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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

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A Word From the Publisher

Greetings for the New Year and we hope you all enjoyed the holiday break.

Well, with Winter firmly established and the seasonal rush behind us, there is a lot to look forward to in the coming weeks before Spring.

Most notably is CONEXPO-CON/AGG, to which we expect many of you can attend, but if not, we will continue to bring you the type of industry coverage you expect from Canada's leading publication. You will notice in this issue that preparations for this year's show season are well underway and InfraStructures promises to be your best ticket to the hottest news.

Let us not forget the other events which should also see the introduction of new products and technologies that may benefit your business. After the thaw sets in, there will be the many local and regional events popping like spring flowers...

So, get the fire roaring in the hearth, get in your best chair, and enjoy this edition of InfraStructures. And all the best for 2008!



Editor/Publisher



On the cover:

Established 25 years ago, in Ireland, Embankment Machinery Sales is the distributor for some of the most respected international brand names in the construction machinery industry, including Atlas Copco breakers.

CONEXPO RUSSIA EXHIBITION ANNOUNCED BY AEM

The Association of Equipment Manufacturers (AEM) announces the formation of a new exhibition – CONEXPO Russia – in response to manufacturers seeking improved opportunities to showcase their products and technologies to the growing Russian marketplace. The inaugural show will be held September 15-18, 2008 in Moscow.

CONEXPO Russia will focus on construc-

tion, forestry and utility equipment. AEM is organizing CONEXPO Russia in conjunction with the Exhibition and Marketing Centre, a Moscow-based exhibition organizer of DORKOMEXPO.

CONEXPO Russia has the support of key government agencies, contractor groups and major manufacturers, notes AEM, and Russian and international exhibitors will have a voice in the show's development and direction.

AEM is the North American-based international trade group for off-road equipment manufacturers, and it owns or co-owns and manages several leading industry trade shows, including the internationally-known CONEXPO-CON/AGG exhibition.

The Russian Association of Regional Highway Administrations (RADOR) has endorsed CONEXPO Russia. Russian manufacturer associations such as NEDRA are also endorsing CONEXPO Russia, and leading contractor associations, such as the Russian Builders Union and the Russian Builders Association, will be supporting this exhibition through assistance with educational programs and promotion to their members.

These leading manufacturers have already committed to exhibiting in the inaugural 2008 CONEXPO RUSSIA show: Blount, Caterpillar, Chetra, Finval-Stroy Company, GOMACO, JCB, Komatsu, KOMINVEST AKMT, Manitowoc, RemTechStroy, SZLK/Astec/RoadTec, SANY, Sermac Company, Techstroykontrakt (Hitachi), Terex and Volvo.

As with CONEXPO-CON/AGG and all AEM-run shows, the new CONEXPO RUSSIA show will be directed "by the industry and for the industry," with a manufacturer-led managing committee of exhibitors. This committee will guide the strategic direction of the show to focus on delivering reduced costs, improved return on investment and a high-quality event that meets the industry needs of exhibitors and attendees.

More details on exhibiting and attending CONEXPO Russia will be available in the near future.

Source: Association of Equipment Manufacturers

UMA WINS FOUR CONSULTING ENGINEERS OF SASKATCHEWAN AWARDS

UMA Engineering Ltd. celebrated four industry award wins at the 2007 Consulting Engineers of Saskatchewan (CES) Awards of Excellence gala on November 22, in Saskatoon, Saskatchewan.

The Marquis Industrial Trunk Sewer Project was recognized with two Awards of Excellence, one in the Infrastructure category and the other in the Project Partnering category. In addition, this project also won an Award of Merit in the Building Science category. Rounding out UMA's award winning projects at this year's gala was an Award of Merit in the Environmental category for the Cigar Lake Permanent Access Road Project.



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"We are tremendously proud to have our work recognized by the CES," says UMA's Don George, regional vice president for the firm's Saskatchewan region. "These are truly prestigious awards that support and recognize the consulting engineering and geoscience industry in Saskatchewan."

Project: Marquis Industrial Trunk Sewer Project

CES 2007 Brian Eckel Award of Excellence – Infrastructure Category

CES 2007 Brian Eckel Award of Excellence – Project Partnering Category

CES 2007 Brian Eckel Award of Merit – Building Science Category

UMA Engineering Ltd. acted as consulting engineer to Hamm Construction Ltd. for the development and preparation of an engineered excavation and tunnel plans for the Marquis Industrial Trunk Sewer project in Saskatoon. This project is one of the largest single underground infrastructure contracts undertaken by the City of Saskatoon and involved the installation of 1200 mm to 3050 mm diameter concrete pipes to a depth of 7.5 m to 12 m, as well as a pipe crossing at the CNR Warman Subdivision. Other key elements of the project included risk assessment and construction of an 800 m long by-pass track. Sub-consultants included HK Mittal and Associates.

Project: Cigar Lake Permanent Access Road

CES 2007 Brian Eckel Award of Merit – Environmental Category

UMA Engineering Ltd. designed and coordinated construction on this 52 km all-weather permanent access road for Cameco. Designed to allow for ore haul and delivery of supplies into the Cigar Lake site in Northern Saskatchewan, the road passed through rough terrain, encountered large cut and fill areas, and included approximately 1 000 000 m³ of earthworks. The road crossed seven fish-bearing streams and required special hydraulic design and construction considerations, including erosion and sediment control features. The road was constructed using natural in-situ materials and required unique road-top stabilization techniques. Sub-consultants included CanNorth Environmental Services and AMEC Earth and Environmental.

The CES Awards of Excellence were established in 2001 to raise the profile of the consulting engineering and geoscience industry in Saskatchewan. The awards provide a forum for recognition of the work

done by the CES member firms and promote the consulting engineering and geoscience industry in Saskatchewan through publication of the awards.

Source: UMA Group Ltd

GENIVAR INCOME FUND INCREASES ITS PRESENCE IN ONTARIO BY WAY OF THE TIMMINS ACQUISITION

The GENIVAR Income Fund is pleased to announce the acquisition of B.H. Martin

Consultants Ltd. (BHMC), a multidisciplinary engineering and architectural consulting firm based in Timmins, Ontario.

B. H. Martin Consultants Ltd. was founded in 1973 by Barry H. Martin, Arch., P.Eng., MRAIC. More than 35 people work at the firm's office in Timmins, Ontario. Its services cover municipal infrastructure, buildings, mines and the environment. Its clientele includes a number of mining companies, namely Lake Shore Gold Corporation and

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Baffinland Iron Mines, as well as the Ontario Realty Corporation, which manages one of Canada's largest real estate portfolios.

Source: GENIVAR Income Fund

STUART OLSON SELECTED FOR EDMONTON'S NEW REMAND CENTRE

The Churchill Corporation announced recently that Stuart Olson Constructors has been selected as construction manager to build Edmonton's New Remand Centre by Alberta Infrastructure and Transportation. The total construction budget as approved by

the Province of Alberta's Treasury Board is \$620 million. Stuart Olson's expected revenue from this project is approximately \$523 million.

The project involves the construction of a 2 storey development of approximately 56 500 m² and will cover a site of over 16 ha. It will be designed to accommodate approximately 2000 male and female inmates. Site preparation and earthworks began in October 2007 and construction of the seven "podular" 3-tier housing units is expected to begin in the spring of 2008; taking approximately 5

years to complete. This award will be added to Stuart Olson's published work-in-hand balance as the contracts necessary to complete a project of this magnitude are finalized and responsibility is assumed.

The Churchill Corporation provides building construction, industrial construction and maintenance services throughout western Canada.

Source: The Churchill Corporation

BOLER ACQUIRES WATSON AND CHALIN MANUFACTURING

Officials of The Boler Company announced recently that it has signed a definitive agreement to acquire Watson and Chalin Manufacturing, Inc.

Watson and Chalin is a premier manufacturer of truck drive-axle suspensions; auxiliary suspensions including steerable and non-steer rigid, pusher and tag axles, as well as trailer suspensions for both air ride and mechanical applications.

Based in McKinney, Texas, Watson and Chalin will continue to conduct business under the existing management of Don Watson and Tom Chalin. Both Hendrickson and Watson and Chalin will be stand-alone companies under The Boler Company organization.

"With this acquisition, Boler will be in a stronger position to support advanced enhancements in both truck and trailer technologies around the world," said Matthew Boler, president and CEO of The Boler Company. "We are elated to have Don, Tom and their team join our group as they have a proven history of bringing highly developed products to the commercial markets."

Similar to other multi-brand companies in the commercial vehicle market, Hendrickson and Watson and Chalin will continue to compete in North America as well as exploiting other global opportunities.

