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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

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A Brief Word...

Hogmanay and the holidays securely at the back of us and the end of the first decade of the new millennium looms ahead. Is it me, or did 2009 zip by with little palaver?

Amazingly what had been promised as a great and disastrous year was more staid and cautious without being particularly alarming and here we are with the light gleaming at the end of the tunnel. To quote Churchill, "This is not the beginning of the end, but the end of the beginning". Jarred nerves and depleted bank balances aside, what does 2010 offer us by way of hope and opportunity, if not glory?

Well, by the time you are reading this we will have begun our endeavours to enlighten and inform as we always do, beginning with Landscape Ontario, which you can read about in the next issue. While you are doing that we'll be investigating the delights of the World of Asphalt and then it will be on to bauma, the Atlantic Equipment Show and a plethora of other events that InfraStructures is always at so we can be first to bring you the trends of your industry.

It won't just be shows that you will learn from there will be the ever-constant flow of news and events from new products, new faces and new vendors to catching up with old friends and acquaintances. That really is the crux of the difference between InfraStructures and those other publications; we're a name you can put a face to!

So as you navvies fit new handles to your pickaxes and polish up your spades in preparation for spring, don't suffer from cabin fever see what is really going on and enjoy InfraStructures as you usually do.



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On the cover:

a Doosan DX340 excavator owned by Carrière Clément Tremblay & Fils, from Blue Sea Lake, working for DesRok Excavation of Gatineau, Quebec.

ALL CANADA CRANES & AERIALS ADDS NEW BRANCHES

To expand their services to the burgeoning Canadian market, the ALL Family of Companies announces the expansion of ALL Canada Cranes & Aerials with the addition of two new facilities—one in Newfoundland and Labrador and a second location in Ontario.

ALL Canada Cranes & Aerials consists of the ALL Canada Crane Rental Corp.

and ALL Aerials Ltd. The two companies operate independently under one roof, currently headquartered in Mississauga, Ontario, with each having its own staff and fleet of equipment. The new branches will operate the same way and will be located in Mount Pearl, Newfoundland and Labrador, and Sudbury, Ontario.

For the ALL Family of Companies, adding a new branch is not taken lightly. In ALL Crane's early years, success meant

investing, not spreading out. The company founders made sure they established their brand and their service capabilities before they started expanding. "As the largest privately owned crane rental and sales company in North America, we know that the continued success of our company depends on many things; among them, good citizenship in the communities where we work," says Michael Liptak, ALL Crane president.

"At our new location in Newfoundland and Labrador, we will support local industry development projects with local hiring practices. ALL supports local suppliers whenever possible," says Paul Dinn, general manager of the Newfoundland and Labrador facility.

Source: ALL Canada Cranes & Aerials, Ltd.

KENWORTH OF NEWFOUNDLAND OPENS IN MOUNT PEARL

Kenworth of Newfoundland has opened a parts and service facility in Mount Pearl, Newfoundland.

A member of the Kenworth dealer network of more than 300 locations in Canada and the United States, the new Kenworth of Newfoundland facility is in the southwest part of Mount Pearl off Harbour Arterial Road (Highway 2). The dealership features 3 drive-through service bays and a 93 m² parts department.

"Our new dealership has received a very positive response so far," said Larry Murphy, president of Kenworth of Newfoundland. "We're serving existing and new customers involved in construction, less than truckload (LTL), fishing and mining in the area."

The new location is part of Kenworth's constant commitment for superior service coverage as exemplified by Kenworth receiving the 2009 J.D. Power and Associates award for "Highest in Customer Satisfaction for Heavy Duty Dealer Service".

Source: Kenworth Truck Company

DOOSAN INFRACORE AMERICA ADDS NEW DEALER IN NEWFOUNDLAND

Doosan Infracore America is excited to announce Stone Valley Equipment as the newest addition to its strong dealer network. With locations in Corner Brook, Grand Falls and Mount Pearl, Newfoundland, Stone Valley Equipment will offer the full line of Doosan excavators and wheel loaders to Canadian customers.

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"We are committed to being part of our customers' success by providing them with timely, cost effective solutions to their heavy equipment needs," said Fraser Piccott, chief operating manager, Stone Valley Equipment. "Stone Valley Equipment does this by providing a business environment which promotes partnership, integrity, and trust between our customers and the company."

Stone Valley Equipment's dedication to their customers and commitment to providing reputable products, knowledgeable people and 24/7 support is what make them a qualified dealer for the Doosan product line.

"Doosan is committed to offering a hard-working, reliable product, and is dedicated to increased after-market support through such service and support programs as Doosan Elite Plus®. Stone Valley Equipment is a perfect partner for us because they are committed to those same goals," said Paul Manger, general manager Dealer Development. "We are proud to have such an experienced, customer-oriented dealer like Stone Valley Equipment join our family."

Source: Doosan Infracore America

TECHNIP AWARDED GAS FACILITIES CONTRACT IN ABU DHABI

Technip has been awarded by Abu Dhabi Gas Industries Ltd (GASCO) a lump sum turnkey Engineering, Procurement and Construction (EPC) contract worth approximately \$440 million for the ASAB 3 Project.

This project is a revamp of existing facilities to support an increase in oil production from the new Abu Dhabi Company for Onshore Oil Operations (ADCO) facilities and accommodate up to 4,2 million m³/d (150 million MMSCFD) of additional associated gas from the existing Asab, Shah and Sahil oil fields. Technip is responsible for the installation of a new booster compression station, transfer lines, debottlenecking of existing ASAB 0 facilities and diverting feed flow from ASAB 0 to ASAB I/II by installing a new compressor, transfer lines and other associated facilities.

This project will be executed by Technip's operating center in Abu Dhabi, United Arab Emirates. The first phase will be completed during the third quarter 2012 and the remaining phase during the second quarter 2013.

This award reaffirms Technip's decision in March 2009 to create a new Middle East

regional organization, based in Abu Dhabi as part of its strategy to increase proximity to its markets and clients.

Source: Technip

WIND WORKS TO ACQUIRE U.S. COMPANY, WIND PROJECTS

Wind Works Power Corp. and Zero Emission People LLC, a privately-held U.S. wind energy company, have signed a definitive agreement for Wind Works to acquire all of the outstanding equity interests in Zero Emission People, which includes 10 wind energy development projects totaling 375 MW.

The acquisition increases Ottawa-based Wind Works' portfolio to 11 wind energy developments totaling 385 MW, most of them in Ontario. The company also signed option agreements to acquire an additional 3 wind developments in Europe totaling 85 MW.

The Boards of Directors for each company unanimously approved the deal. The value of the proposal was not disclosed and it is subject to regulatory approvals.

Wind Works plans to start construction on its first Canadian projects in 2011 and

construction on the first U.S. project is expected in 2012.

Source: Wind Works Power Corp.

NEW DISTRIBUTION AGREEMENT BRINGS FIBERON® PRODUCTS TO CANADA

Fiberon®, LLC, a leading manufacturer of composite decking, railing, fencing and PVC outdoor flooring, has formed a distribution partnership with Goodfellow, Inc. to offer a complete portfolio of alternative decking and fencing solutions across Canada.

Through Goodfellow, Fiberon will offer Canadian homeowners a portfolio of beautiful, low-maintenance alternative decking, railing and fencing products that stand up to extreme weather conditions, without the hassle of constant maintenance associated with wood.

Homeowners across North America are placing emphasis on style and aesthetics in regards to alternative decking. Fiberon is leading the trend of bringing indoor style outside with Fiberon Horizon™ and Fiberon OutdoorFlooring™ decking. These beautiful, reliable decking products are exceptional performers due to their superior

Volvo Ramps Up Production at New Mexican Backhoe Facility

After a successful small scale pilot, production of BL60 and BL70 backhoe loaders has been substantially increased at Volvo Construction Equipment's new manufacturing facilities in Tultitlan, Mexico,

Production of the BL60 and BL70 center mounted backhoe loaders at Volvo Construction Equipment's modern plant in Mexico is now in full operation. The facility, located 40 km north of Mexico City and shared with sister company Volvo Bus, is equipped to meet the growing demand in the North American and Latin American markets for backhoe loaders. These markets were previously supplied from Volvo's Polish factory in Wroclaw, but the move to Mexico not only significantly reduces delivery lead times, it also allows the requirements of these markets to be more efficiently met.

In addition to reduced delivery times and shipping costs, the move of production to Mexico also offers other benefits, such as a more streamlined supply chain, close proximity to major shipping routes and reduced production costs. The growing economies of Latin American countries and the expected upturn in the North American market were also important factors in the decision to launch production in Mexico.

