

Waterjet Contractor Helps Remove Temporary Pier Piles at Audubon Bridge Construction Site Following Record Floods



The John James Audubon Bridge is the longest cable-stayed bridge in the Western Hemisphere. Located in south-central Louisiana, the bridge crosses the Mississippi River between Pointe Coupee and West Feliciana parishes.

Photograph courtesy of Midwest Mobile Waterjet.

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Waterjet Contractor Helps Remove Temporary Pier Piles at Audubon Bridge Construction Site Following Record Floods

Midwest Mobile Waterjet developed unique waterjet cutter that was dropped 20-40 feet inside the piles to cut them off three feet below the riverbed.

When record spring floods made it impossible for the Audubon Bridge's contractors to remove their construction pier piles using conventional methods, they turned to Midwest Mobile Waterjet, a Minnesota-based waterjet contractor whose motto is "if it is possible, we can do it."

The bridge contractors had just finished constructing the longest cable-stayed bridge in the Western Hemisphere, the John James Audubon Bridge, north of Baton Rouge, Louisiana, and they faced hefty penalties if they did not meet their deadline for removing the temporary piles from the Mississippi River. Normally most of the steel piles would have been on dry land and easily dug up, cut with a torch and removed with a crane, but the flood waters left them deep in the water, inaccessible with standard equipment.

The bridge contractors challenged Midwest Mobile Waterjet to rapidly develop a first-of-its-kind abrasive waterjet cutting system that could be dropped 20-40 feet inside the piles and cut them off three feet below the riverbed. The tool needed to be light, compact and adjustable for different pipe diameters, 24 inches to 48 inches, and it needed to maintain balance to keep the cut line at the same height all the way around. It also had to be operable in muddy water 25 feet below the waterline with little visibility.

"To my knowledge, this had never been done before," said Brian Gleeson, Midwest Mobile Waterjet vice president. "We've done a lot of



Midwest Mobile Waterjet designed and built a waterjet cutting tool that was used to cut out piles from a temporary work pier at the John James Audubon Bridge construction site in Louisiana. The cutting tool was lowered down the inside of the piles and cut them at the required depth.

cutting, but this was definitely one of the more challenging operations."

Working off a barge, the waterjet contractor pumped the river water out of each pile, then dropped their waterjet cutting device inside the pile. Their ingenious system utilized two high flow cutting heads that were powered hydraulically from a motion device positioned slightly above the cutting heads to allow for better visibility in case the pile began filling with water during the cutting process. The cutting head speed, direction, high pressure water, and abrasive feed were controlled from a remote console on the barge. They used a 36,000

(continued on page 8)

WJTA-IMCA Announces Officers, Board of Directors

Bill Gaff, vice president of sales and marketing for Vacuum Truck Rentals, LLC, Richland, MS, has been elected the 2011-2013 chairman of the board of the Water-Jet Technology Association (WJTA) – Industrial & Municipal Cleaning Association (IMCA). Also elected for the 2011-2013 term are President **George A. Savanick, Ph.D.**, consultant, Apple Valley, MN; Vice President **Pat DeBusk**, Inland Industrial Services Group, LLC, Deer Park, TX; Secretary **Hugh Miller, Ph.D.**, associate professor, Colorado School of Mines, Golden, CO; and Treasurer **Larry Loper**, president - director of sales, High Pressure Equipment Company, Erie, PA.

New elected board members are **Kay Doheny**, owner of Jack Do-

heny Supplies, Inc., Northville, MI; **Luis Garcia**, president and chief executive officer of Channel Safety & Marine Supply, Inc. (CSM), La Porte, TX; **Kathy Krupp**, managed services leader, The Dow Chemical Company, Freeport, TX; and **Kerry Petranek**, chief executive officer, StoneAge, Inc., Durango, CO. **Forrest Shook**, president, NLB Corp., Wixom, MI, was re-elected to the board of directors.

Mohamed Hashish, Ph.D., senior vice president of technology, Flow International Corporation, Kent, WA; and **Gary Noto**, executive vice president and chief operations officer, Veolia Environmental Services, League City, TX; continue to serve remaining terms on the board.

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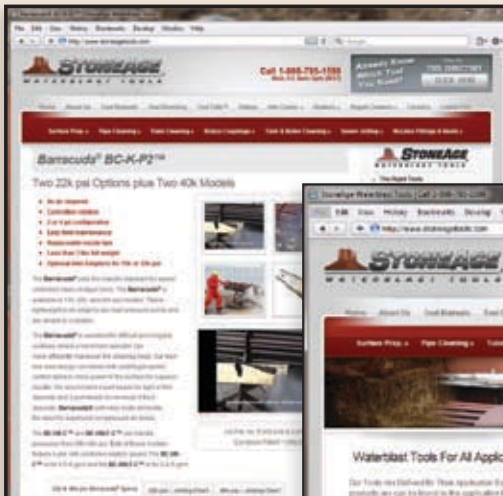
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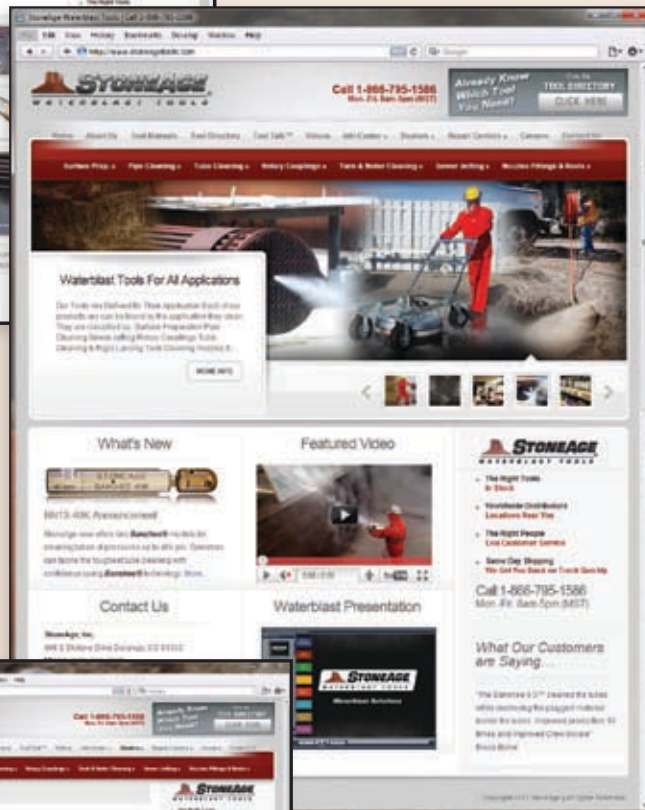
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WJTA-IMCA Board Approves Color Coding Scheme for Pressure Hoses

