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A Word From the Publisher

Celebrating the start of a new year, InfraStructures features even more articles and stories on heavy machinery and specialized equipment. Our commitment to become the first national has proven a success with more content in English with every issue.

InfraStructures now reaches over 25 000 readers across Canada. Its focus on a wide range of subjects is unique, offering advertisers an efficient way of reaching their target customers with one magazine. Furthermore, readers can rely on InfraStructures to keep them informed on what is brewing in the industry in general.

In the next months, we will focus on the World of Concrete, the Rental Show, the World of Asphalt, The National Heavy Equipment Show, and Bauma + Mining.

Take the time to contact us to update your coordinates. You can also add your colleagues to our mailing list. Send us an e-mail or a fax...

We hope that you will enjoy reading InfraStructures and would like to extend our warmest wishes for a prosperous and joyful new year,



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On the cover:

a Bobcat skid steer loader is used to clear the snow in a city park. Powerful and nimble, compact machines can now be equipped with enclosed cabs that provide a comfortable work environment to the operator.

CANAM GROUP ANNOUNCES TWO ACQUISITIONS IN THE BRIDGE SECTOR

Canam Group Inc. announced recently that it has acquired the majority of the assets of Goodco of Laval and Z-Tech of Boisbriand, manufacturers of structural bearings and expansion joints for bridge and highway infrastructure. Goodco and Z-Tech generate a total of nearly \$10 million in annual revenues. The purchase price for both acquisitions was not disclosed.

Canam Group will merge the two businesses to create "Goodco Z-Tech", and the 40 or so employees already in place will be relocated to Canam Group's plant in Laval. The new manufacturing operation will be managed by Structal-Bridges.

"Structural bearings and expansion joints are custom designed, metal-based products that can be used for steel or concrete highway bridges, overpasses and railway bridges," said Robert Dutil, vice president

and general manager of Structal-Bridges. "These acquisitions will strengthen our presence in existing bridge markets, increase customer confidence and make us a leading manufacturer in this field across Canada."

According to Mr. Dutil, these acquisitions should have a positive impact on Structal's overall financial results in 2007.

Source: Canam Group Inc.

GL&V AWARDED LARGE-SCALE CONTRACTS IN CHINA AND RUSSIA

Groupe Laperrière & Verreault Inc. is pleased to announce that over the past few weeks, the Pulp and Paper Group was awarded three large contracts in emerging countries, totalling close to \$11 million. The largest order, worth \$6.5 million, is for the supply of pulp washing and stock preparation equipment to a producer in Russia, scheduled for delivery by September 2007. The other two orders are from Chinese producers and consist of two BTFTM headbox systems, as well as a series of filters. These contracts will be completed in July and May 2007 respectively.

"We are pleased with these new orders, which add to the several other major contracts our Pulp and Paper Group has landed in emerging markets in recent months. They attest to the progress achieved by this group in continually increasing their presence in these dynamic regions, by means of a product selection that meets the global pulp and paper industry's needs for high-performance value-added solutions, capable of improving manufacturers' productivity and costs," indicated Richard Verreault, president and COO of GL&V.

GL&V PURCHASES PROCESS EQUIPMENT SUPPLIER KREBS INTERNATIONAL

Groupe Laperrière & Verreault Inc. announces that it has signed a definitive agreement to acquire all the share capital of Krebs International Inc. based in Tucson, Arizona, along with its six wholly-owned subsidiaries in Australia, Brazil, Chile, Austria, South Africa and China, as well as sales and engineering offices located in various areas in the United States and in the Philippines and the United Kingdom. The closing of the transaction is subject to standard conditions. It will be completed for a cash consideration. The acquisition is financed using GL&V's credit facilities; the maximum amount of these facilities was recently raised from \$180 million to \$320 million.



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Laurent Verreault, chairman and CEO of GL&V, indicated that the purchase price reflects the considerable accretive value and excellent organic growth potential related to the technologies of Krebs, whose revenues have posted a 33% average annual growth over the past three years, and the strength of this company's global positioning, especially in the aftermarket where it has a substantial and highly profitable operational base. "Considering Krebs' growth track record in recent years and its current order backlog, we estimate that it will provide GL&V with additional revenues of approximately \$110 million during the first full year. Furthermore, this acquisition meets three of GL&V's key objectives, which are: to consolidate our position in the global ore processing industry by completing our customers' process flowsheets; to accelerate our development in certain other buoyant markets including energy; and to increase our aftermarket business in order to benefit from a solid stream of recurring revenues yielding attractive profit margins."

Founded in 1950, Krebs designs, manufactures and markets high-performance liquid/solid separation equipment for a wide variety of applications and industries, mainly metals and minerals processing. In the past few years, the company has also developed its presence in the energy sector, especially the fast growing oil and gas segment.

GL&V'S PROCESS GROUP AWARDED AN ORDER FOR A TAR SANDS DEVELOPMENT PROJECT IN ALBERTA

Groupe Laperrière & Verreault Inc. is pleased to announce that its Process Group (Dorr-Oliver Eimco) has been awarded a \$14.4 million order to supply a significant number of large capacity flotation cells used for the primary and secondary recovery of bitumen, as part of a large-scale tar sands development project in Alberta, Canada.

"Along with the ore processing sector, the energy market offers major opportunities for our Process Group and represents one of its major development targets, in light of this market's excellent growth outlook worldwide and of our Process Group's growing technological portfolio and recognized know-how in this field," indicated Richard Verreault.