Source: Volvo Construction Equipment



surface technologies, offering unmatched stain, fade, mold and scratch resistance. Both carry a 10-Year Limited Stain- and Fade-Resistance Warranty.

In addition to Fiberon Horizon and Fiberon OutdoorFlooring, Goodfellow will offer Fiberon Professional composite decking, Fiberon Horizon Plus™ railing, Fiberon Professional Railing and Fiberon™ composite fencing.

Goodfellow, Inc. is a wholesaler and

distributor of wood and wood by-products with headquarters located in Delson, Quebec. Goodfellow has wood-treating facilities and offers a full inventory of exterior siding, flooring, plywood, treated wood and prefabricated products as well as a broad range of hardwood, softwood and exotic woods.

Source: Fiberon, LLC

XTRM CAT™ DIESEL OXIDATION CATALYST SELECTED FOR EMERGING TECHNOLOGY GRANT AWARD

Environmental Solutions Worldwide Inc., headquartered in Concord, Ontario, announced recently that its wholly owned subsidiary ESW Canada Inc. (ESWC) received notification from the Mississippi River Corridor –Tennessee (MRCT) that the Company's Xtrm Cat™ Marine/Locomotive high performance diesel oxidation catalyst technology has been selected by the Environmental Protection Agency (EPA) for a US\$2 million funded grant program. This program is part of "The American Recovery and Reinvestment Act of 2009" Stimulus Fund directed towards the deployment of diesel emission reduction retrofit technologies.

This grant award was made possible by the collaboration and efforts of the MRCT, the Ingram Barge Company, Emissstar LLC and ESWC, and will result in the retrofit installation of 13 Xtrm Cat™ catalysts on 6 vessels owned and operated by Ingram Barge Company. Ingram Barge, a Tennessee-based corporation, is the one of the largest barge companies in North America, with over 130 motor vessels and approximately 4000 barges operating throughout much of the nation's inland waterway system including the Mississippi River.

The diesel engine emission reductions from the application of the Xtrm Cat™ catalysts on Ingram's vessels is projected to be in excess of 85,5 t of particulate matter (PM) over the 5-year project life. This significant amount of PM reduction is equivalent to removing over 200 diesel powered highway trucks from local highways. With anticipated completion in the 1st quarter of 2010, this application will represent the largest single deployment of emissions retrofit devices on vessels operating on inland waterways in North America.

In October of 2008 the Company's Xtrm Cat™ Marine/Locomotive catalysts became the first, and remains the only technology to be listed by the EPA as an "Emerging Technology" for marine 2-stroke, Tier 0 and Tier 1, turbocharged EMD model engines. This listing provides a platform for the Xtrm Cat™ to be funded in showcase programs as the technology moves through the process of achieving EPA verification/certification. Currently there are approximately 20 000 of these types



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of diesel-powered engines in service in marine vessels within North America waters.

In March 2008, EPA finalized a three part program that will dramatically reduce emissions from marine diesel engines below 30 l per cylinder displacement. These include marine propulsion engines used on vessels from recreational and small fishing boats to towboats, tugboats and Great Lake freighters, and marine auxiliary engines ranging from small generator sets to large generator sets on oceangoing vessels. The rule will cut PM emission from these engines by as much as 90% and NOx emissions by as much as 80% when fully implemented.

Source: Environmental Solutions Worldwide Inc.

AECON INDUSTRIAL AWARDED KEY OILSANDS CONTRACT

Aecon Group Inc. announced recently that Lockerbie & Hole Industrial, a division of Aecon Lockerbie Industrial has been awarded a key contract to complete the field construction of Suncor's Firebag 3 central plant facilities.

The project, elements of which are fixed-price/lump sum, includes the completion of piping, electrical, and insulation work, as well as some smaller civil and mechanical work for five of the ten process units that make up Plant 93. The workforce for this project is expected to peak at 600 personnel. Work is scheduled to begin in January 2010 and is scheduled for completion by the end of the third quarter in 2010.

"This contract is one of the largest in the history of the Industrial Group, and signifies for us that work in the Oilsands is beginning to ramp-up once again," said Paul Koenderman, executive vice president, Aecon Industrial Group. "This project award builds on the longstanding relationship that both Aecon and Lockerbie have developed with Suncor."

Source: Aecon Group Inc.

SHAREHOLDERS ENDORSE SPLIT OF ENCAN INTO TWO DISTINCT AND INDEPENDENT COMPANIES

Shareholders of EnCana Corporation recently voted more than 99% in favor of the proposed corporate reorganization to split EnCana into two highly focused energy companies: Cenovus Energy Inc., an integrated oil company and EnCana Corporation, a pure play natural gas company.

The shareholder vote result significantly exceeded the two-thirds majority of votes required to approve the split.

The Court of Queen's Bench of Alberta also approved the transaction, which is by way of a plan of arrangement. Under the terms of the arrangement, common shareholders of EnCana will own one new EnCana common share (which will continue to be represented by existing EnCana common share certificates) and will receive one common share of Cenovus for each EnCana common share held on December 7, 2009, the anticipated distribution record date.

On completion of the transaction, Cenovus Energy Inc. will be focused on the development of EnCana's Canadian enhanced oil assets and United States refinery interests, underpinned by a well-established natural gas and oil production base in Alberta and Saskatchewan with significant capacity to deliver long-term free cash flow. The Cenovus assets, which encompass EnCana's Integrated Oil and Canadian Plains divisions, represent about one-third of EnCana's current production and proved reserves at year-end 2008. EnCana's other major operating divisions,

Canadian Foothills and USA, will form a pure-play natural gas growth company, aimed at growing existing high-potential resource plays in Canada and the U.S. This natural gas company will represent about two-thirds of EnCana's current production and proved reserves at year-end 2008.

Source: EnCana Corporation

RES CANADA AND ENBRIDGE TEAM UP ON 99 MW TALBOT WIND ENERGY PROJECT

Enbridge Inc. and Renewable Energy Systems Canada Inc. (RES Canada) an affiliate of RES Americas, announced recently that they have entered into an agreement to develop a 99 MW wind energy project near Chatham, Ontario in which Enbridge will have a majority interest. The total investment in the project by both parties is approximately \$285 million. The Project will be structured as a limited partnership owned by Enbridge and RES Canada.

Construction of the project will be undertaken by RES Canada under contract to the partnership.

The Talbot Wind Energy Project is expected to be completed in December 2010 and will produce enough clean wind energy to power 33 000 average Canadian

Johnston Sweepers Wins Manufacturing In Action 2009 Award

Johnston Sweepers has been named top Manufacturing In Action company in the 2009 Manufacturer of the Year Awards, hosted by The Manufacturer magazine.

The award was presented by three-times FI world champion, Jackie Stewart OBE at a awards ceremony dinner held at The Tower Hotel in London on November 12, 2009.

The judging panel chose Johnston Sweepers from a shortlist of eight companies in the Manufacturing In Action category, naming it as the "manufacturing company which demonstrates the greatest commitment to promote best practice throughout all areas of the business".

In making their decision the judges took into consideration Johnston's ISO 14001 accreditation, its investment in plant and machinery, manufacturing processes, product design, continuous improvement program, and customer service.

On receiving the award Steve Douglas, Johnston's marketing director, said, "Winning this award is something everyone at Johnston is extremely proud of. It is a testament to the hard work and dedication of Johnston's staff, and confirms that we are among the UK's leading companies in our business practices."

The overall Manufacturer of the Year award was presented to Hozelok, and fellow category award winners included Ginsters, Seven Seas, Morgan Motor Co. and McCormack.

Source: Johnston Sweepers



homes. It utilizes 43 Siemens 2,3 MW wind turbines and, under the terms of the agreement, will be constructed by RES Canada under a fixed price, turnkey, engineering, procurement and construction agreement. Siemens will provide operations and maintenance services for the wind turbines under a 5-year, fixed price agreement. The Talbot Wind Energy Project will deliver energy to the Ontario Power Authority under a Renewable Energy Supply (RES) III 20-year power purchase agreement.

The Talbot Wind Energy Project marks RES Canada's arrival in the Canadian renewables market with the first fully integrated wind project which was developed and will be constructed by RES Canada.

Source: RES Canada Inc.

VIOLA SYSTEMS LAUNCHES ARCTIC CONTROL TO TACKLE POWER OUTAGES

Viola Systems has launched Arctic Control for a centralized, wireless monitoring and operation of the entire Electricity Distribution.

Reducing the frequency and duration of power outages is one of the key targets for service improvement of the Distribution Companies. Using Arctic Control, power is restored immediately by remotely monitoring and controlling the field devices in the Electrical Network.

