of their PD commitment, up substantially from 20% in 2010. Of the types of PD coursework pursued by engineering technology professionals, industry-related activities were cited most frequently (78%), followed by discipline-related (66%). However, a growing number of employers (41%, up from 36% in the previous survey) encourage non-technical PD activities such as effective communication, negotiation skills and sales training. This

## Atlas Copco Marketplace Web Page Now Smartphone-Friendly

After a complete redesign of its Marketplace web page in April 2012, Atlas Copco has now made the site smartphone-friendly. The mobile website makes accessing used Atlas Copco equipment even easier.

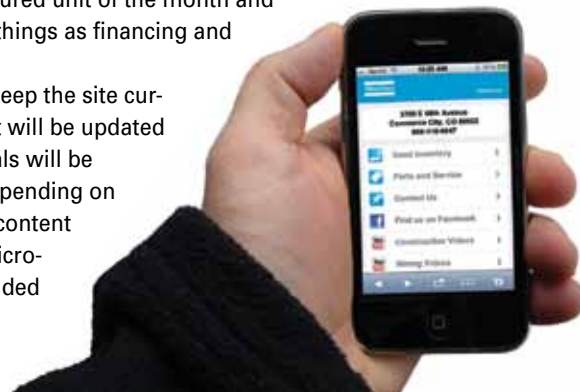
Accessible via [www.atlascopcomarketplace.com](http://www.atlascopcomarketplace.com), the mobile website is one of several improvements since the site's 2008 debut that make the online service even more useful to customers. For instance, it is now possible for visitors to see images and read equipment listings in detail without having to log on to the site first. A "print a brochure" function allows users to create PDFs to email or print out as hard copy.

The home page includes a featured unit of the month and links to pages dedicated to such things as financing and global equipment availability.

Atlas Copco also promises to keep the site current. Finance rates for equipment will be updated monthly. Parts and service specials will be updated monthly or quarterly, depending on the program. Links to additional content and various other Atlas Copco microsites and web pages will be provided as they are available or change.

Source: Atlas Copco

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important finding offers fresh evidence that communication skills are vital to successful performance in engineering technology.

In a companion survey with the Association's individual members, as another reflection of the changing nature of the engineering technology workforce, more than half of respondents said flextime was available at their place of employment, and more than a third are allowed to work from home, at least part of the time. Female technology professionals were the most likely to value, and take advantage, of this new flexible working environment in the technology sector.

OACETT is a non-profit, self-governing, professional association of more than 24,000 members and a 55-year history of certification in Ontario. OACETT promotes the interests of engineering and applied science technicians and technologists in industry, educational institutions, the public and government.

Source: Ontario Association of Certified Engineering Technicians & Technologists

#### **RITCHIE BROS. ANNOUNCES PLANS TO HOLD ITS FIRST CHINA AUCTION IN 2013**

Ritchie Bros. Auctioneers announced

during a press conference at bauma China 2012 that it will be holding its first unreserved public auction in China during Spring 2013. Although relatively new to the Chinese heavy equipment market, unreserved industrial auctions have been a quick and easy method for equipment buyers and sellers to conduct business on a global scale. And for more than 50 years now, the company has been helping the world's builders to easily and confidently exchange equipment at its auction sites all over the world. Ritchie Bros. will soon bring the certainty of unreserved auctions to Chinese equipment buyers and sellers now that the company's Wholly Owned Foreign Enterprise application has been approved by the Chinese government - making it the first foreign auction company to receive this approval.

Ritchie Bros. has formally leased land in the Tianzhu Free Trade Zone (Shunyi, Beijing) in preparation for this first unreserved public auction in China. Strategically located within minutes of Beijing Capital International Airport, the Tianzhu Free Trade Zone is connected to one of China's largest roll-on, roll-off ports in Tianjin.

Source: Ritchie Bros. Auctioneers

#### **XYLEM WINS CONTRACT FOR ADVANCED OXIDATION PROCESS TECHNOLOGY TO TREAT DRINKING WATER IN SOUTH KOREA**

Xylem Inc. recently announced that it has won a significant contract to treat municipal drinking water for a new high-tech industrial zone in South Korea. The contract will involve using ultraviolet advanced oxidation process (UV AOP) technology for the first time in a municipal drinking water system in the country.

The water treatment facility will process about 100 million l/d, and will be the first step in the development of the new \$3 billion Sihwa Multi-Tech Valley project, a government-backed regional industrial development initiative being implemented by the K-Water municipality. The new hub for the enterprise is due to be completed by 2016, and aims to attract high-tech industries across the IT, chemicals and R&D sectors.

Xylem's WEDECO® UV K-reactors and WEDECO Advanced Oxidation Process technology will be used in the existing plant, Siheung wastewater treatment plant, which will become the first UV AOP application for a municipal drinking water system in South Korea. Xylem's solution incorporates oxidation and UV disinfection to remove micro-pollutants, resulting in high-quality drinking water.

Source: Xylem Inc.

## **Firestone Industrial Offers Xtra and Xtreme Remote Air Command Products**

Firestone Industrial Products Company, LLC offers two new Air-Rite™ air accessory systems designed to provide an instant air source to Firestone's complete line of air helper springs.

The new Xtra Duty Remote Air Command™ and Xtreme Duty Remote Air Command Systems each feature a wireless controller for easier installation. They also allow users to remotely adjust their vehicles for varying load conditions and inflate items such as motorcycle, truck and RV tires.

Firestone's Xtra Duty Remote Air Command system features the wireless controller, Heavy Duty compressor and a 1.9 l air tank. The Xtreme Duty Air Command system includes the wireless controller, an Xtreme compressor and a 7.5 l tank. The Xtreme Compressor has a 100% duty cycle at 6.9 bar (100 psi).

Designed to keep vehicles level and handling correctly, the air accessory systems provide convenient, instant adjustability of the air helper springs and continuous monitoring of the suspension.

Source: Firestone Industrial Products Company, LLC



#### **ELECTRANET CHOOSES BENTLEY SUBSTATION**

Bentley Systems, Incorporated recently announced that ElectraNet Pty Limited, the principal electricity transmission network service provider in South Australia, has chosen Bentley Substation to reduce high-voltage electric substation design costs and enable existing design resources to meet an ever-increasing volume of capital projects. Bentley Substation, the only integrated software product for intelligent electrical and physical substation design, empowers project teams to design substations 30% faster, increasing productivity, while also reducing errors and minimizing rework. In addition, it enables organizations such as ElectraNet to automate reporting processes and enforce their design standards, further increasing the accuracy of their design work.

With its more than 5,600 circuit km of transmission line and 87 substations and switchyards, ElectraNet's transmission



network delivers efficient and reliable high-voltage electricity from power generators to South Australia's electricity distributor and large industrial users. Switching from manual CAD design to intelligent substation design enables ElectraNet to significantly reduce detailed design time and create more accurate project estimates from precise bills of material.

Hamish McCarter, ElectraNet's senior manager Engineering Services, said, "With Bentley Substation our current design resources, both internal and external, will be better able to accommodate a growing workload. In addition, the added structure and reporting will ensure our design partners are better equipped to adhere to our standards, which will provide long-term benefits in the form of reduced maintenance challenges."

Source: Bentley Systems, Incorporated

#### THE TORO COMPANY AWARDED CONTRACT FROM CITY OF TUCSON

The Toro Company has been selected as the single awardee for sports field, parks and golf course ground maintenance equipment for the City of Tucson, Arizona. The new 5-year agreement extends the relationship Toro has had as the supplier of equipment and service for the City's more than 110 public parks and five public golf courses for the previous five years.

The City of Tucson conducted a thorough solicitation process in the nationwide search for a supplier. This agreement is available to public agencies and non-profit entities nationwide via the National Intergovernmental Purchasing Alliance (National IPA) cooperative purchasing program.

National IPA is a cooperative purchasing organization established through a collaborative effort of public agencies across the United States with the specific purpose of reducing procurement costs by leveraging group volume.

All master agreements offered through National IPA are publicly solicited, awarded through a Request for Proposal (RFP) process, and held by a public agency. National IPA serves as the nationwide channel to offer the awarded agreements to public and non-profit agencies. This cooperative purchasing strategy offers lower costs, plus time and resource savings, to participating agencies.