Source: The Boler Company

AKCS OFFSHORE PARTNER AWARDED CONTRACT FOR HUSKY OIL OPERATIONS

Husky Operations Limited has awarded AKCS Offshore Partner the EPC and Maintenance Support Services contract in connection with the Production and Operations of the White Rose Field. The contract is valued

G.C. Duke Equipment Now Distributes Benco Tractors in Ontario

G.C. Duke Equipment Ltd is excited to announce that it is now distributing Benco Tractors to the Ontario Market.

G.C. Duke Equipment Ltd and Benco MFG Industries Inc. concluded a partnership agreement by which GC Duke will be offering Benco Tractors to the Ontario Municipal market. G.C Duke sales team will be proposing demonstration and trial periods to introduce this product to its customers.

Dick Raycroft, vice president Sales of G.C. Duke declared: "We are confident that our customers will rapidly discover the unique characteristics of the Benco tractor, recognised as a trustworthy, versatile low maintenance tool capable of tackling tasks that no other vehicle its size can accomplish."

G.C. Duke Equipment Ltd. is a privately owned corporation located in Burlington, Ontario, Canada specializing in the distribution of commercial grounds maintenance equipment. As G.C. Duke Equipment enters its 60th year in business in 2008, it has remained committed to providing its customers with top quality equipment and unequalled after-sales parts and service support.

Benco Mfg Industries Inc. is a privately owned Canadian corporation, located on Montreal South Shore. Benco MFG is entirely dedicated to the design, production and sale of specialized light industrial vehicles, mainly loaders, lift trucks, tow tractors and other types of equipment for custom applications.

Benco MFG products cover a wide range of industries such as municipal public works, raw material handling & transformation, recycling and airport ground support equipment.

Source: G.C. Duke Equipment Ltd.

Benco MFG Industries Inc.



at approximately \$75 million for a period of five years, with option for renewals for fifteen successive periods of one year each. AKCS Offshore Partner consists of Aker Kvaerner Offshore Partner AS (40%), SNC-Lavalin Inc. (40%) and G.J.Cahill & Company Limited (20%).

"AKCS Offshore Partner has had a long lasting cooperation with Husky through the partner's participation in the White Rose project and the existing Engineering Support and Related Services contract. The new contract confirms our competitiveness," says Harald Gulaker, AKCS Contract Sponsor.

The project management and engineering will be performed at the AKCS office in Atlantic Place, St. John's, Newfoundland and Labrador.

Source: SNC-Lavalin Inc.

Aker Kvaerner Offshore Partner AS
G.J.Cahill & Company Limited

AECON TO ACQUIRE LEO ALARIE AND SONS LIMITED

Aecon Group Inc. recently announced that it has signed a letter of intent regarding the purchase of the assets of Leo Alarie and Sons Limited, one of the largest construction companies in northern Ontario.

A private company, owned primarily by the Alarie Family, Leo Alarie and Sons is an integrated construction and materials company active throughout northern Ontario in heavy construction (highways, hydro-electric projects, sewer and water, pipelines, etc.), engineered construction (design/build projects such as bridges and mine site infrastructure requiring substantial engineering), pre-engineered buildings, contract open pit mining and aggregate supply.

Under the letter of intent, which is subject to a number of conditions including completion of satisfactory due diligence, Aecon would acquire the assets of Leo Alarie and Sons including its substantial equipment fleet (and associated debt), land, pits and quarries (with associated inventories), as well as selected construction and mining contracts. The purchase price is expected to be approximately \$19 million and the transaction was targeted to close in late December.

Leo Alarie and Sons' asset base includes over 600 pieces of construction and mining equipment as well as numerous aggregate pits and quarries. The pits and quarries, focused primarily in the Sudbury, North Bay and Timmins regions, contain approximately 750 million t of reserves. The business is

based in Timmins and employs approximately 250 people, including about 60 full time salaried staff.

Leo Alarie and Sons' current management team would remain in place, including president Denis Alarie, who would continue to manage the company. Aecon and Leo Alarie and Sons have enjoyed a strong relationship for many years, working together on a number of construction projects in northern Ontario. Since 2000, the two companies have

established formal joint venture partnerships to complete six significant highway projects, including current contracts on Hwy 69 in Estaire and Hwy 11 in Burks Falls.

The acquisition would give Aecon a strong regional presence in all four major regions of Ontario, and the addition of Leo Alarie and Sons' aggregates operation would consolidate Aecon's position as one of the four largest aggregate producers in Ontario.

Source: Aecon Group Inc.



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Lafarge Opens New Alternate Solid Fuels Facility at Sugar Creek Cement Plant

Lafarge has officially opened a new state-of-the-art alternate solid fuels facility in Sugar Creek, Missouri. At a recent dedication event cosponsored by the local chapter of the U.S. Green Building Council and the Environmental Excellence Business Network, government officials, environmental professionals, business leaders, community members, and employees celebrated Lafarge's continued commitment to the environment and to the use of sustainable resources.

Representing a US\$7 million investment, the 2000 m² facility is designed to process industrial by-product materials from manufacturing firms throughout the region into fuel required for production operations at the Lafarge Sugar Creek Cement Plant. Using this alternate solid fuel not only will meet 40% of the plant's total energy requirements but it will reduce the plant's reliance on fossil fuels (i.e., coal) by 50 000 t annually. It also diverts 50 000 t of locally generated industrial by-product materials from landfills each year.

"The reuse of materials that would normally be sent to landfills is a positive development for the environment, for the community, and for businesses throughout the region," said Rich Reuter, Sugar Creek plant manager. "Every ton we burn means one less ton of material going to landfills, less coal being mined, and fewer greenhouse gas emissions."

Located near Kansas City, Lafarge's Sugar Creek Cement Plant has a strong record of sustainable manufacturing through land stewardship, community outreach, energy efficiency, and innovation. The ISO 14001 certified plant has received the Energy Star Award from the Environmental Protection Agency in 2006 and 2007, one of only six plants in the United States to earn the award. It has also recently been named a Wildlife Habitat Council Certified Site, which is an international accreditation program that recognizes commendable wildlife habitat management and environmental education programs at individual sites.

The new alternate solid fuels program supplements the plant's existing landfill gas program, which has been collecting methane gas from two closed landfills since August 2005. This methane gas currently accounts for 7% of fuels, which is approximately 1 t/h of solid fuel, replacing about 8000 t of coal



or petroleum coke annually and offsetting about 10 t of carbon dioxide emissions. With the recent addition of gas from an adjacent active landfill, methane gas could eventually account for approximately 20% of the fuel needed at the plant, replacing about 20 000 t of coal or petroleum coke annually.

"The combined use of methane gas and the industrial by-product materials as alternative fuel sources will account for over 60% of the total energy needed to operate our kilns that produce high quality cements used in the central Midwest," noted Rich Reuter.

Using by-products of one industry to make the product of another is a form of industrial ecology called co-processing. At the Sugar Creek plant, the by-product materials processed as alternate solid fuels will include cellulose, plastic, rubber, and textiles having a heat value over 0,66 kWh/kg. Material suppliers must go through a stringent approval process, including lab testing and reviews by environmental, quality, and health & safety professionals.

The alternate solid fuel system at the plant has been permitted by the Missouri Department of Natural Resources and is encouraged by the local government. Through a safe and simple two-stage process, the facility shreds the by-product materials to the size of 13 cm² or less. The shredded material is then pneumatically conveyed into the preheater/precalciner tower and used as fuel. Once at peak capacity, Sugar Creek's system will use up to 50 000 t of alternate solid fuels per year.

"This new facility is another step forward

in Lafarge's on-going efforts to further reduce its dependency on nonrenewable fuels," added Reuter. "By turning these industrial by-product materials into energy at the Sugar Creek plant, we are once again leading the way in using alternate fuel sources to protect our environment and promote a more sustainable community."

The Lafarge Group is the world leader in building materials, with top-ranking positions in all of its businesses: Cement, Aggregates & Concrete and Gypsum. Lafarge North America Inc., a Lafarge Group company, is the largest diversified supplier of construction materials in the United States and Canada. Its materials are used for residential, commercial, institutional and public works construction.

The Lafarge Group has been committed to sustainable development for many years, pursuing a strategy that combines industrial know-how with performance, value creation, respect for employees and local cultures, environmental protection and the conservation of natural resources and energy. The Lafarge Group is the only business in the construction materials sector to be listed in the 2007 "100 Global Most Sustainable Corporations in the World". To make advances in building materials, the Lafarge Group places the customer at the heart of its concerns. It offers the construction industry and the general public innovative solutions bringing greater safety, comfort and quality to their everyday surroundings.

Source: Lafarge North America

A Preview of CONEXPO-CON/AGG and IFPE 2008

More information on
www.conexpoconagg.com

MECCANICA BREGANZESE IN LAS VEGAS!

60, 70, 90, 120: MB, Meccanica Breganzese stakes its 4 winning numbers on the more famous roulette of the world: Las Vegas.



