

Waterjet Systems And Industrial Vacuum Equipment For Environmental Applications



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Cold Jet And ACP Helping To Preserve Auschwitz Artifacts

In an effort to preserve artifacts from the Auschwitz concentration camps, the Auschwitz-Birkenau Memorial and State Museum in Oświęcim, Poland has turned to Cold

Jet, LLC and ACP Group, a leading producer of liquid carbon dioxide and dry ice. Conservators at the museum will use Cold Jet's i³MicroClean precision dry ice blast cleaning system and dry ice from ACP to clean metal and ceramic objects, including prisoners' bowls and spoons. The museum will also use dry ice blasting for maintenance of the facilities housing the planned new main exhibition. Recognizing the global significance of this cultural renovation project, Cold Jet and ACP provided the museum the blasting system and the dry ice at special symbolic pricing. The financial contribution from Cold Jet and ACP for this project is therefore well appreciated by the museum.

"The museum is in the middle of a global conservation and preservation project of the Auschwitz-Birkenau camps, which include 155 buildings and thousands of objects from prosthetics and glasses to cookware and art," said Aleksandra Papis, "Our modern laboratory and skilled restorers are working to find the best and safest methods for restoring all aspects of the camps. After significant testing of the Cold Jet system, we were satisfied with the ability to clean many of the unusual objects that will be displayed throughout the museum. We found dry ice blasting to be cleaner and less abrasive than other methods, and we will continue to find new ways to use the system for general maintenance and throughout the duration of the cleaning and preservation project."

"The preservation of the Auschwitz artifacts is important from historical and social perspectives as the museum

Precision dry ice blast cleaning system allows conservators at the Auschwitz-Birkenau Memorial and State Museum to effectively clean metal and ceramic items safely.

works to provide its more than one million annual visitors with a clear understanding of the atrocities that took place in the camps, as well as an honorable way to memorialize the victims," said Dietmar Juchmes, General Manager of Cold Jet Germany. "It is important for Cold Jet to be involved in this project to demonstrate our commitment to social causes by using our modern technology to preserve the past. Our dry ice blasting systems have been used to restore everything from soot-covered books damaged in fires and raised wreckage to established landmarks. Each presents a unique challenge that has been tackled by one of our dry ice blasting systems."

The i³MicroClean is a precision system that is used around the world to clean everything from delicate surfaces to complex mold cavities. The system uses reclaimed CO₂ in the form of solid dry ice particles accelerated through a hose and high-velocity nozzle to remove coats of resin from metal objects and dirt from ceramic objects without damaging the metal or ceramic. The dry ice particles vaporize upon impact with the surface, cleaning without any by-product and eliminating the added cost and environmental impact of secondary waste treatment and disposal.

Jan Vansant, General Manager of ACP added, "We are honored to be working with the Museum and Cold Jet on this important social project, which demonstrates our companies' commitment to social ethics and conscientious sustainability. The use of dry ice blasting as part of

(continued on page 16)



Three of the spoons cleaned with the Cold Jet i³MicroClean.



Dry ice cleaning was used to restore several Auschwitz artifacts.



Representatives from Cold Jet, ACP, and the Auschwitz-Birkenau Memorial and State Museum meet for the cleaning. The equipment used to restore the artifacts, Cold Jet's i³MicroClean block shaver, appears in the foreground.

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A Systematic Approach To Training

By Gary W. Toothe, CET, CIT, Training Manager, FS Solutions

Along with the productivity benefits of today's waterblasting and industrial cleaning technologies come safety and training requirements. If you are responsible for employee training, it's important to get your employees refreshed on all of their safety training. Remember, the cost of training is peanuts compared to the cost of an accident.

A well-devised training program should address all the core information and job skill requirements in a systematic, replicable way.

It's not enough to tell adult learners HOW to do something. You also must tell them WHY a process or methodology is required. Telling adult learners the reasons behind the rules is an effective way of getting their buy-in, and will keep your message in their consciousness long after training has been completed.

At FS Solutions, we have developed a systematic approach to curriculum delivery that encompasses the following training process steps, moving from theoretical information to hands-on skills:

- Theory
- Fundamental Safety & Skills
- Advanced Skills for the Technician
- Operator Skills, Operations, Maintenance & Troubleshooting

Theory is a stand alone class for those who want an "I'll believe it when I see it" approach to understanding the concepts and processes behind industrial waterblasting.

Fundamentals are the introductory classes. These classes emphasize safety, as outlined in the WJTA-IMCA

Recommended Practices, and teach both knowledge and skills. They both involve the use of simulations or comparable setups at customer sites. Half the time is spent in classroom and half the time doing hands-on applications.

Advanced Skills for the Technician deals with the whys behind successful and unsuccessful jobs. It is understood that the students have the fundamentals as a base prior to entering the class. These classes delve into the resources, techniques and troubleshooting that can enable a technician to maximize the performance and productivity of a project from the "end of the hose."

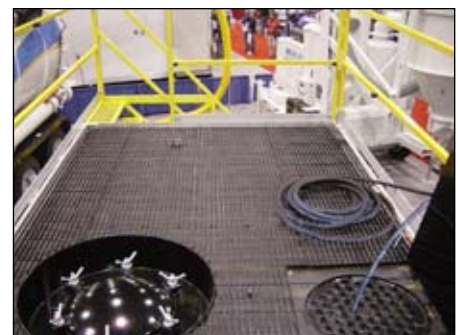
Operator Skills does for the operator what an advanced skill course does for the technician. Students learn the ins and outs of the units, how to operate them at their maximum efficiency, what is expected in field maintenance and how to troubleshoot performance problems. This class is also half classroom and half hands-on, using the actual equipment (instead of a simulator) for the hands-on portion of the class.

