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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

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## A Brief Word...

*Finally, some time to unpack and reflect on what has been an eventful few weeks! Time to get focused on the work season that is upon us.*

*One thing you may notice, apart from our cover, is a lot of news from the truck manufacturing industry. Granted, most of it is not as spectacular or as innovative as other sectors of the equipment industry, but it is a telling sign.*

*The realization has come that perhaps Vocational Trucks are not as "glamorous" as OTR (Over-the-Road), they have been the unsung heroes not just to the construction industry but to the chassis manufacturers themselves. That being said, it is time that contractors like many of you, dumper, boom, sweeper, equipment users demanded a bit more respect. If they want your business make them work for it like any other equipment supplier.*

*I think Caterpillar acknowledges this and in true to form style, has laid down a challenge to establish the benchmark. When Daimler, Volvo and the rest figure this out it will make for some remarkable new products and innovations. It promises to be at the very least entertaining, and as you can expect, InfraStructures will bring you the news as it happens.*

*What else would you expect from Canada's leading industry publication?*

*Happy Easter,*



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On the cover:

Caterpillar chose CONEXPO-CON/AGG for the launch of its first vocational truck, the Cat CT660. The CT660 with a set back front axle, will be joined later by the CT680 with a set forward front axle.

Caterpillar dealers are ready to take orders for the new truck with factory shipments beginning in July 2011.

## SMS EQUIPMENT EXPANDS OPERATIONS IN BRITISH COLUMBIA

The new branch location, which opened early 2011, is located in the Industrial Park, the heart of Chetwynd, British Columbia. The 700 m<sup>2</sup> building was renovated to suit the needs of the heavy equipment industry. The building sits on a 1.4 ha lot allowing for further expansion. The expansion also included the addition of 6 full time employees, for a total of 9, to support the

mining, construction, forestry, and utility industries in the region. "Our large secure lot will provide the necessary space for further growth and expansion as the region continues to grow and requires further support" says Gary Kessler, the operations manager.

The new branch will continue to support the Chetwynd and Tumbler Ridge regions; however, the added capacity will allow SMS Equipment to support the needs

within a fast growing Mining industry where a large Komatsu equipment fleet already exists. "We are currently looking for an additional 15 local service technicians to support our customers" said Chris Hort, general manager of the region.

Source: SMS Equipment Inc.

## MANITOWOC NAMES WESTERN PACIFIC CRANE AND EQUIPMENT AS NEW DEALER

Manitowoc Cranes announced recently that Western Pacific Crane and Equipment has been named the new exclusive distributor of Manitowoc, Grove and National Crane in western North America and the South Pacific.

Western Pacific Crane and Equipment will represent the full line of Manitowoc Cranes including: Manitowoc lattice boom cranes, Grove mobile telescopic cranes, (rough-terrain, truck, all-terrain, and industrial) and the National Crane boom truck lines.

The Potain tower crane line will continue to be marketed and sold by Coast Crane Company, which recently became a wholly owned subsidiary of Essex Rental Corp.

Manitowoc's new dealer had been previously announced with the name of Pacific Coast Cranes & Equipment. That name was since changed to avoid similarities and confusion with the name of Manitowoc's previous dealer.

Western Pacific Crane and Equipment, a newly formed affiliate of the Lanco Group of Companies, will sell, rent, service and provide product support on all Manitowoc Crane products in the states of California, Oregon, Washington, Alaska and Hawaii, as well as western Canada, Guam and the Marshall Islands.

Source: Manitowoc Cranes

## CHILLIWACK HOSTS THE PACIFIC CONSTRUCTION EQUIPMENT SHOW

The producers of the The Pacific Construction Equipment Show are excited to announce the show is making the trek to Chilliwack, British Columbia, June 3-4, 2011!

The long-running Heavy Construction Show has a new venue and a new name... the Pacific Construction Equipment Show. This event is well-known to exhibitors for the great success it has enjoyed in the past in hosting static exhibits in combination with live pit shows.

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Show will serve as a major platform for meeting the rapidly growing requirements of the industry with the continued implementation of major residential, commercial and industrial projects throughout the region due to increased infrastructure spending.

Evolving to better reflect the industry and location, the show now has the added convenience to exhibitors of having the Indoor and Outdoor Exhibits in close proximity to one another at the new venue, the Chilliwack Heritage Park.

Exhibit space is selling quickly as this will surely be Western Canada's most comprehensive event for the heavy construction industry and offers the best of both worlds... a vast indoor trade show full of the latest products, services and heavy iron... PLUS the opportunity to see these machines live and in action in the on-site DEMO ZONE!

The DEMO ZONE will provide a platform for suppliers, manufacturers and distributors to showcase how their heavy equipment works. It will enable users to familiarize themselves with the advanced features and amazing capabilities of the different brands of heavy construction equipment available to the industry today.

Source: Master Promotions

#### GE CANADA CHOOSES ONTARIO TO BUILD SMART GRID INNOVATION CENTER

Ontario's power grid is about to become smarter, more efficient and more reliable.

Through a partnership with the Ontario government, GE Canada is establishing the GE Grid IQ™ Innovation Centre in Markham. The new center will develop and manufacture smart grid products and services to help Ontario's power grid: detect outages and automatically reroute power to downed areas, manage the shutdown of downed power lines to increase safety and reduce fire hazards, and keep critical organizations running if there is a power disruption.

Over time, smart grid technologies will provide Ontario families with the ability to control their power usage from the comfort of their home, office, cottage, or any place that has an internet connection.

This new global center of excellence will develop and manufacture smart grid products and services for Ontario – and the world. It will ensure Ontario's ability to compete on a global scale by providing

the province with cutting edge smart grid technology. This is an important part of the province's five-year Open Ontario plan to create new job opportunities and promote economic growth in the province's clean energy economy.

Over the next four years, GE expects to spend \$18.5 million in R&D-related activities, developing its products and services.

Ontario is providing \$7.9 million towards the project, and GE is investing \$40 million.

The center will also include a smart grid demonstration center and lab facility which will be used to showcase their products and services to customers.

GE is a recognized leader in the development of innovative clean energy technologies and products and employs more than 5,000 people across Ontario.

In September 2009, GE Canada and the Ontario government signed a Memorandum of Understanding to support substan-



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tial long-term investments.

GE's primary customers for the products developed are utilities. They currently are working with Hydro One on a project in Owen Sound.

Source: GE Canada

Ontario Ministry of Economic Development and Trade

### **CONCRETE PAVEMENT LASTS LONGER, SAVES MUNICIPAL TAXPAYERS MONEY**

A new independent study released recently by the Cement Association of Canada (CAC) and the Ready Mixed Concrete Association of Ontario (RMCAO) for the first time provides municipalities with the reference information they need to effectively compare the costs of concrete and asphalt pavements of equivalent design over their respective lifecycles. Intended as a resource for municipal engineers

and roadway consulting engineers, the report, Methodology for the Development of Equivalent Pavement Design Matrix for Municipal Roadways, addresses the new reality of increased focus on both long and short-term cost efficiencies and establishes the lifecycle cost advantage of concrete pavement. It was commissioned by the two associations and prepared by the international consulting firm Applied Research Associates, Inc. (ARA).

The study provides the details behind the development of a comprehensive matrix of equivalent concrete and asphalt pavement designs for various traffic levels and subgrade strengths. It also identifies the anticipated maintenance required on the pavement structures over a 50 year period and the corresponding lifecycle cost.

The pavement designs presented in

the study were developed using the Mechanistic Empirical Pavement Design Guide (MEPDG) software, a robust design procedure that takes detail traffic data, environmental data and material properties of the concrete, asphalt and base / subbase materials to evaluate the performance of identified asphalt and concrete structures over a 25 year design life.

Methodology for the Development of Equivalent Pavement Design Matrix for Municipal Roadways is available on the websites of both associations, at [www.cement.ca](http://www.cement.ca) and [www.rmcao.org](http://www.rmcao.org).