Jyrki Penttonen, CEO of Viola Systems, explains that the strategy for the Distribution Companies in the Smart Networks is to divide them in small zones. In the event of a power fault, the effected zone is isolated from the other areas. Arctic Control provides the vital communication link between the centralized control room and monitoring and operating the Medium Voltage field devices.

Mr. Penttonen adds that a secure and reliable communication is vital in successful implementation of a Smart Grid especially when it is concerning the Medium Voltage. Arctic Control has been specifically designed to meet the high availability and security needs of a Distribution Company. Retrofitting with the existing assets, connection with multiple switchgear and disconnectors are some of the key features of Arctic Control.

Arctic Control has been tested in extreme field conditions and is deployed by some of the leading utilities in the Nordic area.

Source: Viola Systems Ltd.

DEDICATION CEREMONY MARKS COMPLETION OF TEKEZE HYDROPOWER PLANT

MWH, the global wet infrastructure sector leader and provider of environmental engineering, construction and strategic consulting services, and joint venture partner Energoprojekt Co. Ltd., helped celebrate the completion of the \$350 million Tekeze Hydropower Project in northern Ethiopia. The government-funded project – and tallest dam in Africa at 188 m high – is expected to provide a reliable, renewable source of power for the country that has been forced to impose regular blackouts for its 80 million residents due to energy shortages.

The November 14 dedication ceremony

at the plant located on Ethiopia's Tekeze River attracted foreign and Ethiopian government officials, media and business leaders.

The Tekeze Hydropower Project is expected to provide 300 MW of clean, renewable power – it will add 40% to the current 683 MW generated for the entire country. Due to the lack of fossil fuels, virtually all power in Ethiopia comes from hydroelectric sources. By tapping into the significant energy generation potential in the country's rivers, this hydropower facility is designed as a low-cost way to increase the stability and access to light, heat and water for all communities. The project also creates opportunities for

Increased Versatility and Productivity from New Aquajet Robot

Aquajet Systems AB will exhibit the newest version of its Aqua Cutter HVD ISC Hydro-demolition robot at the World of Concrete.

The Aqua Cutter HVD is considered to be the most versatile robot available performing horizontal, vertical and up to more than 6 m overhead operations as standard.



The operation width of the new power head can easily be increased and the traverse is easily extended for up to 4 m operation width. This feature is particularly advantageous for increased production on bridges and similar large surface projects.

One of the most important new features is the removal of all sensors and electric cables from the front of the machine, out of the way of water, grease and dust, utilizing a new patented Intelligent Sensing Control (ISC). The robot operates with great safety and reliability. In addition the machine's front end has a clean, functional appearance, with new easy-to-open hose protection and support system for the hydraulic hoses.

It also introduces a new oscillation system providing an adjustable oscillation angle, an easy to set lance angle and an improved and extended EDS lance control. As the water jet rapidly loses power as it is discharged from the nozzle, it is necessary to keep the jet as close to the surface as possible. The EDS allows this robot to achieve a lance angle of attack of as much as 30° to each side, without wasting energy from the jet, directing the power of the water where it is most needed. This in effect speeds the demolition operation allowing the robot to get into awkward areas, such as under rebar with more ease.

The LCD, operators display panel, uses clear and simple pictorial graphics combined with small multi language text making it very easy to program the robot. Graphical representation provides a far quicker assessment of the robot's programming. The robot can also be programmed to cut geometrical patches.

World of Concrete will be held February 2-5, 2010 in Las Vegas, Nevada.

Source: Aquajet Systems AB



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sustained social and economic growth for Ethiopians.

MWH started working on the project in 1998, providing design review, preparation of construction drawings, bid packaging and evaluation, and on-site construction management services for the single largest public works project in Ethiopia's history.

Since the hydropower plant is nearly three hours from the nearest city, MWH guided the development of 37 km of roads and three small towns, where nearly 3000 workers reside. Over the duration of the project, several hundred local engineers and technicians received formal classroom and on-the-job training, thus building the technical skills of residents for future initiatives.

Source: MWH

B&W VØLUND TO SUPPLY WASTE-TO-ENERGY TECHNOLOGY FOR IRELAND POWER PLANT

Denmark-based Babcock & Wilcox

Vølund A/S (B&W Vølund), a subsidiary of Babcock & Wilcox Power Generation Group, Inc. (B&W PGG), has been awarded a contract by Indaver Group Ireland to supply waste-to-energy combustion technology for a power plant project in Meath, Ireland. B&W PGG is a major operating unit of The Babcock & Wilcox Company.

B&W Vølund will design and supply a VølundSystems™ waste-fired boiler for the 20 MW plant – Ireland's first municipal waste-to-energy facility. Indaver will manage the overall construction of the plant, which is scheduled for completion in 2011. The plant will process up to 200 000 t of household and industrial waste each year and will generate power for 20 000 homes.

"B&W Vølund and B&W PGG are industry leaders in renewable energy technology and supply customers around the world," said B&W PGG president and COO Richard L. Killion. "The waste-to-energy facility in Meath, Ireland is an excellent example of how we're working hard to provide low-

carbon, environmentally sound options for our customers and the communities they serve."

Construction on the plant has already begun, and B&W Vølund will deliver its boiler in early 2010. The plant will help Ireland meet a European Union environmental directive that calls for 55% less waste to be shipped to landfills by 2013.

Source: The Babcock & Wilcox Company

WELLS FARGO SUPPORTS CLEAN TECHNOLOGIES WITH NEW COMMERCIAL BANKING GROUP

Building on its commitment to a better environment and supporting a greener economy, Wells Fargo & Company recently announced a new Commercial Banking group dedicated to supporting clean technology companies. Based in Palo Alto, Wells Fargo's National Cleantech group will offer customized commercial banking products and services to businesses that manufacture, market or develop clean technologies such as solar and wind power, energy and water efficiency, electric and low-emission vehicles, and smart grid applications.

The new group will provide financial services and resources dedicated to helping international and domestic companies focused on decreasing the use of fossil fuels, fertilizers, industrial chemicals, and other activities that cause greenhouse gas emissions or other harmful environmental effects. The new division is also part of Wells Fargo's growing efforts to serve the financial needs of technology companies worldwide. The company currently serves 5500 technology customers in areas including life sciences, information technology services and software and semiconductors.

This is the latest step Wells Fargo is taking to support greener businesses. The company has already provided more than \$5 billion in financing, including \$1.6 billion in solar and wind project investments, \$3 billion to support LEED-certified buildings, and other loans and investments for environmentally beneficial business opportunities. Wells Fargo also offers investment and insurance services for clean tech businesses and helps municipalities and non-profits invest in energy efficiency.

Source: Wells Fargo & Company

New Wind Turbine Unveiled

Solar Aero Research, a New Hampshire non-profit alternative energy research corporation, of Greenville, New Hampshire, recently unveiled the proof-of-concept (P.O.C.) prototype of its revolutionary wind turbine. This totally enclosed unit, based upon the early patents of Nicola Tesla, further modified for low fluid velocity use as a wind turbine, is wildlife-friendly, yet promises high efficiency and low-cost energy production. Low maintenance will be a key to long life at low cost, with routine annual maintenance being extremely limited. For tower-mounted turbines, support bearings for the turbine itself will be magnetic, with no lubrication required. Yaw bearings will be permanently lubricated. Generator equipment will be located at the tower base, thus eliminating the need for specialized personnel and equipment to climb the tower on a routine basis.

The follow-on prototype unit will be lighter, 2/3 the diameter of the P.O.C. unit seen here and will be constructed of lightweight composite materials suitable for tower mounting. This unit will also be sized for a 10kW brushless alternator and is intended to be suitable for erection near military surveillance radar installations, due to the inherent non-interfering nature of this design. This turbine should also deliver power at a cost comparable to present coal-fired powerplants, inasmuch as there is but one rotating component, which consists of the turbine/driveshaft/alternator assembly, with no heavily loaded bearings.

Cost of this unit is projected to be in the order of approximately US\$1.50/W in 2009 dollars, uninstalled. Efforts are currently underway to secure additional R&D grant funding for follow-on prototypes. Production licenses are available worldwide.

Source: Solar Aero Research



Mobile Awareness Announces VisionStat Plus Integrated Obstacle Detection Sensor & Video System

Mobile Awareness, LLC, a provider of leading-edge transportation safety products, recently announced VisionStat Plus, an extremely affordable and complete commercial-grade system to prevent backing accidents. VisionStat Plus offers an integrated version of their SenseStat Obstacle Detection Sensor System that connects directly with their wired VisionStat Camera System with no additional cabling required.