All of the above classes can be used for certification. If certification is desired, there will be both knowledge and skills tests to ensure the student has mastered the material.

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.



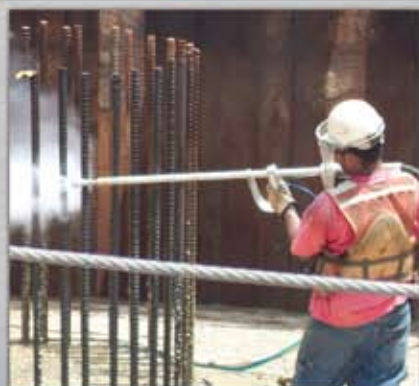
Federal Signal Environmental Solutions Group's intermodal training simulator helps customers increase job safety, operational efficiency and regulatory compliance in a variety of applications, such as high pressure and ultra-high pressure waterblasting, coatings removal, metal cutting, industrial vacuuming and confined-space operations. Configurable to match customer training needs, the unit has three distinct training areas – top side, confined space and outside.



The simulator's training stations include areas for cleaning, cutting and surface preparation through a variety of equipment. The equipment is designed to provide students with the essential techniques required to be both safe and productive in the field.

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*Steve Johnson, Division Manager
CCS, Longview, WA*

"They worked with us until the operation was up and running smoothly. With Jetstream's help, we finished what would have been a two-week project in six days."

*Charlie Underwood, Operations Manager
Midwest Waterblasting, Clinton, MI*

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Nominations Open For WJTA-IMCA Board Of Directors - Seven Positions Open

Nominations for the WaterJet Technology Association (WJTA)-Industrial & Municipal Cleaning Association (IMCA) Board of Directors are now open.

The terms of office of **Pat DeBusk**, Inland Industrial Services Co.; **Grzegorz J. Galecki, Ph.D.**, Missouri University of Science and Technology; **Larry Loper**, High Pressure Equipment Company; **Forrest A. Shook**, NLB Corporation; **Paul Webster**, Parker Hannifin-EPD; and **John Wolgamott**, StoneAge, Inc., will expire in September 2011. In addition, the recent resignation of B.T. Steadman from the board has resulted in the seventh open position. Therefore, nominations are sought for seven (7) board members. Six (6) board members will be elected to serve a four-year term of office beginning September 19, 2011. The candidate receiving the seventh highest number of

(continued on page 16)

Nominations/Elections Procedures

In accordance with the WJTA-IMCA bylaws, revised in 2002, nominations and elections to the Board of Directors include the following procedures:

- At least two calls for nominations to the board of directors will be published in *Jet News*. The second call for nominations appears in this issue. **Nominations will be accepted through March 31, 2011.**
- An official ballot listing the eligible nominees and a brief biographical sketch for each individual will then be forwarded by mail to all eligible voting members of the Association on **June 28, 2011. Signed and executed ballots must be mailed to the WJTA-IMCA office for tallying by July 26, 2011.**
- The names of newly elected board members will be announced in the *Jet News* and on the WJTA-IMCA website.

Only WJTA-IMCA members in good standing (2010 membership dues paid) may submit a nomination(s). A nominee who has not paid his/her dues by March 31, 2011, shall be declared ineligible to run for office in the 2011 election.



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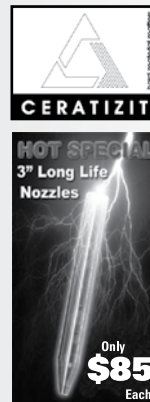


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Bill Gaff Joins Vacuum Truck Rentals, Vacuum Truck Sales And Service

Vacuum Truck Rentals and Vacuum Truck Sales and Service are pleased to announce the appointment of Bill Gaff to the position of Vice President of Sales and Marketing. Gaff is a 30-year veteran of the industrial and municipal markets holding numerous senior level executive positions, including president of the Air and Water Group of Federal Signal, which included Vactor, Guzzler, and Jetstream; president of Vactor Manufacturing; and vice president of industrial products for the Environmental Products Group.



Bill Gaff

Gaff is an active member of industry associations, and he currently serves as chairman of the board of the WJTA/IMCA trade association. Gaff is a graduate of Illinois State with degrees in business administration and finance. He is also a graduate of the Executive Program of the University of Michigan.

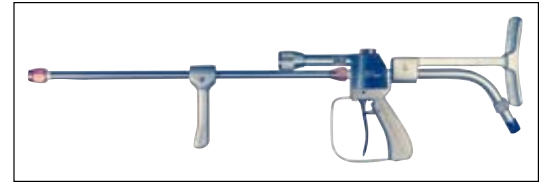
Gaff will be responsible for the sales, service, and marketing functions for both the rental and sales companies that offer premium products for rental, sale and service for industrial and municipal markets in their seven strategic locations across North America.

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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Gardner Denver Introduces Tuf Gun Line Of Water Blasting Guns

Gardner Denver Water Jetting Systems has launched a revolutionary new line of hand held water blasting guns – Tuf Guns.



The new Tuf Guns are 50% lighter and far more ergonomic. Additionally, tools are not required for adjusting the Tuf Gun shoulder stock, the front hand grip assembly, or for performing cartridge change outs.

Operators can devote more time to their tasks, working with less fatigue, and without having to carry special tools to make time-consuming adjustments to their guns.

Traditionally hand held water blasting guns require the use of special wrenches in order to facilitate cartridge change outs. With Tuf Gun, operators no longer need to carry adjustable wrenches in their pockets to make changes to shoulder stocks, front hand grips, or for cartridge change outs.

With a simple twist of the wrist, all of these tasks are easily accomplished.