Over the years, Meccanica Breganzese has taken the leading role in this sector and features the most advanced technology.

The company from Vicenza will showcase its 4 models of MB crusher-buckets in the Central Hall. Visitors will also be able to see the crusher-bucket working and find out the additional value of the products made by Meccanica Breganzese in the demonstration area.

Source: Meccanica Breganzese

Booth: C-4061 et S-510

INTRODUCING THE HI-CAP MULTI-RIPPER®

The designers of the award winning patented Multi-Ripper® and the Multi-Ripper

Bucket now offer exclusively, a new larger size class Hi-Cap Multi-Ripper Bucket for ripping and digging rock.



Until now, this powerful rock digging bucket design was only available for excavators up to 100 t. The new model fits 100 t to 135 t machines. The wider versions also now have 5 shanks.

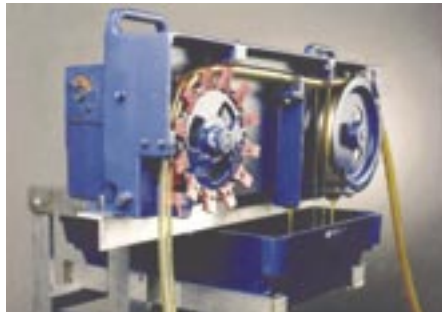
The SHARC "staggered shanks on an arc" technology allows the Hi-Cap Multi-Ripper Bucket to slice through any rip-able rock. Its power comes from the curl function, the boom force and the crowd force. The principle uses a bucket along with the power of the excavator to create a 100% breakout force when each tooth comes into contact. The staggered ripper teeth fracture the substrate in sequential order.

Source: Leading Edge Attachments, Inc.

Booth: N-1100

OIL RECOVERY SYSTEM IS EFFICIENT BY CONTINUOUSLY REMOVING WASTE OIL

The Model 6V oil recovery system from Oil Skimmers Inc. efficiently removes oily wastes that float on the surface of water.



A specially formulated collector tube skims oil from the water surface. The oil adheres to the outside of the closed-loop tube, which is

slowly drawn across the surface of the water and into the oil skimmer. The tube is drawn into the oil skimmer and through scrapers that remove the oil. The clean tube then returns to the water to skim more oil.

Prefabricated mounting packages simplify placement of the Model 6V on pits, ponds and open or closed tanks, thus reducing time and installation costs. For cold weather operations, the Model 6V can be outfitted with insulation and heating packages ensuring the recovered oil moves easily through the oil skimmer.

Source: Oil Skimmers Inc.

Booth: S-17404

NITE LITE HELPS ROAD CONSTRUCTION CREWS VIEW JOBSITE MORE CLEARLY

Work Area Protection Corp. recently introduced Nite Lite, the first portable work zone light that has been designed specifically for the road construction industry. The Nite Lite is lightweight and easily transportable, providing a non-glaring white light for all moving and static nighttime construction projects.



Microprocessor-controlled electronics ignite the high-intensity discharge, gas-filled lamp to provide a highly visible non-glaring light. The 400 W Pulse Start Metal Halide lamp is rated at 42 000 lm, which is sufficient to light a 1400 m² area.

diary of Stabler Companies Inc., a holding company with companies that manufacture and market products and services for the land, roadway and utility industries.

Source: Work Area Protection Corp.

Booth: S-11039

AX090000 SERIES – BATTERY CHARGER

Axiomatic Technologies announces the release of a Battery Charger designed to autonomously charge automotive 12 V or 24 V lead-acid batteries with a maximum charging current up to 10 A.



The Axiomatic Technologies Battery Charger, once programmed for a certain type of battery, does not require any involvement from the operator in the charging process; the charger automatically recognizes presence of the battery, charges the battery to the maximum capacity and automatically maintains the battery charge as long as the charger is connected to the power line. The Axiomatic battery charger also monitors a remote battery temperature sensor for safe operation

and prevents the battery from overheating.

Source: Axiomatic Technologies

Booth: IFPE Hall 15741

SUPERIOR INTRODUCES ENGINEERED CLASS CEMA F IDLERS

Superior Industries introduces its CEMA F idler line as a solution to extreme material capacities and material size in the bulk material handling industry. Superior's engineered idlers are custom built per application for maximum wear life and reliability.



The CEMA F idler features 20°, 30°, and 45° troughing idlers, available in 18 cm and 20 cm diameters, and in belt widths of 91–245 cm. The 1360 kg (1270 kg on 245 cm belt width) load rating on troughing idlers is based on a minimum L10 life of

60 000 h @ 500 r/min.

Superior Industries offers a comprehensive line of conveyor systems and components for sand, gravel, aggregate, mining, concrete, asphalt, recycling, civil and marine engineering industries, coal, grain and other processing industries.

Source: Superior Industries

Booth: S-670

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Cummins and Westport Innovations Win Award for U.S.-Canada Collaboration

Cummins Inc. and Westport Innovations Inc., its joint venture partner in developing fuel-efficient, low polluting natural gas bus and truck engines, have received the 2007 Canadian American Business Achievement Award from the Canadian American Business Council.

The Canadian American Business Achievement Award is annually given to two companies, one Canadian and one American, whose joint enterprise demonstrates the magnitude of the business and trade relationship between the two countries.

"It is our privilege to accept this award with our partner Westport," said Steven M. Chapman, group vice president, Emerging Markets and Businesses, Cummins Inc. "As our two companies continue to work together to develop better usage of alternative fuels and more advanced technologies we look forward to being an example to other companies in Canada and the United States in demonstrating the power of individual leadership and

joint partnership."

Karen Borlaug Phillips, chairwoman of CABC, said, "This joint venture and technology partnership is an outstanding example of the kind of global success that can be created when strong business growth, remarkable innovation, and cross-border business leadership work together to enhance the competitive advantage of the relationship between Canada and the United States."

In receiving the award, Westport Innovations Inc. president and COO, Michael Gallagher, said, "We are extraordinarily proud to accept this award with our partner Cummins. Our joint enterprise is inspired by the spirit of cross-border cooperation between Canada and the United States."

The winners are chosen by an international panel of judges using exacting standards that examine sustained profitability, job creation, financial strength, environmental responsibility, corporate synergy, exceptional imagination, and extraordinary innovation.



The awards were being presented as part of the 2007 Cross Border Business Policy Forum held November 9 in Toronto.

The Canadian American Business Council is the voice of business in the world's most prosperous relationship. Established in 1987, the Council is a non-profit, issues-oriented organization dedicated to elevating the private sector perspective on issues that affect our two nations.

Source: Cummins Inc.

Booth: S-16013


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Three John Deere 4.5L Engine Models Earn EPA and EU Certification

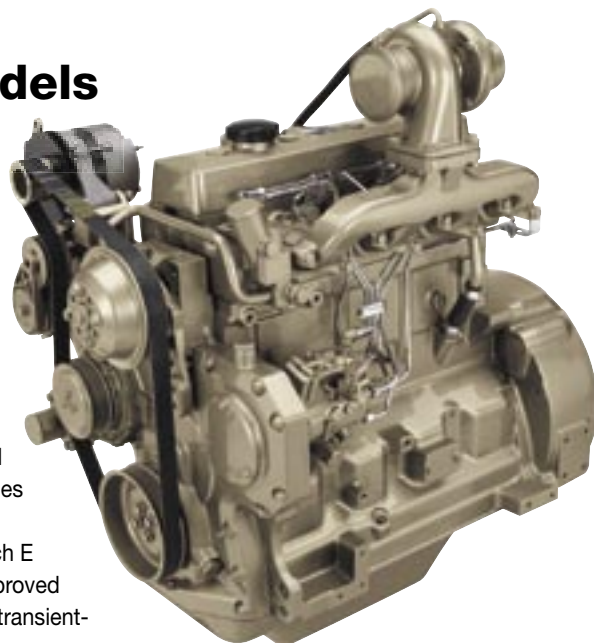
John Deere Power Systems (JDPS) is pleased to announce that three new models of their 4.5L engine have received Tier 3/Stage III A certification from the Environmental Protection Agency (EPA) and the European Union (EU). The turbocharged PowerTech™ E 4.5L, the turbocharged PowerTech M 4.5L, and the turbocharged and air-to-air aftercooled PowerTech M 4.5L engines are the latest models from the complete lineup of John Deere Tier 3/Stage III A engines to be certified.

"The 4.5L engine is one of our most popular models, so we're very excited to offer these certified engines that have the same durability and reliability our customers have come to expect from John Deere," said Doug Laudick, Tier 3 product manager for JDPS. "This is also the first time John Deere will offer an electronically controlled engine under 100 hp, so it's a big step to bring the advantages of electronics to lower-horse-power applications."