The Board of Directors of the WaterJet Technology Association (WJTA) – Industrial & Municipal Cleaning Association (IMCA), on September 18, 2011, approved the addition of wording regarding a color coding scheme for pressure hoses to the *Recommended Practices for the Use of High Pressure Waterjetting Equipment* publication. The new text appears below:

Pressure hoses are designed for various pressures and could present a safety hazard if not used for the designated working pressure. In order to better identify the pressure in use, it is recommended that the following color code scheme is used for the applicable maximum working pressure:

PSI	Bar	Proposed Color Code
10,000	690	Yellow
15,000	1,034	Green
20,000	1,379	Blue
30,000	2,068	Silver
40,000	2,758	Orange
55,000	3,792	Red

The color scheme should be easily identifiable at least two feet from both hose ends. January 1, 2013, is the effective date for implementation. Abrasion-proof stickers are acceptable in the interim.

The new wording will be added to the current edition of the *Recommended Practices for the Use of High Pressure Waterjetting Equipment* effective immediately. The goal of this recommended practice is to help ensure on-the-job safety by making the various hoses more easily identifiable on sight.

For more information, contact the WJTA-IMCA.

Jet News is published by the WaterJet Technology Association (WJTA)-Industrial & Municipal Cleaning Association (IMCA) and is a benefit of membership in the Association.

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Rebuilding Ground Zero

The unveiling of the National September 11 Memorial and Museum (museum opens in 2012) at Ground Zero consists of a beautiful memorial park showcasing 152 brass plates positioned around the memorial pools built in the footprints of the Twin Towers.

Service Metal Fabricating, a family business in Rockaway, New Jersey, was honored to be chosen as one of the fabricators for this precious memorial. They were tasked with cutting all 2,982 names through half inch thick brass plates, each 10 feet by 5 feet, weighing a little more than 1,000 pounds. The goal was that individuals can physically touch each name of those lost at Ground Zero, at the Pentagon, on Flight 93 and also the six victims from the first World Trade Center bombing on February 26, 1993.

WARDJet was honored to have played a small part in this memorial, supplying the waterjet used by Service Metal.

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China Steel of Sault Ste. Marie, Ontario, Installs Waterjet Cutting Machine

China Steel, a custom fabrication and machine shop in Sault Ste. Marie, Ontario, recently added a massive 90ksi Jet Edge waterjet cutting machine capable of cutting virtually any material up to 24 feet x 13 feet.

With its 100hp 90ksi Jet Edge X-Stream powered system, China Steel (pronounced “keena”) can cut parts up to 50% faster than waterjet shops with standard 60ksi waterjets. They also can cut large parts twice as fast with dual abrasivejet cutting heads with mirroring capabilities.

Established in the late 1950s, China Steel continues to be owned and operated by the China family, which traces its proud metalworking heritage to early 19th Century blacksmiths and metalworkers in Friuli, Italy. Under President Fred China and brother Vice President Carlo China’s direction, China Steel has grown to become a diversified and technologically advanced metalworking plant with sales worldwide.

The multi-disciplined ISO 9001: 2008-registered shop offers many metalworking services, including CNC and conventional machining, milling, turning, boring, bending, cutting, rolling, pipe processing, robotic welding and much more. It manufactures a wide range of custom products, including fabricated plate products, structural steel, decorative metalwork and machined parts. Its diverse projects have included everything from decorative staircases to locomotive underframes to dozens of parts for the U.S. Army Stryker armored vehicles to stainless steel dewatering wheels for steel mills in the Ukraine and India.

“We were looking at lasers and plasmas, but the waterjet is more versatile,” Carlo recalled. “It has higher precision and is capable of cutting thicker diverse materials, plus it’s environmentally friendly and there’s no heat distortion. You cut a part and it fits. With oxy, plasma and laser you are limited to what you can cut. Waterjet is open ended.

“We went with the 90,000 psi system because it gives us the cutting horsepower that we need, and we went



Brothers Fred and Carlo China have grown China Steel into one of the largest and most diversified metalworking businesses in the Great Lakes by continually investing in new technology and diversifying products and services.

with the large table because we have a diversified shop and many of the parts we cut are of significant size. One of the parts we cut is 22 feet. That’s why we went with 24 feet. Our machine

(continued on page 11)

Congratulations to Cash Prize Winners at the 2011 WJTA-IMCA Conference and Expo

Attendance Prizes, Sponsored by High Pressure Equipment Co.

Kurtis Ashton, Clean Harbors, Edmonton, Alberta, Canada
Phil Cranford, Hughes Pumps Ltd., West Sussex, United Kingdom
Zachary Daniel, Qualitec, Houston, Texas
Chris Goodson, International Waterjet Parts, Ballston Lake, New York
Kathy Krupp, Dow Chemical Company, Freeport, Texas
John Pujol, AIT, Torrance, California
Christine Richardson, O’Connell Jetting Systems, Benicia, California
Ignacio Vasquez, Aqua Industrial Services, LLC, Pasadena, Texas
Wang Zhi Fa, Klenco Singapore Pte. Ltd., Singapore

Exhibitor Prize, Sponsored by High Pressure Equipment Co.

Lori Lehmann, Jack Doheny, Inc., Northville, Michigan

Survey Prizes

Peter Miles, OMAX Corporation, Kent, Washington
Cliff Mitchell, Pratt & Whitney Automation, Madison, Alabama
George Savanick, Consultant, Apple Valley, Minnesota
Jim Thomas, Temco-One LLC, Belmont, North Carolina

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*Steve Johnson, Division Manager
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*Charlie Underwood, Operations Manager
Midwest Waterblasting, Clinton, MI*

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Waterjet Contractor Helps Remove Temporary Pier Piles at Audubon Bridge Construction Site Following Record Floods, from page 2



After the cuts were complete, a crane lifted the upper portion of the piles and loaded them on a waiting flatbed truck.

psi Jet Edge iP36-250DX diesel-powered waterjet intensifier pump to create the ultra-high pressure water, hydraulically power the cutting tool and pneumatically power the abrasive feed. Midwest Mobile Waterjet has nine Jet Edge waterjet pumps, including five diesel pumps and four electric pumps.