Source: Ready Mixed Concrete Association of Ontario

The Cement Association of Canada

### **MANITOU AND GEHL COMBINE FORCES TO "STRENGTHEN THE FOUNDATION"**

Manitou North America and Gehl Company are pleased to announce their new combined organization, Manitou Americas. After unifying the sales and marketing team last September, and progressing on processes and systems since then, both entities have legally merged at the end of March. The newly-created Manitou Americas will support Gehl, Manitou, Mustang and EDGE brands and their respective dealer networks with state-of-the-art R&D and manufacturing facilities in Wisconsin, South Dakota and Texas.

Source: Manitou Americas

## **CFT Delivers its 2,000<sup>th</sup> Deduster**

At the end of the 2010, the German company CFT GmbH, a leader in dust collection in mining and tunnelling, delivered its 2,000<sup>th</sup> deduster to Sandvik Mining and Construction.

The machine is installed on a continuous miner used at Südwestdeutsche Salzwerke AG's rock salt mine in Heilbronn, Germany. The CFT-Hoeko-Vent scrubber has a suction



capacity 1,300 m<sup>3</sup>/min and an efficiency of 99.5%. The required negative pressure is created by a contra-rotating axial fan produced by Korfmann Lufttechnik GmbH.

CFT is a system provider of dedusting and ventilation technology for the basic industries, including mining and tunnelling. Ranging from project planning and design to the point of assembly and service features, the company provides service and solutions from one source. Their portfolio covers dry dedusters and wet scrubbers, corresponding fans and additives for dust adhesion.

CFT is a specialist in the removal of respirable dust hazardous to health as well as potentially explosive particles in subsurface industry worldwide, complying with the varying standards.

CFT is present worldwide on all continents, either in person or it is represented by subsidiaries and partners. The company possesses 50-year experience in construction of air purification plants and highly-motivated team that tackles all difficult dedusting tasks.

Source: CFT GmbH

### **SNC-LAVALIN AWARDED MULTI-YEAR PROJECT HUB CONTRACT**

SNC-Lavalin has signed a multi-year Hub contract with BHP Billiton for the execution of potash projects to be developed and built mainly in Saskatchewan. SNC-Lavalin was selected through a competitive process involving other Tier 1 global engineering and construction companies. The Hub involves the establishment of a project execution center where SNC-Lavalin, in partnership with BHP Billiton, will apply uniform standards and leverage efficiencies in the execution of projects in various stages of development.

SNC-Lavalin's mandate includes management of the Hub program and the execution of feasibility studies in the Hub





office. It also includes the engineering, procurement and construction management (EPCM) for the projects once they are approved by BHP Billiton following the study phases. The projects may include any project to be developed in BHP Billiton's Diamonds and Specialty Products Customer Sector Group.

Initially, SNC-Lavalin will complete the Definition Phase (typically known as a feasibility study) for Jansen Phase 1, located near Lanigan, Saskatchewan, for a production capacity of 2 million t/y. EPCM execution is expected to follow in 2012, once BHP Billiton receives the necessary external permits and approves the implementation phase. The full Jansen project is being designed to produce approximately 8 million t/y of potash, and development is expected to occur in three phases. Other infrastructure and related projects include the development of port facilities on the west coast of the U.S.

SNC-Lavalin looks forward to assisting BHP Billiton in its potash and other prospective Hub project development plans.

Source: SNC-Lavalin Group Inc.

## Check and Milsco Deliver Heated Seats to Industrial and Construction Markets

As the demand for creature comforts in off-road applications continues to grow, two established manufacturers are leading the way in delivering heated seats to new markets like compact construction equipment, industrial equipment, small tractors and powersports vehicles.

Seat heater manufacturer Check Corporation and Milsco Manufacturing Company, producers of seating solutions for more than 85 years, are working together to provide durable heated seats that add comfort and warmth to today's industrial and construction equipment.

Check began working with Milsco in 2007 to design a Foam in Place Seat Heater application for Case Construction Equipment's Skid Steer seat.

"We worked hand-in-hand with Check on the shape, materials and foam systems we use to build seats for the construction and agricultural markets, testing seat heater prototypes and verifying the product's performance until we came up with a successful process that created high-quality heated seat cushions for our customer," said Egon Muelder, Heavy Industry Unit manager for Milsco.

Available for a variety of construction, agricultural and off-road equipment, Check seat heater systems are designed to integrate directly into the seats and feature multiple temperature levels for operator comfort. The seat heater elements have passed SAE-J1454 testing for off-road durability tests and are waterproof.

Source: Check Corporation



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# Introducing the All-New Class 8 Western Star 4700

Western Star Truck Sales, Inc. recently introduced its all-new Class 8 vocational truck - the Western Star 4700. The new truck was on display for the first time at the 2011 Work Truck Show, in Indianapolis.

Available in a set-forward and set-back configuration, the 4700 features a 279 cm (110") BBC – the shortest in its class – and is the ideal solution to meet the needs of the dump, mixer, crane, roll-off, sewer vac and plow applications.

"The Western Star 4700 broadens our product line-up to meet the growing needs of value-minded vocational customers who still demand the attributes found in a traditional Western Star truck," said Mike Jackson, general manager, Western Star. "Hand-built with unmatched attention to detail, the 4700 features the same durability, ruggedness and reliability our customers expect from Western Star.

The Western Star 4700 is available with powertrain options that include the Detroit Diesel DD13® engine and the Cummins ISC and ISL engines.

A broad range of transmissions is also



available for the 4700, including the latest Eaton Ultrashift PLUS transmission, and Allison 3000 and 4000-series automatic transmissions.

The steel cab is precision welded, then dipped and protected with a proprietary 17-stage e-coat process for long-lasting

corrosion resistance and superior paint finish. Its newly designed, sloped hood offers outstanding site lines for optimal visibility. Plus, the short BBC, combined with a 55° wheel cut, provides better maneuverability



on tight job sites.

The Western Star 4700 will be available to order in the third quarter of 2011, with targeted delivery in early 2012.

Source: Western Star Trucks Sales, Inc.

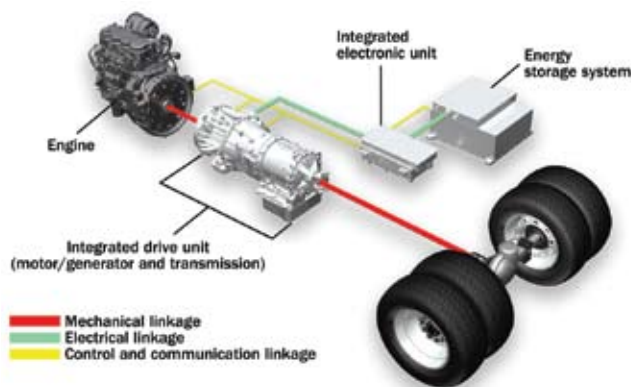
## BAE Systems Launches HybriDrive® Green Parallel Propulsion System for Trucks

At the National Truck Equipment Association Work Truck Show, BAE Systems launched its parallel hybrid green propulsion system for heavy-duty truck applications. The parallel system, designed for Class 6, 7, and 8 vocational trucks, is the latest version of the company's HybriDrive® green propulsion system. The work truck show was held at the Indiana Convention Center from March 8-10, 2011.

The HybriDrive series propulsion system – currently in service on more than 3,000 transit buses in cities around the world – meets the demands of urban transit duty cycles, which require low average speeds and frequent stop-and-go operation. The HybriDrive parallel system is designed to address the needs of vehicles with duty cycles that require higher operating speeds and less

frequent stops.

HybriDrive series and parallel technologies both use simplified and proven components and controls to deliver their



capabilities. While the series system does not use a transmission, the HybriDrive parallel system is based on a single electric machine integrated between the engine and the transmission. The system can be installed with minimal impact to the vehicle, and enhances propulsion through

an optimized blending of internal combustion engine power and electric power. The system's energy management and control capabilities ensure all energy flow – such as propulsion and recuperation – occurs in a highly efficient fashion, resulting in lower fuel consumption and reduced emissions.

The HybriDrive parallel system's power and torque ratings range from 95 hp to 145 hp and 300 – 400 lb ft. The system is designed to support large bore heavy-duty power plants ranging from 350 to 600 hp, with associated torque ratings of 750 to 2150 lb ft.

Buses equipped with BAE Systems' HybriDrive series system have transported more than a billion passengers in cities across North America and in the United Kingdom.