Source: The Toro Company

## RadarEye Combines Sight and Detection

Sight and active signaling come together with RadarEye. Orlaco has developed this radar unit to be used in addition to the camera-monitor systems. By combining this sight solution with an active signaling system, RadarEye offers additional safety and efficiency.

RadarEye compliments the camera-monitor system by emitting audible tones should someone or something appear in close proximity to the vehicle.

When an object or person enters the danger zone, the RadarEye sounds an audible alarm, then selects and activates the required camera. This is presented on the monitor by showing an overlay of a green, yellow and red signal zones. The audible urgency increases as the person or object moves through to the red zone. Everything that appears within this zone is brought into sight to prevent personal injury and or material damage.

The radar unit is not influenced by the environment, such as snow, rain, mud or temperature changes. Also it is water, shock, and vibration resistant. Since every application is unique, the operator can program the sensitivity in the monitor.

Source: Orlaco Products BV



bauma C4.123 

## GPS Tracking Without Recurring Charges

MINDS Inc. is pleased to officially announce the release of the PaveTag GPS/WiFi solution as an answer to providing cost effective fleet tracking and paver monitoring without recurring airtime costs. The near real-time solution provides important historical movement of fleets and utilizes WiFi infrastructure to upload GPS data, thus avoiding expensive cellular airtime costs. A one-time only charge for the tracking device allows you to have unlimited use of the system and access to the eRoutes™ web interface which provides mapping, graphical charts, reports and customizable mobile alerts of your fleet and paver/milling machine activity.

The system dynamically merges information like paver location, truck location and plant load-out data (tickets) to provide immediate and practical contextual information:

- Truck ETA at job and plant, cycle time, transport time, waiting time per job and/or truck.
- Tons made, tons loaded, tons in-transit and tons laid down.
- Hauler, truck, driver performance comparison.
- Paver performance report with a timeline of speed, start-stops, number of trucks available at jobsite.
- Alerts and reports on mobile phones and smart phones.
- Access to historical data.

The tracking device can be easily installed in the cabin of any vehicle and uses a store-and-forward logger for the geositional information. Data is automatically uploaded when it connects to a known WiFi access point at the plant or paver/milling machine Internet hotspot.

A fixed geofence area is created for locations where you want to track the arrival and departure times of trucks and a mobile geofence is automatically created for pavers, MTV/ Shuttle Buggies and milling machines.

With the adoption of PaveTag GPS, transportation managers can monitor the behavior of their assets in the field and view logistical information anywhere on a web browser and smartphone 24/7. The access to on-demand information is critical to making operational decisions.

Source: MINDS Inc.

 3247

# Custom Stone Slinger Completes the Avertex Solution for Wind Farm Project

In Jack Kottelenberg's mind, the last hurdle would be to deliver more sand into the cut quickly, without wasting material.

With that piece in place, Mr. Kottelenberg would have what he was looking for: a faster, more cost-effective solution for laying down power and ground cables on his customers' wind farms.

His family-run firm, AVERTEX Utility Solutions Inc., was already established as one of Canada's top specialists in underground cable contracting for electrical and communications utilities. AVERTEX is known as an innovator in horizontal drilling technology, and its team has a knack for making new ideas

work. Conventional wisdom said they should use open trench methods for laying distribution lines into these wind farm grids, but Mr. Kottelenberg was convinced that significant cost savings were achievable with the right plow and back up equipment in place.

The plow system he devised was doing the job, but he still needed a way to deliver a bed of sand in tandem with the plow so he could cushion the cable against any possible backfill damage. For AVERTEX customers, any compromise on the integrity of the installed cable was a deal breaker.

By the time he contacted W.K. Dahms Mfg., makers of the Stone Slinger™ truck conveyor system, time was becoming critical. He reached Scott Nelson, the manager of W.K. Dahms. "We had purchased our equipment on spec for an upcoming project," Jack Kottelenberg explains. "I took the idea to Scott and he looked at me a little crooked – then he said, 'Yeah, I think we can do this.' And we just started to draft something up."

The first AVERTEX plan for the plow system relied on a bucket line of backhoes to move sand to the trench. However, they



were unable to keep up with the rapid pace set by the plow. Even in open trench applications, they poured out too much material.

The original Stone Slinger system places various types of aggregates with a high speed conveyor that can project stone accurately into foundations and trenches at distances up to 30 m away. For the AVERTEX application, Scott Nelson and his team needed a new version that could

sure on the Morooka carrier are minimal, even when it's fully loaded, and the rubber tracks will go wherever we need it," says Mr. Kottelenberg.

To fit the Morooka platform, W.K. Dahms had to completely reconfigure his standard Stone Slinger assembly. The result is very satisfying.

"I can't say enough about this organization and its adaptability," says Jack Kottelenberg. "The project proved to be very successful for us." Since the prototype unit first rolled out, AVERTEX has completed several wind farm projects. Mr. Kottelenberg estimates he has put a total of 1.5 million meters of cable in the ground. The company has deployed the Morooka Stone Slinger to other projects as well, including gas lines for a landfill site and placing granular into trenches along railroad beds.

Source: W.K. Dahms Mfg. Ltd



From l. to r.: Scott Nelson of W.K. Dahms and Jack Kottelenberg of AVERTEX collaborated closely to customize the Stone Slinger conveyor into a key component of a Kottelenberg's unique cable laying system.

move higher volumes of material, but with equal precision.

It would also need the right power unit to carry the conveyor system. Scott Nelson and Jack Kottelenberg undertook a search together, leading them to the Morooka 3300 carrier, a 19 t tracked hauler with a standard dump capacity of up to 5,6 m<sup>3</sup>. "For the wind farm projects, we need something that will float anywhere, on mud and swamps, and that can run on roads as well. The ground pres-

## AVERTEX UTILITY SOLUTIONS INC.

Building on more than 25 years construction experience, AVERTEX Utility Solutions Inc. specializes in utility and network installation services. A recognized leader in horizontal directional drilling technology, AVERTEX has served the nation's top broadband communications providers, electrical utility companies, government agencies and municipalities as well as railway companies, environmental services, developers, and general contractors. Since 2007, AVERTEX has been developing new cable-laying systems utilizing rubber-tracked haulers with high-speed conveyors to greatly increase productivity and reliability in the installation of new underground power lines. AVERTEX deploys its cable-laying system and crews throughout Canada, and also offers its equipment and training to other contractors for lease or rent. With offices in Grimsby and Orangeville, Ontario, AVERTEX employs a work force of over 125 full-time staff supported by a wide network of suppliers and subcontractors.

## Putzmeister Buys Concrete Mixer Manufacturer Intermix

Putzmeister Holding GmbH has completed the acquisition of Intermix GmbH. This transaction strengthens Putzmeister, a leading manufacturer of concrete pumps, in its market position and expands its product line to include additional construction machinery. "This acquisition rounds out our portfolio perfectly," said Norbert Scheuch, CEO of Putzmeister Holding.

The company, Intermix, was founded in 1984 by Hans-Georg Stetter, son of truck mixer pioneer Georg Stetter. His company, Intermix has developed rapidly into one of Europe's leading manufacturers of truck mixers and special mixers. The company's customer service and logistics center


for the delivery of the machines are located at its headquarters in Heimertingen near Memmingen in southern Germany. These days, truck mixers from Intermix are in worldwide use.


Intermix produces and supplies up to 800 machines to end users and distributors each year. The firm's technology, service and strategy are consistently geared towards the needs of its international customers.

For Putzmeister the acquisition of



Intermix means an ideal complement to its own product portfolio. Putzmeister develops, manufactures and sells equipment worldwide, in particular concrete pumps for construction, tunnel construction and large scale industrial projects. Starting immediately, Putzmeister will also be distributing truck mixers through its global sales network. These transport the fresh concrete to the building site while maintaining its homogeneity. The concrete's ingredients are mixed together during the journey. Truck mixers are used at the building site together with truck-mounted concrete pumps and stationary concrete pumps. Following the purchase of Intermix, Putzmeister has significantly expanded its portfolio in the concrete supply chain.