The turbocharged PowerTech E 4.5L engine comes with a two-valve cylinder head and incorporates a high-pressure common-rail fuel system, full-authority electronic controls, a multiple injection strategy and a fixed geometry turbocharger, as well as all the performance of Tier 2/Stage II engines and more. These technologies enabled John Deere to achieve their goals for Tier 3/Stage III A PowerTech E engines, including maintained or improved peak torque, low-speed torque and transient-response time.

The PowerTech E 4.5L engine's full-authority electronic controls also enable it to offer improved cold-start performance, precise engine-speed control, torque-curve shaping and more. Electronic controls increase productivity, improve fuel economy, lower total installed costs and reduce ownership costs.

John Deere also offers a turbocharged



and air-to-air aftercooled PowerTech E 4.5L engine that received Tier 3/Stage III A certification from the EPA and EU in the summer of 2006.

The turbocharged PowerTech M 4.5L engine, and the turbocharged and air-to-air aftercooled PowerTech M 4.5L engine, feature a two-valve cylinder head, a fixed geometry turbocharger and a mechanical rotary pump fuel system, plus all the performance of Tier 2/Stage II.

The simple design and mechanical controls of PowerTech M engines give OEMs and end users flexibility and cost savings while maintaining the same platform as Tier 2/Stage II engines. When compared to their Tier 2/Stage II counterparts, PowerTech M engines offer improved or maintained peak torque levels and transient-response time.

PowerTech Plus, PowerTech E and PowerTech M are differentiated by the level of technology employed. PowerTech Plus engines feature cooled exhaust gas recirculation, a variable geometry turbocharger, a state-of-the-art engine control unit, full authority electronic controls, and an electronic unit injector fuel system (13.5L) or a high-pressure common-rail fuel system (4.5L, 6.8L, 9.0L). PowerTech E engines feature a fixed geometry turbocharger, full-authority electronic controls, and a high-pressure common-rail fuel system (4.5L, 6.8L) or an electronic unit pump fuel system (2.4L, 3.0L). PowerTech M engines feature economy of design, a fixed geometry turbocharger, and a mechanical unit pump fuel system (2.4L) or a mechanical rotary pump fuel system (4.5L).

Source: John Deere Power Systems

Booth: S-17213

Montreal Chosen as North American Headquarters for Supavac Pumps

Robert Spicer, president of Supavac Canada Inc. is pleased to announce that Supavac's new North American headquarters will be located in Montreal. Julian Waingortin, MBA was recently appointed as general manager.

Supavac® solids pumps reliably transfer sludge, slurries and even sand and rock where submersible, centrifugal and diaphragm pumps cannot.

Advanced vacuum loading pressure discharge technology is the key to the successful operation of these pumps.

With no rotating parts or electricity and with no moving parts in direct contact with the flow, extremely high reliability has been the experience. Not normally having to add makeup water to pump most sludge and slurries is a major savings in water usage, haulage and process costs.

Applications include: abrasive slurries; muck; drilling mud waste and cuttings; hydrocarbon sludge; sand and rock; effluent; corrosive sludge and hazardous waste.

While new to Canada, this patented Australian technology has been the choice of major players like Halliburton since the last century. Big pumps and systems are available for rental and purchase at authorized dealers and Supavac. For more information and to view videos of pumps in action, please visit www.SupavacCanada.com.

Source: Supavac Canada Inc., Booth: GP-51221



Ingersoll Rand Introduces Truck-mounted Air Compressors

Ingersoll Rand introduces two new truck-mounted reciprocating air compressors – the diesel-powered VHP40RMD and gas-powered VHP40RMG.

Both units are designed to fit on standard-sized utility trucks, and both are powered by efficient, dependable Kubota engines. The engines in both units are three-cylinder, four-stroke engines.

The units are equipped with an air receiver and fuel tank module as standard equipment. The module has two 20 cm air tanks that are permanently piped together and have a total capacity of 78 l. A 35 l fuel tank sits between the two receiver tanks. This module has been designed to fit under the unit, so it does not increase the unit footprint. For units not ordered with this air receiver and fuel tank module, it is also available as an aftermarket accessory.

Equipped with the air receiver and fuel tank module, the VHP40RMD and VHP40RMG are fully self-contained units. Each compressor

has a battery for 12 V startup, sophisticated engine and airend cooling built into the unit, and a full sheet metal enclosure to protect the internal components from potential weather damage. All major internal components are attached to an isolated sub-base to minimize vibration to the vehicle carrying the compressor.

Both compressors provide a free-air delivery of 1100 l/min at a rated operating pressure of 12 bar. An industry-leading, two-stage Ingersoll Rand air pump is standard on both models.

A number of features are built into the VHP40RMD and VHP40RMG air compressors

that keep the units operating efficiently and make maintenance as simple as possible. A single-point lifting bail makes transferring the unit from one vehicle to another a simple procedure. The instrumentation and controls make these units easy to operate. Reduced operating cost and noise is provided by a two-position throttle system. An air restriction indicator alerts the operator when the air filter needs to be changed. Oil drains are easily accessible for easy maintenance.

The VHP40RMD and the VHP40RMG have lengths of 121 cm, widths of 55 cm and heights of 76 cm. Both air compressors have an operating weight of 329 kg.

Source: Ingersoll Rand

Booth: G-130





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Booth: S-10108

McCloskey Chosen to Help RGT Clouthier Add Production and Cut Costs

The sand and gravel business isn't easy. With growing competition, rising costs and tighter aggregate product specifications it gets more difficult by the day; in order to survive you have to be good. In order to prosper you have to be a lot more.

RGT Clouthier, based out of Pembroke, can count itself among the latter group. With multiple pits, crushing operations, road building contracts and aggregate supply operations in North Eastern Ontario, the cost

"Our crew was impressed by the way McCloskey did business. They sent a machine up for us to try, they brought a range of screen panels and they trained our crew in its use," explains Gerry "the surprising part was, when our sand didn't meet the specs required,

Paschal McCloskey and his salesman were up in the screen-box to swap them out immediately!"

"We knew RGT were looking for a fines product of asphalt sand, so we sent the machine with an 8mm (3/8") harp bottom deck," explains Paschal "production was great, but a sieve analysis showed too many passing flats. I knew this would be a possibility, so we brought a 3/8" square mesh as well."

Typically screening with a 3/8" woven mesh can be slow work, ask anyone who has tried. It was feasible in this case thanks to the S-130 High Energy Screen-box. "The S-130's 14' x 5' screen-box gave us 15% more screening area than the closest competitor that RGT trialed," explains Barry Greenaway, salesman for McCloskey. "Combined with a 10mm screen-box throw, when the nearest competitor had only 6mm, we were able to keep the bottom deck clean and maintain an impressive level of production."



of every job starts at the pit face.

"We have had a requirement for a new screening plant for a while now," states Gerry Clouthier, "and we tried out a number of track mounted plants to find the best fit for our needs. We thought we had our decision made, but then we decided to give McCloskey a try."

After a few quick calls and a site visit a new McCloskey S-130 was on a float and on its way to Pembroke.



Production taken care of, the McCloskey team turned their attention to helping RGT reduce their running costs. "We understand and are proud of our position in the market," states Paschal "and we knew we could not compete in terms of up front costs, we had to offer RGT a solution that was simply better."

Gerry Clouthier had elected to use an 80' stacker with electric over hydraulic power for fines stockpiling. This required the use of a portable diesel generator to supply the stacker with power. McCloskey immediately spotted what his competition had missed. "The final trump card in our solution for RGT was to eliminate the need for his generator," explains Barry "we offered to provide an S-130 with an up-rated 125hp CAT motor and an auxiliary hydraulic line with enough power to run his stacker under full load."

This feature allowed RGT to eliminate a diesel engine and another piece of equipment requiring transport from the operation, representing a considerable long term saving. All the hydraulic work was completed by McCloskey's service team upon machine set-up, then it was handed over to Sonny; RGT's crushing and screening foreman with over 20 years of experience.

"The stacker actually runs a lot better with this setup, cost savings aside. They even left it so that I can still use it with the electric motor if I need to," states Sonny.

"It's a well made machine," said Sonny of the S-130 "we moved her into our crushing and screening spread for fine materials, as well as using it stand alone on pit run and it takes on whatever job we throw at it."

RGT Clothier have a lot of work lined up for their S-130 and since installation it has already been used to produce asphalt sand, highway sand, B-gravel and topsoil at multiple locations.