The HybriDrive parallel system, in final stages of development, will see its first road trials this spring and is expected to be deployed in markets around the world in 2012.

Source: BAE Systems



## International Workstar with Sloped Hood Option

Navistar introduced several new features for its International® WorkStar® line of severe service trucks at CONEXPO-CON/AGG. Along with an all-new high visibility sloped hood option, the new WorkStar model will also include a completely refined interior with ergonomic enhancements and improved driver comfort features.

"With the new sloped hood, WorkStar is now available in a comprehensive range of specifications to meet the diverse needs of our vocational truck customers," said Jim Hebe, Navistar's senior vice president, North American sales operations. "Together with the improved visibility and interior enhancements, the WorkStar provides an added level of comfort and convenience that allows these vocational truck drivers to do their jobs safely and effectively."

The new sloped hood option on WorkStar provides best-in-class visibility for the driver. In addition, a strong vocational "mega-bracket" design inspired from the International PayStar® 5900 Set-Back Axle



supports the radiator and front-end.

The International WorkStar 7600 with high visibility sloped hood option features a 113" BBC for maximum maneuverability on the worksite. It provides the best-in-class visibility for the driver. It is available in 4x2 and 6x4 axle configurations and a choice of REPTO and transmission mounted PTO.

In addition to the high visibility sloped hood option, the International WorkStar also features a completely redesigned and

refined interior designed with the construction customer in mind.

The new WorkStar interior features premium rosewood trim on the dashboard and instrument panel, an ergonomic center panel for easy access to auxiliary truck and body control switches, and hands-on steering wheel controls for enhanced driver safety.

Source: Navistar International Corporation

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## Enhancements to Mack's Vocational Truck Lineup

With a focus on continuous improvement, Mack Trucks, Inc. introduced at CONEXPO-CON/AGG a series of enhancements to its industry-leading MACK® Granite® conventional straight trucks and the heavy-haul Titan by Mack model.

Mack debuted a medium heavy duty version of its Granite model. The Granite Medium Heavy Duty (MHD) is designed to meet the needs of customers, like some municipalities, who do not put their trucks through all the rigors Granite models can handle – customers for whom a lighter spec gets the job done.

"In the current economic environment, companies are taking an even harder look at how much truck they truly need," said Curtis Dorwart, Mack vocational products marketing manager. "Our new Granite Medium Heavy Duty delivers just the right amount of Mack's legendary strength, durability and reliability, along with valuable weight and cost savings."

The Granite MHD is available in both



axle-forward and axle-back configurations, is powered by a Cummins ISL9 EPA 2010-certified engine and is offered with an Eaton manual or Allison automatic transmission.

"In recent years, the trucking industry has been hit hard by the worst recession since the Great Depression, but Mack never stopped investing and innovating – it's what our customers expect," said Kevin Flaherty, Mack senior vice president, U.S. and Canada.

*Was. Is. Always will be.* That's Mack. A company founded in 1900, renowned for reliability and durability, and continuing to offer products with that legendary toughness – along with a strong dose of everything else customers today need to stay out in front of their competition.

Source: Mack Trucks, Inc.

## Hino COE Diesel and Diesel-Electric Hybrid Trucks

Hino Motors Canada, Ltd. unveiled a revolutionary addition to its product lineup during The Work Truck Show 2011 in Indianapolis. Hino will offer four models of the newly designed Class 4 and Class 5 cab over engine (COE) trucks. In the class 4 market, Hino will offer the 155 diesel model and the first ever North American class 4 diesel-electric hybrid model, the 155h. The 155 and 155h models will carry a 6,575 kg GVW rating. In the class 5 market, Hino will offer the 195 diesel model and the first ever North American class 5 diesel-electric hybrid model, the 195h. The 195 and 195h models will carry a 8,545 kg GVW rating.

"The new cab over line-up is an exciting addition to the Hino Trucks brand as we strive to provide our customers with a comprehensive offering for their trucking needs," said Sumio Fukaya, president and CEO of Hino Trucks. "With the introduction of this new truck, Hino Trucks is making the diesel-electric hybrid a viable option in the North American commercial truck industry for the first time."

All models are powered by the proven

Hino J05E Series engine. The 5.0 l engine



is rated at 210 hp and 440 lb ft of torque. It is mated to an Aisin A465, 6-speed automatic transmission.

The Hino 155h and 195h Diesel-Electric

Hybrid cab over trucks represent a giant leap for alternative fuel commercial vehicles in North America. Hino developed the world's first hybrid bus in 1991, and has been continuously evolving its hybrid technology ever since. Today, with over 10,000 hybrids in the market, Hino is proud to have manufactured the highest number of hybrid trucks around the

world. The new truck is in fact Hino's sixth generation of hybrid technology.

Source: Hino Motors Canada, Ltd.

Hino Motors Sales U.S.A., Inc.

Looking for more stories, links to manufacturers' websites?  
visit [www.infrastructures.com](http://www.infrastructures.com)



# International TerraStar 4x4 Work Truck

At the National Truck Equipment Association (NTEA) Work Truck Show, Navistar unveiled the International® TerraStar™ 4x4 commercial truck.

Launched last year with a 4x2 powertrain standard, the International TerraStar took the industry by storm in 2010, giving work truck buyers an exciting new product with a wide range of commercial duty features. Now, with a 4x4 option, the TerraStar is poised to win over an even broader range of customers with more severe demands.

The TerraStar 4x4 variant will deliver additional commercial duty capability for a wide range of customer needs, including construction, utility, landscape, and other off-highway applications.

Since its introduction in March 2010 and production launch in October 2010, the International TerraStar has generated significant interest from work truck buyers. To date, the company has received more than 2,000 orders.

At the heart of the new International



TerraStar is its 300 hp, 6.4 l MaxxForce 7 V-8 engine, delivering 660 lb ft torque. The engine is matched with a commercial-duty Allison Optimized™ 1000 Series transmission

While built on a strong and durable commercial-duty platform, the TerraStar is also easy to operate. The TerraStar features best-in-class visibility and interior space. And, with an industry-best 272 cm BBC (107") length, it offers outstanding maneuverability in even the tightest work

environments. The TerraStar is also available with optional extended cab or crew cab configurations.

The TerraStar also delivers unmatched serviceability with a commercial style tilt-away hood that offers unobstructed access to the engine compartment, making routine and scheduled maintenance quick and easy.

Source: Navistar International Corporation



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## New Severe Duty Freightliner Trucks

Freightliner Trucks introduced at CONEXPO-CON/AGG two new Severe Duty (SD) truck models. The new line of SD trucks is designed to serve the Class 7 and 8 vocational markets, providing a set-back axle position (SBA) in both a 108" and 114" BBC configuration.

The 108SD features a 106 cm SBA position with axle ratings that range from 4,500 to 9,000 kg for front axles, and single and tandem rear axles options from 9,500 to 20,800 kg. The 108SD is offered with the Cummins ISB and ISC engine, providing a power range of 200 to 350 hp and 520 to 1,000 lb ft of torque.

The 114SD model features a set-forward axle (SFA) configuration with a standard 78 cm front axle position and optional 75 cm bridge formula configuration, and a (SBA) configuration with a standard 122 cm setting for maximum maneuverability. Front axle ratings on the 114SD are available up to 10,400 kg, and heavy rear axle configurations for single axles are available up to 17,250 kg, tandem axles up to 26,300 kg and tridem axles rated up to

31,300 kg.

All 114SD models are powered by the Detroit Diesel DD13® with BlueTec® Selective Catalytic Reduction technology with a power range of 350 to 450 hp and torque ratings from 1,250 to 1,650 lb ft. The optional lightweight Cummins ISC and ISL engines will also be available, and provide a power range from 260 to 380 hp, and 660 to 1,300 lb ft of torque. A full offering of Eaton manual and automated transmissions along with Allison automatic transmissions round out the SD family powertrain to provide coverage for all vocational applications.

For the municipal market, the flexibility

of the SD product line can accommodate a wide range of specialized applications from sewer vacs, to snowplows and refuse vehicles. And specific to this market, the Cummins ISLG natural gas engine will be offered in the 114SD SBA, providing municipal customers a factory built, environmentally-friendly and low cost of operation vehicle that can be configured to tackle many of the jobs supporting the community.