Source: Putzmeister Holding GmbH  
 B6.100/400 F6.612/1  
Putzmeister America, Inc.

 C5727 / N163

## Liebherr Acquires Concrete Pump Manufacturer Waitzinger

The Liebherr Group has acquired concrete pump manufacturer Waitzinger, based in Neu-Ulm, Germany. The relevant contracts were signed October 19, 2012 by the managing directors of Liebherr-Mischtechnik GmbH, Bad Schussenried, Germany, and Waitzinger Baumaschinen GmbH.




The Waitzinger takeover completes Liebherr's product range in the concrete technology sector. Waitzinger Baumaschinen GmbH was founded in 1991, and today employs a staff of nearly 60 in Neu-Ulm. It is a company which specializes in the development and production of truck-mounted concrete pumps, trailer concrete pumps and truck mixer concrete pumps. From today these products will now also be distributed via Liebherr's international sales and service organization.

This is the perfect complement to Liebherr-Mischtechnik GmbH's product range. To date the company based in Bad Schussenried has developed and produced mobile and stationary mixing plants, as well as truck mixers and conveyor belts for truck mixers. The acquisition of Waitzinger has afforded Liebherr-Mischtechnik GmbH the status of full-range supplier in the concrete technology sector. Liebherr's goal is to expand the concrete pump product range and thus further improve its international competitive position in the concrete technology sector. For Waitzinger's Neu-Ulm site and its employees, this offers opportunities for growth and secures prospects for the future.

Liebherr-Mischtechnik GmbH employs a workforce of almost 700 at its Bad Schussenried site. The company's product range includes mobile and stationary mixing plants, truck mixers and conveyor belts for truck mixers, measuring and control technology, and residual concrete recycling systems. The Liebherr Group manufactures products within the mixing technology sector in Germany, Brazil, China, India and Thailand.

Source: Liebherr-Mischtechnik GmbH  
Liebherr Concrete Technology Co.

 F8.803/807

 N137

## Rotobec Tie Bundle Grapple

The Rotobec Tie Bundle Grapple was designed to increase efficiency during the maintenance and building of railroads.



The TBG has continuous 360° rotation. There are 4 models to choose from that range from 5-9 ties wide.

Source: Rotobec  C6812

# Aquajet's Aqua Cutter Strips Decayed Concrete on Haifa Pier

*John Hooper, Joem Promotions,  
on behalf of Aquajet Systems AB.  
Special Collaboration*

Specialist marine contractor Maagan Marine & Diving Works Ltd is using hydrodemolition techniques to remove decayed concrete from the East Pier at the Port of Haifa, Israel, during a 3-year project to rebuild the pier, with a new Aqua Cutter 710V evolution from Sweden's Aquajet Systems AB.

Compared with traditional operation using jackhammers, the Aqua Cutter 710V, is able to replace between four and five hammers during a single shift, and also leaves a cleaner finish on the rebar of the pier; which is being left in situ for the reconstruction.

Maagan Marine's chief executive officer Avi Ben-David says that no jackhammers are being used and that the Aqua Cutter has increased accuracy and productivity while reducing manpower and the risk of

"white finger" from vibration for the operators.

"We consider ourselves an innovative company, and we always seek to find, incorporate, and deploy new technologies which allow us not just to meet our goals, but to exceed them," he says.

"We have found the Aqua Cutter robot a good solution both to the project requirements and to the tight schedule, and it has allowed us to reduce the planned timeframe."

Maagan Marine, which was formed in 1987 and is based in Haifa, employs more than 60 personnel, including engineers, divers, construction workers and heavy equipment operators, and works in the sectors of marine and port construction, diving works and salvage, dredging and excavation, and environmental protection.

The Aqua Cutter 710V is the first



hydrodemolition robot to be used in Israel by Maagan and was delivered during the project organization stage.

The Port of Haifa is the second largest of Israel's three major international seaports, a natural deepwater harbor that operates all year long, serving both passenger and merchant shipping. It is one of the largest

ports in the eastern Mediterranean in terms of freight volume and handles over 20 million t/y of cargo.

The East Pier was originally built in 1979 to a length of 686.5 m. During 1994, due to high levels of corrosion the pier was treated with epoxy paint and was extended taking it to a length of 964 m. With a height of 2.7 m, the approximate working area for Maagan Marine is 2,600 m<sup>2</sup>.

"Due to the age of the pier, and the wear and tear it has undergone, the condition of the concrete was deteriorating to the point that the rebar was showing through in some places," says Mr. Ben-David.

"The Port Authority decided on a renovation of the pier, and we were contracted to remove the old concrete and undertake the renovation. The removal of the old concrete requires some precise removal work, because the rebar itself is still in



good condition and will form the basis of the new construction and concrete work."

The tidal level at the pier is around  $\pm 0.5$  m, but as the pier was initially built at maximum tidal level, there is no underwater work involved.

Avi Ben-David

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says that the hydrodemolition operation takes place for between six and seven hours per day, six days per week, and this will be consistent for the duration of the whole project, which was originally set for a three-year period but will be significantly reduced, thanks to the AquaJet Aqua Cutter.

"A typical shift is about 10 hours, and we are using the robot for two-thirds of this time," he says. "We are handling an area of about 8 m<sup>2</sup> per shift, to a working depth of 17 cm, and had we been using jackhammers we would have needed four or five of them working simultaneously to achieve this kind of progress."

"Our operators are also very happy with the machine, they are very positive indeed with using the robot and they are highly pleased with the quality of the work they are delivering," he adds.

The Aqua Cutter 710V evolution has the flexibility of cutting head to execute all possible operations, the operator with the remote control being able to reach all areas and send the robot into confined areas.

Equipped on this project with a hydraulically-operated extension kit, the machine



does not carry any towers or have any protruding arms.

The concrete being worked on is type B40, with the existing rebar within the pier of type ST-37.



"The existing rebar was found to be in good condition and therefore it will not be replaced," says Avi Ben-David.

The original plan had considered using jackhammers to remove concrete from

local areas, but the Aqua Cutter proved itself adept in both small, tight areas and in the larger areas.

"Using the Aqua Cutter robot has helped us very much both in terms of carrying the project and in furthering our reputation as an innovative company," concludes Avi Ben-David.

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 C6602  
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# AQUAJET SYSTEMS AB

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# Züblin Again Calls In Schwing

Frankfurt, the city with the most high-rise buildings in Germany, will soon be one high-rise richer. By the end of next year the project developers Tishman Speyer and Commerz Real AG intend to erect the new TaunusTurm office tower in the middle of Frankfurt's financial district. The building, designed by the architects Gruber + Kleine-Kranburg, will provide about 60,000 m<sup>2</sup> of office space over 40 storeys and a height of 170 m.

The company Züblin has been contracted for the planning, co-ordination and turnkey completion of the TaunusTurm. The concrete is being delivered by Sehring Beton GmbH & Co. KG, from Frankfurt. The pumping of the concrete is the job of Godel Beton GmbH from Stuttgart. This company has extensive expertise in the field of vertical and long-distance pumping, e.g. from working on construction of the new ECB head office in Frankfurt – where the entire concrete work has also been done with Schwing and Stetter equipment.

In all, 70,000 m<sup>3</sup> of concrete will be placed in the construction of the Taunus-Turm. It is being pumped using a Schwing SP 4800 stationary concrete pump. The pump is available as required with a pump cylinder diameter of 180 or 200 mm. It has a 2 m long-stroke pump kit and thus achieves a max. concrete pressure of approx. 200 bar. The heart of every Schwing concrete pump is the patented Rock Valve. With this concrete valve it is possible to achieve both high concrete pressures and a high output with low wear. Because the Schwing Rock Valve is self-sealing, it is of course also possible to pump water.

This happens on the jobsite during cleaning. With the help of water, the residual concrete in the delivery pipe is pumped almost up to the last liter to the placement location. As compared with cleaning by air this offers two crucial benefits:

1. Thanks to the controllable pressure conditions of water as a medium, the level of safety is substantially higher than with air cleaning.
2. Hardly any residual concrete remains, which means a substantial cost benefit.