Source: McCloskey International Limited

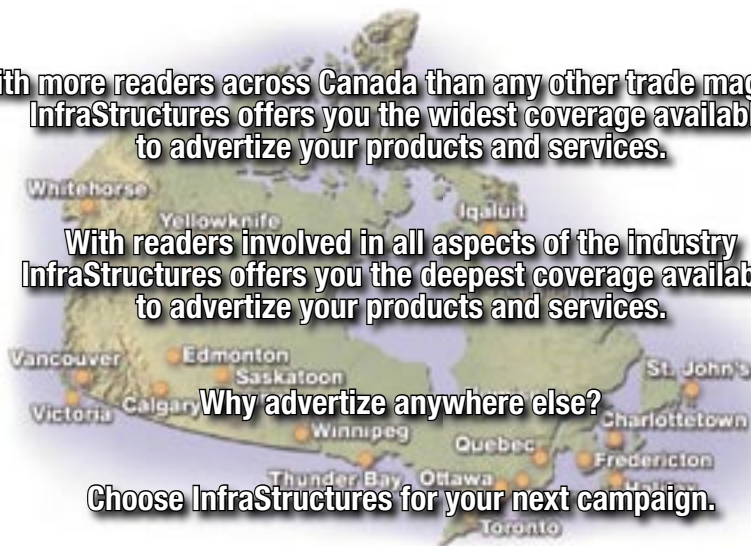
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Presentations Spotlighting Cutting-Edge Research on Power Transmission and Motion Control at IFPE 2008

The IFPE 2008 Technical Conference will feature a record 111 presentations on the latest research and developments in power transmission and motion control technologies, with sessions geared to the global needs of engineers and other decision makers involved in design and manufacturing processes.

The IFPE 2008 Technical Conference will be held March 12-14, 2008 at the Las Vegas Convention Center in Las Vegas, USA, in conjunction with IFPE, the International Exposition for Power Transmission. The IFPE show runs March 11-15, 2008 and will feature 400 exhibitors close to 12 000 m².

The 2008 IFPE Technical Conference will also include a new electronic controls symposium in addition to its technology and design program. And, for the first time, Continuing Education Units (CEUs) will be available for all technical conference sessions, to provide extra value for attendees.

IFPE presentations at this 51st edition of

the conference will be published and made available at the conference, on CD-Rom available for pickup onsite only. The conference fee of US\$75 includes admission to all sessions, available CEU credits and the official proceedings.

IFPE conference presenters are industry experts in companies and universities from around the globe. All papers have been reviewed by the National Conference on Fluid Power, comprised of industry leaders and academic experts, to assure a high-quality conference that meets current design engineering needs.

New topic areas include asset management, computational fluid dynamics, hybrid systems, suspensions and vehicle systems. Additional topics featuring new research include filtration/contamination, fluids,

hydraulic systems, hydraulic valves, mechanical, modeling/simulation, pneumatics, plumbing/piping/fittings, pumps/motors/hydrostatic transmissions, seals/sealing and water hydraulics.



IFPE 2008 attendees can also take advantage of learning sessions at a new Innovation and Solutions Center on the IFPE show floor, as well as the educational programs offered by the co-located CONEXPO-

CON/AGG 2008 exposition. A broad range of CONEXPO-CON/AGG sessions will focus on management strategies and personal development techniques.

Details on registering for IFPE and information on education and other show features are online at www.ifpe.com

Source: the International Exposition for Power Transmission - IFPE

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OSRAM and Banff Light the Way With Environmentally Friendly LED Streetlights

The town of Banff, located in a UNESCO World Heritage Center national park has joined forces with OSRAM to launch a pilot project to convert its street lighting to LEDs. Eight street lights have been upgraded to LED lighting with the goal of reducing energy consumption by 36%. This project is further evidence of OSRAM's pioneering role in the LED market and its commitment to lowering energy consumption for the benefit of the environment.

The town is located in Banff National Park, which was established in 1885 in the heart of the Rocky Mountains. Uniquely situated in the middle of unblemished nature, Banff has been at the forefront of environmental protection. This joint project, which was initiated together with OSRAM Opto Semiconductors, will further enhance the reputation of this community as a pioneer in environmental protection. OSRAM Opto Semiconductor has a long history in not only creating sustainable lighting products but taking a sustainable

approach to product design, development, manufacturing and distribution.

"We are very excited to be working with OSRAM Opto Semiconductors on this LED lighting project to explore alternative lighting solutions," said mayor of Banff John Stutz. "Collaborations such as these are essential especially given rising energy costs and environmental concerns." The goals of the project are to gather performance data and track energy consumption information during variable weather and lighting conditions in order to identify permanent future solutions.

The eight new LED streetlights were installed just in time for daylight savings. The long life of LEDs of up to 50 000 hours (compared with 15 000 hours for the original light sources) will reduce maintenance costs over the long term and lower energy consumption will help reduce CO₂ emissions. In addition, the LED streetlights maximize illumination and maintain intensity throughout the lit area better than the existing lamps.



The streetlights' fixture design and sharp directional nature also adhere to one of Banff's environmental priorities, which is to help preserve and protect the nighttime environment (including views of the night sky) through quality outdoor lighting.

Source: OSRAM Sylvania Ltd.

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Carlisle SynTec Now Offers SecurShield™ Polyiso Insulation

Carlisle SynTec, the leading manufacturer of single-ply roofing systems, recently introduced SecurShield polyisocyanurate insulation to its growing line of energy-efficient roof products. SecurShield is a durable insulation product that can be applied directly to wood decks for either a Class A or Class B fire rating, without the need for a fire-rated slipsheet or gypsum cover board.

Featuring a rigid, closed-cell polyisocyanurate foam core laminated to polymer-coated glass facers, SecurShield provides premium fire resistance, moisture resistance, and wind-uplift performance. The facers exceed the performance of the conventional fiber-reinforced paper facers used in traditional insulation.

SecurShield, as its name suggests, provides superior protection against the elements, particularly precipitation and wind. SecurShield offers enhanced wind-uplift protection, meeting the rigorous Factory Mutual 1-29 requirements by achieving a

FM 1-255 rating. Because of its wind-uplift performance, this product is ideal for high-



wind markets and projects that require higher wind-speed warranties.

The mold and moisture resistance offered by SecurShield Polyiso, which is due to the superior adhesion of the facer to the foam core and membrane, exceeds that of any insulation on the market. SecurShield provides unmatched performance and durability, which is why Carlisle will offer enhanced warranties on all projects in which it is used.

Source: Carlisle SynTec

Raising Expectations!

Always an innovator, Jacques Perron, president of Rene Perron Couvertures Ltee, is once again leading the Montreal roofing industry with the delivery of a new 27 WH-KA Versa-Lift from Garlock Equipment.

After researching the available alternatives, Perron chose the Garlock Versa-Lift to fill a material handling gap in their fleet of boom trucks and roof hoists. "We require a reliable, easy to use and maneuverable machine to transport materials, equipment and debris to and from the roof deck. The ability to place the machine almost anywhere on the job site gives us the flexibility to handle almost any job..." says Jacques Perron.

Versa-Lift is the amalgamation of German engineering and Yankee ingenuity, bringing the innovation of an established technology

and the durability demanded by the North American roofing contractor. Garlock has pioneered this type of innovation throughout its product range and has invested significantly to ensure the Versa-Lift can meet the toughest demands of any building site. Unlike

other brands that merely transplant offshore machines, Versa-Lift is designed with the realities of the construction industry here.

Garlocks' commitment to quality does not end with delivery. The crews at Perron will receive specialist training directly from Garlock on their own work site. This

makes training a more practical process, crews get to deal directly with issues important to them with an expert standing by to advise and encourage. Then there is the network of equipment dealers that provide



factory customer service specialists. This is what customers have come to expect from reputable manufacturers and dealers when choosing equipment.

Rene Perron Ltee and Versa-Lift, raising the roof in Montreal!

Source: Garlock Equipment

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Remote Control System Offers Operator Comfort, Efficiency

Loader operators who want to minimize worksite environment discomforts or who work in applications that require two or more people, now have a solution – the loader radio remote control system from Bobcat Company.

The innovative Bobcat® loader radio remote control system enhances the capabilities of

Bobcat skid-steer and compact track loaders with selectable joystick controls (SJC) and



Bobcat all-wheel steer (AWS) loaders, offering a simple solution for customers who want to

operate their loader remotely.

Operators can start the loader engine and operate the drive, lift, tilt and auxiliary hydraulic functions from approximately 450 m away with the radio remote control transmitter. The transmitter joystick controls activate the loader's joystick controls in the ISO control pattern. The system is useable for up to 15 hours on a rechargeable battery.

In addition to being able to use the system in various climate conditions, operators can easily switch between "remote"

control mode and "machine/direct" control mode.



Bobcat representatives say the radio remote control system option will be attractive to customers in several markets, including military, government, construction, landscaping and agriculture. Other possible markets include shipping yards (for ship and barge unloading), nuclear power plants, foundries, mining, chemical plants and municipalities. Concrete demolition, asphalt planing, firebreak construction, stump removal and poultry barn cleanup are just a few applications in which customers could utilize the Bobcat loader radio remote control system.