"We pumped the water out of the pile prior to the cutting operation," Gleeson recalled. "It would leak in slightly during the cut, but the mud kept it from gushing in, otherwise it would have filled all the way to the top of the pile. I had to get it done quickly. The Jet Edge pump was ideal for the project because it has hydraulic and air auxiliary power on the pump, making set up much faster."

Visibility was a huge challenge, Gleeson noted. His crew used reflectors, spotlights and air movers to help them with visibility during the process.

"We were cutting from 50 feet away and could not see what we were cutting," he recalled. "You're looking

down the pipe and all you see is steam."

The crew cut each pile in about 20 minutes, cutting through the 5/8-inch thick steel using 2½ gpm of 35,000 psi water and two pounds of abrasive per minute. After the cuts were complete, a special cement mix was pumped into the pile to act as a "plug," then the top portions of the piles were lifted out and hauled away. Plugging the holes quickly and completely was critical because the piles were driven into man-made Mississippi River levy and the integrity of the levy could not be jeopardized.

"We cut the piles that were in the deepest water and would never be accessible with standard excavating equipment," Gleeson said. "We ended up cutting out 10 of the piles.

Other piles were cut by divers using handheld tools."

The waterjet method cutting from the inside of the pile was much safer and more efficient for cutting these 10 piles than the method used by the divers.

The cut quality and steel separation using remote-controlled waterjet cutting from the inside of the pile was much better than the cut quality and steel separation that could have been obtained by divers cutting from the outside through the mud encasing the pile. Mud obstructs visibility and interferes with the cutting of the steel.

For more information, visit www.mmwaterjet.com or call (651)755-7089.

Photographs courtesy of Midwest Mobile Waterjet.

2011 WJTA-IMCA Conference and Expo Awards Ceremony

September 19, 2011 • Houston, Texas



Pioneer Award: (l. to r.) Bill McClister (recipient), and Bill Gaff.



Technology Award: (l. to r.) Jerry Zink (recipient), and J.D. Frye.



Best Paper: (l. to r.) Marko Jerman (recipient), and Dr. Mohamed Hashish.



Best Paper: (l. to r.) Dr. Mohamed Hashish and Dr. Andrej Lebar (recipient).

Best Paper, "Measuring the Water Temperature Changes throughout the Abrasive Water Jet Cutting System." Not pictured: H. Orbanic, I. Etcheberria, A. Suarez and M. Junkar.

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TurtleSkin WaterArmor by Warwick



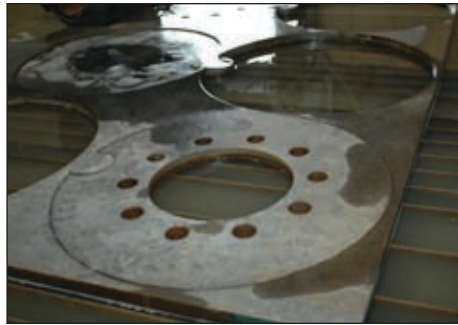
China Steel of Sault Ste. Marie, Ontario, Installs Waterjet Cutting Machine, from page 6

can also cut very small parts and that really impresses people when you can hold up a tiny part. They say, 'wow, you cut that on that big machine.'"

The Chinas decided to buy a Jet Edge after meeting the waterjet manufacturer's Elliott-Matsuura Canada representative Robert Miller, who they instantly took a liking to. Elliott-Matsuura Canada is Jet Edge's exclusive Canadian distributor.

"We looked at other manufacturers, but we really liked Robert Miller," Carlo said. "He's got a personality and he's very knowledgeable. He has owned a machine shop so we speak the same language."

Only a week after installing their Jet Edge, China Steel was already busy



China Steel has been busy processing 7/8-inch steel rims for heavy equipment.

processing parts and contemplating more and more diverse applications for their waterjet system.

"The waterjet opens up a whole new world for us because there are so many things you are able to do," Carlo noted. "You start thinking 'wow, we could do this or we could do that.'"



Baffle plate material 0.120-inch thick cut from 1/8-inch mild steel.

For more information about China Steel, visit www.china-steel.com or call (705)942-3200. For more information about Jet Edge, visit www.jetedge.com, or call (800)538-3343 or (763)497-8700.

Photographs courtesy of Jet Edge.

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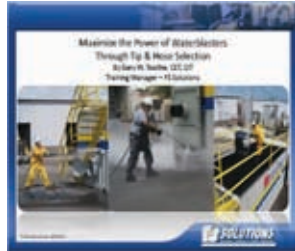
FS Solutions Adds Two Advanced Courses to Its Online Training Curriculum

Federal Signal Environmental Solutions Group has announced that FS Solutions now offers two advanced online training courses as part of the company's comprehensive training program to help its customers increase job safety, operational efficiency and regulatory compliance in a variety of applications. The two new courses, "Estimating the Vacuum Job" and "Maximizing the Power of Waterjetting Through Tip and Hose Selection," target experienced professionals looking for additional training beyond the fundamentals covered in introductory courses.

"These two new online courses provide convenient, flexible instruction for management level professionals who need more advanced training," said Gary Toothe, training manager, FS Solutions. "The live training courses offered by FS Solutions are very well attended, but there is a high demand for online training, particularly at the advanced level."

"Estimating the Vacuum Job" focuses on the mathematic and geometric principles used in determining volume, square feet and linear feet of objects to be vacuumed. Understanding cycle times and realistic vacuum truck capacities enables students to better estimate production times on various vacuum jobs and to analyze job production to determine if the job is being performed at maximum efficiency.

"Maximizing the Power of Waterjetting Through Tip and Hose Selection" covers the horsepower formula – including how to use the formula to solve for pressure, flow and horsepower; the components of tip design; and the factors affecting tip performance. The course also addresses issues unique to pipe cleaning, tube cleaning, hand gunning and automatic tool cleaning. Students can use the skills taught in this course to



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analyze job production to determine what equipment is required to perform at maximum efficiency.