A further, decidedly difficult to measure advantage for the operator and for the developer, is the high energy efficiency of the Schwing concrete pumps used. With the open hydraulic oil circuit and the use of hydraulic components developed and manufactured in-house specifically for use in concrete pumps, Schwing pump units are always of the highest efficiency. This of course saves costs and protects the environment.

This fits particularly well with the construction of the TaunusTurm, since this is intended to be the first new Frankfurt high-rise project with platinum certification to the international LEED standard.

The concrete is placed using two Schwing Separate Placing Booms (SPB). In the area of the residential tower a SPB 30 from Schwing with a reach of 30 m was installed. The concrete is placed in the office tower using a SPB 35. This boom type has a horizontal reach of 35 m. Like all Schwing SPBs, they are built with a 4-section Roll&Fold boom. The advantages of the this design are even more evident when in use on the jobsite. For example, the boom is in the concreting position immediately after it has been unfolded, it



offers very simple operation and catches the end hose without vertical stretching when folding. The two boom types differ only in their reach. All mounted parts, such as the column element, base crosses for fixing to the floor, the ceiling frame to fix the boom to the ceilings, self-climbing facility and other mounted parts such as ladders can be interchanged quite simply.

All separate Schwing placing booms with their divisible base boom are also equipped with a 125 mm-diameter delivery pipe. With its SPBs, Schwing relies on




technology proven on truck-mounted concrete pumps. Both boom types offer a great erection height even without counterweight. In this case, and in consultation with Schwing Design Department, the SPB 35 can therefore operate with a maximum erection height of almost 20 m without counterweight. This considerably simplifies the whole working process and it facilitates erection directly next to the building core as it advances during construction.

With continuous development and working closely with its customers, Schwing can adapt its machines to meet special challenges. For instance the two booms on this project were also supplied with concrete shut-off valves. This option requires a specific internal safety concept, but it protects against dangerous “dripping” of the concrete, and especially in building construction where workers are often located below the concreting point. The two booms are controlled, as is usual with truck-mounted concrete pumps, by a fully proportional radio control system.

The whole pipeline, from the stationary concrete pump to the placing booms, has also been supplied by Schwing. The delivery pipes manufactured in-house at Schwing with the pressure stages of 160 and 200 bar were installed in the building in accordance with the pressure arising in the pumps. The pipe holders needed here were adapted by Schwing specifically for the project, which meant that the pipeline could always be laid in an ideal fashion.

Work on the TaunusTurm will continue until the end of 2013.

Source: Schwing GmbH

 F10.1005/1

# PERI Systems Used on the Panama Canal Expansion Project

The expansion of the Panama Canal is currently the scene of the largest building site in the world with the two lock systems being the key elements in the whole project. The two facilities, on the Atlantic and Pacific sides respectively, are each around 1,800 m long and are expected to be completed at the turn of the year 2014/2015.

PERI is supporting the contractors with the planning and delivery of huge quantities of formwork and scaffolding systems. For single-sided applications, the new SCS bracket is being used whereby simple handling and transfer of heavy loads were the main focus during the development of the product by the German company.

In three lock chambers positioned one after the other – each 403 m long and 55 m wide – ships overcome a height difference of approximately 26 m on the Atlantic and Pacific coast. This procedure is controlled by four lock gate installations. Further construction features – each parallel to the locks – are the three huge economizing



Photo: PERI GmbH

basins. These serve the purpose of reusing about 60% of the water required for individual lock operations.

More than 12 months after the start of construction, the extraordinary dimensions and the massive structural elements are clearly visible. In order that the tight schedule can be maintained, over 4,200 site personnel process 6,300 m<sup>3</sup> of concrete on a daily basis in two shifts. Construction site facilities include 70 cranes and 30

concrete pumping stations. Furthermore, an immense need for formwork and scaffolding material along with a comprehensive overall concept is still required. With an international team of engineers from the PERI subsidiaries in Spain, Panama and Italy as well as PERI headquarters in Germany, PERI provides the consortium of building contractors with an ideal combination of formwork know-how together with the efficiency and ability to deliver innova-



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tive system equipment solutions.

The largest single order in the 40-year history of PERI is also a matter of real teamwork: PERI Spain and the PERI subsidiary in Panama are responsible for the formwork planning, logistics and on-site assistance, whilst PERI engineers from

Weissenhorn provide their colleagues with expert support for all tasks. In time for the start of construction work in 2011, the required system equipment was produced and shipped to Central America in



PERI is supporting the "construction project of the century" with the planning and delivery of huge quantities of formwork and scaffolding systems.  
Photo: PERI GmbH



The Miraflores lock system on the Pacific coast is around 1.8 km long and lifts the vessels using three chambers to a height of 26 m above sea level.  
Photo: ACP



The Gatun lock facility on the Atlantic coast has three chambers positioned one after the other - each of them is 403 m long and 55 m wide.  
Photo: ACP

more than 300 40' containers.

An essential element of the PERI solution is the new SCS Climbing System (SCS = Single-sided Climbing System) which can be used for single-sided applications for the construction of dams, sluices, cooling towers, pier heads, tunnels and bank vault facilities.

The SCS climbing units are optimized for the respective requirements; this provides reduction of anchors and thus high system efficiency.

The modular system with multi-part brackets is flexibly adapted to suit the geometry of the structure; in addition, the same formwork can be used for the first concreting section as well as for the standard cycles. On slanted structural levels, the working platforms can be inclined by 15° and 30° thus allowing the platforms to be horizontally positioned which means site personnel can always work safely. For the extension of the Panama Canal, the SCS 250 with its 2.50 m wide platform is being used; with the formwork carriage and a retraction distance of 60 cm, sufficient working space is provided.

In accordance with the project requirements, the brackets are combined in different areas with either the flexible VARIO girder wall formwork or the proven TRIO panel formwork. Different shoring systems taken from the PERI product portfolio support the slab formwork and tables being used whilst the PERI UP modular scaffolding is extremely versatile in its application as load-bearing scaffold and for the erection of safe access points.

Source: PERI GmbH

#### PROJECT DATA FOR THE CONSTRUCTION PROJECT OF THE CENTURY

The goal of the gigantic construction measures is to double the capacity of the world's most important waterway. Around 14,000 ships sail through the Panama Canal each year. After completion of the new lock installations – Gatun on the Atlantic in the north and Miraflores on the Pacific in the south – it will handle twice as many ships resulting in an increase in capacity from 165 to 300 million tonnes. In addition so-called Post Panamax container ships will then also be able to use the 80 km-long channel – these vessels are up to 366 m long and 49 m wide and can transport up to 14,000 containers per ship. Over the three-year construction period, approximately 6.6 million m<sup>3</sup> of concrete and 337,500 t of steel will have been required; the total area to be formed is more than 2.2 million m<sup>2</sup>.

Client: Autoridad del Canal de Panama (ACP)

Contractors: Grupo Unidos Por el Canal, SA (GUPEC)

Joint Venture: Sacyr Vallehermoso, Spain; Impregilo, Italy; Jan De Nul, Belgium and Cusa, Panama

Field Service: PERI Panama, PERI Spain and PERI Weissenhorn/Germany



# Potain and Grove Cranes Work at the Panama Canal

Latin America's largest civil works project is the \$5 billion expansion of the Panama Canal. Considered a "World Wonder," the canal's original construction was an epic undertaking – and the expansion to double its size is an international effort. At the center of the action are 14 Potain tower cranes and 4 Grove cranes.

Hired by the government of Panama to construct the canal, the multinational consortium of contractors GUPC (Grupo Unido Por el Canal) is in charge of the project to expand the century-old canal. The group chose Panama City-based distributor CORPINSA to handle the lifting work with the Potain MC 205 B tower crane and several models from the Grove mobile crane line to get the job done.

"We recommended Potain tower cranes to GUPC and CORPINSA because of their heavy-lifting capacity and their ability to move laterally on jobsite railways," said Alvaro Alanis, tower crane regional sales manager for Manitowoc in Latin America.



"This saves the workers from having to constantly assemble and disassemble the cranes as they move up and down the canal."

At the jobsite, the 10 t capacity MC 205 B cranes are positioned on both the Atlantic and Pacific sides of the canal, helping to construct a third set of locks. With 50 m of height under hook and 50 m of jib, they are working 24/7, installing rebar, formwork and machinery to assist in concrete pour-

ing. Some are moving across the project on jobsite railways, while others are mounted on fixed bases.