"Accordingly, one of the key strategic objectives of our Process Group for the upcoming years will be to increase its presence and expand its technological portfolio in order to provide comprehensive solutions as a global supplier to the energy industry."

GL&V AWARDED A CONTRACT FOR A GOLD AND SILVER PROJECT IN MEXICO

Groupe Laperrière & Verreault Inc. announces that its Process Group (Dorr-Oliver Eimco) has been awarded a contract worth close to \$15 million for a world-class gold and silver project in Mexico. The contract is to supply, by December 2007, a major metallurgical flotation system consisting of 53 flotation cells of different sizes and types. The order includes 22 WEMCO® 257 m³

flotation cells which are among the largest mineral flotation machines ever built. Richard Verreault pointed out that this project will bring on stream one of the most important metallurgical flotation systems ever designed and produced by Dorr-Oliver Eimco.

"It attests to GL&V's position as a world-class provider of high-performance metals and minerals processing solutions, a booming sector in several regions of the world."

Source: Groupe Laperrière & Verreault

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SNC-LAVALIN AWARDED EPC CONTRACT IN QATAR

SNC-Lavalin is pleased to announce that it has signed a contract with state-owned Qatar Petroleum and Hydro Aluminium a.s. to carry out the engineering, procurement and construction (EPC) of the Services' Area and Potroom Building of a new aluminum smelter (Qatalum) in Mesaieed, Qatar.

The contract is valued at approximately US\$700 million, a major portion of which will

consist of an agreed lump sum at the end of the front-end engineering and development (FEED) phase of the project. As per the terms of the agreement, the FEED engineering services are already underway and are expected to be completed by November 2007. Construction on the Services Area and Potroom Building will begin immediately afterwards, with completion scheduled before the end of 2009.

"We are very pleased to be working with

Qatar Petroleum and Hydro and to have this opportunity to put our recognized expertise in smelter design and construction at the disposal of Qatalum," said Pierre Duhaime, executive vice president, SNC-Lavalin Group Inc., in charge of worldwide mining and metallurgy operations. "The combination of low cost and significant resources of natural gas in Qatar coupled with Hydro's technology and operation experience, make it an ideal location for a new aluminum smelter."

Potrooms are a key part of the aluminum smelting process. Once SNC-Lavalin has completed its work of constructing the new potroom building, rows of large process pots will then be completed under separate tenders and contracts, along with other process areas.

"This contract reflects confidence in our expertise in the construction of aluminum smelters," said Adrian Owens, vice president and general manager of SNC-Lavalin's Aluminum Division.

Source: SNC-Lavalin Group Inc.

WIND POWER PROJECT A FIRST FOR NEXEN

Nexen Inc. and GW Power Corporation recently took their first steps toward alternative energy production with the official opening of their \$113 million Soderghen wind farm.

The 70,5 MW wind power project, located southwest of Fort Macleod, is a 50-50 joint venture between Nexen and GW Power, the project developer and operator.

The wind farm began producing electricity in early September and, at full capacity, will produce enough green power to provide electricity for 25 000 homes. The project consists of 47 wind towers, each with a 1,5 MW turbine. The wind farm will produce enough clean energy to offset 95 000 t of CO₂ equivalent per year.

"This is an important step for Nexen," said Charlie Fischer, Nexen's president and CEO. "It's an innovative, environmentally-conscious way to add power to the Alberta power grid and it also helps us to manage our overall corporate CO₂ emissions."

"The Government of Canada places great importance on renewable energy sources, including wind," said Ted Menzies, member of Parliament for Macleod, on behalf of the Honourable Gary Lunn, minister of Natural Resources Canada. "These sources will be increasingly important as we pursue a sustainable, environmentally friendly energy mix in Canada."

Wind power is a relatively inexpensive,



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reusable, reliable and environmentally-friendly form of energy. Alberta currently generates more electricity from wind farms than any other province in Canada.

"This is a great, environmentally-sound economic project that will give Albertans a green power alternative," said Warren Holmes, executive chairman, GW Power Corporation.

The Government of Canada will invest more than \$20 million over ten years, through

the Wind Power Production Incentive program, in the Soderghen Wind Farm.

Source: Nexen Inc.

MAHLE TO BUY DANA'S ENGINE PARTS OPERATIONS

Dana Corporation announced that it has entered into a stock and asset purchase agreement with Mahle GmbH, a leading supplier to the automotive and engine industries, for the sale of Dana's non-core engine hard

parts business.

The agreement provides for Mahle and certain of its affiliates to acquire the equity and tangible and intangible assets of the global operations comprising Dana's engine hard parts business from Dana and certain of its affiliates for an aggregate price of approximately \$157 million. The price includes approximately \$98 million in cash, subject to usual adjustments at closing, and the buyers' assumption of certain liabilities related to the business. In connection with the transaction, the parties will also enter into ancillary agreements, including a transition services agreement and a distribution agreement relating to Victor Reinz® branded products.

Closing of the transaction is subject to the approval of the United States Bankruptcy Court for the Southern District of New York, which has jurisdiction over Dana's Chapter 11 reorganization proceedings; government regulatory approvals; and customary closing conditions.