The online courses include tests that each student must pass with a grade of at least 80 percent to complete the course and receive a certificate.

Toothe said the company plans to add more advanced courses to its online training curriculum by the fourth quarter of 2011, including courses that address the unique procedures, equipment selection and safety issues of key market applications.

For more information about products and services available from the FS Solutions centers or to find the nearest location, call (800)822-8785, or visit www.fssolutionsgroup.com.

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2011 WJTA-IMCA Pioneer Award

The Pioneer Award, the highest recognition and honor presented by the WaterJet Technology Association (WJTA) – Industrial & Municipal Cleaning Association (IMCA), was presented to Bill McClister, vice president of support services, Veolia Environmental Services, Baytown, Texas, in recognition of his significant contributions to the advancement, development, and application of waterjet technology. Bill Gaff presented the award to Mr. McClister at the WJTA-IMCA Awards Presentation held on September 19, 2011, in conjunction with the WJTA-IMCA Conference and Expo.

The complete text of Mr. Gaff's presentation speech as it appears in the official Conference/Expo Program Book is reprinted below:

Bill has contributed to the WJTA-IMCA and to the water blasting industry – industrial cleaning industry in an honest and ethical manner. He has helped pioneer advancements in the water blasting industry through personal and professional contributions.

Bill is a modest man who does not brag about his contributions, but they are many in our industries. Probably the most publicized was the drama in Midland Texas in 1987 involving Baby Jessica McClure who was trapped in a well for 57 hours. Bill was then employed by Naylor Industrial when he and Jim VaMatre decided that one of their Admac water blasters would probably work. They called Federal Express to see how much it would cost them to air freight their equipment to Midland. To their surprise, Federal Express donated a plane to this worthy



Bill McClister

cause. When the mining engineer in charge ran out of other options they decided to give Bill and his water blaster a try. Bill personally went into the shaft they had drilled parallel to Baby Jessica and made sure she was properly shielded before the water blaster was turned on as safety is always on Bill's mind. In a mere 45 minutes they had successfully cut away the limestone that had trapped Jessica for days. I understand after that televised application of water blasting, that people began to think of using this technology in new ways that they never thought about before. You probably never heard Bill brag about this event as he is both a modest and private man.

In the late 1980s a number of large refineries were undergoing "cat cracker" updates that required the cyclone system in the upper portion of the cat cracker to be cut off. The cut had to be bevelled to a tolerance that would allow the new top to be welded back in place. The old process required several hours of "degassing" the cracker to make sure it was safe for the torches that were being used. Bill proposed a safer waterjetting process that eliminated the degassing process and saved the refineries several hours of downtime. Bill had to develop a large diameter tracking system as well as backup systems and

processes for any unforeseen problems that may arise. It was another waterjetting success, and the refinery recommended this new process to numerous others as a safer and more efficient way to solve their problem.

Bill also saw that the WJTA had a unique opportunity to expand the scope of the association to both provide additional benefits to existing members and bring in new members in adjacent markets within the industrial cleaning markets. Bill helped spearhead the WJTA-IMCA's initial entry into non-water blasting in the Recommended Practices for the Use of Industrial Vacuum Equipment "Blue Book." Bill was also a driving force behind the Industrial & Municipal Cleaning Association becoming a part of the WJTA family.

Bill served on the WJTA-IMCA board of directors from 2005-2009 and currently serves on the Vacuum Equipment Safety Committee. In 2009 he received the WJTA-IMCA service award in recognition of his contributions to the association.

These examples are just a few of Bill McClister's many contributions to the industry in his long career. Congratulations Bill!

- Bill Gaff



Bill with his colleagues from Veolia Environmental Services.

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- **NEW HIGH-TECH PRODUCT AND EQUIPMENT** displays by exhibitors representing leading industry manufacturers and suppliers from around the world.
- **BOOT CAMP FOR CONTRACTORS AND END USERS**
Learn new business ideas, safety recommendations, and tips and techniques to improve workforce productivity and stay competitive in today's marketplace.

"This expo is one of the most beneficial for my industrial cleaning business. Everything is here – equipment demos, product and equipment displays, and educational sessions. Plant personnel and other end users attend, and it is a real plus to be able to communicate with them one on one."

– Sean Benoit, PSC



The WJTA-IMCA Expo is presented by the WaterJet Technology Association and the Industrial and Municipal Cleaning Association. For more information or application for exhibit space, visit www.wjta.org or contact the WJTA-IMCA, telephone: (314)241-1445, fax: (314)241-1449, email: wjta-imca@wjta.org, mailing address: 906 Olive Street, Suite 1200, St. Louis, MO 63101-1448.

Barton International Appoints Western Great Lakes Regional Sales Manager

Barton International, a leading supplier of garnet abrasives for waterjet cutting and blast media announced the appointment of Ray Lindberg as regional sales manager for the Western Great Lakes region. This sales territory includes Illinois, Indiana, Tennessee and Wisconsin.



Ray Lindberg

As regional sales manager, Lindberg's goals are to educate the waterjet and blast media markets in the value of Barton garnet abrasives and to maximize customer satisfaction.

Lindberg has more than 20 years of technical sales experience in the abrasive, tooling, machining and machine tool equipment industries.

For more information contact Barton International by e-mail: info@barton.com, telephone: (800)741-7756, or visit: www.barton.com.

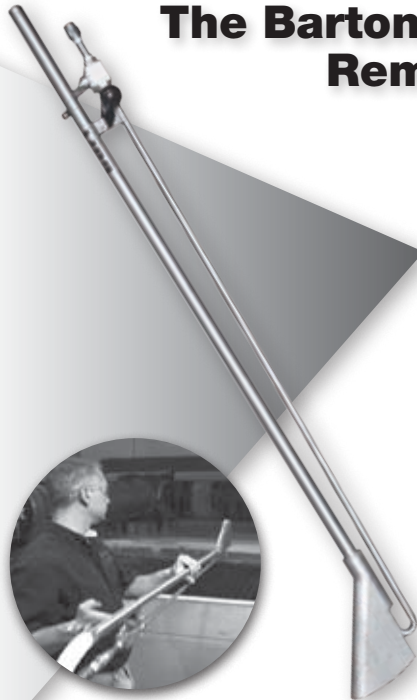
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Email addresses and other member contact information published in the WJTA-IMCA Membership Directory are meant to encourage helpful, informative communication between members. The information is not provided to circulate spam or junk mail.