The 114SD SFA begins production in the second quarter of 2011, with the 108SD and 114SD SBA beginning production by the end of 2011.

Source: Daimler Trucks North America LLC



## Everything You Wanted to Know About Asphalt Paving, But Were Afraid to Ask

The *Asphalt In Depth – Recycled Materials, Warm-Mix Asphalt, and Construction* conference is designed to answer the questions that keep you awake at night. If you want to delve deeper into the issues of recycled materials in asphalt mixes, warm-mix asphalt, and construction practices that affect your business, this is your conference.

The conference will be held June 1 - 2, 2011 in Nashville, Tennessee.

To answer your questions the National Asphalt Pavement Association (NAPA) has assembled the best minds in the industry, including contractors, agencies, consultants, and researchers. Each session will start with a group of industry experts addressing common issues about each subject. Then you will sit down in a roundtable setting with a group of your peers to develop questions for the panel or your fellow attendees to answer. Finally, there will be an open forum during which the panel and audience will address your questions.

Submit your roundtable questions in advance! Start brainstorming about questions you would like answered at the conference and send them to the NAPA Meetings Department before you get to Nashville. Questions submitted before the conference will remain anonymous, but will be distributed at the meeting to help jump start the roundtable discussions.

To submit questions in advance, email [meetings@hotmix.org](mailto:meetings@hotmix.org).

Looking to showcase your products or services within the asphalt industry? Be an exhibitor at the Asphalt In Depth Conference and you will have the opportunity to interact with many potential clients. For more information, contact Nancy Lawler or Sandy Palacorolla at (888) 468-6499.

Source: the National Asphalt Pavement Association





# New Ontario Dealer for Cimline

Cimline Pavement Maintenance Group (CPMG) is pleased to use 2011 CCONEXPO-CON/AGG to announce that Amaco Equipment of Mississauga, Ontario has been appointed the Authorised CPMG Distributor for the province of Ontario.

"It is an excellent fit for us and brings an established equipment house into our network, particularly in such an important territory", according to Rob Holden, National manager for CPMG. "This announcement represents the latest stage in an ongoing distribution review for Canada."

Amaco is a privately owned specialist equipment distribution operation headquartered in the Toronto area and serving the province for over 25 years. Jeff

MacDonald, president and sales manager for Amaco had this to say: "We are very excited at this opportunity to expand our

include the popular Magma Series crack-sealing melter/applicators, Durapatcher and DuraMaxx velocity patching equip-



municipal and contractor equipment offerings. Adding Cimline/Durapatcher to our stable makes us the only full service roads maintenance specialist dealer in Ontario."

CPMG is the operational group of companies which includes Cimline, Durapatcher and Equipt. CPMG is the leading manufacturer of pavement maintenance equipment in North America. Products

ment and Equipt Commercial Sealcoating machinery. Other products include emulsion storage tanks and a range of related accessories for every pavement maintenance job.

Source: Cimline Pavement Maintenance Group



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# Putzmeister Concrete Pump Used to Cool Fukushima

For over 50 years, Putzmeister has been building truck-mounted concrete pumps. They are designed for use in the widest range of concrete applications, such as the construction of bridges or high-rise buildings.

A truck-mounted concrete pump consists of a truck, a support device, a piston pump and a boom with 4 to 6 arm hinges. Putzmeister offers booms with vertical reaches of between 20 m and 70 m. And with the M70, Putzmeister offers the longest boom that is in use in the world.

At the reactor in Fukushima, workers are currently using a M58-5 truck-mounted concrete pump that has a vertical reach of 58 m and a 5-arm boom in order to support the cooling of the damaged cooling pools. The advantage of this is that cooling water can be fed a great distance over the destroyed buildings and can be fed to exactly where it is required.

The pump has an output of 160 m<sup>3</sup>/h

at a pressure of 85 bar and is driven by the truck's diesel engine. This means that it does not have to rely on any external power supply. The machine is operated using remote control which allows the distributor arm to have flexible movement.

The Putzmeister M58-5 that is being used in Fukushima was intended for a customer in South-East Asia and was redirected to Japan so that it could quickly reach the nuclear power plant.

Putzmeister products have already been



*A truck-mounted concrete pump fitted with a lead cover for radiation protection as used in Chernobyl in 1986*

used in previous crisis situations. As a result of this, in 1986, a fire-extinguishing kit was offered as a retrofit on truck-mounted

concrete pumps.

Since then, Putzmeister concrete pumps have continued to prove their



effectiveness, even outside of their original purpose, when crises have occurred.

In 1986, after the tragic accident at Chernobyl, Putzmeister helped to make reactor block 4 safe again at the Chernobyl nuclear power plant. In total, 11 Putzmeister truck-mounted concrete pumps and stationary pumps were used.

Source: Putzmeister Concrete Pumps GmbH

## New Zealand Military Deploys Pall Water System to Quake Damaged Communities

A Pall Corporation mobile water treatment system produced clean drinking water for New Zealand communities damaged by the recent earthquake. The filtration equipment, owned and operated by the New Zealand Military, was deployed as part of its humanitarian efforts to convert drinking water from sea water for residents of Brighton, Lyttleton and Christchurch after the 6.3 magnitude earthquake disrupted the municipal water system. A Pall WTS40 system provided 40,000 l/d for area residents.

The WTS40 system is capable of producing drinking water from almost any raw water source within hours after delivery. Using state-of-the-art hollow fiber and reverse osmosis (RO) membrane technologies, the systems desalinate sea water and transform it into water that is free from harmful bacteria, cysts, and particles. Requiring minimal manpower for operation and maintenance, they enable municipalities, military units and ships at sea to

boost water production on a permanent or temporary basis.

The WTS40 system used in New Zealand incorporated Pall Aria™ microfiltration membranes for pre-filtration and Disc Tube™ reverse osmosis membranes for desalination. Designed to NATO defence standard 00-35, the robust system is housed in two 3 m ISO containers and is shock and vibration qualified for transportation by land, sea or air.

Pall is currently developing the next generation of high-performance, small footprint, skid-mounted systems based



on the successful Pall Aria AT series. The new WTS is capable of making water anywhere at pre-engineered flow rates and is mounted in a container for maximum portability.

Source: Pall Corporation



# MFM Building Products Unveils New Peel & Seal® Retail Pack

MFM Building Products, a manufacturer of a full envelope of waterproofing and weather barrier products for the building industry, is pleased to introduce Peel & Seal® in a new Retail Pack complete with a Point-of-Purchase display unit.

Peel & Seal® is the original, self-stick roll roofing waterproofing membrane specifically designed for low-slope/low-pitch residential and commercial applications. Traditionally, Peel & Seal® was only available in contractor cartons. In a move to help distributors and building supply stores increase sales, the company has introduced individually-wrapped and labeled 15 cm by 7,6 m rolls of Aluminum Peel & Seal®. The Retail Pack contains 6 rolls of Peel & Seal®. A POP display unit is also available that can accommodate six contractor cartons and a shelf to display six individually-wrapped rolls of Peel & Seal®.

According to Tony Reis, MFM Sales & Marketing Director, "Labeling Peel & Seal® for the retail segment allows the distributor to display the product for better visibility instead of sitting in the warehouse. The full color label is designed to sell the product, and contains complete installation instructions and application photos. The goal is always to

help our customers sell more product."

Peel & Seal® 15 cm material is the ideal solution for hundreds of difficult waterproofing areas. These include dormers, sunroom additions, mobile homes, and flashing around chimneys, vents and other irregular features. Peel & Seal® is self-adhering, self-sealing and installs with just a utility knife and hand roller, making it DIY-friendly.

Peel & Seal® is also compatible with EPDM when utilizing MFM's WeatherBond™ Primer. Peel & Seal® comes with a 10-Year Limited Warranty.

Source: MFM Building Products



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# The Enveloppe, Please...

The five winners of the 2011 Alberta Steel Design Awards of Excellence have been announced in the Alberta Ballroom of Northlands Edmonton Exposition Centre.

The winners were applauded by hundreds of engineers, architects, contractors, construction owners, government and industry leaders who are gathered for the biggest celebration of steel design in Canada.