As a standard element of the bankruptcy process, Dana has filed a motion with the Bankruptcy Court seeking approval of procedures that will provide an opportunity for competitive bids on the engine hard parts business before the sale is approved by the Court. Dana expects to complete the bidding process and to secure the regulatory approvals in time to close the sale in the first quarter of 2007.

The engine hard parts business consists of 39 facilities which manufacture piston rings, engine bearings, cylinder liners, and camshafts under the Perfect Circle®, Clevite®, and Glacier Vandervell® brands. With annual revenues of approximately \$670 million in 2005, the operations to be divested employ approximately 5000 people in 10 countries. Dana announced its intention to sell its engine hard parts business in late 2005.

Dana chairman and CEO Mike Burns said, "This divestiture is an important step in implementing Dana's reorganization initiatives and sharpening our focus on our core axle, driveshaft, structural, sealing, and thermal products businesses for the automotive, commercial vehicle, and off-highway markets. This transaction also represents an excellent opportunity for Mahle. While no longer central to Dana's future direction, our engine hard parts business and people have strong potential for an owner that is strategically focused on this market segment."

Source: Dana Corporation

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BID2WIN OFFERS COMPANIES PEACE OF MIND WITH NEW ESTIMATE SECURITY FEATURE

BID2WIN Software, Inc. recognized an increasing need for organizations to monitor their estimates in a changing and fast paced environment. Estimate Security, a new option in BID2WIN Service Pack 4, was developed to meet that need. The infrastructure industry operates more efficiently with dedicated access to the security and control functions of estimating software. Changes to projects can easily be tracked and then accounted for, when authorization can be regulated.

This new option in the successful, industry-leading software can enable advanced security options and control access, authorization and permissions to all cost estimates. Dave Todaro, vice president BID2WIN Software, Inc. knows, "Companies no longer need to worry about unauthorized data changes or deletions. Estimate Security provides not only the company but managers, administrators and estimators with peace of mind."

Estimate Security allows certain limitations on estimates, specifically, controlling creation, visibility, modification, and deletion of estimates. This is critical to organizations to ensure that sensitive data is controlled, and information is not mistakenly changed or deleted.

Estimate Security provides the necessary controls by allowing the configuration of security settings at two separate levels. Security settings may be configured for all users, groups of users, or individual users. This allows managers and system administrators much needed flexibility to determine who may configure and manage these limitations. The originator of Service Pack 4: Estimate Security, BID2WIN Software Inc. provides enterprise-class construction management software for heavy construction and civil engineering firms.

Source: BID2WIN Software, Inc.

JOE JOHNSON EQUIPMENT IS THE NEW DEALER FOR ELGIN AND VACTOR IN ALBERTA AND QUEBEC

Federal Signal Environmental Products Group is pleased to announce that Joe Johnson Equipment Inc. will become the authorized sales and service dealer for Elgin Sweeper and Vactor Manufacturing in the provinces of Alberta and Quebec.


"We are extremely pleased to be expanding our dealer relationship with Joe Johnson Equipment as we continue to serve our

customers in North America," said Mike Higgins, vice president of sales for Federal Signal Environmental Products Group. "Joe Johnson Equipment is an authorized sales and service dealer for Elgin and Vactor in locations throughout Canada – as well as two locations in the state of New York in the United States – and we are confident they will do an outstanding job representing the Elgin and Vactor brands in Alberta and Quebec."

"Our company has been selling and

supporting Elgin sweepers and Vactor combination sewer cleaners, jetters and HXX HydroExcavators to the municipal and contractor market in North America for many years, so we are very proud to have the opportunity to now serve in that same capacity in Alberta and Quebec," said Joe Johnson Jr., president, Joe Johnson Equipment Inc.

According to Mr. Johnson, new state-of-the-art facilities will be opened in Alberta and Quebec in early 2007. "With our new facilities



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we will be able to provide the same high level of sales, service and parts support for the Elgin and Vactor brands in Alberta and Quebec that we offer at our other locations in North America," he said.

Joe Johnson Equipment Inc. is a family-owned business that specializes in municipal and contractor equipment for snow and ice control, hydroexcavation, sewer cleaning, road maintenance and refuse and recycling collection, as well as after sales parts and service. In addition to the new locations in Alberta and Quebec, the company has facilities in Barrie, Halifax, Ottawa and Winnipeg in Canada, as well as in Buffalo and Rochester in New York.

The Federal Signal Environmental Products Group includes Elgin Sweeper, Guzzler Manufacturing, Jetstream of Houston, LLP, Ravo

and Vactor Manufacturing.

Source: Federal Signal Corporation

EATON ACQUIRES ASSETS FROM CATALYTICA ENERGY SYSTEMS

Diversified industrial manufacturer Eaton Corporation recently announced it has acquired the diesel fuel processing technology and associated business assets of Catalytica Energy Systems Inc.

Under the terms of the agreement, Eaton will receive the assignment and license of intellectual property relating to Catalytica's diesel fuel processing system and the transfer of certain assets. Additionally, Eaton will take over Catalytica Energy Systems' research and development facility in Mountain View, California, which employs 12 people engaged in the design and development of emissions control solutions.

"Catalytica's expertise in diesel fuel processing technology complements our product development activities and will be an important part in helping our customers meet the 2010 U.S. environmental regulations," said Jim Sweetnam, Eaton senior vice president and president - Truck Group.