The WJTA-IMCA leadership requests that members respect the contact information of fellow members and not use that information for the dissemination of spam or junk email. Membership information is not meant to be circulated beyond the WJTA-IMCA membership.

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New Software Tracks R & D Hours

The Internal Revenue Service (IRS) recently classified R & D tax credits as Tier 1 exemptions. Companies that perform test cuts, work on new materials, or help design or build products may be eligible. Documentation is key in order to qualify for the exemption. All research and development hours must be properly recorded and reported. Bald Chicken Software has developed Atlas R & D to help companies keep track of research and development hours.

For more information, visit www.baldchicken.com or email sales@baldchicken.com.

Veolia Environmental Services Names New CEO to Industrial Services Division

Veolia Environmental Services North America Corp. (VESNA) announces the appointment of Darryl Schimeck to president and CEO of Veolia ES Industrial Services, Inc. The appointment was effective October 3, 2011.

“Darryl brings a proven track record within the industrial cleaning industry that demonstrates his ability to achieve targets and grow a business. And he has done this without losing sight of the ingredients that are essential for success in this highly dangerous field – the safety of employees and customers alike,” noted Richard Burke, president and CEO of VESNA. “Darryl’s leadership style and abilities are a welcome addition to our executive team.”

As president and CEO of Veolia ES Industrial Services, Schimeck will be responsible for managing the overall



Darryl Schimeck

operations of the largest industrial cleaning services company in North America, including implementing programs designed to provide direction and structure to ensure the company’s growth. “I’ve spent my career seeking ways to improve operational efficiencies leading to increased revenue, growth and customer satisfaction. I am thrilled to have been given this opportunity here at Veolia and I look forward to the challenges that this position will bring,” said Schimeck.

Schimeck joins Veolia from Atlantic Plant Services, Inc. and United Anco Services, Inc., both members of The Brock Group family of industrial services companies, where he has served as president since 2008. Prior to that, he was president and CEO of K2 Industrial Services, Inc., and executive vice president of Kenny Industrial Services, Inc. He started his career with Waste Management, Inc., where he spent 16 years and held several positions of increased responsibility in business development

and operational management.

Schimeck holds a BA in Economics from Alma College in Alma, Mich. He serves as chairman of the board at Mercy Home for Boys and Girls in Chicago. Schimeck will be based at Veolia ES Industrial Services, Inc.’s headquarters in League City, TX.

Based in Chicago, Veolia Environmental Services North America Corp. is a leading provider of fully integrated waste, environmental and industrial cleaning solutions to residential, municipal, commercial and industrial customers across the US, Canada and the Caribbean. The company is part of the Veolia Environmental companies in North America, with 30,000 North American employees providing sustainable environmental solutions in water management, waste services, energy management, and passenger transportation.

For more information, visit www.veoliaes.com.

OMAX® Appoints New Vice President of North American Sales

OMAX Corporation has appointed Michael Ruppenthal to the position of vice president of North American sales. Ruppenthal brings with him over 15 years of sales and sales management, marketing and product development experience within the abrasive waterjet industry.



Mike Ruppenthal

During much of his professional career, Ruppenthal specialized in developing, initiating and leading sales and marketing strategies in the manufacturing industry, as well as

other industries. He has also served as a consultant within the machine tool industry for client companies involved in welding, fabricating and machining.

“We are very excited to have Mike on board and are confident he will greatly contribute to the company’s continued sales growth,” said Dr. John Cheung, president of OMAX. “Mike brings with him established industry experience, strong leadership skills and a strategic sales approach. We look to Mike to incorporate many new ideas and concepts and apply them to the OMAX sales framework.”

Ruppenthal holds an MBA degree from the University of Washington

in Seattle, Washington, and a BA degree from The Colorado College in Colorado Springs, Colorado.

“This is a great opportunity to work with the industry leader in abrasive waterjet technology,” said Ruppenthal. “And it’s an honor to be part of the entrepreneurial, close-knit and customer-focused team at OMAX.”

Ruppenthal replaces John Bergstrom, who has retired from OMAX but remains a consultant for the company.

For more information on OMAX products and accessories, call: (800)838-0343 or visit www.omax.com.

MultiCam® Inc. Promotes Tony McGrew to Operations Manager

MultiCam® Inc., a global CNC cutting system manufacturer, has promoted Tony McGrew to operations manager. A hands-on team player since 1995, he oversees all departments involved in machine design, production, operation and support.



Tony McGrew

McGrew earned a bachelor's degree in civil engineering at Oregon State University. Since joining the MultiCam Technical Support Department 16 years ago, he has held several management positions. He has been technical support manager, quality control manager, engineering manager and most recently, director of technical services and engineering.

"Tony is a key visionary in growing MultiCam to the next level," said President and General Manager Kris Hanchette. "He brings a new focus on production efficiencies and lean manufacturing. Well-respected by customers, vendors and employees, he possesses excellent problem-solving and team-building skills. We are confident in both his vision for the business and his ability to achieve it."

McGrew's vast CNC industry knowledge includes a stint as a MultiCam customer. As owner/operator of an Oregon CNC job shop, he used a MultiCam Router. McGrew was a key contributor in developing the MultiCam machine user interface. He has installed, serviced and sold platforms in most U.S. states and around the world.

Thanks to his extensive international experience and worldly view, McGrew offers insight into customer needs and industry requirements for MultiCam's large-scale export business.

Since 1989, MultiCam Inc. has manufactured thousands of CNC (computer numerical control) cutting solutions for various industries around the world. The innovative company integrates advanced technology and value in highly productive systems that are easy to use and built to last. MultiCam manufactures CNC router, laser, plasma, waterjet and knife cutting machines at its 135,000-square-foot facility in North Texas. The global network of experts includes 70 MultiCam Technology Centers worldwide with 20 across North America. To learn more about MultiCam's CNC cutting solutions, visit www.multicam.com or call (972) 929-4070.

AccuStream Celebrates Ten-Year Anniversary



AccuStream, a manufacturer of high quality waterjet equipment and products for the waterjet industry celebrates its ten-year anniversary in 2011. Since its founding in 2001, AccuStream has delivered a full complement of waterjet products and has become a leading source for industrial waterjet cutting equipment and waterjet cutting machines.