Tuf Guns' shoulder stocks and front hand grips have been ergonomically redesigned to accommodate an integrated adjustment knob. When researching and redesigning these components, Gardner Denver Water Jetting tested a wide variety of materials for durability and operator comfort.

The new Tuf Gun materials weigh approximately 50% less than the aluminum components they replace. These design changes have decreased the overall weight of the gun by as much as two pounds. Less weight and an ergonomic design reduces operator fatigue, keeping operators on the job for maximum productivity.

For more information on the complete line of Gardner Denver Water Jetting Systems Tuf Guns, visit www.waterjetting.com or call toll free at 1-800-231-3628.

Apply Now To Be Considered

Complimentary WJTA-IMCA Conference and Expo Registration

VLN Advanced Technologies, Inc., Ottawa, Ontario, Canada, is sponsoring complimentary registrations for the 2011 WJTA-IMCA Conference and Expo, September 19-21, 2011.

An individual who is interested in attending the Conference, but unable to do so without financial assistance, is encouraged to apply for a complimentary Conference registration made available through VLN's sponsorship.

To apply for a complimentary registration, complete the form on the WJTA-IMCA web site at www.wjta.org. Click on 2011 WJTA-IMCA Conference and Expo under "Upcoming Events;" then click - Complimentary Conference Registration. Apply **NO LATER THAN JULY 15, 2011**.

Many thanks to VLN Advanced Technologies, Inc. and to VLN President Dr. Mohan M. Vijay for his generous sponsorship activity.

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Cutting Stone For Countertops With A Combination Robot Waterjet And Saw System

Flow International Corporation has launched the new Mach 4r, a combination robotic waterjet and saw cutting system. It maximizes a shop's productivity by optimizing countertop cutting and significantly improving operator efficiency.

This combination allows customers to achieve the benefits of precise corner radius and maximum material usage offered by Flow waterjets with fast straight-line cutting of a saw. A highly accurate and dependable robot and efficient, field-proven software add to the productivity improvements. Customers can select from a wide variety of Flow pumps to complete their system.



The heavy duty, foundry-grade, 6-Axis robot has a 20,000 hour maintenance cycle with an extended reach of 3.1 meters. It utilizes a Flow International Paser® waterjet cutting system, and combines that with the optimal horsepower saw for countertop fabrication, a 20 hp direct drive. Dual work zones allow the operator to simultaneously load and cut slabs resulting in unmatched fabrication speed and uptime. The system features automatic tool pathing and is programmed by a comprehensive yet easy to use software suite, eliminating the need for g-code knowledge typically required by CNC machines. Files from all major CAD programs are directly accepted. The software suite includes the following software tools to increase productivity:

- Vein matching software easily combines multiple stone pieces from different slabs for exact color matches at the seams created with a combination of multiple stone pieces from any number of slabs.
- A vision system directly transfers pictures of the stone slab to the operating monitor, allowing

dxg drawings to be applied to the slab and cutting to start immediately.

- An inventory management system easily catalogs slabs online using photographs and barcoding to efficiently organize slab inventory.

“Our years of experience supplying abrasive waterjet cutting systems to the Stone industry has allowed us to launch this exciting product that will significantly increase any Stone shop's productivity,” says Tim Fabian, global product manager.

“We recently installed Flow's robot cutting system in our shop. It's been a great asset. It's easy to learn and we have not only improved our throughput, but increased the overall satisfaction of our customers,” says Cedric Graham, owner of Royal Marble and Tile. “It now takes us only 15 minutes to process an entire slab.”

For more information, visit www.FlowWaterjet.com.

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Candidates Sought For 2011 WJTA-IMCA Awards

You are invited to submit candidates for the special awards that are presented biennially by the WJTA-IMCA to honor a company, organization or individual who has made a significant contribution to the industry through accomplishments that directly enhance waterjet and industrial cleaning technology and the industry as a whole. A list of previous WJTA-IMCA award recipients appears at right.

Candidate nominations must be received no later than August 1, 2011. The award recipient(s), to be selected by the Awards Committee of the WJTA-IMCA, will be honored at a presentation ceremony on Monday, September 19, 2011, in conjunction with the 2011 WJTA-IMCA Conference and Expo in Houston, Texas.

An official form for candidate nominations appears on page 13. Complete one form for each nomination submitted. Please make additional copies of the form as needed. Completed nomination forms may be faxed to (314)241-1449 or mailed to the WJTA-IMCA, 906 Olive Street, Suite 1200, St. Louis, MO 63101-1448, USA.

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Association Managers

Mark S. Birenbaum, Ph.D. • Kenneth C. Carroll
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Previous Award Recipients

1981 Pioneer Award
Jacob Frank

1983 Pioneer Award
H.D. Stephens

1985 Pioneer Award
William Cooley, D.Sc.

1987 Pioneer Award
Norman Franz, Ph.D.

1989 Pioneer Award
Richard Paseman

1991 Pioneer Award
John H. Olsen, Ph.D.

1993 Pioneer Award
Fun-Den Wang, Ph.D.,

Safety Award
David Summers, Ph.D.
NLB Corporation

Service Award
George A. Savanick, Ph.D.
Mohan Vijay, Ph.D.

Technology Award
Mohamed Hashish, Ph.D.
Autoclave Engineers
Hammelmann Corporation

1995 Pioneer Award
George Rankin

Safety Award
Autoclave Engineers

Service Award
Thomas J. Labus

Technology Award
Thomas J. Kim, Ph.D.

1997 Pioneer Award
David A. Summers, Ph.D.

Service Award
Andrew F. Conn, Ph.D.

Technology Award
Prof. Dr-Ing. Hartmut Louis

1999 Pioneer Award
Mohamed Hashish, Ph.D.

Safety Award
Bruce Wood

Service Award
John Wolgamott

Technology Award
Ryoji Kobayashi, Ph.D.