VisionStat Plus is an advanced safety solution which combines two technologies to aid in the prevention of costly backing accidents. Utilizing a leading-edge obstacle detection sensor system (SenseStat), which is displayed on a backing camera video monitor (VisionStat), the driver is provided both audible and visual information when an obstacle is detected in the rear of the vehicle. The combined features allow for visual confirmation via a CCD camera along with the distance and proximity from any of 4 sensor zones – the driver sees the exact distance (accurate to 25 mm), to the closest object on the monitor.

SenseStat is the leading-edge obstacle detection system that monitors 4 zones simultaneously indicating the area closest to an object or person. VisionStat is a rugged easily installable video system available with either a 14 cm or the 18 cm Color LCD Monitor which is configurable with up to 4 infrared night vision CCD cameras. VisionStat Plus is the extremely cost-effective result of integrating the SenseStat Obstacle Detection Sensor System directly into the VisionStat Camera System with no additional wiring required.

In the past, customers would choose between two of the most common blind spot monitoring methods, a backing camera or an obstacle detection system. While each has important advantages, the cost of purchasing and installing two

different systems was often prohibitive. By offering an integrated version, the combined safety effects of a VisionStat camera (visual) "Plus" the object detection of a SenseStat sensor (audible alarm) are realized at cost (starting at \$675.00) often below other rugged camera systems alone. VisionStat Plus is ideal for all types of single unit vehicle fleets in urban areas where backing safety is often stressed.

There are many advantages to utilizing active backing sensor technology with a reversing camera system. One of the most critical being when the driver is not viewing the video monitor, the audio from the sensor system can bring attention to an unforeseen object or individual behind their vehicle. Ulti-



mately, this added driver awareness will reduce costs and backing accidents.

Source: Mobile Awareness

ADM Builds Its 1000th Asphalt Plant

After 35 years of business, Asphalt Drum Mixers, Inc. (ADM) has received an order to build its 1000th asphalt plant, and to celebrate this milestone, the company held an open house at its Huntertown, Indiana, facility on October 21, 2009.

When the company started in 1974, it employed 11 people in a 1000 m² factory. Since then, the operation has expanded to 60 employees and moved to its third production facility, which now covers 5575 m². Not only has ADM significantly increased its size and output, but it also continues to develop its products and surpass the expectations of a growing customer base.

"Today, our asphalt plants incorporate the latest parallel-flow and counter-flow technologies," said Mike Devine, president of ADM. "Innovations such as these, and our ability to meet new industry challenges, have kept us going strong over the first 1000 plants...and will continue to drive us for the next 1000."

The 1000th plant will be an SPL series, which represents one of ADM's three asphalt plant designs. The SPL is capable of producing between 55 and 145 t/h, depending on the configuration. Also available are the Roadbuilder, which produces between 100 and 317 t/h, and the Milemaker, which produces between 145 and 385 t/h. ADM also manufactures a line of components for use with its line of asphalt plants as well as similar competitive models.

Source: Asphalt Drum Mixers, Inc.



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Volvo and Mack Engines First to Be Certified for Near-Zero Emissions of EPA 2010

Volvo and Mack are the first truck manufacturers to have their engines certified by the U.S. Environmental Protection Agency and the California Air Resources Board as meeting upcoming 2010 diesel emissions standards, the most stringent in the world.



Volvo and Mack are the first truck manufacturers to have their heavy-duty 11 and 13 liter diesel engines certified for 2010 by both EPA and CARB. These engines have been fully certified to meet EPA's stringent standards without the use of emissions credits.

"This outstanding achievement is yet another testimony to the skills of our engineers on both sides of the Atlantic," said Peter Karlsten, chief technical officer of the Volvo Group.

Volvo and Mack's emissions technology for EPA2010 does more than cut emissions of nitrogen oxides (NO_x) and particulate matter (PM) to near-zero levels. Using selective catalytic reduction (SCR) to reduce NO_x, Volvo Mack improved fuel economy and reduced emissions of the greenhouse gas CO₂. The Volvo Group has billions of miles of real-world experience with SCR in the European markets among others.

Source: AB Volvo

SAKAI Introduces Sleek Looking 700 Series Double Drum Rollers

SAKAI America has released two models with its new 700 Series vibratory asphalt rollers, which have a redesigned appearance and increased paving productivity.

According to Sakai, the new SW770 and SW770HF models increase paving productivity by achieving density with high amplitudes while leaving smooth finishes on all HMA (Hot Mix Asphalt) surfaces.

Sakai says the SW770 offers one frequency, 3000 vpm and two amplitude settings, low to high 0,03 to 0,063 cm, while the SW770HF offers a three frequency settings up to 4000 vpm, and the same amplitude settings as the SW770.

Both models are said to offer a drum width of 1,7 m and are suitable for a wide variety of HMA projects including municipal streets, state highways, airport runways and large parking lots.

Sakai says the 700 Series is powered by an Isuzu 4JJ1XDIA, 123hp Tier III diesel engine. Another feature is the new series' spray system which eliminates downtime during the crucial compacting stage. The spray system consists of one spray bar on each drum, rustproof tanks, stainless pipes, and brass nozzles which can be replaced by hand.

The triple filtration system prevents clogging from debris and a pressurized emergency back-up pump system provides water in the event of a pump failure.

Source: Sakai America, Inc.



Booth: 411

Ritchie Bros. Auctioneers Opens a New Auction Site in Grande Prairie

Ritchie Bros. Auctioneers celebrated the Grand Opening of its brand new permanent auction site in Grande Prairie, Alberta with a two-day, multi-million dollar unserved public equipment auction on November 24 - 25, 2009.

"The new site is double the size of our former property," said Brian Podruzny, regional manager, Ritchie Bros. Auctioneers. "The site features a larger yard and more spacious facilities that will allow our customers to sell more equipment and provide an even greater selection of equipment at fair market value for local and international buyers."

More than 3300 people from 23 countries registered to bid on over 220 items for the construction, agriculture, transportation, oilfield, mining and other industries being sold in the auction.

Since acquiring its first auction site in Grande Prairie in 2002, Ritchie Bros. has conducted 50 auctions there. Approximately 24 ha of the new site are currently developed, with 105 ha remaining undeveloped to facilitate future expansion. The 2850 m² auction building at the new site is the second largest auction building currently operated by Ritchie Bros. in the world.

Source: Ritchie Bros. Auctioneers



Booth: 843

Generac® and FPT Announce Strategic Partnership for Diesel Engines Supply

Generac® Power Systems, Inc., a leading manufacturer of standby and portable power generation equipment and Fiat Powertrain Technologies (FPT), one of the most significant global players in the powertrain sector have announced a strategic partnership. Beginning in 2010, FPT will supply Generac with a wide range of industrial diesel engines for use in gensets with outputs ranging from 82 to 475 hp. The FPT engines are state-of-the-art designs that will help increase productivity and greatly reduce engine operating costs.

FPT engines for power generation benefit from the most advanced technologies developed and applied worldwide in numerous applications encompassing construction equipment, agriculture and commercial vehicles as well as passenger automobiles. Key attributes include high performance and compactness, combined with low operating costs and minimal environmental impact.

The engines require 37% less oil and feature best-in-class 600-hour oil and filter change intervals, which is 20% better than competitors' average. The high power density provided by turbocharging and enhanced injection systems, such as the FPT second generation Electronic Common Rail, allows performance normally achievable only with bigger size engines, providing obvious benefits in lower fuel consumption and smaller size. FPT engines are thus able to meet the most demanding customer requirements for performance, operating cost and ease of installation and service.

"FPT engines have many superior technology and performance advantages that Generac seeks to utilize in its gensets," states Allen Gillette, senior vice president, engineering, Generac.

"This agreement with Generac, a leading company in power generation systems, is a further recognition of FPT's capability to



provide genuine value to our customers thanks to the most innovative technologies that we have developed and made available in all markets for all different kinds of applications, from passenger cars to industrial engines," adds Massimo Rubatto, sales and marketing vice president, FPT.

Source: Generac Power Systems, Inc.
Fiat Powertrain Technologies

The First Professional System for "Off-the-Grid" Welding

Hobart introduces the Trek 180, a portable MIG welding system ideal for DIY, metal-working enthusiasts in automotive restoration, racing and home hobby markets. This revolutionary wire welder operates off its self-contained battery or 115 V power, welds 24-gauge up to 6,35 mm (1/4") mild steel in a single pass and recharges off an automotive power inverter or 115 V receptacle.