"We have come a long way from being a single OEM replacement parts supplier and are now a global supplier of a comprehensive range of products including replacement parts, industry leading intensifier pumps and abrasive cutting heads," says Eric Chalmers, president.

The ownership of Accustream believes the largest contributing factor to the company's success has been the shared values and collaborative approach of its stakeholders within the organization. Developing customer relationships and providing unmatched service has been the driving force behind AccuStream's day-to-day operations.

"I am extremely proud to look back over everything our group has accomplished over the past 10 years," says Chalmers. "AccuStream reached the level it is today, not because of one person but from our dedicated team, the support of our customers and the reliability of our partners."

The AccuStream story over the past 10 years is one of continuous

(continued on page 23)

Christian Lagerlöf Joins TST Sweden

TST Sweden has appointed Christian Lagerlöf salesperson for the company's protective clothing. Lagerlöf will primarily be working with sales outside the Nordic countries.

TST Sweden offers a complete range of protective clothing for operators working with hydrodemolition waterjetting and blasting at ultra high pressures. Contact Lagerlöf by email: christian@tst-sweden.se or by telephone: 46-320-20-58-72.



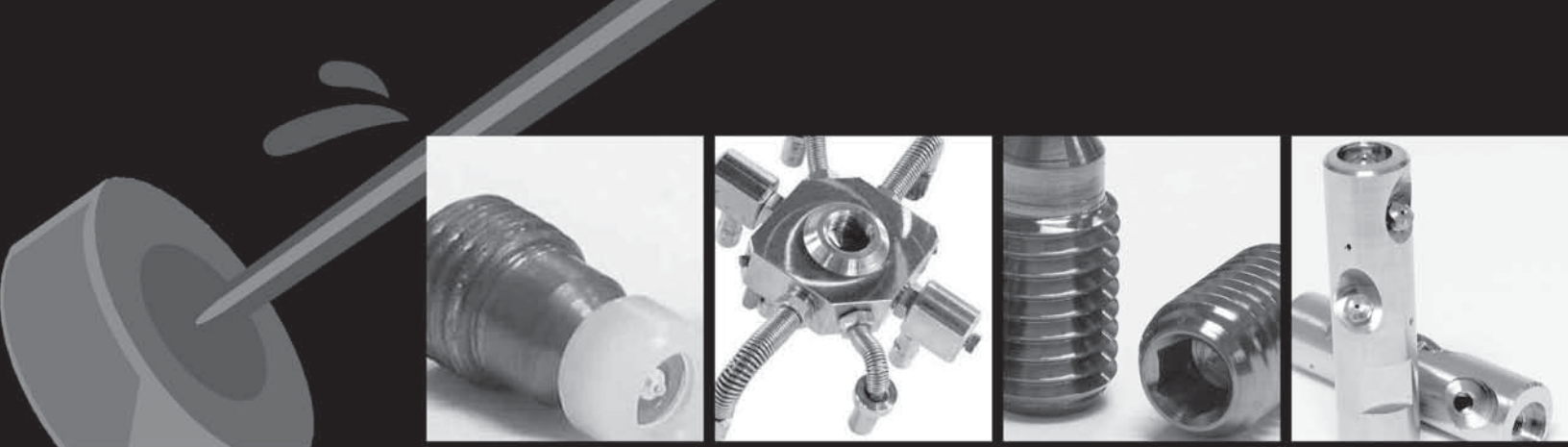
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Exhibitors at the 2011 WJTA-IMCA Conference and Expo

September 19-21, 2011 • George R. Brown Convention Center • Houston, Texas



(continued on page 22)



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Exhibitors at the 2011 WJTA-IMCA Conference and Expo, from page 20



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**AccuStream Celebrates
Ten-Year Anniversary,** from page 19

growth, innovation, commitment and flexibility to meet changing market demands. Highlighted below are some of AccuStream's accomplishments:

- Expanding replacement parts offering to include all major brands of waterjet equipment
- Engineering, developing and manufacturing the A and AS line of intensifier pumps (15 to 150 HP)
- Opening a state-of-the art 30,000 square foot manufacturing facility in New Brighton, MN
- 30+ employees covering sales, customer service, engineering, inspection, technical support and manufacturing
- Sales and distribution in over 42 countries
- 37 trained and certified distribution partners worldwide

For more information, call (866)566-7099 or (651)294-8600, email: johnh@accustream.com, or visit: www.accustream.com.