The advantage of the loader radio remote control system is that one person can now perform the same work while standing at a safe distance from the loader, thus minimizing those jobsite discomforts and increasing productivity at the same time.

The system, which has a maximum operation loader travel speed of 10 km/h, is approved for use with dozens of different Bobcat attachments. However, the Bobcat loader radio remote control system is not approved for certain types of hazardous or explosive environments.

The Bobcat loader radio remote control system is easy to install and portable so customers with multiple machines in their fleet can quickly transfer the system from one Bobcat loader to another.

Safety features include a tilt sensor that stops the loader engine if the transmitter is tilted over 45° in any direction. Transmitter joystick controls have a return to neutral feature. Red-colored emergency stop buttons are located on the transmitter and an E-stop box is affixed to the rear of the loader. Flashing green and amber strobe lights and horn for start-up and operation.

The system complies with ISO 15817 earthmoving machinery safety requirements for remote operator control.

Source: Bobcat Company

Booth: G-100

Rancor gets 'cracking' with AwJaw Bucket Crusher

Rancor Wood Recycling, from Belleville, Ontario, was started in 1992 as a recycler of demolition wood, producing wood chips.

What was once sent to the landfill is now being reused for the horticultural and other markets. Soon, Rancor was asked to handle other construction and demolition waste products, like concrete. The problem for Rancor's operators, Harold, Randy and Bruce Corfield, was what to do with this material? The solution was found with the AwJaw Bucket Crusher that crushes demolition concrete into an aggregate product that Rancor can market. Reducing even more waste from landfills and helping to make Rancor one of Ontario's largest processors of demolition waste.

The AwJaw Bucket Crusher, distributed by The St. George Company, turns an excavator into a professional crush plant. Inside the bucket, massive jaws reduce concrete, brick or rock into aggregate from 6" minus down

to 3/4" minus. The bucket's wide jaw open design allows it to handle concrete with rebar, wire mesh and other foreign objects with ease.



The St. George Company Ltd. has been distributing innovative products for construction, forestry and agriculture for 25 years. Headquartered in Paris, Ontario, with a satellite office in Foremost, Alberta, The St. George Company Ltd provides sales and service for a range of AwJaw Bucket Crushers to fit most excavators.

Source: The St. George Company Ltd.

Leica Geosystems' PowerBlade Machine Control

Economical and easy to use, the Leica PowerBlade machine control system offers cost-saving laser-based grade solutions for every budget. PowerBlade systems offer a building-block approach to fit today's most cost-conscious needs while easily adding more features. Starting with the MLS700 Laser Sensor, PowerBlade offers a precise, rugged laser sensor with easy-to-see LED grade displays that may be used as a stand-alone indicator for the operator. Add the easy-to-use MCP700 Panel and a hydraulic valve package for time-saving automatic grade control. For maximum savings, add the optional MPM700 Electric Mast for easy grade changes from the cab and advanced land-leveling functions to tackle the most complex jobs.

Leica PowerBlade is compatible with all types of lasers and machines such as scrapers, dozers and agricultural tractors.

The MLS700 Laser Receiver is totally waterproof (IP68) and uses a large, bright see-at-a-glance LED display so it may be

used as a stand-alone indicator or with the MCP700 Control Panel and suitable valve for full automatic control. The MLS700 Laser Receiver has a 360° capture range, with a measurement window of 190 mm and selectable tolerances for rough or fine grading.

The MCP700 Control Panel is rugged and waterproof (IP65) with a large, bright see-at-a-glance LED display, even in strong sunlight. Two easy to use toggle switches let operators control automatic or manual mode and raise or lower the blade. With the optional MPM700 Electric Mast, the MCP700 Control Panel features additional functions for more complex grading tasks. A lift function allows the operator to temporarily lift the blade without leaving automatic mode and return to the original grade at the flip of a switch. This is especially helpful for coarse grading when



large amounts of dirt are moved. A survey function provides the height information of a defined area including an average height function to make land leveling a simple task. The small size of the MCP700 Control Panel makes it easy to install on any machine.

The optional MPM-700 Electric Mast is designed for tough and demanding construction environments. With a four-foot range of travel and the additional lift and survey functions in the MCP700 Control Panel, the MPM700 Electric Mast is ready for the most demanding sites.

Source: Leica Geosystems

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Rio Tinto Selects BreadCrumb® System to Increase Efficiency and Production at a Utah Mine

Rajant Corporation, a leading provider of portable, reliable, and adaptable wireless networking solutions, announced today that its BreadCrumb® wireless mesh system has been selected by the Kennecott Utah Copper Corporation (KUCC) wholly owned subsidiary of Rio Tinto as its primary communications platform for operations within the Bingham Canyon Copper Mine, the world's largest open-pit copper mine. The Rajant BreadCrumb® system will enable KUCC to gain additional operational efficiencies by tracking, monitoring and managing its copper mining operations.

"Enabling Kennecott to streamline its complex mining operations was the primary goal of using the Rajant BreadCrumb® wireless



they required a high number of moving wireless nodes for improving mine monitoring and control. The Rajant InstaMesh® software running on the wireless BreadCrumb® units connects hundreds of devices to each other while rapidly transporting critical operational data."

Kennecott has successfully implemented a large number of Rajant BreadCrumb® systems in an interconnected network that allows loader trucks, shovels, pumps, laptops and

are a mix of secure access nodes that enable data and voice communications across a meshed, self-healing network for fleet dispatch, health monitoring and other critical mining applications. Many of the devices that require wireless communications are moving at all times throughout the wireless mining infrastructure. The BreadCrumb® nodes rapidly adapt to any changes in the network topology, assuring that IP traffic uptime and bandwidth are maximized.

"Rajant is very proud to be part of Kennecott, the world's largest open pit copper mine. KUCC is a great customer and we look forward to continuing to help them as well as other mines in the industry increase operational efficiencies with our BreadCrumb® solution," said Bob Schena, CEO of Rajant Corporation.

Source: Rajant Corporation

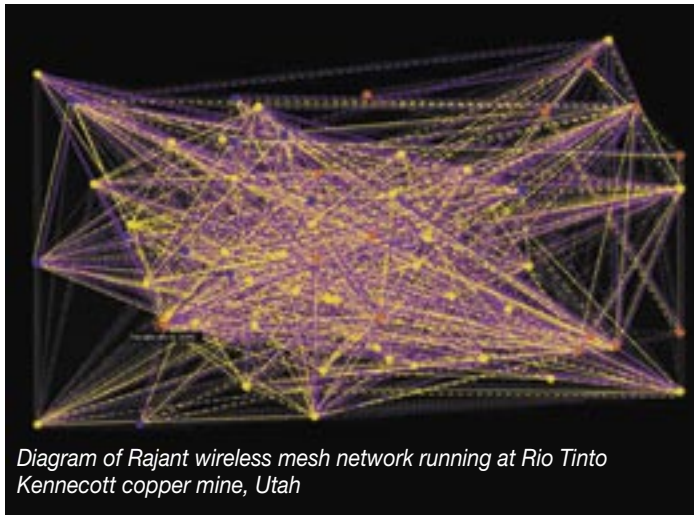


Diagram of Rajant wireless mesh network running at Rio Tinto Kennecott copper mine, Utah

mesh system," said Gary Anderson, senior vice president of Mining for Rajant. "We knew

other production equipment to communicate with each other in real-time. These systems

GPS-Based Fleet Management Solution for Construction Professionals Exhibited at CONEX Carolina

Navtrak Inc., a leading provider of GPS-based fleet management solutions exhibited its dispatching and fleet management service at Charlotte's CONEX Carolina, the leader in regional construction events.

CONEX was held December 12 & 13 at the Charlotte Convention Center. With over 20 years of industry knowledge and trade show experience, the CONEX shows are proven purchasing and educational tools for owners/presidents, final decision makers and a combination of professionals who serve both

the residential and commercial construction markets.

Navtrak's Carolina regional account executive, Wes Jones, noted, "CONEX serves as the area's only event to exclusively focus on equipment and tools for the construction, municipal, landscape and outdoor power equipment industries. Navtrak has an extensive client base in those areas, and we're anxious to show the Carolina construction community just how dramatically our fleet management service can transform the way

they manage their fleet and mobile workers."

A wide variety of exhibitors including Navtrak, Braswell Bobcat & Equipment Company, Briggs Construction, Charlotte Tractor, Coble Trench Safety, Dale Jarrett Ford, Taylor Pump and Lift, United Rentals and many more, presented construction professionals with a unique opportunity to save time and money by evaluating options and making purchasing decisions under one roof.

Source: Navtrak, Inc.