Eaton Corporation is a diversified industrial manufacturer with 2005 sales of US\$11.1 billion. Eaton is a global leader in electrical systems and components for power quality, distribution and control; fluid power systems and services for industrial, mobile and aircraft equipment; intelligent truck drivetrain systems for safety and fuel economy; and automotive engine air management systems, power-train solutions and specialty controls for performance, fuel economy and safety. Eaton has 60 000 employees and sells products to customers in more than 125 countries.

Source: Eaton Corporation

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FECON National Meeting & Demo

FECON, Inc. hosted dealers from across the United States and Canada at their 2006 "Improve Your Game" National Sales Meeting in Cincinnati, Ohio last October. Fecon dealers were welcomed with a "Kick-Off, Meet & Greet" Reception which was followed by a day and a half of Field Demos and Classroom Training. FECON demonstrated 7 machines including their new FTX440 Track Carrier and SH340 Stump Grinder for Excavators. And, FECON introduced and demoed the new FTX325 Mid-Sized Track Carrier and its new line of Mini Grapples for Mini Excavators and Mini-Skid Steers.

FECON, Inc. manufactures the Bull Hog® Mulcher, FTX Track Carriers, Tree Shears, Grapples and Stump Grinders for Vegetation Management and Reforestation.

Source: FECON, Inc., www.fecon.com

IMT Adds Midsize Crane Body to Dominator® Mechanics Truck Family

Iowa Mold Tooling Co., Inc. has taken some of the key features from their Dominator® mechanics trucks and added them to the DSC20 crane body in order to give the operator more comfort and mobility around the vehicle and to bring the truck into the Dominator family.

Some of the enhancements to the new Dominator DSC20 mechanics truck include a patented floor design, greater accessibility to tools, a single-handle latch on the tailgate, an enhanced shelf hanger bracket system, the addition of rain eaves, sidepacks designed for greater storage and improved visibility of rear LED taillights. And IMT made these enhancements because of the company's commitment to listening to customer needs.

"The people using these trucks every day have tough jobs and know exactly what they need to make their truck easier to use," said Tim Worman, product manager of commercial vehicles for IMT. "Customer input was critical to the enhancements we made to our

other Dominator mechanics trucks, and we've now taken that same insight and applied it to the Dominator DSC20. The result is an ideal configuration for our customers who need to provide field service for smaller equipment."

The Dominator DSC20 mechanics truck is ideal for small to midsize equipment maintenance applications and is rated for a maximum of a 2,08 tm crane. The truck can utilize IMT telescopic cranes up to the 2020 model, as well as the other cranes from the IMT line of electric telescopic cranes with lifting capacities from 900 kg to 2700 kg. Operators can use the cranes to perform equipment maintenance



in the field such as replacing or repairing hydraulic cylinders, track components, scraper blades, buckets, hydraulic pumps, engines and transmissions, just to name a few.

Source: Iowa Mold Tooling Co., Inc.
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Alfred McAlpine employs Brevini to solve Yorkshire Water's gearbox problems...

*Jon Snaith, General Manager,
Brevini UK*

"We faced a number of challenges on this project, including having to design a retrofit solution that would fit in place of what was already there with little or no additional engineering. We first looked at the failure mode of the existing gearboxes, then designed and engineered a system to solve these issues", said Jon Snaith, senior engineer in charge of the project for Brevini.

Two aspects were key; the first was the physical weight of the aerator paddles, up to half a tonne each with the majority of the weight sitting on the gearbox end bearings. The second was vibration, caused by the fact that the paddles were not perfectly balanced to start with and compounded by the effects of subsequent uneven corrosion and weathering that is typical of these items.

"Vibration is the bane of all mechanical systems and in extreme cases such as this it can weaken mountings, wear out gears and cause bearings to collapse. We started from the mounting upwards, selecting special anti-vibration washers and nylon-sleeve locking bolts to reduce the effects of vibration, balancing the paddles and fitting large taper roller bearings to the final output stage of the gearboxes that could take far more punishment, up to ten tonnes thrust load in this case," added Jon Snaith.

All ten of the aerator drives have now been replaced, with an estimated payback period of just two years for the entire project. The wear life even in constant operation is

a predicted 100 000 h with just simple and inexpensive oil changes required periodically.

"We knew there had to be a better solution

for these drives and with increasing demand on the system, we were at a stage where we could not afford to have one or two aerators always out of action for one or two weeks at a time. Since the refit we walk the site every day and there is noticeably less vibration from the units, which are all ramped up and down to 100% operating speed many times



Yorkshire Water collects; treats and disposes of about one billion litres of wastewater safely back into the environment each day. Through its grid system the company operate more than 700 water and sewage treatment works and 120 reservoirs. Yorkshire Water also operates 65 000 km of water and sewerage mains – enough pipework to circulate the earth! Many of these pipes were constructed back in the 19th century and are still in use today. The company sees it as its job to maintain these in good working order and continually improve them for future generations to protect public health, the environment and public water supply.

Yorkshire Water's Rawcliffe Sewage Treatment Works processes waste water for the equivalent of 45 000 homes, treating up to a maximum flow rate of 23 600 m³/day and adhering to strict standards for safe disposal. The problem Dave Milburn, Rawcliffe's site manager faced was, up until recently, this treatment capacity was an "ideal" rather than a reality. Due to gearboxes breaking down on the sites ten large aerators, all ten were never working at the same time, until Brevini designed a reliable replacement drive system employing WIMES spec EFF1 efficiency motors, inverter drives and high-torque Brevini planetary reduction gears.

a day. The commissioning was completed within three weeks and caused no downtime thanks to it being a pre-engineered system that dropped into place of the original units, an essential requirement due to the continuous nature of this site", according to Dave

Milburn, site manager for Yorkshire Water.