"It took us several months and multiple visits with CORPINSA and GUPC to form this partnership," Mr. Alanis said. "In the end, the GUPC was convinced that Potain was their best solution."

GUPC purchased all 14 Potain tower cranes directly from Manitowoc. CORPINSA provided the 4 Grove cranes on a

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rental contract, helped install the Potain cranes, established their proper configurations during the planning stage and set the foundations for the fixed base units. In addition, it trained workers at the project in the maintenance and operation of the cranes. All of this work was handled in its role as a Manitowoc Crane Care dealer.

The MC 205 B cranes were manufactured at Manitowoc's Zhangjiagang, China, factory and their cabs are especially comfortable for operators working at the canal. The average temperature on the jobsite hovers around 35°C, so GUPC purchased cabs equipped with air conditioning. The Potain cranes also feature LVF Optima hoist technology, which allows the hoist to adapt its speed to the weight of the load on the hook, improving efficiency.

Complementing the Potain tower cranes, GUPC also rented 2 Grove all-terrain cranes, a Grove GMK5220, and a GMK5130-2, plus a TMS9000E truck-mounted crane and a RT890E rough-terrain crane from CORPINSА. The Grove cranes helped assemble the tower cranes, and are now handling formwork and performing other lifting requirements.

"Our work with GUPC is ongoing for the duration of the canal's expansion, which is scheduled for completion in 2014," said Raymond Mizrachi, general manager of CORPINSА. "Along with support from Manitowoc Crane Care, we are providing crane maintenance and technical support, and we have set up a spare parts yard on the jobsite to ensure the cranes can continue to work 24/7."

More than 150 million m<sup>3</sup> of soil and rock will be excavated from the site and 5 million m<sup>3</sup> of concrete will be poured for the new locks. When finished, the canal will have the capacity to accommodate larger ships, including supertankers and the largest modern container ships.

"The biggest challenge of this project is the limited time frame – everything has to be done quickly," Mr. Mizrachi said. "The cranes can never stop working, so a responsive and effective support system must be in place. We have been successful in all phases of our involvement and GUPC reports that it is very pleased with the Potain and Grove cranes."

Source: The Manitowoc Company, Inc.

 Guma FGN.N1018/5

## Tremco Introduces AlphaGuard Fluid Applied Roofing Systems

In its efforts to provide building owners and facility managers with sustainable, durable roofing solutions, Tremco Roofing and Building Maintenance is proud to announce its new AlphaGuard™ series of fluid applied roofing systems. The first, AlphaGuard MT, is a unique roofing and waterproofing system for use on almost any kind of roof needing restoration, for roof replacement, and for new construction.

"AlphaGuard MT is both very versatile and technologically advanced," said Ed Buczek, the company's AlphaGuard product manager. "The MT refers to its 'moisture-triggered' curing mechanism, which is far more dependable than the 'moisture-cured' mechanism of commodity coating systems. This benefits building owners, facility managers and occupants because it allows the roof to be installed and operational much more quickly, saving them time on the project as well as money. AlphaGuard MT is also very low odor, a bonus for those occupying the building while the roof is being installed. The system is easy to maintain and if the need arises is also easy to repair. Full warranties will help keep the AlphaGuard MT system sustainable for the long haul."

"The AlphaGuard MT system is an excellent choice for restoring almost any kind of aging but still functional roof. This includes modified bitumen, built-up and single ply, as well as roofs with exposed or buried roof membranes that were applied to concrete," he continued. "For use over metal, gypsum, cementitious wood fiber and concrete decking which requires standard insulation board, the AlphaGuard MT Plus system is available. This solution incorporates a tough, completely waterproof polyester base sheet set in odorless polyurethane adhesive beneath a full AlphaGuard MT system. This 'belt and suspenders' approach combines proven



solid, redundant design with state-of-the-art moisture-triggered polyurethane technology."

The AlphaGuard MT system is a single component, fully reinforced, aliphatic polyurethane, moisture-triggered roofing system composed of a base coat reinforced with a glass mat for durability and a top coat; both coats are applied with rollers, minimizing the amount of equipment that



will be on a building's roof. The white, highly reflective top coat can help lower a building's energy usage and can be tinted to aesthetically match the building's other roof levels. The system carries FM Approvals RoofNav ratings, is UL fire-rated, complies with the Florida Building Code and meets ASTM 7311. Additional benefits of the AlphaGuard MT system include excellent resistance to chemicals, traffic, hail and mold/mildew/fungus as well as superior cold weather flexibility, tensile strength and elongation properties that help make it extremely tough.

Source: Tremco Roofing and Building Maintenance



# Rotobec Truck-Mount Loaders Are Ideal for Storm Clean-Up

Rotobec manufactures a versatile line of high-quality, truck-mount and stationary mount loaders. All loaders have rotations with continuous rotation or limited rotation as required by the application and are fully customizable with options such as cabs, heaters and AC and telescopic booms. Rotobec loaders are tough, without unnecessary weight.



The versatile Truck-mount loader line includes the Rotobec 60 Loader, Elite and Horizon. The 60 Loader is commonly used for municipal waste collection, clean-up after storms and natural disasters, and the handling of recycling materials. The Elite loader combines smoothness and precision with high lift capacity. It weighs almost 20% less than its competitors, mounts easily to trucks or railroad flatbeds for easy transportation, and has a continuous rotation along with other options. The Rotobec Horizon loader has a larger lift capacity. It is used in forestry, rail, scrap, aggregate handling, for loading and unloading loose ties and rail segments.

Select loaders are available with a grapple saw to assist in storm clean-up duties where blowdown is an issue. Rotobec loaders are available with various Rotobec grapples, each suited to fit your application.

Source: Rotobec

 C6812

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# Construction Site Safety – The Building Blocks for Project Success

Rob Cruickshank, RSA Canada,  
Special Collaboration



Accidents on construction sites continue to affect the success of major construction projects across Canada. Not very long ago, we were shocked by a fatal accident at a Toronto construction site; and who can forget recent incidences in Calgary and Toronto, where scaffolding fell to sidewalks below, risking the safety of unsuspecting pedestrians? Incidences like these can be both traumatic and costly for everyone involved. As such, project owners and managers share a responsibility to champion site safety. Whether working at heights or with heavy equipment, having proper protocols and procedures in place will ensure the safety of the team, the public and the site itself – not to mention profitability.

It can be extremely difficult to ensure site safety when working with heavy equipment, at dangerous heights, and maneuvering machines through complex spaces. Large scale projects involve large scale risks, which call for meticulous planning. If you are unsure where to start, contact someone who specializes in risk: an insurance broker can help you identify loss control techniques that minimize risks to members of the public, construction site workers and your valuable equipment.

The following outlines 6 key risk factors and the important steps you can take to mitigate potential losses and increase your chances for project success.

**Fire** – A key culprit of accidents on construction sites is fire. Permits for hot work clearly outline safety procedures, but it is easy to take fire safety for granted when you work with it every day. Poor adherence to safety policies can have disastrous effects and is a common cause of onsite injuries. When working on a heat applied rooftop, for example, you must have fire extinguishers within easy reach and a team member should be tasked with “fire watch” once work is done for the day. The same applies to welding work or cutting operations. Temporary heating appliances with an exposed flame are another cause of fire damage. Improper ventilation can not only cause carbon monoxide poisoning but

also start a fire if used incorrectly. A little diligence can go a long way to prevent such serious fire risks.

**Weather** – We have been experiencing weather turmoil in all parts of Canada – from damage due to storms, snow, and ice build-up. Sites become more vulnerable as severe weather patterns continue to rise across the country. Strong winds and hurricanes can cause steel frame buildings to collapse under extreme wind, putting projects on hold and resulting in major business implications for project owners. Such incidences can be easily prevented by assigning a team member to monitor the weather to ensure the site is properly braced before a storm. This type of assessment should be business as usual for an experienced contractor, but an insurance loss control consultant can offer advice as well.