The biennial CISC Award celebration promotes the structural steel industry within the Alberta region and across Canada by recognizing exceptional talent and ingenuity in steel design and the innovative use of steel in addressing a variety of construction challenges. This year's outstanding winners embody the theme of the 2011 event: *Advantage Steel ...Building an Iconic Future.*

The 2011 awards drew 45 project submissions, making it the most diverse and exciting display of steel design and construction ever assembled in the event's history. From bridges to fabrication plants to iconic urban buildings, these designs represent the state-of-the-art in architecture, engineering, fabrication and sustainability in the steel construction industry.

## AND THE WINNERS ARE.....

Art Gallery of Alberta, winner of the 2011 Architectural Award

The project, on the edge of Edmonton's downtown Churchill Square, is a renovation of the existing concrete building to create expanded, flexible, museum



quality space for the gallery's permanent collection and major traveling exhibitions. The renovation consisted of a two-story vertical addition above the existing building to contain gallery space and offices, and the addition of an atrium that exhibits the creative and dramatic use of steel to invoke the borealis.

The Bow, winner of the 2011 Engineering Award

The Bow, the iconic crescent shaped office tower rising on the east side of Calgary's downtown core, has provided a spectacular show for Calgarians during its construction. Spectators might not have realized they are also witnessing a North American first.

The Bow is unique on the continent in its application of a triangular steel diagrid system to a curved building. The diagrid,



composed of six-storey high diagonal elements, creates a perimeter frame of linked equilateral triangles curved to match the bow of the building on the north and south faces.

Dawson Bridge Rehabilitation, winner of the 2011 Sustainability Award

While Edmonton's Dawson Bridge has been in service for nearly 100 years, innovative technology has turned it into a modern world leader.

Shell Canada Energy Reactor Building Modifications, winner of the 2011 Industrial Award

As industrial construction goes, designing and building overhead crane runway support systems is nothing out of the ordinary.

But the project to retrofit the Shell Canada Energy Reactor Building into a fabrication facility presented



the design-build team with unique challenges requiring creative design and installation solutions.

Whitemud Drive/Quesnell Bridge Rehabilitation, winner of the 2011 Steel Edge Award

The Quesnell Bridge is located on Edmonton's busiest traffic corridor, the Whitemud Freeway, with volumes of more than 120 000 vehicles per day. When this section of the freeway needed widening, rerouting that traffic onto a detour was not an option. This presented a particular challenge with respect to widening the bridge.

CISC congratulates the winners, and all of the finalists for the 2011 Alberta Steel Design Awards of Excellence!

Source: Canadian Institute of Steel Construction





## New Link-Belt® X3 Series Excavators

In 2011, LBX will introduce five new Link-Belt X3 Series Excavators beginning with the 250-, 300- and 350-class machines, followed mid-year by the 250 Long-Front and 470-class excavator. The X3 Series full-sized conventional models have been completely redesigned with an all new ROPS certified cab and interior, new Interim Tier 4A engine technology and up to 10% better fuel efficiency, more lift capacity, faster cycle times and improved serviceability.

Isuzu engines deliver unparalleled performance and power to respond to peak demands of heavy digging and lifting applications. The new family of engines powering the X3 series is EPA certified to Interim Tier 4A standards utilizing cooled exhaust gas recirculation (CEGR) and diesel particulate filter technology (DPF). With "passive regeneration" to maintain cleanliness of the particulate filter, this emission reduction technology does not require daily maintenance like that of a



Selective Catalytic Reduction (SCR) system. A new variable-geometry turbocharger provides high velocity air flow at lower rpm for clean, efficient combustion and power even when performing precision tasks at slower speeds.

Refinements to the X3 Series hydraulic system have resulted in gains up to 6% in lift capacity and up to 5% faster cycle times. Many of the innovative hydraulic

features of generation's past have been carried through to the new X3, including the smooth functionality of the open-center design. A new feature, which automatically adjusts pilot pressure, provides additional regenerative properties for efficient flow while reducing system pressure loss and heat build-up.

Source: LBX Company, LLC



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# Record Transport in India

India's leading transport company, Lift & Shift, recently set a new record using NICOLAS vehicles with the transportation of the longest rectification column ever manufactured in the country. Lift & Shift has been relying on transport vehicles from NICOLAS Industrie SAS, based in Auxerre, France, for over 27 years now.

Technology company "The Linde Group" and its partner "Samsung Engineering" in Korea, were awarded the order for the turnkey construction of an ethylene production plant in Dahej, India. The client is the Indian energy company OPaL (ONGC Petro additional Ltd.), a subsidiary of the government-owned ONGC (Oil and Natural Gas Corporation Ltd.). The plant is part of a new petro-chemical complex which is currently being built in Dahej in the Indian state of Gujarat and, after completion in 2012, will be one of the world's largest ethylene production facilities. "The Cracker" has been designed to produce 1 million t/y of ethylene and 360,000 t/y of propylene.

The Mumbai-based Indian transport business, Lift & Shift, took on the responsibility for the logistics of this large-scale project. One of the rectification columns, 125 m long and weighing 1,350 t, was the largest ever produced in India. Along with a range of other components, the gigantic structure was transported to Mumbai by means of a seagoing pontoon. This was followed by another sea journey from Mumbai to Dahej whereby Lift & Shift had to provide customized lashing equipment as the load



An additional 1,000 t rectification column on 48 NICOLAS MHD SPE axle lines.



Roll-off of a 1,350 t rectification column with 64 NICOLAS MHD SPE axle lines. Transportation then continues along the final 1 km to the ethylene plant in Dahej.

## Long-Term Cooperation

NICOLAS Industrie SAS in France and India's leading transport company, Lift & Shift, can look back on a successful longstanding business relationship. In the vehicle fleet of the Mumbai-based specialist haulage company are a total of 224 axle lines for heavy load equipment, all of which has been supplied exclusively by NICOLAS.

As Lift & Shift used NICOLAS vehicles for the first time in 1984 brought

about through the acquisition of another large transport company, the trusting and fruitful relationship with the French vehicle manufacture was sealed.

Additional large orders followed in 1997, 2003, 2008 and 2010. Down to the present day, numerous spectacular transport projects have been realized with this transportation equipment.

Source: NICOLAS Industrie SAS



was positioned 20 m above the pontoon during the 190 NM (350 km) trip. The transshipment point in Dahej, which had been specially constructed by Lift & Shift for this project, was reached after 36 hours.

For the roll-off procedure of the oversize columns, Lift & Shift relied on proven NICOLAS vehicle technology. The 125 m long and 1,350 t rectification column was moved on 64 NICOLAS MHD SPE axle lines (self-propelled including power pack unit) whilst another 13 m long column weighing 1,000 t was transported on 48 NICOLAS MHD SPE axle lines to their final destination, the ethylene plant in Dahej. On the 1 km-long route, the total combination had to negotiate one 180° turn as well as two sharp 90° bends.

This represented no problem for the self-propelled NICOLAS transporter. The hydrostatically driven and electronically steered modular transporters have a steering angle of 135° with which the load can be moved using standard, circle, diagonal and transverse steering modes.

SCHEUERLE, KAMAG and NICOLAS are recognized across the world for their advanced technology and special product quality. They are part of TII Group - Transporter Industry International.

Source: NICOLAS Industrie SAS



# Hitachi Zaxis Dash-5 Excavators Debut

The first fruits of an exciting new crop of Hitachi orange excavators took their inaugural bow at CONEXPO-CON/AGG: the ZX290LC-5 and the ZX870LC-5. These two models represent the first two waves of Dash-5 Excavators to roll out this year. The ZX250LC-5, ZX290LC-5, and ZX350LC-5 will be the first to arrive at dealers. The ZX470LC-5, ZX670LC-5, and ZX850LC-5 will launch later this summer. Other utility- and construction-sized models, including wheeled and ultrashorts as well as compacts, will roll out at a later date.

The ZX Dash-5 Series incorporate customer-driven features sure to provide superior durability and productivity while keeping operating costs low.

Thanks to optimized hydraulics, the excavators have improved arm digging force, bucket digging force, lift capacity, swing speed, swing torque, hydraulic flow, engine horsepower, and drawbar pull.

The roomier cab offers a better visibility.