When fully charged, the unit delivers approximately 2540 mm of continuous weld bead using .030 dia. flux-cored wire on 3,18 mm (1/8") mild steel. Unlike other battery welders, battery power is monitored continuously to provide consistent welding voltage regardless of the charge level. The Trek's low battery shutdown feature disables the welder when the battery runs low, protecting the life of the battery and quality of weld output.

Source: Hobart Welding Products



Enova & FCCC on Target to Deploy All-Electric Fleets

Enova Systems, Inc., a leading developer of propriety electric, hybrid and fuel cell digital power-management systems propelling the alternative energy industry, announces the company has completed a major step toward greening North America's commercial fleets.

In a four-phase initiative launched in collaboration with Freightliner Custom Chassis Corporation (FCCC), the companies plan to deliver all-electric commercial vehicles to the North American fleet market by 2010.

To support this transition, Enova is integrating its 120 kW all-electric drive system technology with strategically selected FCCC chassis platforms, including the MT-45 walk-in van chassis used by a range of FCCC's national fleet customers. The company's highest volume chassis, the MT-45 offers a gross vehicle weight up to 8600 kg. with maximum payloads of 4500 kg.

Source: Enova Systems Inc.



Integrated, Self-Contained Air Compressor, Hydraulic Pump and Generator from Miller

Miller Electric Mfg. Co. introduced its new EnPak™ Mechanic Series at the National Truck Equipment Association's (NTEA) 2009 Work Truck Show in Chicago.

EnPak's variable speed rotary screw air compressor, Miller's Air Pak™ 40, offers a rated 40 CFM at 100 PSI with a 175 PSI maximum that allows mechanics to use



Powered by a 27 hp Kubota engine, EnPak eliminates the need for a PTO and integrates seamlessly into its electrical and fuel systems, allowing mechanics to run their tools with the truck's engine turned off.



air tools without having to stop working to wait for pressure to build. Its Eaton variable displacement piston hydraulic pump powers a rated 3000 psi at 32 l/min (up to 75 /min maximum) and offers smooth, fast



and accurate crane operation. And 6000 W of generator power at 100% duty cycle plus an additional 2400 W of pure sine wave EnVerter™ power at idle is available to run electrical tools including welders, lights and laptops used for equipment diagnostics.

John Deere Introduces Plus-50™ II Premium Engine Oil

John Deere introduces new Plus-50 II Premium Engine Oil for use in high-speed four-stroke diesel engines in heavy-duty agricultural and off-road equipment and lighter duty on-road vehicles. Plus-50 II replaces Plus-50 engine oil, which has been one of John Deere's most widely used premium engine oils.

According to Sheri Barta, product line marketing manager for John Deere, Plus-50 II provides up to 500 hours of advanced lubrication performance in modern, low-emission engines and exceeds the requirements of the American Petroleum Institute Service Category CJ-4. "Tests show that Plus-50 II allows for extended oil change intervals up to 500 hours, or nearly twice the engine hours of typical engine oils. Plus-50 II is the recommended engine oil for John Deere Interim Tier 4 engines, for maximum engine wear and corrosion protection," she says.

In addition, Plus-50 II is backward compatible and can be used in all older-model diesel engine applications where Plus-50 oil has been used. "Plus-50 II has been extensively tested in heavy-duty off-road applications and surpasses our most extreme engine dyno test for high temperature oxidation in the industry," Ms. Barta adds. "It provides maximum sludge and varnish control, while inhibiting oxidation and soot under a wide range of operating conditions, to help reduce oil consumption and extend engine life."

John Deere Plus-50 II meets or exceeds the requirements for most major diesel engine manufacturers. It comes in SAE 15W-40 and 10W-30 viscosity grades and is available in a variety of quantities from one quart containers to 22 700 l tanker truck loads. Users should refer to their equipment dealer or engine manufacturer for specific oil-use recommendations.

Source: Deere & Company



EnPak features the exclusive EnPower™ Technology: real time load monitoring that automatically matches engine speed to the load requirement put on the machine. This offers additional fuel savings as RPMs only ramp up to levels needed to perform the task and then fall back down to idle when finished.

EnPak's diesel engine shares the truck's fuel supply; this means mechanics only have one tank to fill. It also uses the truck's 12 V battery, eliminating the need for a second battery. EnPak even provides 12 V of power and a 60 A charge to the battery to ensure peak battery performance and extended battery life.

EnPak also maximizes truck bed space by housing the generator, air compressor and hydraulic pump in one self-contained unit instead of having multiple machines for each capability. It can be mounted as a sidepack or in the load space and is only 2,5 cm taller and wider than Miller's Bobcat series of engine-driven welding generators. It does not require a cut-out in one of the truck's storage compartments for front panel access, as EnPak can be operated completely by remote. And all service components are easily accessible through hatches at the front and top of the machine.

Source: Miller Electric Mfg. Co.

Record Horizontal Anchor Holes on Turkish Highway Project

Two Sandvik Top Hammer drills have recently completed record horizontal anchor holes on an elevated highway project in Turkey using techniques generally associated with down the hole (DTH) rigs.

The highway, the Artvin-Erzurum State Road Stage II in Turkey's Eastern Black Sea region features a number of bridges.

Soil conditions determined that horizontal anchors were needed to stabilize the embankment supporting the elevated highway.

On the first three levels of anchors, main contractor, Kolın Construction, used DTH techniques to drill 30 m deep holes into the embankment using a Soilmec DTH rig and 127 mm diameter Sandvik drill bits.

Kolın opted for the non-traditional



tophammer technique for drilling on this project due to the abrasive ground conditions causing considerable wear on both hammers and bits.

Under subsequent trials with a Sandvik DX 700 Top Hammer rig fitted with Sandvik T51 drilling tools and the smaller Sandvik 115 mm diameter retrac drill bits, Kolın was able to drill horizontally record breaking 24 m long, and in some cases even 30 m, anchor holes on the remaining six levels.

The Sandvik performance, using the smaller diameter drill bits and Top Hammer rigs was, according to a spokesman for Kolın, outstanding being "quicker and more cost effective using the lower cost tophammer tools, compared with DTH."

For the top three lines of anchors Kolın is still using DTH techniques, but with Sandvik RH550 hammers and 127 mm drill bits to the rig.

The nine levels cover an area of 101 m x 72 m with individual anchor holes spaced 3,5 m apart.


Muzafer Bayazitoglu, Tools and Consumables sales manager, Sandvik Turkey, confirmed that, "it is the first time horizontal anchor holes have not only been drilled to this length in Turkey but possibly worldwide using tophammer techniques!"

The Sandvik DX 700 is a hydraulic, self-propelled, self-contained and crawler – based surface rig powered by a Cat C7 diesel engine rated at 202 hp @ 2200 rpm.

Sandvik Drill Rig sales manager, Ergun Sokulluoglu, also confirmed that the contractor was also using a DX 680 rig on the highway project; forming part of its fleet of 7 Sandvik drill rigs.

Work is shortly to start on the second bridge, once again using both drilling techniques in a repeat performance over nine levels.

Source: Sandvik Mining and Construction

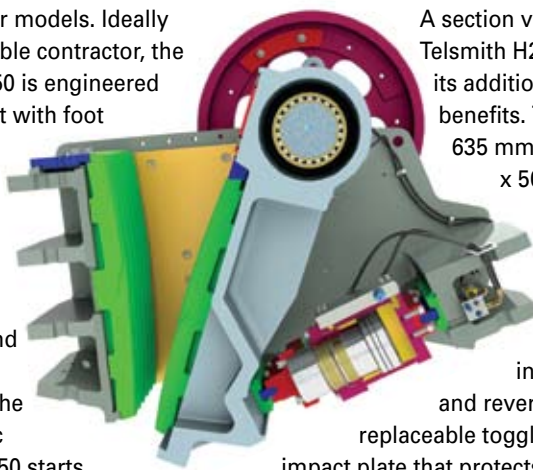
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New Hydra-Jaw H2550 Offers Lowest Operating Costs for Mobile Units

Delivering lower operating costs to operators of wheeled or track-mobile units, the new Telsmith Hydra-Jaw Model H2550 is the result of advanced jaw crusher technology which increases uptime and production capacity, while streamlining operation and maintenance – and ensuring greater safety. At the heart of the low-cost operation of the H2550 is its unique hydraulic toggle system which features a heavy-duty hydraulic cylinder that is custom-engineered for crushing applications. The unit's innovative hydraulic adjustment, relief and clearing systems eliminate costly downtime and prevent component damage, while also protecting workers from the risks typically associated with the operation and maintenance of older jaw crusher models. Ideally suited for the portable contractor, the FEA-designed H2550 is engineered as a low-profile unit with foot mounts located at mid level; and a sculpted main frame which reduces overall weight, yet offers optimal strength and reliability.