Taking Air Sweeping to a New Altitude

The Allianz Johnston RT655 is a product of engineering genius, designed and built to meet the rigorous standards of today's highly regulated sweeping requirements. It is an air regenerative sweeper that was designed to scrupulously clean the surfaces that nature, humans beings and machines pollute.

This machine produces the most incredibly powerful and continuous blast of air into a sealed hood that is pulled along over the road's surface. This air blast loosens and disturbs all debris it encounters. A suction duct within the hood conveys the newly disturbed but well trapped dirt, dust and debris, into the stainless steel hopper.

The RT655 features a gearbox driven blower, which eliminates belts and other high wear components, resulting in a lower cost of operation. The RT655 is available with a unique water recirculation system which filters water from the debris hopper resulting in less water usage and greater productivity.

The RT655 features a John Deere turbo-charged diesel engine, a 6,5 m³ stainless

steel debris hopper, a 950 l stainless steel water tank. The RT655 sweeps a 3,55 m wide path with its 1225 cm² vacuum nozzle.



NEW MADVAC LT500 HIGH CAPACITY LITTER COLLECTOR



The LT500 provides high volume litter collection in hard to reach areas, virtually transforming the traditional manual litter

picker into a highly automated litter collection system, leading to increased productivity. By significantly reducing fatigue causing injuries, litter picking has never been safer than with the LT500.

The LT500 vacuums trash and litter from trash cans, landfills, highways, parks and campgrounds, composting and recycling plants, streets, ditches, alleyways, racetracks, stadiums, ports, rail stations, zoos and many other hard to reach areas.

The LT500 features a joystick controlled robotic vacuum hose arm and a stainless steel litter container.

Source: Allianz Madvac Inc.

Booth S-608

Unimog U500 with MGM 500 High-Capacity Mulcher at *inter airport Europe 2007*

A Unimog U500 fitted with an MULAG MGM 650 high-capacity mulcher was displayed on Daimler's stand at the 16th International Exhibition for Airport Equipment, Technology & Services – *inter airport Europe 2007* held in Munich last October.

The MULAG MGM 650 high-capacity mower is the ideal workmate for maintaining extensive areas of grass at airports with a working width of 6,5 m to complement the year-round operation of a Unimog U400 (with M03 option) or U500. By finely mulching the grassy areas to be mown, there is no need to remove the cut grass. Even in sensitive security areas, say near runway beacons, the MGM 650 is the right tool for the job thanks to the independent sideways movability of all the mowing heads right through to the single use of individual mowing heads.

Thanks to the automatic parking system for the rear unit and a hydraulic pressure relief system, the high-capacity mower can be operated easily and efficiently. A hydraulic starting-off lock and an automatic mowing cutter shaft cut-out when raising the mowing

heads add the final touch to the mower's exemplary safety features.

As an all-round vehicle, the Unimog can take on jobs that differ by season, such as mowing, tunnel washing, pulling a sweeper/blower or operate as an aircraft tractor – the option to change implements flexibly according to the season ensures a high capacity utilisation and economical use of the carrier.

The cab boasts modern styling and is made of lightweight composite-fibre material. Inside the cab all the main controls are grouped together on a central console. Optionally, all U300 – U500 models can be supplied with the Vario-Pilot transferable steering system, which allows the steering column, instruments and pedals to be transferred from one side of the cab to the other in a matter of moments.



The U300 – U500 implement carrier is powered by 900-series four and six-cylinder engines with output ratings from 156 hp to 286 hp. The Unimog is fitted with transmissions of up to 24 speeds and has permanent four-wheel drive with a lockable centre and rear differential. The optional tire pressure control system can be used to reduce or increase the air pressure in the tyres. To assist with transporting and towing heavy loads, the Unimog can be fitted with a torque converter clutch.

Source: Daimler AG

Integrated Estimating and Project Management Software



For centuries, instruments such as the abacus and the counting frame have been created to help mankind measure every

IT (Information Technology) has brought on entire systems to process information.

Since 1985, LUQS has developed a range of civil engineering software tools, most notably in calculating project estimates. The prime directive in the development of these tools has been to follow strict rules while both working in a group and maintaining building codes. The first commercial software, GESQAN, was originally developed on a DOS platform but is now available for Windows. This product caught on very quickly, first with clients in Quebec, then throughout North America. Since then, however, new more refined technology has made the market more competitive. To keep up with market demands, we have found a new approach that meets the increasingly high standards of technology. And so, we have developed ProjEst.

ProjEst is a project management program. It leads the project through a system that

is open to a number of features:

- **Networkability:** it is adaptable to other software tools.
- **Portability:** it can be used on a variety of platforms.
- **Compatibility:** it is suitable for new and old working environments.
- **Validity:** it conforms to the standards and needs of the industry.
- **Verifiability:** it has a simple verification system.
- **Integrity:** it protects data from unauthorized access.
- **Reliability:** it correctly manages internal errors.
- **Maintainability:** it is easy to adapt and modify.
- **Reusability:** it can apply the same data to numerous projects.
- **Extensibility:** it can easily extend to other functions.
- **Efficiency:** it makes the most effective use

Item	Description	Unit	Quantity	Unit Price	Total Cost
1	Concrete	m³	100	150	15000
2	Steel	kg	500	20	10000
3	Labor	hr	200	50	10000
4	Formwork	m²	100	100	10000
5	Reinforcement	m	1000	10	10000

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aspect of life. The advent of automation at the turn of the 20th century led to digital technology by the turn of this century. Now

allows every aspect of a company's management process to contribute to the calculation of the estimate. ProjEst has a framework that

of its functions.

- **Autonomy:** it controls its own operation.
- **Transparency:** it can mask out details that

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are irrelevant to the project.

- **Composability:** it can analyze information from a number of sources.
- **User-friendliness:** it is easy to learn, easy to use.

of possibilities. It is a diagnostic tool that will help make strategic decisions in an uncertain climate.

ProjEst is a software innovation with a competitive advantage that responds to

l'innovation technologique 2006-2007" award for excellence in technological innovation; a testament to their continued teamwork and synergy between developer and client.

ProjEst is the ultimate Decision Support System. In the short and medium term, it will become a tool to help any company collect, consolidate, model and restore their data in order to calculate costs and come to the right decisions. ProjEst answers a wide range of pertinent questions by presenting a choice

market needs. Its development aims to perpetuate competition by becoming a pillar of the industry.

L'Ordre des technologues professionnels du Québec (OTQP) has recognized the innovative qualities of ProjEst by honoring LUQS president Guy Jobin the "Mérite de

For more information about ProjEst, write us at info@luqs.com or visit our website at www.luqs.com

Source: LUQS Inc.

CONEXPO Asia 2007 Sets Records

The CONEXPO Asia 2007 exposition was a great success, setting records for number of attendees and amount of exhibit space, as well as number of exhibitors. The show was held December 4-7, 2007 at the Chinese Import and Export Fair (CIEF) Pazhou Complex in Guangzhou, China.

About 28 000 registered industry professionals from close to 100 countries attended CONEXPO Asia 2007. CONEXPO Asia 2007 also more than doubled in size compared to 2006, with about 450 Chinese and international exhibitors and more than 100 000 m² of space.

The show opening ceremony included China's Vice Minister of Commerce, Mr. Wei, and other high-ranking dignitaries.

CONEXPO Asia 2007 offered a quality learning experience with exhibits of the latest construction technologies and equipment, live working equipment demonstrations, ex-

tensive industry focused education sessions and numerous industry meetings and events.

The success of CONEXPO Asia 2007 reflects the construction industry boom in the Asia Pacific region, and the mood was



positive among attendees and exhibitors, notes show owner and organizer, the Association of Equipment Manufacturers (AEM). In addition to AEM, the show organizer is the China Chamber of Commerce for Import and Export of Machinery and Electronic Products (CCCME).

The next CONEXPO Asia will be held in 2009. For 2008, AEM plans a knowledge-sharing tour throughout China for equipment users, with training courses to focus on safety operations, operating efficiencies and



improvement processes, including financial and environmental. Tentative locations include Beijing, Shanghai, Guangzhou, Kunming and Xi'an.

Source: Association of Equipment Manufacturers

Havator Group Reaches A New Dimensions in Personal Lifts

Havator Group has increased its fleet with the acquisition of two Wumag WT 1000 personal lifts that have the highest reach of all lifts existing in the world. Their maximum working height is 102,5 m (cage floor height 100,5 m) and outreach is 36 m (200 kg). The chassis is that of a five-axle All-Terrain crane.

In addition to this, Havator Group bought at the same time one Wumag WT 530 lift that has a maximum working height of 53 m. "We had a need for this additional investment because our aim is to fulfill all customer needs", stated Havator Group chairman of the board Erkki Hanhiova. "These new lifts enable us to get straight inside steel constructions in horizontal direction which saves building expense of scaffolding remarkably. Besides, these machines function excellently for example in maintenance work of wind mills and high city locations where traffic and street environment set their own limits and challenges", he added.