2001 Pioneer Award
George A. Savanick, Ph.D.

Technology Award
Richard Ward

2003 Pioneer Award
Pat DeBusk

Service Award
Mohamed Hashish, Ph.D.

Technology Award
Ernest S. Geskin, Ph.D.

2005 Pioneer Award
Hartmut Louis, Dr.-Ing.

Safety Award
TurtleSkin WaterArmor

Service Award
NLB Corporation

Technology Award
Jay Zeng, Ph.D.

2007 Pioneer Award
Forrest Shook

Safety Award
Vacuum Equipment Safety
Committee

Service Award
Tony Fuller
Jim Petillo

Technology Award
Mamidala Ramulu, Ph.D.

2009 Pioneer Award
John Wolgamott

Safety Award
Gary W. Toothe
Philip Stein

Service Award
Bill McClister

Technology Award
Seiji Shimizu, Ph.D.

2011 WJTA-IMCA Awards Nomination Form

Instructions: Complete sections below and submit a narrative (300-word maximum) to support your nomination on a separate sheet of paper. Please print or type all information.

I nominate the following company, organization, or person as a candidate to receive a 2011 WJTA-IMCA Award
(please print or type full individual, company or organization name):

company, organization, or person

☐ Distinguished Pioneer Award

The nominee must:

- Have made contributions to the waterjet or industrial cleaning industries;
- Have made contributions to the achievement of the goals of WJTA-IMCA;
- Have high moral character;
- Have strong personal and business ethics;
- Be dedicated to the future of the waterjet industry and to the growth of WJTA-IMCA.

☐ Service Award

How has the nominated company, organization or individual contributed in time and talent toward improvement in the WJTA-IMCA?

☐ Technology Award

What has the nominated company, organization or individual done to introduce new and innovative ideas in engineering or manufacturing? This could include, but is not limited to, new products, new manufacturing techniques, patents . . . any unique activity that advanced the technology of the waterjet industry.

☐ Safety Award

What has the nominated company, organization or individual done to introduce new and innovative ideas in safety? This could include, but is not limited to new products, new concepts, new safety techniques . . . any unique activity which increases the overall safety of waterjet equipment.

CANDIDATE _____ Company _____

Address _____ City _____

State _____ Country _____ Postal Code _____

Phone In US/Canada (_____) _____ Fax (_____) _____
area code area code

Phone Outside US/Canada [_____] (_____) _____ Fax [_____] (_____) _____
country code city code country code city code

CANDIDATE SUBMITTED BY _____ Company _____

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State _____ Country _____ Postal Code _____

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area code area code

Phone Outside US/Canada [_____] (_____) _____ Fax [_____] (_____) _____
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Nominations must be received no later than August 1, 2011.

For a prompt response, fax completed form to (314)241-1449, or mail to the WJTA-IMCA, 906 Olive Street, Suite 1200, St. Louis, MO 63101-1434, USA.

Waterjet Equipment For Underwater Intervention

Waterjet technology companies Jet Edge and Chukar Waterjet will showcase the latest innovations in portable and undersea ultra-high pressure waterjet cutting and water blasting technology at Underwater Intervention, February 22-24 in New Orleans (booth #139).

As leaders in the ultra-high pressure waterjet industry, waterjet manufacturer Jet Edge and its applications partner Chukar Waterjet have developed numerous waterjetting tools crucial to the underwater operations, workboat and shipyard industries, including undersea waterjetting equipment, portable waterjet cutting machines, precision waterjet cutting systems, ultra-high pressure water blasting tools, and electric and diesel-powered waterjet intensifier pumps. Most recently, in emergency response to the Gulf oil spill, the two companies partnered to develop the first-known waterjet intensifier pump capable of operating at depths below 5,000 feet. BP used the subsea waterjetting system to blast away hydrates that were clogging a containment system.

During the Underwater Intervention Conference, Jet Edge and Chukar will display several waterjet tools that are ideal for use in environmentally sensitive marine environments or potentially hazardous areas, including the Jet Edge Hydraulic Versacutter portable linear and pipe cutting system; Gyra Jet LP ultra-high pressure lance for surface preparation, coating and corrosion removal; Ultra Deckblaster walk-behind deck blasting system for removing coatings and corrosion; and the 80hp 60,000 psi iP60-80DS diesel-powered portable waterjet intensifier pump. Technical experts from Jet Edge and Chukar Waterjet will be available to answer questions about waterjet applications.



Jet Edge iP60-80DS Diesel-Powered Waterjet Intensifier Pump

Commercialization Partner Sought for Subsea Waterjet Equipment


Jet Edge and Chukar Waterjet are seeking an existing underwater operations technology company with which they can partner to bring their undersea waterjetting equipment to the commercial market. For more



BP system ready to deploy.

information, contact Bruce Kivisto at Chukar Waterjet at 763-497-8731 or brucek@chukarwaterjet.com.

For more information about Jet Edge, visit www.jetedge.com, e-mail sales@jetedge.com or call 1-800-JET-EDGE (538-3343). For more information about Chukar Waterjet, visit www.chukarwaterjet.com, or call 1-888-497-8749 or (763) 497-8749.