A closer look at the advanced hydraulic systems in the H2550 starts with the Hydraulic Adjustment. Its finger-tip control allows easy, frequent and fast adjustments versus the lengthy and often unsafe shim adjustments typical

on traditional crushers. The Hydraulic Overload Relief system prevents crusher damage, downtime and difficult maintenance procedures by opening the crusher when internal forces become too high, allowing tramp metal or other non-crushable material to pass, and protecting the unit against costly component failure. After relief, the system automatically returns the crusher to the previous setting for continued crushing. Hydraulic Chamber Clearing allows the operator to safely and easily clear the crusher, allowing the crusher to start up again in as little as 15 minutes. The hydraulics will crush any materials that remain in the chamber and prevent any oversized material from impacting the product belt.



A section view of the Telsmith H2550 illustrates its additional cost-savings benefits. The unit offers a 635 mm by 1270 mm (25" x 50") feed opening which accepts larger feed.

For maximum wear, the H2550 features interchangeable and reversible jaw dies; replaceable toggle ends; and an impact plate that protects the pitman. Plus, the grease lines are plumbed to a central distribution point for quick maintenance access.

Source: Telsmith, Inc.

Flatiron Wins International Award for Innovative Bridge Construction Method

The Construction Innovation Forum, an international organization that recognizes construction innovation, presented Flatiron with the prestigious NOVA Award for a new pile driving launching gantry method that reduces the environmental impacts of bridge construction.



Flatiron successfully used the method at the Washington Bypass project in North Carolina to construct a 5 km-long precast concrete bridge over protected wetlands and the Tar River. The patented process consists of two self-contained gantries capable of performing all the tasks associated with the bridge construction, including precast pile driving, girder erection, and bent cap construction. It is the world's first application of the pile driving operation from an erection gantry. The method not only saves time and cost, it also eliminates the need for large cranes and temporary access trestles, significantly reducing environmental disturbances to the fragile wetlands below.

"I am honored to receive this award and am thankful that Flatiron supports new ideas that ultimately improve the quality of construction," said Flatiron's senior vice president of engineering, Elie Homsy, who developed the technique and helped see it through to successful employment in the field. He accepted the award during a banquet on November 17, 2009, that was held in conjunction with the National Conference of the Construction Users Roundtable (CURT) in Orlando, Florida.

The Construction Innovation Forum (CIF) is an international, non-profit organization formed in 1987 to recognize and encourage innovation that improves the quality, efficiency and cost effectiveness of construction.

The Construction Users Roundtable (CURT) exists to create a competitive advantage for construction users. CURT accomplishes this by providing aggressive leadership on those business issues that promote excellence in the creation of capital assets.

Flatiron is one of the leading providers of transportation construction and civil engineering in North America. Its core competencies include major bridge, highway, and rail projects. Flatiron also operates as a contractor in public-private partnership projects. Founded in 1947, the firm is a subsidiary of Hochtief, one of the world's leading international construction service providers.

Source: Flatiron Construction Corp.



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Each winter, local and provincial highway agencies use liquid de-icers in their battle against snow and ice in an effort to save money and to reduce the impact of sand on air and groundwater quality.

The highway agencies spray magnesium chloride and calcium chloride on pavement in advance of a coming storm or they mix the chemicals with salt and sand.

"Since these chemicals don't readily evaporate and are highly soluble in water, chemical de-icers stick around and prevent ice from forming on the roadways, making snow removal easier," said Jeff Sass, general marketing manager for PACCAR Parts. "But those same qualities make it easier for the corrosive chemicals to penetrate truck components like brakes."

ROADLEVELER offers new and remanufactured brake components that can last longer and perform more reliably under these corrosive conditions. ROADLEVELER brake components are a licensed PACCAR brand of precision fit all-make replacement

parts including brake shoes and hardware kits for medium-duty to heavy-duty trucks.

All ROADLEVELER brake products meet or exceed Federal Motor Vehicle Safety Standard 121. PACCAR Parts distributes



ROADLEVELER brake products exclusively through Kenworth and Peterbilt dealers in the United States and Canada.

Each ROADLEVELER brake shoe is coined – a form of precision stamping where each brake shoe is stamped like a minted coin in a 1000 t hydraulic press – this ensures that the radius and depth of the shoe table is manufactured to OEM tolerances. Coining

also eliminates the gaps between the shoe table and the friction material to prevent water and road chemical de-icers from seeping behind the friction material.

A special anti-corrosion hydroplex enamel coating is first

applied through full immersion which does not leave surfaces exposed to possible environmental contaminants like chemical de-icers. Then the enamel coating is baked on at 90°C for several cycles to ensure

proper adhesion.

According to the Commercial Vehicle Safety Alliance (CVSA), one out of every three trucks inspected during last year's annual brake inspection was sidelined due to defects with brakes or with their components or adjustments.

"Truck operators can be better prepared for the upcoming winter by having ROADLEVELER® brake components installed," Mr. Sass said.

Source: PACCAR





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New 8-Cylinder Series 4000 Iron Men Engine Unveiled at the WorkBoat Show

The MTU booth at the International WorkBoat Show featured the new 8-cylinder Series 4000 engine, the latest in the "Iron Men" family of engines specially optimized for the heavy-duty application requirements of workboats. With this addition, the Series 4000 Iron Men engines are now available in three configurations – 8V, 12V and 16V – covering a power range of 1000 to 3000 hp.



The new engine will be a competitive repower option for all workboats in the 1000 to 1340 hp power range. As with the other configurations in the Series 4000 Iron Men range, the 8V offers EPA Tier 2 certification with efficient fuel consumption, long maintenance intervals and maximized availability and reliability. Specific fuel consumption of


the Series 4000 workboat engine has been reduced to 195 g/kWh, and maintenance intervals for major overhauls have been extended to as long as 34 000 h, depending on output and load profile.

MTU also displayed its EPA Tier 2-compliant Series 2000 M60 engine as well as the Series 60 engine, which is also EPA Tier 2-compliant and has long been a mainstay in the workboat market. The Series 2000 M60 is available in both 12V and

16V configurations and covers a range of 805 to 1070 hp.

As a complete systems provider, MTU also highlighted its control systems, genuine parts and service products at the show.

Source: MTU Detroit Diesel, Inc.

 A4, Booth 211/308



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Doosan Launches the DXB 170h Hammer for Most Popular Excavator

Doosan Infracore America Construction Equipment is launching the DXB 170h hammer for its DX225 excavator. The new attachment was developed with the industry-leading engineering, design and functionality of Montabert breakers combined with the affordable pricing and versatility of Doosan Infracore equipment.

"This product is another example of our commitment to giving customers more options and versatility in the work they can do," said Chris Neville, Doosan Infracore America, Construction Equipment, general manager, Sales and Marketing. "The DXB 170h hammer will fit our most popular carriers – the DX225 and DX255 Doosan excavators. We anticipate an entirely new base of customers experiencing Doosan quality for the first time."

The first model hammers were placed in the field with a number of Doosan dealers around the country beginning in September and are offered to all dealers since


December 2009. Additional hammer sizes will launch in 2010.

"From Doosan Elite-Plus, a comprehensive product support program, to a 48 Hour Parts Guarantee Program, to our All Makes Parts program, our number one goal is providing end-to-end products and services for our customers," said Michael Stanley, president, Doosan Infracore America Construction Equipment. "This unique new line of breakers designed specifically for Doosan customers based on their input is a sign of our commitment to creating one place where customers can go to have all of their equipment needs met. We listened to what they wanted and made it happen."



Mr. Stanley pointed out that the new breakers will benefit both the end users and the Doosan dealer network. Customers will have the opportunity to tackle new types of jobs (such as demolition) that they might not have considered before, while the dealers can service customers in the demolition sector with a comprehensive suite of products and support services.

Source: Doosan Infracore America

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Premier Plantscapes Wins Award for Green Roof

Premier Plantscapes, LLC has received a national merit award from the Professional Landcare Network for a recently installed green roof on the Bentley Building in Sandy Spring, Maryland.

Premier Plantscapes used a new technology, "Aqualok" which allows the use of a wider palette of plants for green roofs unlike the traditional succulents. Aqualok is proprietary, patented growth matrix panels, made from recycled plastic, which provide a perfect growing medium for plants and require no soil, minimal water (watering cycles of 30 to 60 days, and beyond), and greatly reduced need for fertilizer. The material was invented by Joe Byles, an aerospace engineer and Master Gardener who discovered an oxygen ratio in the product that was extremely beneficial for plants. Mr. Byles has used the material on green roofs around the U.S., including California where plants were exposed to temperatures over 38°C and the Santa Anna winds.