Havator Group is the biggest group in Scandinavia offering lifting services, special transport and dock crane services. Havator Group operates in Finland, Sweden, Norway, Russia and the Baltic countries.

Source: WUMAG GmbH



Appointments

Andrew Penca, Commissioner of Indiana Workforce Development, joined **Cummins** as assistant to president Joe Loughrey. His duties will be split between Cummins project work and supporting Mr. Loughrey's efforts as chairman of Conexus Indiana, a statewide advanced manufacturing and logistics initiative. Conexus' primary goal is to attract and educate young people in the state as they pursue careers in advanced manufacturing and logistics.

Andrew Penca joined Indiana Workforce Development in early 2005 and has served as Commissioner since October 2006. In his role with the state, Penca was instrumental in working with employers and state and local government officials to develop and implement programs and policies aimed at raising the education and skill levels of Indiana's workforce. He also brings extensive auto-related experience to Cummins. He spent roughly six years at Honda R&D Americas, Inc. in the advanced product planning and concept development department where he served in roles ranging from research analyst to senior specialist. During his time with Honda, he led concept teams responsible for the development of the current Acura TL, Honda Element, and Honda's first ever pickup, the Ridgeline.

Source: Cummins Inc.

Aerial Work Platform Safety to Be Featured at CONEXPO


Incorporating a range of access equipment from exhibiting manufacturer members, the AWPT Safety Zone at CONEXPO-CON/AGG will feature a fast-moving live demonstration on the dangers of not wearing a harness and the correct way to wear one. This 15-minute show will run at regular intervals throughout the day. AWPT (Aerial Work Platform Training) is the North American subsidiary of IPAF (the International Powered Access Federation); a not-for-profit members' organisation that promotes the safe and effective use of powered access worldwide.

In addition to the demonstration, AWPT will also promote "Click IT!", a safety campaign directed towards occupants of boom-type aerial devices. To remind and encourage people to wear a harness, AWPT had that advice printed on stickers that can be placed on the boom lift where all occupants in the platform can see them. In addition, AWPT has made available a document titled "Technical Guidance Note AWPT H1" that provides information on their recommendation for the proper use of harnesses and lanyards on different types of aerial platforms.

The new programme's initiative came from companies frustrated with the fact that people are dying in boom type lifts because they are not wearing a harness that would keep them from being thrown or catapulted from the platform if it is struck by a vehicle (or another piece of equipment) or is affected by ground subsidence.

Thousands of stickers in six languages have been printed and the programme is endorsed by the Scaffold Industry Association as well as many aerial equipment manufacturers and rental companies throughout the world.

Source: IPAF (the International Powered Access Federation)

 Booth B-940

Petter M. Etholm has joined **Thomas Equipment, Inc.** as president and CEO and a member of the company's board of directors. He succeeds Michael Luther, who will remain with Thomas Equipment as chairman of the board.



Thomas Equipment is emerging from a period of financial difficulty and embarked on a restructuring program to regain its market position and financial strength. With manufacturing plants in Canada and South Korea, Thomas Equipment is a global manufacturer and marketer of industrial and construction equipment through its Thomas Equipment 2004 subsidiary and of pneumatic and hydraulic systems for the fluid industry through Pneutech Inc., and designs wireless devices for the telecommunications industry, among its other businesses.

Previously, Petter M. Etholm was a consultant to the Thomas Equipment 2004 subsidiary. Before that, he was president of Cardsmart Retail. Previously, he was executive vice president of Nutri/System, Inc., overseeing its restructuring after having been one of Nutri/System's most successful franchisees. Earlier in his career, he founded Norwegian Wood Inc., a flooring supplier to the home building industry, and founded Elinex, LLC, a web-based electricity contract trading company.

Source: Thomas Equipment, Inc.

Volvo CE Unveiled New Look Road Machinery at EXCON

In a move that shows the growing importance in the Indian subcontinent, Volvo CE has chosen the EXCON (The 4th Construction Equipment and Construction Technology Trade Fair) held last November in Bangalore, India, to offer a glimpse of the Volvo branded Road Machinery products in the company's yellow and grey livery.

The machines modeling the new look at the show were the single drum SD110 compactor, DD80 double drum compactor, the PT220RH and the ABG 4361 paver.

Since acquiring the road machinery business from Ingersoll Rand in April 2007, the products have continued being marketed in the previous owner's branding. This agreement is set to end by April 2008 but it is expected that the first "new-look" machines will roll off the production lines earlier than that.

Commenting on the reason behind using the EXCON show to unveil the new look products, Pat Olney, president of Volvo's road machinery business line, said: "India is the world's second fastest growing major economy. A key element of India's economic development is to improve the country's infrastructure – and highways will play a major part in that. We already have a significant market presence in India, both in terms of customer share and manufacturing base. Therefore, unveiling the new-look product line here in Bangalore is

only natural."

Source: Volvo Construction Equipment

Booths: G-134, N-2509



Camoplast Inaugurates its New Technical Centre

Camoplast Inc., announced the official opening of the new Camoplast Technical Centre (CTC). The new building, located in Quebec's Eastern Townships, is comprised of a research centre, laboratory and product testing facilities. It represents an investment of \$9 million and will generate 35 new positions at the CTC, as well as 50 other positions elsewhere in the company.

The CTC aims at consolidating, under one roof, the entire research and development activities of Camoplast's Track Systems and Thermoplastic Groups. It was scheduled to begin its operations in November, with a team of about sixty employees, including 10 new hires, comprised mostly of engineers and technicians. This number should increase by 25 over the coming years, along with 50 other positions elsewhere in the company.

The municipality of Magog was selected following a call for proposals with many regions, initiated more than two years ago.

"We opted for the town of Magog to carry out our CTC project because this region had sites to perform testing on our products, that it was central for our production operations and that it favours the rubber/plastic sector as primary axis of development" indicated Pierre Marcouiller, Chairman of the Board and CEO of Camoplast Inc. "Our customers will continue to benefit from the best equipment and product design tools in the industry, world class systems and processes and our unparalleled team of technical experts", he added.



From l. to r.: Pierre Reid, MP for Magog-Orford; Sam Hamad, Quebec Minister of Employment and Social Solidarity; Pierre Marcouiller, Chairman & CEO, Camoplast Inc.; and Marc Poulin, Mayor, City of Magog

Camoplast designs, develops and manufactures specialized components, sub-systems and assemblies for the world leading original equipment manufacturers (OEMs) of both on- and off-road vehicles. The company also manufactures a full line of multi-terrain tracked vehicles for the utility, oil & gas, telecommunications, mining, alpine, municipal, and OEM markets, sold under the CAMO brand.

Source: Camoplast

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Agenda

World of Concrete 2008

Exhibition: January 22 - 25, 2008
Seminars: January 21 - 25, 2008
Las Vegas, NV USA

NAPA's 53rd Annual Meeting

January 26 - 30, 2008
Phoenix, AZ USA

The Rental Show 2008

February 11 - 14, 2008
Las Vegas, NV USA

Winter Road Congress in Finland

February 12 - 14, 2008
Turku, Finland

The Work Truck Show 2008

NTEA Convention: February 25 - 28, 2008
Trade Show: February 26 - 28, 2008
Atlanta, GA USA

CONEXPO-CON/AGG 2008

March 11 - 15, 2008
Las Vegas, NV USA

AirportExpo

April 8 - 10, 2008
Las Vegas, NV USA

Truck World 2008

April 17 - 19, 2008
Toronto, ON Canada

Ankomak 2008 17th Construction Machinery, Building Elements & Construction Technologies Exhibition

April 25 - 29, 2008
Yesilkoy, Istanbul, Turkey

INTERtunnel 2008 - 8th International Tunnelling Exhibition

May 20 - 22, 2008
Turin, Italy

Eurobitume & EAPA Congress 2008

May 21 - 23, 2008
Copenhagen, Denmark

AORS 2008 TRADE SHOW - June 4 and 5

June 4 - 5, 2008
Walkerton, ON Canada

49th CRCA Annual Meeting and National Conference

June 18 - 21, 2008
Vancouver, BC Canada

inter airport India

September 11 - 13, 2008
New Delhi, India

CONEXPO Russia

September 15 - 18, 2008
Moscow, Russia

MINExpo® 2008

September 22 - 24, 2008
Las Vegas, NV USA

INTERROUTE&VILLE 2008

September 23 - 25, 2008
Rennes, France

Sim Congress (Société de l'industrie minière)

October 14 - 17, 2008
Limoges, France

Garden & Florist Expo 2008

October 21 - 22, 2008
Toronto, ON Canada

Bauma China 2008

November 25 - 28, 2008
Shanghai, China

inter airport China

December 2 - 4, 2008
Beijing, China

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