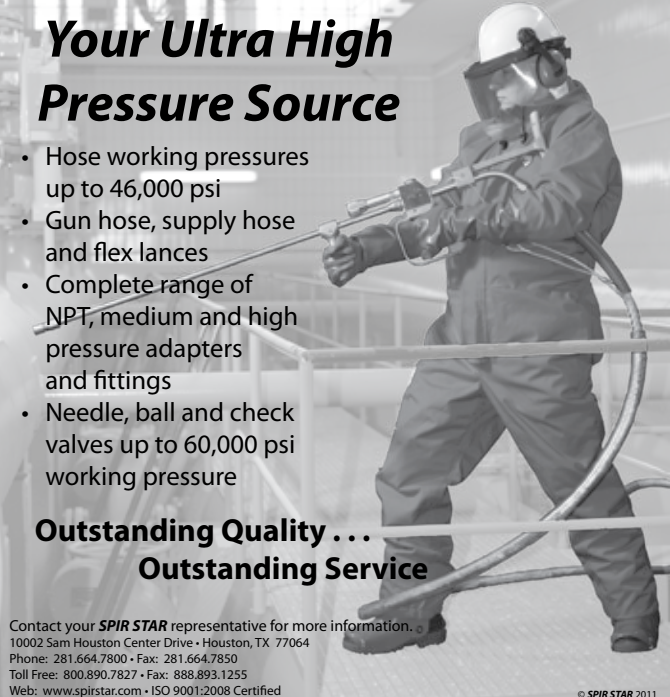
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PaR Systems, Inc. Appoints Stephen Tritch To Board Of Directors

PaR Systems, Inc. has appointed Stephen Tritch as a member of the board of directors. Mr. Tritch's distinguished career in the nuclear energy industry began with Westinghouse Electric Company in 1971 as a product engineer. He eventually became president and CEO and later chairman of the board. Mr. Tritch also serves on the board of directors for Shaw Group, Inc. and Koppers Inc.

During his career at Westinghouse, Mr. Tritch served as senior vice president, Nuclear Fuel. In this capacity, he provided nuclear fuel products and services to nuclear power plants throughout the world.

"We are very excited to have Steve serve on our board of directors. He has immeasurably benefitted the commercial nuclear industry and to have someone as accomplished as Steve Tritch on our board is invaluable," said PaR Systems, Inc. President and CEO Mark Wrightsman.

In addition to his work in the private sector, Mr. Tritch has extensive experience in service to his alma mater, the University of Pittsburgh, where he is the current chairman of the board of trustees as well as a member of the board for the University of Pittsburgh Medical Center. Mr. Tritch was also appointed to the President's Export Council by President George W. Bush.

Mr. Tritch joins a highly esteemed team of board members, which includes H. Lawrence Garrett, who

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served as the secretary of the Navy under President George H. W. Bush, as well as Charles Chadwell, who currently serves as chairman of the board and is the former vice president and general manager of the Commercial Engine Operations for GE Aircraft Engines. PaR is confident that with the addition of Mr. Tritch to the board of

directors, the already well-established company, which celebrates its 50 year anniversary in 2011, is poised for a new era of even greater growth in support of its global customers.

PaR Systems is a world leader in providing advanced engineered

(continued on page 25)

Nominations Open For WJTA-IMCA Board Of Directors - Seven Positions Open, from page 6

votes will be elected to complete Mr. Steadman's unexpired term of office and will serve the remaining two years of a four-year term ending in September 2013.

The WJTA-IMCA bylaws provide that no more than one of the elected board members may be from the same company or organization. Therefore, board members may not be nominated from the same company or organization already represented on the board by individuals whose terms expire in 2013, including the **Colorado School of Mines** (Hugh B. Miller, Ph.D.), **Flow International Corp.** (Mohamed Hashish, Ph.D.), **Vacuum Truck Rentals** (Bill Gaff), and **Veolia Environmental Services** (Gary Noto). George A. Savanick, Ph.D., is a consultant, and he is not affiliated with any company or organization.

According to the WJTA-IMCA bylaws, any WJTA-IMCA member in good standing (2010 membership dues paid) may submit a nomination(s). A nominee who has not paid his/her dues by March 31, 2011, shall be declared ineligible to run for office in the 2011 election. The deadline for making nominations is **March 31, 2011**. Your nomination(s) should reach the WJTA-IMCA office **no later than March 31, 2011**.

To submit a nomination(s), complete the Nomination Form and return, along with your nominee's biographical information and a brief statement of his/her mission and vision for WJTA-IMCA, to: WJTA-IMCA, 906 Olive Street, Suite 1200, Saint Louis, MO 63101-1448, Phone: (314) 241-1445, Fax: (314) 241-1449.

Remember, nominations must be received **no later than March 31, 2011**.

Nomination Form

Name of Nominee _____
Title _____
Business _____
Address _____
City _____ State _____
Country _____ Postal Code _____
Telephone _____ Fax _____
Email _____

_____ **Attach biographical information with a brief statement of your nominee's mission and vision for WJTA-IMCA.** _____

Name of Nominator _____
Title _____
Business _____
Address _____
City _____ State _____
Country _____ Postal Code _____
Telephone _____ Fax _____
Email _____

Return completed Nomination Form and supporting information to:
WJTA-IMCA, 906 Olive Street, Suite 1200, Saint Louis, MO 63101-1448

Cold Jet And ACP Helping To Preserve Auschwitz Artifacts, from page 2

this restoration project enhances the museum's ability to quickly and safely clean its vast inventory of important cultural and historical artifacts. We are pleased with the results of the dry ice blasting performed on the artifacts and

look forward to assisting the museum going forward."

Reprinted from www.coldjet.com courtesy of Cold Jet LLC, Loveland, Ohio. For more information, visit www.coldjet.com or call (800)337-9423.

WJTA-IMCA ListServ - A Free Service To WJTA-IMCA Members

The **WJTA-IMCAListServ** enables you to take advantage of prompt email interaction with your colleagues. **WJTA-IMCAListServ** is a **FREE** email broadcast system developed by WJTA-IMCA to help you communicate and network with other waterjet and industrial cleaning and vacuuming professionals.