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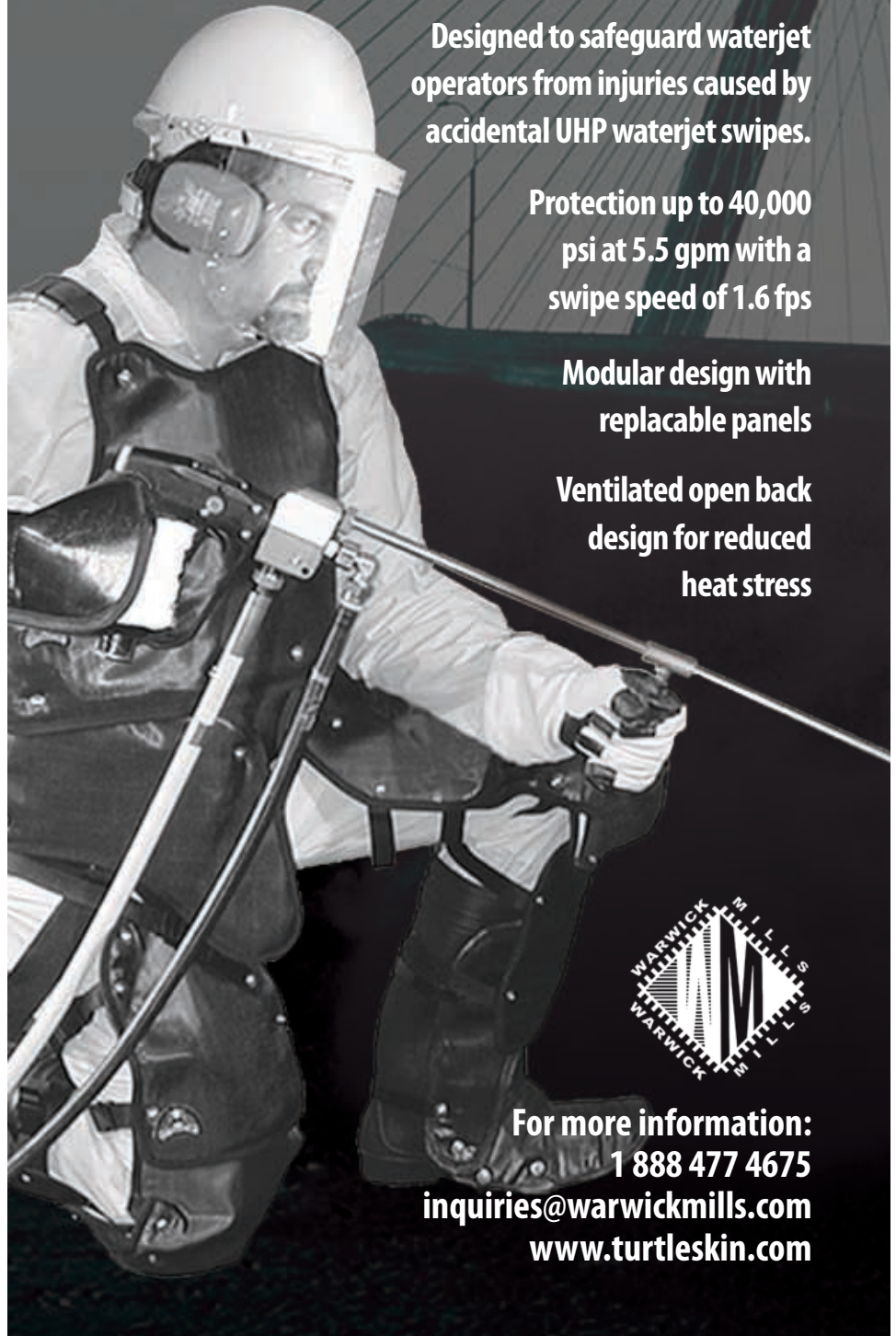
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Making a Splash in the Waterjetting World!

Fourteen years of determined commitment to quality and the success of their clients have led Stutes Enterprise Systems to a prominent position in the waterjetting industry.

In November, 1997, Tryan Stutes and his wife, Kelli, could see the need to provide premium industrial waterblasting equipment rentals and support. With nearly 25 years of experience in the industrial cleaning field, Tryan knew that he would succeed by offering the same level of service and quality products that he needed while working various waterblasting projects.

Stutes Enterprise Systems started with just one truck, a few units, a modest customer base, and without any outside financial backing – but with an overwhelming desire to serve their clients.

Tryan credits tenacity, persistence, and an entrepreneurial drive for enduring some tough times – including the industry wide decline in business in 2009. Faced with tough choices and a declining market, Stutes stuck to the core of the solid business plan in which he believed.

With the support of loyal customers and vendors who shared their vision and stood by them in 2009, Stutes Enterprises survived adversity, was made tougher by the times, and is now on solid ground, positioned for even more growth.

Stutes' new facility in La Porte, Texas, has 10,000 square feet of



Tryan Stutes

office and work space, including a 6,000 square foot, high ceiling showroom. It is truly a one-stop shop for waterblasting rental equipment, as well as all supporting parts, services, and supplies.

With a solid Gardner Denver Water Jetting partnership, Stutes has developed its own line of waterblasting equipment. Coupled with another strong distributor relationship with StoneAge Waterblast Tools, Stutes is now a recognized leader in the waterblasting industry.

Stutes' extreme commitment to customer service was obvious earlier this year when they assisted a customer who was bidding on a large project to cut rubber out of drill pipes.

Stutes' customer did not have the custom equipment required to do the job and had very limited experience in the area.

Stutes Enterprise Systems rolled up their sleeves and went to work.

Tryan and his lead mechanic, Daniel Kitts, worked throughout the night, spending 15 straight hours on site and a combined total of 36 hours to prepare and assemble a turn-key package – everything their client would need to perform a convincing demonstration and earn the job.

Racing to finish cleaning pipe by a 10:00 a.m. deadline and after working throughout the night, they took their first

break at 8:00 a.m. – just to get parts for making the final nozzle assembly!

The demonstration was a total success. Stutes' commitment assured that their client would earn the contract – worth over one million dollars!

A longtime WJTA-IMCA member, Tryan is a firm believer in safety and cooperation with end users to promote waterjetting.

Tryan strongly encourages personnel from plants and refineries to get involved in the WJTA-IMCA in order to take advantage of the assets provided by the organization to better understand the industry's technology and learn the specialized skills to safely and efficiently operate waterjetting equipment.

Stutes Enterprise Systems currently has three locations in the gulf region and is considering expansion.

Steadfast persistence to the Stutes' core business principle – working hard to provide outstanding service while helping their customers to succeed – assures Stutes' own future.

For more information on Stutes Enterprise Systems, visit www.aquablasters.com, or call (866) 362-9332.



Stutes Enterprise Systems participates in the live demos at the 2011 WJTA-IMCA Conference and Expo, September 19-21, Houston, Texas.

NLB Takes Waterjet Accessories Show on the Road

Many industries rely on trucks for shipping, but what about shopping? NLB Corp. has turned a 24-foot trailer into a touring showroom that will travel to customers' facilities and trade shows, letting waterjet users see and compare nearly 200 high-pressure accessories.

The NLB mobile showroom debuted at the WJTA-ICMA Conference and Expo in Houston, September 19-21, 2011, showcasing everything from nozzles and fittings to tube bundle cleaning systems. It also features specifications, applications advice and video demonstrations of various accessories in action.

"We've taken our regional branch showrooms a step further, putting



one on wheels to go to an industry show or right to a customer's door," said Jim Van Dam, NLB marketing communications manager. "It displays more of our product range than we could ever fit in a trade show booth.

"It's helpful for people to see an accessory for themselves instead of looking at a picture in our catalog or at our website. This lets them compare nozzles and fittings side-by-side, and they can even place orders if they want to."

NLB will schedule appearances of the mobile exhibit at customer locations, NLB regional branches and industry events. For details, call the NLB marketing department at (248)624-5555 or send an email message to nlbmktg@nlbusa.com.