In addition to providing a friendly growing environment for a wide array of plants, the material is also light weight and easy to transport, eliminating the need for transporting loads of soil to roof tops as is



current procedure. It also allows buildings, including historic buildings, without high load roof ratings to have a green roof.

Aqualok is also being used for green walls, exterior gardens (plants can be grown on hard and paved surfaces), turf areas, vegetable gardens, hanging baskets, and interior plantscaping. While the

expanded plastic medium absorbs water, engineered pores throughout it allow the roots of the plants to breathe, eliminating potential over-watering problems.

The application for green roofs is also



very cost affordable to install and companies save considerable money over time in utility costs.

Patrick Cullen, with Premier Plantscapes, is now working on his third green roof in the Washington region.

Source: Premier Plantscapes, LLC

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Cimline To Patch Holes with Sancton Equipment

Cimline Pavement Maintenance Group (CPMG) is very happy to announce that Sancton Equipment is the full line authorized dealer for Atlantic Canada.

Sancton has been supplying contractors with what they need to get the job done since 1910, when S. Norman Sancton started the firm. One hundred years and three generations later, they are still carrying on that tradition and CPMG represents the next milestone in this long history.

With facilities in St. John, New Brunswick, St. John's, Newfoundland and Labrador, and Halifax/Dartmouth, Nova Scotia, Sancton has sales and after sales support throughout the region making them a recognized partner by serious contractors everywhere.

Tom Sancton summed it up this way: "We have been at this so long that we have tended to lead the way by introducing products and technologies that were new or not available down here. With Cimline and Durapatcher we are at it once again, bringing proven quality products to contractors and municipalities. I think the

realization is setting in at all levels of government that we can't sustain the build and forget mentality. CPMG will allow Sancton to offer municipalities and contractors the tools to sustain infrastructure so that ratepayers get value for money."

Although not quite a centenarian, Cimline is the oldest and largest manufacturer of pavement maintenance equipment. Established in 1970, CPMG has continually grown and innovated to become the market leader in this field. With the addition of Durapatcher, CPMG offers customers a complete range of preventive

and corrective pavement maintenance equipment, from crack filling and sealing to pothole repair and shoulder stabilization.

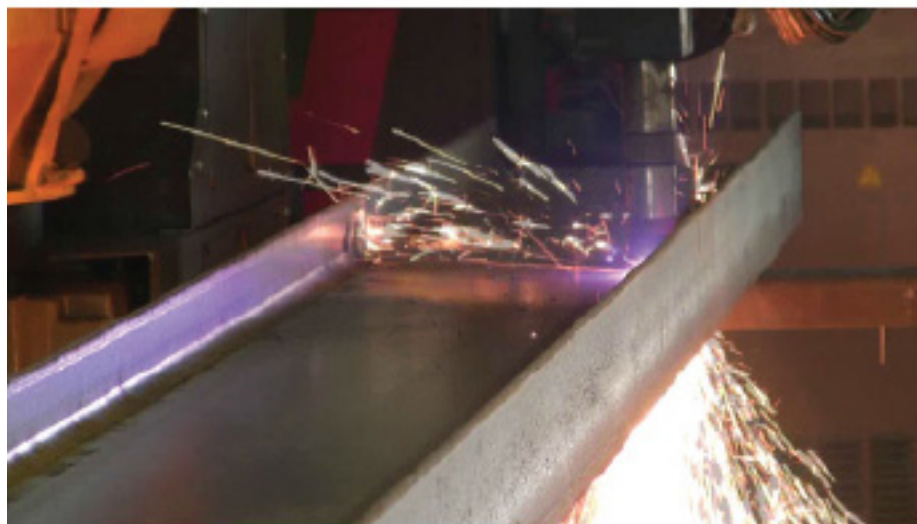
The age difference will not stop this couple from stepping up the pace and taking advantage of their combined strengths to deliver quality, performance and production to a whole new generation of road building and municipal customers.

Source: Cimline Pavement Maintenance Group

 Booth: 401



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1000 Participants Attended WaterSmart Innovations Conference and Exposition

More than 1000 participants from 42 states and 12 foreign nations participated in the second WaterSmart Innovations Conference and Exposition, held October 7-9, 2009 in Las Vegas.

Presented by the Southern Nevada Water Authority (SNWA) in partnership with the U.S. Environmental Protection Agency's (EPA) WaterSense program, the American Water Works Association and other forward-thinking organizations, WSI offered 130 professional sessions in a variety of tracks as well as an expo hall featuring 100 exhibitors from around the world.

"It's exciting to know that water experts from around the world took advantage of this opportunity to interact with their counterparts from so many different nations and backgrounds," said program chairman Doug Bennett. "We believe this was time well spent for all who came to WSI, as sharing creativity and knowledge in an atmosphere of collaboration is the catalyst for finding innovative approaches to the water efficiency challenges we all face," he said.

The conference also featured keynote addresses October 7 by Dan Bena, international sustainability director for PepsiCo, and October 8 by Dr. Jim Gill, inaugural chairman of Water Australia and past CEO of the Water Corporation of Western Australia.

Technical tours to Hoover Dam and the Springs Preserve highlighted Southern Nevada's water-efficiency practices and water resources.

The third WaterSmart Innovations Conference and Exposition is slated for October 6-8, 2010, Las Vegas. The deadline for submitting abstracts is Friday, January 15, 2010.

Source: Southern Nevada Water Authority

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Appointments

Danny Morrisette, managing director at **RNP Industries Inc.**, is pleased to announce that **Jean Cayer** has joined the company in the position of New Business Development representative.

In the past, Jean Cayer has been involved in drilling, mining and industrial equipment. He brings with him over 15 years of experience in new market development and marketing.

RNP Industries is a leading specialist in the design and manufacture of productivity-enhancing equipment. Its most famous product – P.A.M. – was the winner of the "Expert Choice Award" for MIP2008 "Most Innovative Product" of the year in the "Demolition and Repair" category at the World of Concrete held in Las Vegas in January 2008.

Source: RNP Industries Inc., 1-888-697-5355



Éric Nadeau, vice president of **Marindustrial**, is proud to announce the appointment of **Yvon Lajoie** as Marindustrial general director in Montreal, Quebec, and branch supervisor in Moncton, New Brunswick, and Oakville, Ontario.

Yvon Lajoie joined Marindustrial, Moncton branch, in the position of branch manager for the period of 2004 to 2007. Most recently, he served as branch manager for Eastern Canada for the company SMC Pneumatics Canada Inc., the world's largest manufacturer of pneumatic components.

Founded in 1991, Marindustrial is serving industrial and marine customers. Marindustrial is the Twin Disc distributor and service center for Eastern Canada. Twin Disc manufactures heavy-duty powershift transmissions, marine gears, power take-offs (PTO), clutches, pump drives, torque converters and other power transmission components. Marindustrial also offers distribution and after sales service for industrial engines, generator sets and power units, engine accessories and components for industrial applications.

Source : Marindustrial, 1-800-363-2259



Joy Global Inc. recently announced that **Randal W. Baker** will join the company as president and chief operating officer of its surface mining equipment business, P&H Mining Equipment, and executive vice president of Joy Global Inc.

Mr. Baker joins Joy Global from CNH Global N.V., where he was president and CEO of their agricultural equipment business, which sold products under the Case IH brand name. Prior to joining CNH, he spent 14 years in a series of progressively senior leadership roles in the mining equipment industry, which

Asphalt Is the Sustainable Material for Constructing Pavements

included management positions with Tamrock Corporation, the Construction & Mining Division of Ingersoll-Rand, and Komatsu. At Komatsu, Mr. Baker was vice president and general manager of the Mining Division.

"Randy brings us a tremendous balance of industry experience, global business leadership and drive for performance," said Mike Sutherlin, president and chief executive officer. "I know he will make a quick start and have a long term impact on our business. As such, Randy is a major addition to a strong management team that will continue to deliver leading performance to both our customers and our shareholders."

Source: Joy Global Inc.

Thompson Pump & Manufacturing Co., Inc. of Port Orange, Florida, celebrates the 25th employment anniversary of **Dale Conway**, vice president of Engineering.

Mr. Conway has held many positions in the manufacturing and engineering sectors of Thompson Pump since 1984. He currently oversees all engineering departments and technical aspects of the pump business such as manufacturing engineering, quality assurance and research & development.