Participation is limited to WJTA-IMCA members in good standing. You must sign up in order to participate. To sign up for the **WJTA-IMCAListServ**, contact Pete at the WJTA-IMCA office by email: wjta-imca@wjta.org, phone: 314-241-1445, or fax: 314-241-1449.

Jet Edge Opens New Sales Office In China

Jet Edge, Inc., has announced the opening of a new waterjet sales, service and showroom office in Shanghai, China.

Jet Edge's China office will allow the Minnesota USA-based manufacturer to directly supply and support local customers with service and training facilities, a waterjet equipment demonstration showroom, and a waterjet parts warehouse.

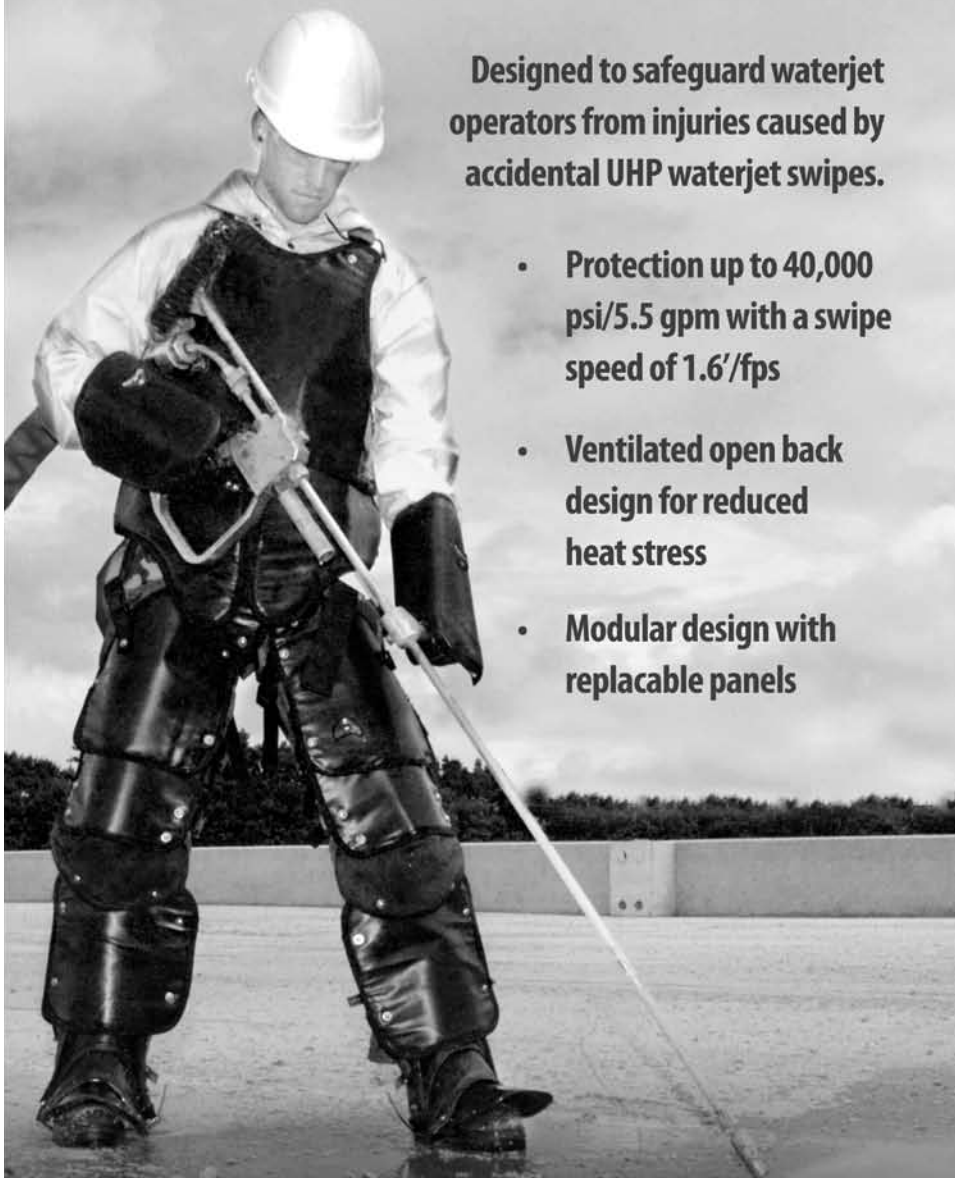
"We are very excited to begin offering direct sales and support of Jet Edge waterjet technology to China's rapidly modernizing manufacturing companies," said Jude Lague, Jet Edge president. "We are committed to continually growing our business presence in China, and having a direct presence in Shanghai is an essential first step in demonstrating our commitment to our valued China-based customers. The location of Jet Edge's Shanghai Office at 1F, 458 North Fute Road, Shanghai Waigaoqiao F.T.Z., 200131, P. R. China, will greatly improve our sales and technical service support capabilities to all of our Asia Pacific region distributors and customers. Their ability to receive information and speak with a Jet Edge employee directly during their normal business day has been made much easier."

For more information, contact Jet Edge's international sales manager Dave Anderson at davea@jetedge.com or call +1-763-497-8718 or visit www.jetedge.com.



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Flow Waterjet On Howe And Howe Technologies

Howe and Howe Technologies, a leading extreme vehicle fabricator featured on the Discovery Channel's Black Ops Brothers: Howe and Howe Tech, has added Flow International Corporation's Mach 3 waterjet cutting system as a key element in their fabricating process. "The Flow waterjet has become the key machine tool in our fabrication shop," explains Mike Howe. "Since it was installed, it has been used on pretty much every project we've taken on. It's at least doubled, if not tripled, our efficiency."

Howe and Howe Technologies designs and builds full-sized manned

and remote controlled dual tracked vehicles, emergency recovery vehicles for first responders, and vehicles designed for mining personnel transport and safety.