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**People** – Construction sites and heavy equipment are magnets for adventurous children and curious neighbors. Adequate security, signage and fencing can ensure your site is keeping these members of the public safe in the surrounding areas. It is recommended to fence the entire perimeter of the site and install guardrails around dangerous areas such as excavation holes or open pits to minimize the risk of anyone getting hurt.

To protect your heavy equipment, the construction site, yourself and your team, make sure to post the signs at the entrance that require visitors to wear proper equipment, such as hard hat and safety footwear. This is key to protecting you against liability claims, should an accident occur. Site offices should be instructed to prevent visitors from wandering around, in order to minimize risk on the construction site.

**Housekeeping** – Loss control consultants pay special attention to housekeeping on a construction site. Housekeeping is a very simple thing to control and one of the easiest safety measures to put in place. It is recommended to establish this as a best

practice on site. For instance, clearing out piles of debris can help prevent flammable materials from lying around. Flammable liquids such as gasoline need to be stored safely and securely to prevent accidents.

**Site Safety Management** – One of the key methods of ensuring site safety is to appoint a site safety manager to oversee all protocols and conduct routine inspections, including the proper inspection of machinery and heavy equipment. If the boom of a tower crane were to fall because a support pin came out during high winds, for example, imagine the destruction to the project, let alone the possibility of serious harm to individuals below. Cranes must be inspected and reported on a daily basis – and this is just to supplement the annual inspections of a qualified engineer, not to mention the inspections required after a repair has been done. All of this due diligence should be recorded in a log book for review during any site inspection.

**Planning** – A comprehensive site safety plan should be at the foundation of all construction projects. A good plan will address everything from fire prevention

and weather events to site security and housekeeping, and should outline a schedule for routine inspections. Get to know the guidelines and be a champion for site safety on your worksite. Once you have a quality plan in place, it can easily be updated for other projects and it is a great sign to your insurance company that you are committed to operating a safe site. Improved safety experience typically results in an insurer's stamp of approval – potentially at a better rate.

*Rob Cruickshank is the Underwriting Director for Property, Construction and Engineering Insurance at RSA Canada, a leading home, auto and business Insurer. Mr. Cruickshank has over 25 years of experience in the property and casualty insurance sector and is a member of the Canadian Construction Association (CCA), Canadian Construction Documents Committee (CCDC) and Nuclear Insurance Association of Canada (NIAC). Additional site safety information can be secured from your local chapter of the CCA.*

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# Official Groundbreaking for Queens Quay Revitalization

On November 16, 2012, Waterfront Toronto, together with its government partners, officially broke ground on a major revitalization project that is transforming Toronto's main waterfront street into a world-class boulevard.

Construction along the 1.7 km stretch of Queens Quay from just west of Lower Spadina Avenue to just east of Bay Street is completely rebuilding and revitalizing the area both above and below ground.

When complete in early 2015, Queens Quay will be a waterfront showpiece and a must-see Toronto destination. A generous granite pedestrian promenade and off-street Martin Goodman Trail will create much-needed public space by the lake. A new streetcar corridor and traffic lanes with improved turning lanes and signal timing will keep people moving. New granite sidewalks and landscaping improvements in front of storefronts will stimulate ground floor retail activity and urban vitality.

"This is the grand waterfront boulevard Toronto deserves," said John Campbell, president and CEO of Waterfront Toronto, "today's official construction start brings Queens Quay a huge step closer to becoming one of the most beautiful waterfront streets in the world."

This important revitalization project is about much more than rebuilding the surface of the roadway. Waterfront Toronto is leading a coordinated construction effort that integrates improvements to the public realm with much needed infrastructure and utility upgrades. Coordinating these activities is ensuring that the project is streamlined and cost effective. It also avoids the need for more construction on Queens Quay in the near future.

When complete, Queens Quay will be both a beautiful and

functional waterfront street. This work by West 8 + DTAH, is the product of a 2006 international design competition, extensive public input and a comprehensive environmental assessment.

Construction is unfolding in three stages and is being managed for Waterfront Toronto by Eastern Construction. During stage one, crews are upgrading all major utilities, building new storm and sanitary sewers and demolishing and rebuilding the TTC corridor and tracks. Stage two work, which begins in the summer of 2013, will build the new roadway and granite curbs and sidewalks on the north side including

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## Yanmar America Announces New Vi0 Series Excavator

Yanmar America recently announced a new addition to its Vi0 Series of excavators. Now part of Yanmar's fast-growing line of construction equipment, the true zero tail swing Vi035-6 comes on the heels of Yanmar's rollout of its new line of skid steers and compact tractor loaders.

The new Vi035-6 uses 20% less fuel than previous models yet features the same digging, lifting and do-anything power for which Yanmar is recognized. The electronically-controlled Tier 4 engine of the Vi035-6 combined with an evolved hydraulic system, standard ECO and Auto-Deceleration modes enhance the mighty excavator's overall operational efficiency.

"We have made a commitment to provide our Yanmar dealers with the most advanced excavator products on the market today," said Paul Manger, Equipment Division Sales and marketing manager of Yanmar. "The 24.4 hp Tier 4 diesel engine is very efficient and provides exceptional power. And with Yanmar's innovative design, the Vi035-6 is easy to service by having virtually every major component –

engine, hydraulic system, starter, generator, and battery – right at your fingertips."

Further distinguishing the Vi035-6 is its advanced operation control and hydraulic quick-coupler system which enables operators to release and fit the safety lock pin on the bucket while all the rest is done electronically from inside the cab.

With the new state-of-the-art, digital Smart Assist control system, up to three months of operational and maintenance support information can be monitored in one centralized location.

In 1993, Yanmar launched the world's first Zero Tail Swing excavator. The "Vi0" name means True Zero Tail Swing, and the Vi035-6 marks the company's 6<sup>th</sup> generation model.

Yanmar America Corporation is located in Adairsville, Georgia and is the regional headquarters for North America handling all marketing, sales, service, parts and support functions for its network of authorized dealers. Yanmar's primary focus is on the product and service categories of agri-



culture, construction, power generation, marine and industrial engines. Celebrating its 100<sup>th</sup> anniversary this year, Yanmar continues its legacy of innovation and environmental activism, resulting in products and services of exceptional quality.

Source: Yanmar America

tree planting and finishes. By early 2014, stage three construction will move to the south side where the granite pedestrian promenade and new Martin Goodman Trail will be built.

Major works are expected to be complete in early 2015 with final tree planting on the south side in the spring of 2015.

Every effort has been made to ensure the waterfront remains open and accessible for residents and businesses during construction. Waterfront Toronto has worked closely with area stakeholders including The Waterfront BIA and local residents for almost two years to plan for construction.

During construction, there will be changes in how the street operates but access will be maintained to all businesses and residences at all times. Construction impacts such as noise, temporary one-way traffic alternating between the north and south sides of the street, and bus service while the TTC infrastructure is rebuilt will be communicated widely.

The revitalization of Queens Quay is budgeted at approximately \$110 million.



From l. to r.: Dipika Damerla, MPP Mississauga East-Cooksville, Government of Ontario; Karen Stintz, Toronto City Councillor, Ward 16 (Eglinton-Lawrence) and TTC Chair; Mark Wilson, Chair, Waterfront Toronto; Hon. Lisa Raitt, Minister of Labour, Government of Canada.

The budget includes design, TTC corridor and track rebuild, hydro work, storm and sanitary upgrades, roadway, public realm improvements and other project related costs.

Waterfront Toronto and the City of Toronto initiated the Queens Quay Revitalization Environmental Assessment (EA) in

2007. The EA included public consultation, data collection and the identification and analysis of planning solutions and design concepts. In April 2010, Ontario's Ministry of the Environment concluded the EA process which cleared the way for the project to proceed.

Source: Waterfront Toronto

## 2014 Chevrolet Silverado and GMC Sierra Revealed



On December 13, 2012, Chevrolet and GMC unveiled the all-new Silverado and Sierra 1500 pickups, designed to be the most refined, best engineered full-size pickups in the market. Among the many updates for 2014 are dramatic new designs inside and out for each brand; a trio of powerful, efficient EcoTec3 engines that seamlessly switch to four-cylinder mode to improve efficiency; and quieter, more comfortable, more functional cabs.