Participants listening to one of the Boot Camp sessions held during the 2011 WJTA-IMCA Conference and Expo, September 19-21, Houston, Texas.

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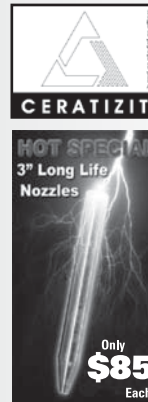


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New Hydrodemolition Robots From Aquajet Systems

Aquajet Systems has introduced the Aqua Cutter 710 A and 710 H to complement the latest generation of Aqua Cutter 710 V Classic and Evolution series of robots. The new robots offer additional options and improved automatic and manual features for hydrodemolition contractors.

The new models are designed for working on bridges, tunnels, roads, walls, parking garages or overhead roofs. Working with a typically 1000 bar pressure and 250 l/min, the robot handles removal depths down to approximately 1000 mm of concrete if required.



Aqua cutter 710 A

The newly introduced 710 A robot features an articulated arm that can be positioned through 360° and has two telescopic joints to reach a maximum height of up to 3 m. It is suitable for horizontal, vertical and overhead operations in applications such as multi-storey parking garage rehabilitation. It must always drive along the working surface.

The new 710 H has been designed for horizontal deck (floor) operations but can be upgraded to the 710 A or 710 V if required. It can optionally offer a 4 m operational width. It is intended for contractors who already have one or more of the 710 V robots or for new contractors just entering the hydrodemolition sector and principally seeking horizontal applications.

The 710 V series of robots, introduced earlier this year, is considered the most versatile robot from Aquajet and is able to reach up to heights of 7 m. The unit is also suitable for horizontal applications driving along the surface or



Aqua cutter 710 H

it can 'nose up' with the cutting head moving vertically on the mast, making it ideal for pillars and walls.

All three models are delivered with diesel engines and can be fitted with electric hybrid drive for areas that are not suitable for diesel engines.

The range is also available as Evolution models incorporating fully computerized facilities or Classic models not requiring these features and offering manual operation.

Built to operate in tough conditions, all the systems have been designed with the operator in mind and are easy to operate. A new improved rubber lined splashguard on the power head ensures improved noise reduction. Easy service access is also assured with 'gull wing' hoods and 'fold down' hydraulics for cleaning and maintenance.

For more information, visit www.aquajet.se, email: aquajet@aquajet.se, or call +46 (0)383 508 01.



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Scissor Lift Platform Helps Eliminate Need for Scaffolding When Cleaning Tubes With Rigid Lances



Peinemann has available rotating lance systems fitted on scissor lift platforms to clean bundles in place up to 6 m (20 feet) high without the need for scaffolding. The scissor lift platform helps eliminate the need to erect expensive scaffolding for cleaning jobs. The system is flexible, modular in design, and can work at low levels – 70 cm (28 inches) and high levels – 6 m (20 feet), in many different situations, in place or at the cleaning slab.

The machine can easily be set up as a 40K rotating lance package (see photographs) or it can be changed to a non rotary rigid lance powered by Peinemann's hydraulically driven TLE machine suitable for either three or five rigid lances.

Loading and offloading can be done with a forklift, a crane or with the standard extra long outriggers.

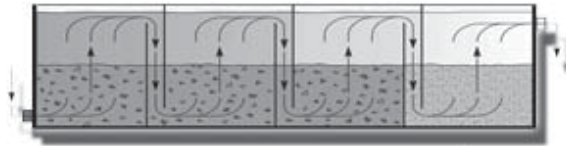
For more information, email: info@peinemann.nl or visit www.peinemannequipment.com.

Comments Solicited on Improvements to Recommended Practices

Comments are solicited regarding improvements to the WJTA-IMCA publications, *Recommended Practices for the Use of High Pressure Waterjetting Equipment* and *Recommended Practices for the Use of Industrial Vacuum Equipment*. While both publications are reviewed periodically at the WJTA-IMCA conferences and throughout the year, your comments and suggestions for improving the publications are invited and welcome anytime.

Please address your comments and suggestions to: WJTA-IMCA, 906 Olive Street, Suite 1200, St. Louis, MO 63101-1448, phone: (314)241-1445, fax: (314) 241-1449, email: wjta-imca@wjta.org. Please specify which publication you are commenting on.

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Federal Signal To Open New FS Solutions Location In Lexington, South Carolina

Federal Signal Environmental Corporation's Environmental Solutions Group has announced the opening on October 3, 2011, of a new FS Solutions center located at 116 Meat Plant Road in Lexington, South Carolina. The new FS Solutions center is part of the company's commitment to increasing product, service, training and rental offerings to industrial cleaning contractors and other industry professionals. The center will stock high performance parts and accessories for Federal Signal's Jetstream brand of waterblasters, along with other makes and models of waterblasters. Customers will also be able to rent the full line of Jetstream waterblasters and tools, as well as StoneAge tooling for specialized waterblast cleaning applications.

"The new FS Solutions center in Lexington will provide the rentals, used equipment, parts and accessories and training our customers need to run their equipment more profitably," says Tony Fuller, director of industrial sales for FS Solutions. "Further, as an authorized StoneAge repair facility, FS Solutions can keep your StoneAge tools in top condition."

Jetstream rentals come with all the advantages associated with the Jetstream name—ease of use, ease of maintenance and the ability to convert from 10k to 20k and 40k psi pressures. Customers can either pick up the unit they need, or FS Solutions can deliver to the job site. FS Solutions offers customers waterblasting safety training with every rental.

Additional FS Solutions centers are located in Gonzales, Louisiana; Birmingham, Alabama; Long Beach,



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California; Houston, Texas; Toledo, Ohio; and Streator, Illinois.

Like all FS Solutions locations, the new Lexington center will provide genuine OEM parts and factory-trained, certified technicians to offer recommendations and resolutions to any challenges customers may present.

"FS Solutions customers look to our sales staff and service training technicians for recommendations and solutions to the unique challenges of

their particular applications," Fuller says. "Whether it's a contractor looking for faster, more cost-effective ways to perform cleaning operations or a business that can benefit from application expertise, equipment evaluations or training, we are committed to the continued success of our customers by providing the right solutions."

To contact the FS Solutions center in Lexington, call (803)996-0741.

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