The other major consideration Brevini addressed was the service factor on the gearboxes themselves, the previous ones Brevini estimated to have been specified with a service factor of 1.7, which in this tough operating environment and with very high usage was totally inadequate. Brevini works on a service factor of 7 on this type of application, the company's experience and accurate calculations based on whole-life-costs to ensure the whole aerator drive reached its predicted wear life before requiring any maintenance or eventually replacement.

The Brevini gearboxes used were designed specifically for arduous, continuous applications such as this, the planetary design having inherent advantages over conventional helical gearbox designs because there is an equilibrium of forces on individual gears so the planet carrier is in charge of transmitting torque only. Conventional Helical gearboxes employ a system of bearing supported gear carrying shafts where forces are concentrated. Planetary gearboxes have a complete gear system that is in-line, so there are no high torsional loads on the bearings and gear

elements - the result in an extremely long wear-life.

Sensors that monitor the oxygen content of the wastewater trigger the aerators. The 5.5 kW motors supplied are inverter driven for maximum efficiency, the drives also allow smooth ramp-up and ramp-down and an optimised 1440 rpm motor speed. The motors drive two planetary stages at 20:1 reduction ratio to achieve 70 rpm at the output shaft, rated for a continuous output torque of 13 000 nm and a 20 000 nm peak intermittent load.

"Reliability was a paramount concern for us and we were impressed with Brevini's track record in providing this type of solution to other water authorities such as Thames Water. The efficiency of the system was also excellent and the fact that it could be engineered as a package and fitted directly to the existing mounting with little or no fabrication on site was crucial for us," declared Keith Donaldson of Alfred McAlpine Business Services, a leading support services group focused on providing their clients with integrated solutions for all their built environment needs, responsible for the project

management of this scheme.

The savings are not just limited to those made on repair and replacement cost, Brevini planetary gear reduction stages are 98% efficient and a five-stage reduction can be powered by a relatively small electric motor working at maximum efficiency. Using less power the package delivers an overall efficiency of over 87.5 providing substantial energy savings in the long term.

"Brevini UK Limited are expanding their solutions within the utility sector and offer a series of planetary reduction stage gearbox designs that are ideal for use in arduous applications in the water industry such as scrapers, thickeners, aerators and pumping installations. The company has a long-standing history of supplying OEM manufacturers of new water treatment equipment worldwide because the majority of applications lend themselves to the low-speed, high-torque characteristics that make planetary solutions ideal. More recently Brevini have been supporting more UK Water Authorities with 'engineered solutions' to troublesome and obsolete gearbox drives," added Jon Snaith.

Source: Brevini UK



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Innovative & Safe Dry Ice Blaster for In-Place Cleaning

Kärcher Industrial Products has introduced a dry ice blaster – a highly effective and mess-free method for in-place cleaning that eliminates the need to disassemble or move machinery before it is cleaned.

The new IB 15/80 Dry Ice Blaster uses compressed air to propel tiny dry ice pellets at supersonic speeds so they flash freeze and then lift grime, paint, rust, reins, mold, asphalt and other contaminants from off a broad range of surfaces. Moreover, the pellets quickly dissipate into the air so there is no messy wastewater, solvents, sand or other media to dispose of, only the soiled contaminant that is easily swept up or vacuumed.

Other cleaning media, such as sand or glass beads, are often too abrasive etching or

pitting the surface. Dry ice can be regulated so it is non-abrasive, using micro-thermal shock (the dry ice temperature is -78°C to lift the contaminant off the surface. Consequently, it is safe to use on virtually any surface, from plastic and rubber to all metals and even wood.

Dry ice blasting is growing in popularity because it completely eliminates the need to disassemble or move machinery before it is cleaned. The labor savings are significant and dry ice blasting cleans in crevices that cannot be reached by hand or via other cleaning methods.

Dry ice blasting is extremely environmentally friendly. The CO_2 pellets are non-toxic and non-hazardous making them safe for



the environment, equipment, the workplace and, especially, employees. It is also safe to use in a kitchen, as there is no captured air or gas introduced into the process to create a pathogenic risk.

Source: Kärcher Industrial Products

Mack Gets Thumbs Up From EPA And Customers

Mack Trucks, Inc. today announced that the U.S. Environmental Protection Agency has certified its MP engine series to the 2007 emissions standards that went into effect January 1st, 2007.

Mack is using a combination of proven exhaust gas recirculation technology and a diesel particulate filter to satisfy the new requirements, which reduce allowable levels of NOx by a minimum of 50% and particulates by a minimum of 90% from today's already very clean levels.

"This milestone further confirms the effectiveness of our '07 solution, and the fact that we are ready to deliver the performance and value that our customers expect and demand from Mack," said Paul Vikner, president and CEO.

Customers testing the new Mack® engines back up Mr. Vikner's point.