"The new Sierra and Silverado are more differentiated than ever in unique features and materials, in their standard content and in their design and details," said Mark Reuss, president, GM North America. "These are two strong and distinct brands – each one appealing to a different kind of customer."

Source: General Motors

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## The Bridge Moves on Continental Tires

Long-term construction projects and resulting traffic delays can cause headaches for commuters, but the Minnesota Department of Transportation (MnDOT) recently found a way to cut a bridge replacement project time in half – with a device that uses Continental industrial tires.

MnDOT closed and dismantled the Maryland Avenue Bridge, spanning I-35E in St. Paul, in July as part of interstate corridor improvements planned for 2012 to 2015. A new bridge deck and superstructure were built during the course of the summer on the west side of the roadway. On August 18, crews used a giant, automated self-propelled modular transporter (SPMT)



to move the finished sections of the bridge across the highway and set them into place. The transporter was operated by global heavy moving and transport expert Mammoet, whose Illinois-based civil



project unit was contracted by MnDOT to oversee the delicate move.

The SPMT, a multi-axle platform machine controlled by computer, moved the bridge sections at a walking pace, rolling them on 352 wheels with special Continental industrial tires based on the IC40 Extra Deep design. Each wheel can be swiveled independently to allow the bridge weight to be distributed evenly, according to Mammoet. The bridge move took place during a single day, with both sections in place by 8:30 p.m., according to MnDOT sources.

U.S. Federal funds dictate the use of accelerated construction technologies, specifically the SPMT, in order to improve work zone safety and reduce traffic disruption.

With traditional construction methods the Maryland Bridge would have been closed for nearly four months. Instead, the closure will be reduced to about 60 days.

The heavy load carrying capacity and durability of the Continental IC40 industrial pneumatic tires has made them the choice of Mammoet Transport for its SPMTs. Mammoet has also used Continental IC40 tires to move a solid stone church in Germany in 2007; the company achieved a record move of a 15,000 t oil separation plant at a Norwegian shipyard in 2010 using 2,160 IC40s over 540 axle line SPMTs.

The Continental tires are specified for Mammoet SPMTs because they can stand up to not only the weight of the materials transported, but also to the immense forces generated when each wheel is individually steered, according to Mammoet.

Source: Continental Industrial Tires

## Historic Continental Dealers Add ContiLifeCycle Retreads

Three commercial locations from the former Tallmadge Tire dealer group in central New York have entered into a partnership and are selling ContiLifeCycle retreads produced by G&G Tire.

Principals at the independently-owned Tallmadge Tire of Binghamton N.Y. Inc., Tallmadge Tire Service of Geneva, N.Y. Inc. and Tallmadge Tire Service of Cortland, N.Y. Inc. said they are distributing ContiTread retreaded truck tires produced at G&G Tire in Plattsburgh, New York, an official licensee of Continental's ContiLifeCycle retreading process, as of summer 2012.

Kevin Bruno, owner of G&G Tire, said his plant converted to the ContiLifeCycle

process in June. G&G now combines their 46 years of experience in retreading with excellent customer service from Continental in order to produce up to 20,000 ContiTreads annually.

Fleets in New York familiar with Continental truck tires are now enjoying the same tread designs and performance through ContiTread retread sales at the three Tallmadge locations in central New York.

The three dealers stated that Continental's ContiLifeCycle products gave them distinct advantages in their market.

As the second oldest General Tire dealer



group in the U.S., formed in 1932, the three independent Tallmadge Tire dealerships have a long history with Continental products and an extensive base of Continental truck tire customers. This made for an easy transition to selling the ContiTreads, he explained.

Source: Continental Tire the Americas, LLC



# Launch of Concrete Show China 2013

UBM in association with the China Chamber of Commerce for Metals, Mineral and Chemicals Importers and Exporters (CCCMC) announce the launch of Concrete Show China which will take place from June 26 - 28, 2013 at Shanghai World Expo Exhibition & Convention Centre.

Concrete Show China will provide the perfect platform to meet and network with industry professionals during three days in a dynamic and focused business environment. The event will bring together buyers and suppliers to experience and interact with a full range of concrete products and services, enhance industry knowledge and engage in ground breaking discussion. Together, these will present a powerful opportunity to build essential business contacts and networks.

"Concrete plays an important role in the Chinese building materials market. By learning from the international concrete industry and by promoting the Chinese bulk cement, precast concrete and mortar

industries we can help build an energy-saving and eco-friendly society. It is the right time for CCCMC and UBM to introduce the world-renowned Concrete Show to China. I wish the show great success," said Yu Yi, vice president, CCCMC.

"We all have seen the advances achieved in the concrete construction industry in China in the last five years. Given the growing demand for more sophisticated and innovative products and technology, there is much anticipation for further advancement in the next decade. In addition to UBM's concrete shows in Brazil, India and Indonesia, we are delighted to partner with CCCMC to launch Concrete Show China and provide a world class platform for industry professionals to learn, inspire and collaborate," added Margaret Connolly, managing director, UBM China (Shanghai).

Concrete Show China will be the latest addition to the global Concrete Show portfolio which includes the highly successful

Concrete Show South America which took place from August 29-31, 2012 in Sao Paulo, Brazil. "We welcomed over 500 exhibitors from 25 countries to the three day event which is the largest event for this sector in Latin America," said Claudia Godoy, managing director, UBM Sienna. Concrete Show South East Asia will take place from October 24 - 26, 2013 in Jakarta, Indonesia, and Concrete Show India will take place from March 13 - 15, 2014 in Mumbai. The shows will feature outdoor machinery displays as well as practical product information in a highly interactive environment.

Source: UBM Shanghai  
China Chamber of Commerce of Metals, Minerals & Chemicals Importers & Exporters (CCCMC)

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## Appointments

**Bristol Compressors International, Inc.** announces changes within its top management team. **Joel Moseley** has been promoted to senior vice president of global sales and marketing, and **Dustin Steward** has been named senior business development manager.



Mr. Moseley will work closely with the CEO in developing and implementing programs to support corporate objectives, as well as directing all sales, marketing and after-marketing activities. He will continue his extensive involvement in all aspects of Bristol Compressors' operations.



Mr. Steward will work with existing original equipment manufacturers and develop new business opportunities across North America.

Source: Bristol Compressors

**Sommers Motor Generator Sales Ltd.** continues to build on its regional service capabilities with two recent appointments to its sales team.



Sommers general manager Chris McGregor has introduced **Pierre Gallant** as Atlantic Region Branch Manager in Dieppe, New Brunswick, and **Fred Lawrence** as Regional Sales Representative for Southwestern Ontario.

Mr. Gallant brings his extensive experience in generator sales and service to Sommers, including hands-on knowledge of the many Lister-Petter products featured in the Sommers line-up.



Mr. Lawrence has seen every side of Sommers through his 30 years as an electrical professional in Southwestern Ontario. As the owner and partner of several electrical contracting businesses in Goderich and Sarnia, and as a former Ontario Hydro Inspector, Lawrence has worked closely with Sommers staff and management through three generations.

Source: Sommers Motor Generator Sales Ltd..

## Training for Chain Saw Operators

Many occupations require the use of chain saws, from professional tree care employees to your local roads department and a host of careers in between. Travelling Trees Ltd., located in Belwood, Ontario, offers in-house training for the safe and knowledgeable operation and proper maintenance of chain saws from both theoretical and practical standpoints.

Good training will bring your people up to date with current standards. Trainees walk away from courses with a refreshed view of how to operate the machine and how to properly maintain it. Most importantly however, is the knowledge regarding the strategic and safe operation of a saw.

Travelling Trees' courses are suitable for both experienced and novice operators – some old habits are bad habits. The training is also good as a refresher, or for the young workers replacing retiring workers.

Travelling Trees' trainers take the presentation to your shop. There are no travel time loss or expenses for your employees.

Graham Underwood, founder of Travelling Trees, has been working in the landscaping industry and moving trees for 25 years. "I find it very rewarding when, at the end of the training, even experienced people say to me that they have learned something they didn't know," he says.

Source: Travelling Trees Ltd.

## Volvo Donates \$100,000 to Hurricane Sandy Relief Efforts

The Volvo Group will contribute \$100,000 in support of Hurricane Sandy disaster relief efforts by the American Red Cross, the City of New York, and the City of Allentown, Pennsylvania.