The Flow waterjet they use is a 4 ft x 8 ft Mach 3 system and includes Dynamic Waterjet® which was invented by Flow International to provide fast, accurate cutting.

Howe and Howe Technologies, Inc. is internationally known and respected for extreme vehicle fabrication and design. Much of this recognition stems from the development of the world's

fastest dual tracked vehicle titled "Ripsaw." However, Howe and Howe Technologies continue to push the envelope with the advent of PAV1 "Badger," the world's smallest manned armored assault vehicle and SR1 "Subterranean Rover 1" for mining transport. For more information, visit www.HoweandHowe.com. Season 2 of Black Ops Brothers: Howe & Howe Tech airs on Monday nights at 10 p.m. on the Discovery Channel.

For more information about Flow, visit www.FlowWaterjet.com.

IMPORTANT NOTICE REGARDING SPAM

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.

StoneAge® 2011 Waterblast Catalog

The 2011 StoneAge Waterblast Catalog, featuring the latest information about new and updated products, as well as additions to the popular Tool Talk™ information series, is now available online.

The StoneAge website has been updated with the latest catalog information. Visit www.stoneagetools.com to view the catalog online or to download a PDF copy of the catalog.

StoneAge has updated the popular online Waterblast Solutions Powerpoint. The new version includes all of the latest StoneAge tool introductions including the 40k psi Badger™, the Rigid Lancing System upgrades, and the new 40K Banshee® models.

StoneAge Introduces New Range of Metric and BSP Inlet Connections

StoneAge has introduced a new range of Metric and BSP inlet connections for some of the BJV, Badger, Raptor, and Torus tools. In addition to the new Metric & BSP inlet nuts, StoneAge is also offering a range of the most commonly used hose adaptors. The hose adapters will have a male thread with O-ring or copper washer seal to fit into the new tool inlets. No Teflon tape will be required for these connections.

Visit www.stoneagetools.com for more information.

Comments Solicited On Improvements To Recommended Practices

Comments are solicited regarding improvements to the WJTA-IMCA publications, *Recommended Practices for the Use of Manually Operated 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.

The *Recommended Practices for the Use of Manually Operated High Pressure Waterjetting Equipment* is being revised and is scheduled for release soon.

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.

Stutes Enterprise Systems, Inc. Expands Services To Gonzales, Louisiana

Stutes Enterprise Systems, Inc., La Porte, Texas, has opened a new branch at 39369 Airline Plaza, Gonzales, Louisiana 70737, to better serve clients in Alabama, Kentucky, Louisiana, Mississippi, and other southern states.



Bret Guidry has been appointed branch manager for the Gonzales facility. Mr. Guidry has over 20 years of experience in industrial service in waterblasting, tank cleaning, and chemical cleaning applications. He is also experienced in industrial rentals and waterblaster rentals and equipment sales. Mr. Guidry can be contacted by telephone: (225)450-3241, fax: (225)340-3240, cell: (225)270-0887, and email: bret@aquablasters.com.



Bret Guidry

Industrial cleaning equipment for rental, purchase and long term lease will be available at the new branch facility. Equipment includes high and ultra high-pressure waterjet systems with working pressures up to 40,000 psi and flow rates up to 60 gpm. A full line of accessories for cutting, surface preparation, and many other applications will also be available. Stutes also carries a complete line of chemical and hot water blasters with pressures up to 5,000 psi and temperatures to 210°F.

Visit www.aquablasters.com for more information.

Terydon, Inc. Adds Distributor In South Africa

Terydon, Inc., has added Total Blasting to its list of worldwide distributors. Located in South Africa, Total Blasting has over 30 years of experience in the surface preparation industry. For more information, visit www.terydon.com or www.totalblasting.co.za.



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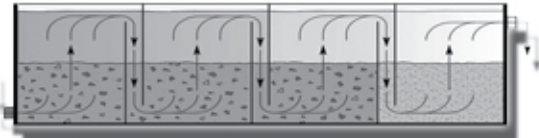
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Randy Dickens Appointed Midwest Regional Sales Manager For Environmental Solutions Group Direct Sales Network of Locations

Federal Signal's Environmental Solutions Group has appointed Randy Dickens as the new sales manager for the Midwest region of the United States for the group's direct sales network of locations, operating out of Seneca, Illinois. In this new role, Dickens will be responsible for managing and overseeing the growth of new unit sales for the Guzzler, Vactor HXX and Jetstream brands in the industrial, utility and construction market segments in Illinois, Indiana, Iowa, Minnesota, Missouri and Wisconsin.



Randy Dickens

Dickens has several years of experience in technical sales. Most recently, he worked for six years at Central Illinois Trucks, Inc., selling Kenworth truck chassis for the Environmental Solutions Group's Vactor brand of sewer cleaners.

"We are pleased to welcome Randy to our sales team," said Tony Fuller, director of industrial sales for the Environmental Solutions Group. "His industry knowledge and dedication to meeting customer expectations before and after the sale has been witnessed first-hand by many within our organization over the years. Randy's sales experience will have a positive impact on our relationships with customers in the Midwest."

"I look forward to making a significant, long-term contribution to the sales growth of the Environmental Solutions Group, and to meeting the needs of our customers in the Midwest region," Dickens said.

The Environmental Solutions Group manufactures and markets worldwide a full range of street cleaning, combination sewer cleaning, hydro-excavation, glycol recovery and vacuum loader vehicles and high-performance water blasting equipment sold under the Elgin Sweeper, Guzzler,

Jetstream and Vactor brands. In addition to equipment sales, the group is engaged in the sale of parts and tooling, service and repair, equipment rentals and training.

For more information, visit www.fsepg.com.