The IT4 Isuzu cooled EGR engine



platform is less complex to maintain than selective catalytic reduction systems while delivering the productivity, fuel efficiency, and reliability customers have enjoyed with Tier 3 models. A new exhaust filter consists of a diesel oxidation catalyst/ diesel particulate filter. It requires no daily attention due to its 5,000 h service life.

Features that have been retained from

the Dash-3 Series include the boom, arm, and track options, and the hydraulics and electrical components. The short-throw low-effort pilot controls are still a dream to operate. And operators can be assured of the same smooth operating control and responsive multitasking capabilities.

Source: Hitachi Construction Products



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## First Kleemann for Pinden Group

Pinden Limited, of Dartford, Kent, United Kingdom, has taken delivery of its first Kleemann crusher after many years of operations using machines from a competing brand. The Mobicat MC 110Z is one of a range from the Kleemann stable, which is sold in the UK by Wirtgen Limited. Pinden director, Steve Bishop, says the company opted for a change despite the machine's higher cost, because of Kleemann's reputation for superior build quality and its potential to deliver significant lifecycle fuel and other savings.

"We had the machine on demonstration, first," says Mr. Bishop. "We were convinced we could make considerable savings in fuel consumption over the lifetime of the machine. We also found the output to be higher, and the quality of product was better, than previous machines. Normally we would replace our crushers after three years; we expect to get five years from the Kleemann, with lower component replacement costs over that time. Wear parts are of a much better quality." The Kleemann features a pre-screen which reduces fines before crushing, greatly reducing wear on the machine's manganese steel jaws.

The Dartford firm is part of a group of companies which include Syd Bishop and Sons (Demolition) Limited. Its Pinden quarry is the site of one of the region's largest processors of demolition waste for the construction industry, producing 6F1/6F2 materials for roads and other applications in accordance with WRAP specifications. Crushing facilities have to respond quickly to rising seasonal demand or peaks resulting from large individual projects. "We learned from the demo that the machine was capable of very high productivity. In fact one shovel alone couldn't keep up with it," says Mr. Bishop. "It means that, when demand is high, we can step up the output as necessary. The machine is also good from a dust-suppression point of view, which is important, as the site is regulated by the Environment Agency, being a receiver of hazardous waste."

Kleemann southern area sales manager, Aidan Gillic, estimates the Mobicat should be good for annual fuel savings of up to £15,000 (\$23,000) compared to competing machines. He says fixed jaw life could exceed 2,000 hours before replacement.



"The geometry of the jaws also makes for a better end-product, which is easier to compact. The Mobicat hopper, crusher and discharge conveyor arrangement allows a smoother flow of material than others on the market. There's less tendency for blockages. In addition, the magnet is hydraulically adjustable; the magnet remains parallel to the belt."

The Mobicat track-mounted single toggle jaw crusher is designed for pre-crushing natural stone and mineral construction waste for reuse. With a crusher inlet size of 1100 x 700 mm, the Mobicat 110 Z is equally at home in quarrying or recycling operations. With its easy to transport size and weight of 45-50 t, it has the largest scope of application of all mobile jaw crushers. The independently vibrating double deck pre-screen can be equipped with different meshes, according to the application. That way, pre-screen material can bypass the crusher or be stockpiled by the left or right side-mounted discharge conveyor belt, giving flexibility on construction

sites where space is at a premium.

A 355 hp low fuel consumption, low noise and low pollution diesel engine, flange mounted hydraulic pumps and a coupled electricity generator deliver the power for the crusher and the electric drive for the belt, conveyors, conveying chutes, and screens.

A Siemens PLC control system with LCD display for manual and automatic operation come as standard on the Mobicat. A vibration-isolated, double switch cabinet housing and built-in overpressure system, along with connections for control cable to interlock auxiliary machinery and socket outlets for 230 and 400 V components are provided.

Optional features include an electric or permanent magnetic separator and, on the 110, a single deck, longitudinally tensioned, large area vibration screen that can be hydraulically lowered for mesh replacement for quick changeover.

Source: Kleemann GmbH

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# MICHELIN XDR™2 Tire for Rigid Dump Trucks

At CONEXPO-CON/AGG, Michelin Earthmover unveiled the long-awaited MICHELIN® XDR™2 tire for severe mining and quarry applications. The tire – designed for rigid dump trucks – offers up to 20% more tread life than its predecessor, the MICHELIN XDR™ tire. The XDR2 tire is available in a 27R49 size. Additional sizes will be available later in the year.

In addition to the increased tread life, the XDR2 tire also delivers up to a 10% thicker undertread between the protective plies and tread base for better cut and impact resistance. With a new self-cleaning tread pattern, the XDR2 tire combines full-depth blocks, a 13% larger central lug (compared to XDR tire) and the new non-directional design to provide increased protection against aggressions and cut separations. The evolving tread design provides an increased contact patch as the tire wears, while sculptured cooling vents help keep running temperatures low.

The XDR2 tire also incorporates



Michelin's C2 Technology in the casing to provide an overall cooler operating temperature to maximize the potential life of the tire without compromising operating speed or load carrying capacity.

The XDR2 tire also demonstrates Michelin's commitment to conserving natural resources by using advanced design techniques to use nearly 10% less

materials than the leading competitive tire 49" OTR tire. The reduction in materials used means fewer materials need to be recycled, and the lighter tire weight also provides additional fuel savings. The tires are produced in ISO 14001 certified facilities and are free of aromatic oils.

Source: Michelin

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## Seven New Skid Steer Loaders From New Holland

New Holland Construction introduced seven skid steer loaders at CONEXPO-CON/AGG. With the new 200 Series, New Holland maintains the best-in-class forward dump height and reach with the Super Boom® loader vertical lift design – and introduces breakthrough productivity improvements. The new skid steers culminate five years of customer research, design and engineering improvements.

The new self-leveling bucket feature on the five models with the Super Boom design allows attachments to maintain the preset location throughout the lift cycle.

For long load and carry operations, the optional Glide Ride feature on the five New Holland skid steer loader models with the Super Boom design ensures a smooth ride over the roughest job site. The New Holland L218, L220, L223, L225 and L230 have engines rated from 57 hp to 84 hp and operating weights of 2,660 kg to 3,765 kg.

New Holland also offers two compact models featuring a radial lift design,



providing excellent digging performance.

The L213 is rated at 43 hp, with a rated operating capacity of 590 kg and a bucket breakout force of 18.5 kN. The L215 is rated at 49 hp, with a rated operating capacity of 680 kg and a bucket breakout force of 18.5 kN.

The New Holland cab is the widest, most comfortable cab in the industry, providing more head and foot room, and offering superior visibility in critical zones.

Stability is an important part of being

productive on the job site. The increased wheelbase on the New Holland 200 Series skid steer loaders allows operators to lift and haul more material, increasing productivity.

New Holland offers more than 50 skid steer loader attachments to handle countless construction, landscaping or agricultural jobs. The 200 Series skid steer loaders also include proportional auxiliary control as a standard feature on all models.

Source: New Holland Construction

## JCB Launches New Skid Steer and Track Loaders

JCB has launched a new line of skid steer and compact track loaders. These new generation machines are the first to not only be manufactured but also designed and engineered at the company's North American headquarters in Savannah, Georgia.

JCB is introducing a range of seven new vertical lift loaders that will eventually grow to 18 models, including both radial and vertical lift, ranging from 590 to 1,585 kg.

"North America generates 60% of the worldwide demand for skid steers and compact track loaders, so developing and producing the new generation of machines in Savannah makes perfect sense and has enabled us not only to meet the unique needs of the North American market but also develop a machine range that will have universal appeal," said John Patterson, JCB deputy chairman.

The new vertical lift machines showcase JCB's unique "PowerBoom" design, which uses a single arm, rather than the conventional two arm skid steer design. The JCB

models do not require a torque tube across the back of the machine. Thus, operators can enjoy an unobstructed rear view and nearly 360° visibility for unmatched job site safety. To further enhance visibility JCB has eliminated the mesh screen around the cab and replaced it with laminated glass.