"We are very pleased with the performance of this truck," said George Strickland, general manager for JDM Materials headquartered in Huntingdon Valley, Pennsylvania, which has accumulated more than 30 000 km on a Mack US'07 Granite MP series dump truck. "Any time you get a new model, you're a bit apprehensive. This was our first experience with a Mack MP engine. And we were very anxious to see how the particulate filter would perform. So we went ahead and put the truck right into our normal operations running sand three times a day from our plant in southern New Jersey to locations in Montgomery County, Pennsylvania – about 650 km daily on a combination of highway and local roads. And we have had absolutely no issues. I would not hesitate to buy more of these trucks."

Source: Mack Trucks, Inc.



Scania to Launch Euro 5 Engine With EGR in 2007

Recently, Scania's Group vice president Research and Development Hasse Johansson announced that Scania will start introducing its new engine platform for Euro 5 during 2007. On these new engines, Scania uses exhaust gas recirculation, without any aftertreatment to meet Euro 5. This technology does not require the driver/operator to handle any additives when refueling and no extra installations are needed on the vehicle.

"Scania has a leading position in the industry in terms of meeting environmental demands and customer requirements," stated Hasse Johansson. "During 2007 Scania will start introducing a new range of Euro 5 engines with EGR and with the new Scania XPI common-rail fuel injection system, starting in the mainstream long-haulage segment. The new engines meet Euro 5 without any fuel penalty," concluded Mr. Johansson.

Two years ago, as the first heavy truck manufacturer on the market, Scania introduced its first Euro 4 engines using EGR technology.

Scania has since introduced a comprehensive range of Euro 4 and Euro 5 engines using both exhaust gas recirculation and selective catalytic reduction¹.

Experience of Euro 4 and Euro 5 in day-to-day operation indicates that truck and bus operators prefer EGR because this technology is more convenient for many applications.

¹ EGR recycles exhaust gases into the engine to reduce NOx emissions. Scania's high-pressure fuel injection system is used to reduce particulates.

SCR is an after treatment technology that cleans exhaust gases after combustion by injecting a urea solution into the exhaust gases. This system is currently used in order to achieve Euro 5 standards.

Source: Scania AB



NAPA Announces 52nd Annual Meeting in San Francisco

The National Asphalt Pavement Association announced that its 52nd Annual Meeting February 18-21, 2007 at the San Francisco Marriott in California will have three general sessions and twelve educational workshops specifically designed to give information and tools to take home and use. Topics include management and leadership, fuel and asphalt, funding issues at the federal level, asphalt technology, communications, safety, and environment. Keynote speaker Jim Collins (author of best sellers Good to Great and Built to Last), starts the first general session with leadership advice on how to make a good company great and shares with attendees how to get the "right people on the bus" and "build flywheel momentum" to help business leaders grow their companies. Mr. Collins will also moderate an industry panel building on the key principles of the first general session.

Speakers Gregory M. Cohen, American Highway Users Alliance, and Dennis Faulkenberger, Ice Miller, LLC, will discuss Funding

the Interstates of the Future. The Highway Trust Fund will be addressed, and a panel of leading industry experts will discuss new plans for financing the federal highway program and share the challenges of federal highway maintenance and construction.

Attendees will learn what the issues of concern are and ideas being proposed, as well as how to approach elected officials to discuss those issues.

The National Asphalt Pavement Association, which counts over 1100 member companies, is the only trade association that exclusively represents the interests of the hot-mix asphalt producer/contractor on the national level with Congress, government agencies, and other national trade and business organizations. NAPA supports an active research program designed to improve the quality of HMA pavements and paving techniques used in the construction of roads, streets, highways, parking lots, airports, and



environmental and recreational facilities. The association provides technical, educational, and marketing materials and information to its members; supplies product information to users and specifiers of paving materials; and conducts training courses.

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



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Things Are Brewing in the Light-Truck Business for 2007

For the 2007 model year, new or revamped models are the norm. In general, powertrains benefit from the availability of cleaner-burning fuels such as 85% ethanol-gasoline mix (E85)



and low-sulfur diesel fuel. Another fact is that customers will always want more power. This year, the bar has been raised to 350 hp and 650 lb.-ft. of torque on the new diesel



engines.

Built on a completely new platform named GMT900, the **Chevrolet Silverado** and **GMC Sierra** pickups sport a fully boxed frame,



coil-over-shock front suspension and rack-and-pinion steering.

New powertrains feature technologies designed to improve fuel economy. Among

them, a 5,3 l FlexFuel engine can run on E85 ethanol.

The Chevrolet Silverado and GMC Sierra pickups also feature more spacious interiors and extended cab models feature 170° opening rear access doors.

For 2007, the **Dodge Ram** Heavy Duty pickups feature a new 6,7 l Cummins Turbodiesel engine. Producing 350 hp at 3,013 rpm and up to 650 lb.-ft. at 1500 rpm. The new engine can be fitted with an integrated

exhaust brake and is mated to a new six-speed 68RFE automatic transmission.

The Dodge Ram 1500 also offers a new powerplant option, the 5,7 l HEMI V-8 engine with fuel saving Multi-displacement System. Also available is a new E85-compatible, 4,7 l V-8 engine

At **Ford**, the big news is the 2008 **F-Series Super Duty** lineup which includes a

completely new workhorse, the F-450.

"The F-450 pickup doesn't just raise the bar for heavy duty pickups, it tosses it out. Game over," said Ford's Mark Fields.

A more powerful 6,4 l PowerStroke® turbodiesel engine joins a powertrain lineup that also includes the 362 hp 6,8 l V-10 Triton.