"With several major facilities and thousands of employees in regions affected by the storm, we're keenly aware of the lingering effects of this disaster," said Dennis Slagle, Volvo Group executive vice president for Trucks Sales & Marketing Americas. "While the headlines are tapering off, the hard work of recovery is very much ongoing, and we want to do our part."

The Volvo Group is donating \$50,000 to the American Red Cross, \$25,000 to the Mayor's Fund to Advance New York City and \$25,000 to the City of Allentown.

The New York City donation will help meet immediate needs for food, water and supplies and support long-term relief and restoration projects. Allentown will use the donation to replace the severely damaged roof of the Mack South Fire Station.

Source: Volvo Group  
Volvo Construction Equipment

Bauma C4.319/719 F5.512/514  
902, 903

## More Exhibition Space at bauma Africa 2013

The amount of exhibition space at the first bauma Africa – to be held from September 18 - 21, 2013 in Johannesburg, South Africa – is being increased to 35,000 m<sup>2</sup>. This is almost double the originally planned figure of 20,000 m<sup>2</sup>.

The reason for this early increase is the considerable amount of space which exhibitors have requested from the organizer, MMI South Africa. Industry giants such as Bauer, Bell, ELB Equipment, Goscor Group, Hyundai, Herrenknecht, LiuGong, Pilot Crushtec, Sany, Shantui, Vermeer, Wacker Neuson and Wirtgen have already registered for bauma Africa. Retailers and, thus, sales partners of international brands such as Bobcat, Casagrande, Doosan, Fiori, Genie, Kawasaki and Mitsubishi will also be represented at the trade fair. Registrations have also been received from leading manufacturers in the building materials machinery industry, for example Hess, Masa and Pan Mixers SA. A provisional list of all exhibitors and brands is available for download immediately at: [www.bauma-africa.com/en/database](http://www.bauma-africa.com/en/database)

Elaine Crewe, CEO of MMI South Africa, is very satisfied with both the large number of major industry players and the space bookings: "We have received some individual inquiries for up to 2,000 m<sup>2</sup> of exhibition space. Although this is certainly unusual for a debut event in a new market, it is a clear demonstration of the confidence placed by exhibitors in our ability to organize trade fairs for construction machinery."

Source: Messe München International

## APEX Switches to Amsterdam for 2014

APEX, the world's leading access equipment exhibition, is moving to a new larger, more accessible venue in Amsterdam.

The eighth APEX aerial platform exhibition in 2014 will be held in Amsterdam, the Netherlands, on June 24 - 26, 2014, moving away from its long-time home in Maastricht.

APEX organizers said the switch to the Amsterdam RAI exhibition center and the new June dates will boost visitor numbers and increase the show's international appeal.

Amsterdam RAI is the city's largest showground and one of Europe's best known exhibition spaces. As well as being a world class exhibition center it will also benefit APEX by offering a larger outside exhibition area than the previous venue in Maastricht.

All previous seven shows – the first was in 1996 – have been held in Maastricht in mid-September. The new June dates mean that the show will be held well before the onset of summer holidays.

Tony Kenter, managing director of APEX organizer Industrial Promotions International (IPI), said the decision to switch venues had been made after consultation with exhibitors and IPAF; "Maastricht served us well as a venue in the past, but it was widely recognised that the change to Amsterdam will make APEX a much more accessible event for visitors throughout Europe and worldwide."

The International Powered Access Federation (IPAF), the major trade body for the access industry, is the official supporter of the show.

In addition, the switch to June will allow APEX to be held concurrently with the International Rental Exhibition (IRE) and the European Rental Association (ERA) annual convention, which will also take place at Amsterdam RAI, giving visitors to APEX free access to IRE, and vice versa. APEX will benefit from increased visitors numbers from both the ERA convention and IRE, which attract many of Europe's biggest rental companies.

Source: Industrial Promotions International (IPI)

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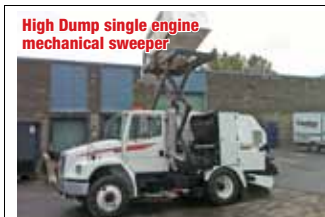
2004 JOHNSTON VT 650 vacuum sweeper, catch basin cleaner, mounted on Freightliner FC80 chassis, 66,986 miles. Stock N10707 Price: \$69,400  
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Phone: 1-800-461-1979



1997 TYMCO 600 BAH, regenerated air sweeper, mounted on Freightliner FC 70 cab over chassis. Stock: A42135 Price: \$28,400  
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# Agenda

## World of Concrete 2013

Exhibits: February 5 - 8, 2013 | Seminars: February 4 - 8, 2013  
Las Vegas, NV USA

## BAUMA CONEXPO SHOW - bC India

February 5 - 8, 2013  
Mumbai, India

## The Rental Show

February 10 - 13, 2013  
Las Vegas, NV USA

## NASTT's No-Dig Show

March 3 - 7, 2013  
Sacramento, CA USA

## 2013 World of Asphalt Show & Conference and AGG1

March 19 - 21, 2013  
San Antonio, TX USA

## Brazil Road Expo 2013

March 19 - 21, 2013  
São Paulo, Brazil

## 48<sup>th</sup> AQTR Annual Convention

March 25 - 27, 2013  
Montreal, QC Canada

## bauma 2013

April 15 - 21, 2013  
Munich, Germany

## National Heavy Equipment Show

April 18 - 19, 2013  
Mississauga, ON Canada

## WASSER BERLIN INTERNATIONAL

April 23 - 26, 2013  
Berlin, Germany

## Canada North Resources Expo

May 31 - June 1, 2013  
Prince George, BC Canada

## Road & Traffic Azerbaijan / Transcaaspian 2013

June 13 - 15, 2013  
Baku, Azerbaijan

## Concrete Show China

June 26 - 28, 2013  
Shanghai, China

## ISARC 2013 - 30<sup>th</sup> International Symposium on Automation and Robotics in Construction & 23<sup>rd</sup> World Mining Congress & Expo

August 11 - 15, 2013  
Montreal, QC Canada

## bauma Africa 2013

September 18 - 21, 2013  
Johannesburg, South Africa

## International Construction and Utility Equipment Exposition (ICUEE)

October 1 - 3, 2013  
Louisville, KY USA

## MS AFRICA & MIDDLE EAST, The International Trade Fair for Stone Design, Technology, Earthmoving and Building Machinery

December 9 - 13, 2013  
Cairo, Egypt

## INTERMAT Middle East

January 20 - 22, 2014  
Abu Dhabi, United Arab Emirates

## Asphaltica in Verona / Samoter

February 27 - March 2, 2014  
Verona, Italy

## CONEXPO-CON/AGG and IFPE expositions

March 4 - 8, 2014  
Las Vegas, NV USA

## SMOPYC 2014 International Show of Public Works, Construction And Mining Machinery

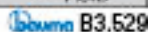
April 1 - 5, 2014  
Zaragoza, Spain

## Journée Expo-Bitume

April 3, 2014  
Saint-Hyacinthe, QC Canada

## APEX 2014

June 24 - 26, 2014  
Amsterdam, the Netherlands



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## The Atlantic Truck Show Rolls into Moncton in 2013

Moncton, New Brunswick, will play host to the Atlantic Truck Show (ATS), Atlantic Canada's largest and most inclusive trucking show in 2013.

The 15<sup>th</sup> edition, to be held on June 7 - 8, 2013, promises to be an outstanding business opportunity and will surely ramp up sales. The ATS is where decision makers come to source out new products and to see the latest in commercial truck and transportation equipment. Fleet managers, truck buyers and distributors want to talk with sales and technical staff face to face to plan their next purchase. This has become THE must-attend industry event.

In 2011, nearly 12,000 visitors streamed through the gates and they did not leave disappointed. Visitors and exhibitors alike are still talking about the success of that edition and next year's event should meet or exceed those numbers. The ATS is the ideal venue to witness the launch of the newest and most innovative products on the market that are paramount to the trucking and transportation industry, including trucks, trailers, engine components and parts manufacturers, as well as services catering to the heavy and medium duty truck industry.

Source: Master Promotions Ltd.

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