The new generation machines have a larger entry door and a 17% larger cab than previous models. JCB has also introduced multifunction joystick controls and an optional heated air-suspension seat with adjustable armrests, making JCB's skid steers incredibly comfortable to operate. Redesigned control panels have been relocated from the lower console to the panels at the top of the cab to be within the operator's line of sight. Operators will also enjoy a quieter cab with noise levels at a very low 76 dBA, an 85% improvement.

"JCB has never shied away from innovation," Mr. Patterson said. "Back in 1993, we introduced the industry's first single-arm, or 'monoboom' skid steer, a safer, more productive machine that was based upon the same engineering principles as



a telescopic handler, which also operates with a single arm. What seemed uncommon to others, JCB saw as common sense, and took the intelligent design of telescopic handlers and applied it to skid steer loaders. Our New Generation skid steers and track loaders embody this same spirit of innovation while taking performance, productivity and safety to an even higher level."

Source: JCB North America



# SSAB Presents Innovation and Expertise at CONEXPO-CON/AGG 2011

At CONEXPO-CON/AGG, SSAB presented innovative applications of high strength steel and wear plate. Exhibits included an Arc Design dumper body (Hardox wear plate), a lightweight truck trailer/chassis model (Domex high strength steel), and a Hardox Wearparts display showcasing wear parts for the construction, aggregates and yellow goods industries.

## LIGHTER, STRONGER DUMPER BODIES

Arc Design is an SSAB-patented innovative convex dumper design that cuts tare weight while increasing service life of dumper bodies. It combines the flexibility of the conventional dumper with the light weight of the half-pipe dumper. The key feature is a convex floor made of Hardox wear plate which absorbs impacts, increasing durability and preventing cracking. The design – which is particularly suitable for dumpers that transport sand, gravel, rocks and scrap. The convex bottom is made by roll-forming Hardox 450 wear plate. This design protects the dumper's underlying structure from damage, such as dents from large rocks. Compared to half-pipe dumpers, the new design allows increased volume, while being lighter and stronger than conventional box dumpers. The reduced weight means the Arc Design dumper can carry heavier loads, which means fewer trips.

Volvo Trucks is currently testing the Arc Design on its new Volvo FMX truck, built for heavy construction activities. As part of the testing process, Volvo Trucks is providing customers with Arc Design prototypes in various Russian regions for two-week trials. So far customer feedback on performance has been very positive, with Volvo hoping to achieve its target of increasing dumper body payload by 500 kg. As an added bonus, Arc Design also allows hot engine exhaust to be passed through the space below the convex floor to prevent materials adhering.

## LOWER COST AND WEIGHT

An all-new lightweight chassis design for trailers increases payload capacity, simpli-

fies production and improves torsional rigidity.

The design is based on the idea that trailer construction should take full advantage of the properties of high-strength structural steel to offer significantly improved performance. SSAB engineers have built a trailer without a conventional frame. Instead, they focused on optimizing the benefits offered by Domex 960 – SSAB's 4 mm hot-rolled high-strength structural steel – by designing a self-supporting monocoque chassis. The new chassis consists basically of two halves. Plates are laser cut before bending. Longitudinal profiles can be used at the top and bottom of the trailer to handle forces resulting, for example, from tipping a trailer full of gravel.

In addition to clear benefits for users, the design also reduces production time and cost: There are only two longitudinal joints,



which means greatly reduced welding work and far fewer components while facilitating the economical use of using robotic welding and laser hybrid welding.

## FINDING THE OPTIMUM HARDOX FOR THE JOB

After five years of development, last year SSAB announced WearCalc 2.0, an application which allows quick and easy calculation of the relative service life of abrasion-resistant spare parts. Combined with a comparison of material and production costs, the application allows quick selection of the optimum materials for the job. WearCalc 2.0 predicts erosive and impact wear as well as sliding wear for all types of Hardox wear plate.

The erosion model is based on published research as well as on SSAB



research with aggregate and large rocks. At macro level, WearCalc 2.0 predicts whether makeup of the abrasive materials will cause edges to penetrate the steel surface or to break. At micro level, the model uses mineral hardness to calculate erosion on different types of wear plate.

## OPTIMIZED WELDING AT YOUR FINGERTIPS

WeldCalc makes decades of welding experience available in a web-based application, helping users optimize both welding procedures and the result. WeldCalc 2.0 includes recommendations for Hardox, Domex and Weldox steels and combinations of different grades. The intuitive user interface and the new export function mean even easier calculation and application of results.

The user enters the desired mechanical properties, welding process and plate materials involved. The software calculates a tolerance envelope showing the permissible heat input, and both working and interpass temperatures.

The new version of this well-established software allows users to save or export results. Logs can be opened, edited and saved again. WeldCalc 2.0 is web-based, ensuring that users are always using the latest version.

## MEET THE EXPERTS

Whether you are trying to meet new fuel-emissions guidelines, increase the strength, wear-resistance or service life of your equipment, or reduce the tare weight of vehicles to increase payload, SSAB's experts have the answers.

Source: SSAB Americas

# Appointments

Manitowoc has announced that **Scott Keckler** is the new vice president of **Manitowoc Crane Care, Americas**. In this role, he will provide strategic planning, direction and management for all of the Americas Crane Care teams and will report to Bob Hund, executive vice president of Crane Care worldwide.

Mr. Keckler joined Manitowoc Cranes in 1988 at the company's Shady Grove, Pennsylvania facility. Throughout his career with the company, he has held a number of positions, including training assistant, government parts and publications, technical writer, supervisor of technical publication, supervisor of parts administration, and most recently director of customer support.

He replaces Dave Hardin, who has taken on support development responsibilities within Manitowoc Crane Care.

Source: The Manitowoc Company, Inc.



**Genrep Ltd/Ltée** would like to announce that **Don Poyntz** has joined the TEAM!! As a Power Products specialist, Mr. Poyntz will be responsible for promoting Genrep product and service offerings in Ontario, North of Barrie.

Jerry Curtis, manager of the Toronto Branch, says "Don is a welcome and necessary addition to our sales team. We've seen the activity in this territory increase and feel it is time to dedicate a full time representative to better serve the needs of our growing customer base. We look forward to expanding our business in Northern Ontario and building solid relationships with our customers."

Genrep represents five product lines: Seneca Power Generation, FPT Engines, Mitsubishi Engines, Doosan Engines, and JD OEM Engines.

Source: Genrep Ltd/Ltée, (905) 502-9950



The **International Slurry Surfacing Association (ISSA)** has named **Pierre Peltier**, general manager of Marketing & Business Development at Terry Asphalt Materials, Inc., as its 2011-2012 president. He will use ISSA's "Preserving Roads: Smart Now & Tomorrow" outreach program to show how pavement preservation extends the life of roads, saves money and is environmentally sustainable. He also plans to establish the chip sealing and crack treating processes as sound



practices by helping ISSA's Chip Sealing and Crack Treatments committees finalize work on creating guidelines that explain each process and its application.

Mr. Peltier has more than 30 years of experience in the pavement preservation industry. He started his career in the late 1970s with Ballou Pavement Solutions, one of the first companies to bring microsurfacing to the United States. He also worked several years for Koch Pavement Solutions providing job site support and training for contractors as well as traveling across the country promoting microsurfacing.

Founded in 1963, the International Slurry Surfacing Association (ISSA) is a nonprofit association dedicated to the interests, education and success of slurry surfacing professionals and corporations around the world.

Source: International Slurry Surfacing Association

**Genrep Ltd/Ltée** would like to announce that **Rick Frise** has joined the TEAM!! As the manager of Rental Solutions, Rick will be responsible for the development of the rental business in the Greater Toronto Area and surrounding areas.

Jerry Curtis, manager of the Toronto Branch, says "the timing couldn't be better; we have just moved into a new facility situated on 1.3 ha in the heart of Mississauga which will be a key component in expanding our rental fleet. That, coupled with Rick's 10+ years and stellar reputation in the business, is going to make 2011 a very exciting year."

Source: Genrep Ltd/Ltée, (905) 502-9950



## Genrep Ltd/Ltée Has Moved

The Genrep Ltd/Ltée Toronto location has moved from 264 Watline to 121 Watline Avenue. This new facility is 3,500 m<sup>2</sup> and has a 1.3 ha fenced-in lot. "The move was necessary to accommodate our business growth and continue providing our customers with the high quality of service they expect" commented David Pali, director of Operations & Marketing. "It's very convenient moving 2 blocks away and it's also very rare to find this much land in the city!"