The 6,4 l PowerStroke® delivers 350 hp at 3000 rpm and 650 lb.-ft. of torque starting at 2000 rpm. Transmission choices

include a six-speed manual with overdrive or a TorqShift™ five-speed automatic.

The **Nissan Titan** is carried over for 2007. It draws its power from a 317 hp 5,6 l V8 engine, which pumps out 385 lb.-ft. of torque. With the Flexible Fuel Vehicle feature, the engine can run on E85 gasoline.

Toyota is once again shaking up the market with a new "full-size" **Tundra**. Remember the T100? Remember the 1st generation Tundra? Toyota says that it targets the commercial customer... For this purpose, the new Tundra has been beefed up. The frame has



been strengthened and widened, with 30% higher tensile strength steel.

The new Tundra can be fitted with an



all-new 5,7 l iForce V8 engine and its towing capacity can surpass 4500 kg. Contrary to Nissan, the Tundra is also available with smaller engines, an updated 4,7 V8 or a 4,0 l V6. The new 5.7-liter V8 will transmit power to the ground through a six-speed automatic transmission.

Also contrary to the Titan, the Tundra can be had in three cab configurations for a total of over 30 different models. This time, Toyota seems to have taken major steps to show how serious it is about this sector of the light-truck market.

The VEI Helper 21 is made for the most demanding tasks

The new VEI Helper 21 is the most advanced loader scale ever made for weighing and managing data production. The Helper 21 is not only a weighing system but a complete Payload Management solution that combines a user-friendly interface with the most advanced technology.

Its unique touch screen display makes it easy to access customers list, products, truck identification, transporters and much more. If you load, blend or manage stockpiles of materials and require data on where it's coming from and where it's going to, the Helper 21 is made for you.

The Helper 21 cellular modem allows data

to be transferred directly to your office without operator involvement. From the office you can call the Helper 21 and retrieve in seconds all the data of the day, week or month!

The blending mode allows the batching of different products under one recipe name. A security system incorporated in the Helper 21 can block access to unauthorized operators. Data can be printed on VEI's thermal printer, the fastest on the market, and data can be transferred to a PC via USB-Ikeys. The Helper 21 offers



ultimate accuracy of $\pm 1\%$ while weighing in motion and use the revolutionary VEI dynamic accuracy stability control.

Today, on-site data must be linked to other vital management data which are part of the business logistics. Data must be analyzed and optimized in order to reduce costs and increase profitability. The Helper 21 brings more value to your weighing data.

Source: RMT Equipment, 1-800-648-8132

DS 2 Powerhouse Series Vacuums Rated for Continuous Duty Applications

Ruwac introduces the newly redesigned DS 2 Powerhouse Series vacuums, suited for continuous dust extraction. Ideal for any industry dealing with fine, dry problematic materials like powder and dust, the Powerhouse Series is powerful enough to be used in central vacuum systems while remaining portable and features a newly redesigned, maintenance-free filtration system.

Powerhouse Series vacuums can perform all day, extracting fine materials such as concrete, plaster, and soot without loss of performance. Clean, dust-free environments are essential for productivity and health in the workplace. The DS2 Powerhouse Series now features Ruwac's latest innovation: a

maintenance-free filtration system with an improved dirt release function, extending filter life and reducing downtime. Equipped with an oversized, pleated MicroClean filter, the Powerhouse Series is 99,9% efficient at $0,5 \mu\text{m}$, removing fine dust from work environments. Powerhouse Series vacuums range from $7,5 \text{ m}^3/\text{min}$ to $14,3 \text{ m}^3/\text{min}$ and include a foot lever activated, extra-large drop down dustpan for easy, dust-free removal of collected debris. All vacuums are HEPA-ready for absolute filtration and adaptable to central vacuum systems or pre-separation systems.

A variety of accessories and options are available. Portable, compact, and extremely durable, the DS 2 Powerhouse Series

provides a simple solution to any cleanup application.

The Powerhouse Series and the rest of Ruwac's industrial vacuum line will be

featured at the 2007 World of Concrete in Las Vegas, Nevada, January 22-26.

Source: Ruwac, www.ruwac.com



Vibro-Reduced Pneumatic Hammer

Atlas Copco has been leading in vibro-reduction of pneumatic breakers and lately in petrol breakers. However, there have been no vibro-reduced pneumatic hammers in the range – up to now.

The TEX 07PE is a well-balanced hammer that offers both good vibro-reduction and good impact power, good chisel control and a relatively low weight. "Good vibro-reduction can be difficult to achieve in small tools as the weight of the tool may go up too much, it may become too bulky, too long or it may have too little impact power. But we have

been very successful in combining these factors when designing the TEX 07PE, says Jan Ohlson, product line manager at Atlas Copco Construction Tools AB in Sweden.

Beside the standard vibro-reduced D-handle, the TEX 07PE offers an optional front side handle. This handle is of the type often found in electric machines of this size and it is easy to position in the most convenient place for the



job. "The difference is remarkable, you feel in full control of the tool with this extra handle", says Jan Ohlson.

Source: Atlas Copco

Leopardo Construction Completes Komatsu's New Headquarters

Leopardo Construction recently announced the completion of the five-floor, 9750 m² interior build-out of the North American headquarters for Komatsu America Corp.

The new headquarters, located in the Continental Towers in Rolling Meadows, Illinois, is a consolidation of two suburban Chicago offices in Downers Grove and Vernon Hills, and provides office space for more than 300 Komatsu employees.