Dale Conway is a graduate of the University of Central Florida with a Bachelor of Science degree in Mechanical Engineering and is a registered Engineer Intern in the State of Florida. He is a trained ISO 9001 internal auditor and successfully implemented an ISO9001 compliant quality management system at Thompson Pump. He has attended and taught many pump-related seminars throughout the country and has authored several technical papers.

"I congratulate Dale on his 25th anniversary at Thompson Pump", said Bill Thompson, president, Thompson Pump. "His consistent dedication to providing and improving quality products is what makes Thompson Pump the industry leader."

Source: Thompson Pump & Manufacturing

London Machinery Inc., a subsidiary of Oshkosh Corporation, has appointed **Robert Monchamp** as its general manager. In his new role, he will have oversight responsibility for all aspects of the company's operations and management team.

Robert Monchamp started with London Machinery in 1992 and has held positions as parts manager, Montreal branch manager and most recently as the Canadian sales manager. Prior to joining London, he worked for a heavy equipment manufacturer. He received his bachelor's degree from the University of Quebec in Economics and Finance.

Source: London Machinery Inc.,

1-800-265-1098 Ext. 224, cell: 519-661-9213



National Asphalt Pavement Association has published the asphalt industry's first-ever sustainability report. In announcing this landmark publication, NAPA president Mike Acott commented, "Most people probably do not give much thought to asphalt, even though it is an important part of our lives – after all, 94% of America's 2 million miles of paved roads are surfaced with asphalt. And if people do think about asphalt, they may not realize what an environmentally-friendly material it is. They may not even know that asphalt is America's most reused and recycled product."

"The asphalt pavement industry is proud of its record in environmental sustainability. For decades, we have been proactive in creating and implementing products and processes that reduce the impact of our operations on the environment. This new report discusses some of the products and processes we have developed – warm-mix asphalt, reuse/recycling, porous asphalt, and Perpetual Pavements – and shows how an accelerated deployment program could lead to even greater achievements."

The report, entitled *Black and Green: Sustainable Asphalt, Now and Tomorrow*, can be downloaded from NAPA's website. It highlights the ways in which the asphalt industry's everyday practices address climate change, improve air quality and water quality, provide green jobs, and reduce the carbon footprint of pavements. While environmental sustainability is the chief focus of the report, economic and social sustainability are also touched on.

Economic benefits of reuse/recycling include reducing the cost of roads to taxpayers. Combined with Perpetual Pavements, reuse/recycling contributes to social sustainability by allowing for roads to remain in service while they are being rehabilitated. This reduces congestion, improving quality of life by saving time – an additional social benefit. Completing the circle, reducing congestion also has the environmental benefit of cutting down on excess emissions that might have been generated by vehicles sitting in traffic.

Source: The National Asphalt Pavement Association, www.hotmix.org

 Booth: 301





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Agenda

CONGRESS 2010

January 12 - 14, 2010
 Toronto, ON Canada

World of Concrete 2010

February 2 - 4, 2010
 Las Vegas, NV USA

World of Asphalt

February 15 - 18, 2010
 Cincinnati, OH USA

The Rental Show

February 7 - 10, 2010
 Orlando, FL USA

Work Truck Show 2010

March 9 - 12, 2010
 St. Louis, MO USA

Expo Build China 2010

March 29 - April 1, 2010
 Shanghai, China

China International Cement Industry Exhibition

China International Cement Conference

March 31 - April 2, 2010
 Beijing, China

Atlantic Heavy Equipment Show

April 8 - 9, 2010
 Moncton, NB Canada

Bauma 2010

April 19 - 25, 2010
 Munich, Germany

IFAT CHINA

May 4 - 6, 2010
 Shanghai, China

1st APOM Technical Day

May 7, 2010
 Sorel-Tracy, QC Canada

Hillhead

June 22 - 24, 2010
 Buxton, UK

2nd APOM Technical Day

September 10, 2010
 Drummondville, QC Canada

IFAT 2010

September 13 - 17, 2010
 Munich, Germany

IAA Nutzfahrzeuge - Commercial Vehicles

September 23 - 30, 2010
 Hannover, Germany

WaterSmart Innovations Conference and Exposition

October 6 - 8, 2010
 Las Vegas, NV USA

INTERROUTE&VILLE

October 26 - 28, 2010
 Metz, France

bauma China 2010

November 23 - 26, 2010
 Shanghai, China

Power-Gen International

December 14 - 16, 2010
 Orlando, FL USA

bC India International Trade Fair

February 8 - 11, 2011
 Mumbai, India

CONEXPO-CON/AGG & IFPE

March 22 - 26, 2011
 Las Vegas, NV USA

ICUEE - The International Construction & Utility Exposition

October 4 - 6, 2011
 Louisville, KY USA

Power-Gen International

December 6 - 8, 2011
 Las Vegas, NV USA



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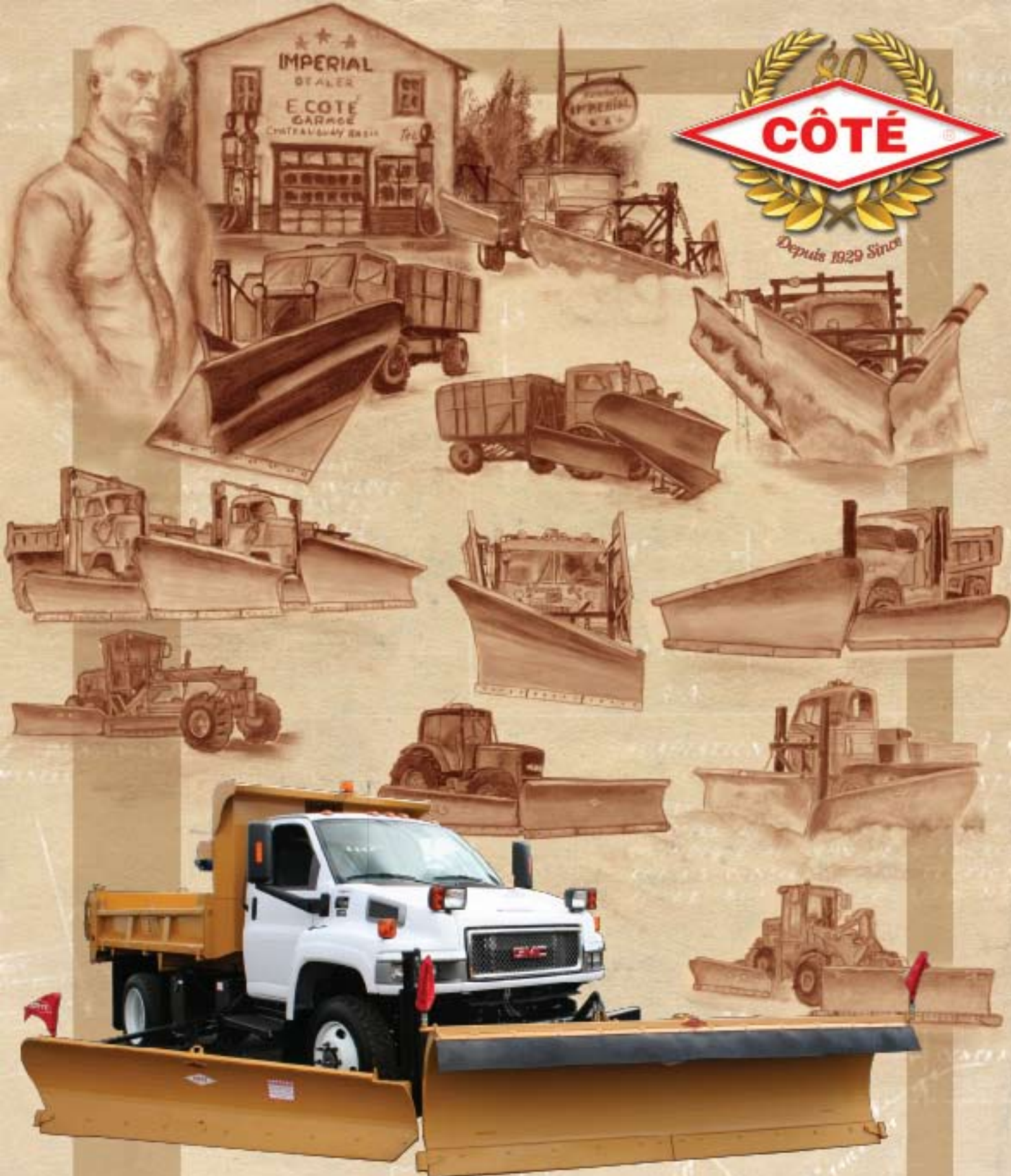
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