Genrep will use this facility as the main distribution warehouse for its 5 product lines: Seneca Power Generation, FPT Engines, Mitsubishi Engines, Doosan Engines, and JD OEM Engines.

Source: Genrep Ltd/Ltée, (905) 502-9950





# OGRA Welcomes New President

On March 2, 2011 **John Curley**, Councillor, City of Timmins assumed the presidency of the **Ontario Good Roads Association (OGRA)**. John has served on the OGRA Board of Directors since February 2004 and took over the position at the Association's Annual Conference in Toronto.

"Ontario Good Roads Association is a well respected organization which represents the infrastructure and transportation issues of the 444 municipalities and First Nations in the Province of Ontario. One of the exemplary qualities you will find with this Board is the dedication to its member-

ship on issues that impact all of us." said Mr. Curley.

Since 1991, John Curley has held several positions on Timmins City Council including Chair of Public Works. He currently represents Ward 2 as Councillor.

Joining Mr. Curley on the Executive of Good Roads is newly elected 1<sup>st</sup> vice president **Alan Korell**, Managing Director/ City Engineering, City of North Bay, and 2<sup>nd</sup> vice president **Joanne Vanderheyden**, Mayor, Municipality of Strathroy-Caradoc and Warden, County of Middlesex.

Mr. Korell has served as an OGRA Board

of Director since 2005 and Ms. Vanderheyden since 2007.

Paul Johnson, operations manager, County of Wellington, will continue to serve on the executive committee in the position of immediate Past President.

The Ontario Good Roads Association represents the infrastructure interests of municipalities through advocacy, consultation, training and the delivery of identified services.

Source: Ontario Good Roads Association

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## Agenda

**ROOFTech 2011 - The Canadian Roofing Exposition**  
 April 12 - 13, 2011  
 Montreal, QC Canada

**AQEI 2<sup>nd</sup> Annual Congress**  
 April 21 - 22, 2011  
 Mont-Tremblant, QC Canada

**wat + WASSER BERLIN INTERNATIONAL**  
 May 2 - 5, 2011  
 Berlin, Germany

**APOM Technical Day**  
 May 6, 2011  
 Dorval, QC Canada

**Canadian Fleet Maintenance Seminar (CFMS)**  
 May 9 - 11, 2011  
 Toronto, ON Canada

**Expomatec Spain 2011**  
 May 17 - 22, 2011  
 Madrid, Spain

**WINDPOWER Conference & Exhibition**  
 May 22 - 25, 2011  
 Anaheim, CA USA

**The Pacific Construction Equipment Show**  
 June 3 - 4, 2011  
 Chilliwack, BC Canada

**2011 International Bridge Conference®**  
 June 5 - 8, 2011  
 Pittsburgh, PA USA

**2<sup>nd</sup> International Rental Exhibition (IRE)**  
 June 7 - 9, 2011  
 Amsterdam, The Netherlands

**AORS Municipal Trade Show**  
 June 8 - 9, 2011  
 Kitchener, ON Canada

**APOM Technical Day**  
 September 9, 2011  
 Lévis, QC Canada

**APEX 2011**  
 September 14 - 16, 2011  
 Maastricht, The Netherlands

**IndiaBuild**  
 September 15 - 17, 2011  
 New Delhi, India

**Expo-Paysages (Outdoor Landscaping Exhibition)**  
 September 16 - 17, 2011  
 Saint-Liboire, QC Canada

**ICUEE - The International Construction & Utility Exposition**  
 October 4 - 6, 2011  
 Louisville, KY USA

**WaterSmart Innovations Conference and Exposition**  
 October 5 - 7, 2011  
 Las Vegas, NV USA

**Atlantic Heavy Equipment Show**  
 March 29 - 30, 2012  
 Moncton, NB Canada

**INTERMAT**  
 April 16 - 21, 2012  
 Paris, France

**DEMO International® 2012**  
 September 20 - 22, 2012  
 Saint-Raymond, QC Canada

**Bauma 2013**  
 April 15 - 21, 2013  
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## SEMINAR HIGHLIGHTS

Welcome Reception Monday, May 9  
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Trade Show/Outside Display

Tuesday Speaker - Allison Graham

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Seminar Banquet Wednesday, May 11

Wednesday Speaker - Terry Evanshen

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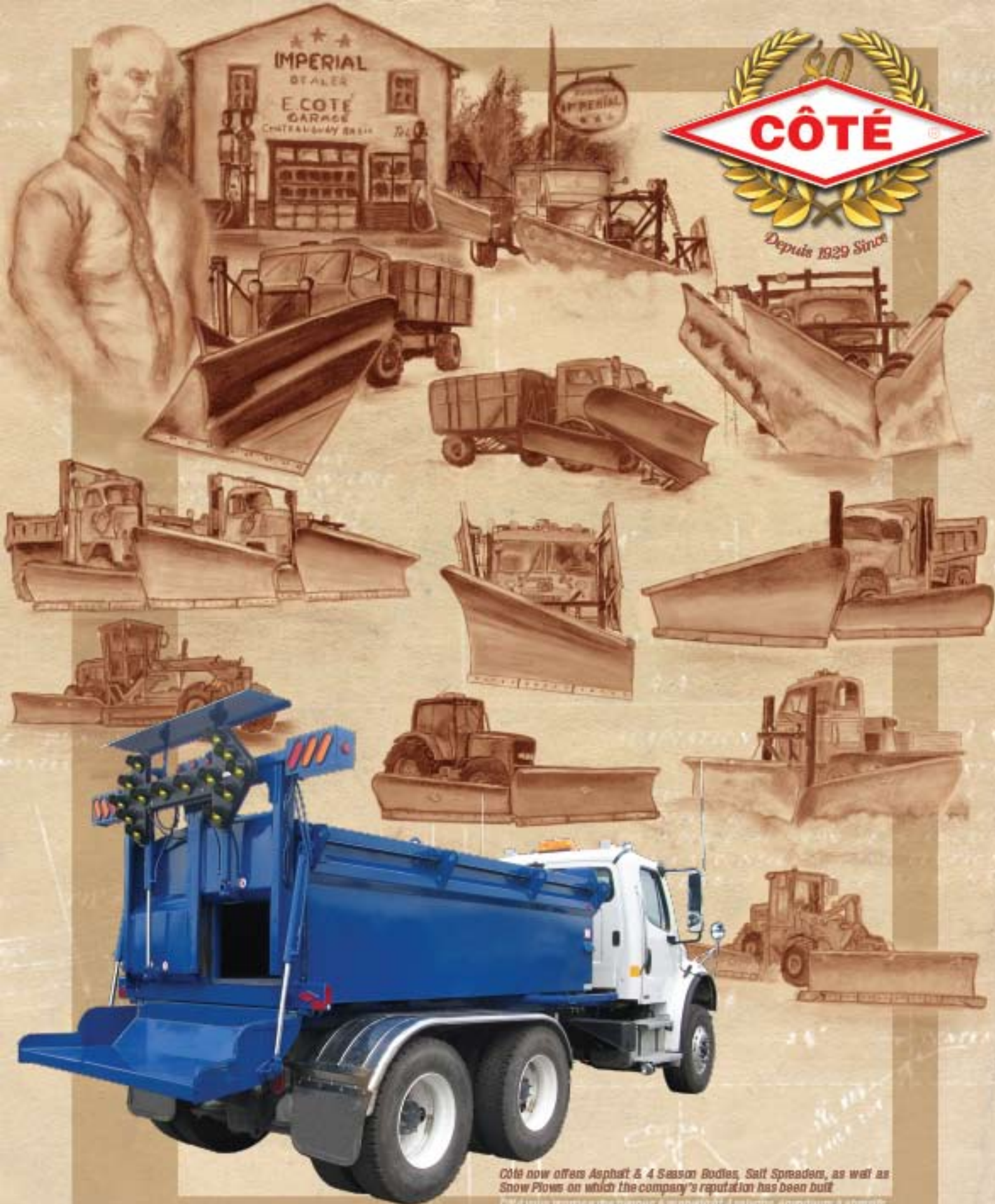
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