As general contractor, Leopardo built the space following an innovative and intricate design provided by the architect, Partners by Design. The first-floor reception area and elevator lobbies bear the stamp of Komatsu's corporate image with company history and product offerings displays.

The headquarters also includes a state-of-the-art training room, sophisticated computer server room, and an executive boardroom with high-end millwork, lighting and wall finishes. From an aerial perspective, circular and triangular-shaped rooms depict gears of construction equipment.

"With a great design in place, our team of interior construction experts worked extremely hard and ran all five floors simultaneously to deliver a high-class North American headquarters in less than four months," said Richard Underriner, senior project manager in Leopardo Construction's interiors group.

Leopardo Construction provides pre-construction, general contracting, construction management, design-build and development services. In 2006, Leopardo Construction was recognized by Engineering News-Record magazine as one of the 250 largest contractors in the USA.

Source: Leopardo Construction



The Canadian Waste & Recycling Expo Will Return to Vancouver in 2007

On November 28-29, 2007, the Canadian Waste & Recycling Expo will return to Vancouver.

Celebrating its 10th year, CWRE is Canada's only tradeshow serving the waste, recycling and public works market. Focus areas include collection, hauling, processing and disposal of waste; materials recycling; municipal recycling programs including blue box programs, MRFs, scrap metals, C&D, wood, plastic, paper, auto, tires, fiber and more.

This event will draw thousands of buyers representing collection, hauling, disposal service companies; construction / demolition companies; consultants / engineers; facility / site operators; ICI (industrial, commercial & institutional); landfill operators; manufacturers with waste streams; property managers; recycling coordinators; transportation / fleet maintenance personnel; waste managers; federal, provincial and municipal government employees responsible for waste management and public works; airport managers; road supervisors; lawyers related to the sectors; industry publishers and industry associations.

Pictures taken during CWRE06, in Toronto

Source: Messe Frankfurt (Canada)



NAPA Publishes Rubblization

The National Asphalt Pavement Association announces the publication of a new technical document, *Rubblization: Design and Construction Guidelines on Rubblizing and Overlaying PCC Pavements with Hot-Mix Asphalt*. Rubblization is a rehabilitation process that turns a Portland cement concrete (PCC) pavement that has reached the end of its service life into an excellent base for a new, smooth, durable, safe, quiet asphalt pavement.

NAPA's new 32-page publication provides comprehensive guidance on every aspect of rubblization technology, from evaluation of the existing PCC pavement, through design of the hot-mix asphalt (HMA) overlay, to final construction of the HMWA. The various types of rubblization equipment are covered. Other issues addressed include preparation of the PCC pavement, drainage, dealing with utilities and underground structures, quality control, and troubleshooting.

Orders may be placed through NAPA's online store at www.hotmix.org

Source: The National Asphalt Pavement Association



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Appointment

Doosan Infracore America announces the appointment of John M. Vandy as president and COO of their North American Construction Equipment Division. Vandy, an industry veteran with 30 years experience, will lead the company's initiative to establish global market leadership within construction equipment.

Mr. Vandy was president of Parts International Network and held management positions at various companies including Case Corporation, Terex Corporation and Manitowoc Crane Group. He has been an active member of Associated Equipment Dealers (AED) Foundation and Equipment Manufacturers Institute (EMI).

John M. Vandy replaces Carl Yoon, the last president from Doosan Infracore rotational staff, who served as president for the past three years. Mr. Yoon contributed significantly to the overall growth of Doosan Infracore America during his tenure.

Source: Doosan Infracore America



Agenda

India Engineering Meet and Exhibition
January 22 - 25, 2007
New Delhi, India

World of Concrete 2007
January 23 - 26, 2007
Las Vegas, NV USA

National Pavement Expo
January 31 - February 3, 2007
Nashville, TN USA

ARA The Rental Show
February 7 - 10, 2007
Atlanta, GA, USA

Work Truck Show
March 7 - 9, 2007
Indianapolis, IN USA

Congrès Association Béton Québec
March 15 - 16, 2007
Montreal, QC Canada

World of Asphalt Show & Conference
March 19 - 22, 2007
Atlanta, GA USA



National Heavy Equipment Show 2007
March 22 - 23, 2007
Toronto, ON Canada

12th International Building Fair
April 17 - 21, 2007
Brno, Czech Republic

Bauma + Mining 2007
April 23 - 29, 2007
Munich, Germany



MiningWorld Russia 2007
April 24 - 26, 2007
Moscow, Russia

CIM Montreal 2007
April 29 - May 2, 2007
Montreal, QC Canada

Technical Day - APOM
May 5, 2007
Quebec City, QC Canada

Quartier municipal des affaires UMQ
May 10 - 11, 2007
Quebec City, QC Canada

44th Canadian Fleet Maintenance Seminar
May 27 - 30, 2007
Toronto, ON Canada

WasteTech 2007
May 29 - June 1, 2007
Moscow, Russia

2007 Municipal Trade Show - AORS
June 6 - 7, 2007
Fergus, ON Canada

Hillhead 2007
June 26 - 28, 2007
Buxton, Derbyshire, United Kingdom

LubricationWorld/Predictive Maintenance Technology Conference
September 11 - 13, 2007
Las Vegas, NV USA

Technical Day - APOM
September 14, 2007
Sherbrooke, QC Canada

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October 16 - 18, 2007
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