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E.J. Bartells Installs Jet Edge Waterjet Cutting System

EJ. Bartells has installed a Jet Edge waterjet cutting machine at its insulation, refractories and HVAC fabrication facility in Spokane, Wash.

Founded in 1923, E.J. Bartells provides thermal and acoustical-related products ranging from -350°F cryogenics material to 3,000°F high-temperature refractory material to contractors and end users in nine Pacific Northwest and Western states. The company is headquartered in Renton, Wash., and has several branch locations in Washington, Oregon, Alaska, Utah, Colorado and Montana.

E.J. Bartells offers a diverse range of insulation, refractory and HVAC products and services to a variety of

industries, including commercial, industrial, and specialty fabrication and manufacturing. In addition to supplying thermal and acoustical products to contractors, end users and specialty applications, the company also provides mechanical insulation and refractory contracting services and offers commercial and industrial energy audits to help its customers reduce energy costs, improve efficiency and safety, and reduce emissions from equipment, buildings and facilities.

Rick Smith, E.J. Bartells president and CEO, noted that his company has used water jet cutting technology for several years to cut many different types of materials, from soft or light density products to heavy density

products. Smith said his company decided to buy its newest waterjet cutting system from Jet Edge because the water jet manufacturer offered a system that came highly recommended by a trusted Jet Edge customer and greatly increased productivity over an existing system.

“We chose a Jet Edge Mid Rail Gantry after receiving positive feedback from other Jet Edge users,” Smith said. “The flexibility of the equipment and operational differences that we saw compared to other water jet equipment was very impressive and the sales and support staff were exceptional. The follow up did not stop after installation. Brad Schwartz

(continued on page 22)



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E.J. Bartells Installs Jet Edge Waterjet Cutting System, from page 21

[Jet Edge regional sales manager] has been excellent. He's got an answer for you, and if he doesn't he will get you one."

Since installing its Jet Edge, E.J. Bartells has seen tremendous gains in productivity thanks to the Jet Edge system's two-click file changeovers, common line cutting, rapid traversing and easy pump maintenance, Smith explained.

"The timeframe for file changeovers and setup were drastically reduced in comparison to our other system," he said. "A part that used to take seven minutes to process now takes only two minutes to process, including loading, cutting and unloading. The other system uses static nesting so you have to back out of the user interface to set up your next program and you have to shut down the pump to set up your condition files. It is very time-consuming. With the Jet Edge, your intensifier can be running and it's a two-click operation to get to the next file."

In addition to rapid file changeovers, E.J. Bartells's Jet Edge system can cut at 500 inches per minute, while its older water jet is capable of cutting at only 300 inches per minute. The Jet Edge system also utilizes common-line cutting to maximize productivity, and is capable of rapid traversing at 800 inches per minute to get the water jet cutting head out of the way for loading and unloading. Intensifier pump maintenance on the Jet Edge water jet system also is less time-consuming, with seal changes averaging 45 minutes versus a half-day on the older system. The Jet Edge water jet pump also features a remote start, which saves the operator time by allowing him/her to start the pump at



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the pump rather than walking back to the controller.

Smith said he would definitely recommend Jet Edge to others.

"Jet Edge's system is superior to our other system," he noted. "The sales process was excellent, installation went off without a hitch and training was tailored to our needs and process.

It was thorough enough, yet not overwhelming. Jet Edge's biggest strengths are its customer service and quality product. There are no weaknesses to speak of."

For more information about E.J. Bartells, visit www.ejbartells.com or call 1-800-468-9528. For more information about Jet Edge, visit www.jetedge.com, or call 1-800-JET-EDGE (538-3343).

Unique Flange Mounting For Pumps

Hughes Pumps' unique flange mounting option, available through the whole pump range, makes pump installation very simple and, through careful design, enables their pumps to be more compact than other like-for-like units, but still powerful enough for the most arduous water-jetting applications.

This unique option offers flange mounting of the pump unit directly onto the engine flywheel housing, using an SAE engine adaptor housing. As well as ensuring the pump and engine are perfectly aligned, this design completely encloses all moving parts and makes the pump installation very simple – a real benefit for OEM's, or customers wanting to replace their existing pump for a new

Hughes alternative. A flexible coupling drives the pump directly from the engine flywheel, with the Hughes, maintenance free close-coupled gearbox, ensuring the pump operates at the correct shaft speed without having a belt drive system that needs regular adjustment.

As well as the technical benefits that this design feature offers, the Hughes installation ensures that the complete pump unit remains extremely compact. The unique Hughes design means there is no need for large belt drive systems which can take up valuable space on the pump skid, and as all of the torque is absorbed at the pump/engine interface, the skid design can be simplified contributing to an overall weight reduction.

Hughes Pumps has more than 40 years experience in the design and manufacture of high pressure, positive displacement pumps and water jetting equipment. Its products are used over the world in the harshest of environments and industries including; Petro-Chemical, Pharmaceutical, Food Processing, Offshore and Contracting. The company's commitment to precision engineering provides the benefits of an established product range and the flexibility of a manufacturer willing to engineer a solution to any problem.

For more information visit www.hughes-pumps.co.uk or e-mail sales@hughes-pumps.co.uk



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Join WJTA-IMCA now and receive a substantial discount off Conference registration fees.

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☐ **Tuesday, September 20**\$ 219\$ 279.....\$ 279\$ 339.....= \$ _____
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☐ **Wednesday, September 21**\$ 219\$ 279.....\$ 279\$ 339.....= \$ _____
Registration includes admittance to the exhibit hall, boot camp sessions, paper presentations and live demonstrations on Wednesday (9/21); and the Industry Appreciation Reception on Monday (9/19).

☐ **Exhibit Hall/Live Demo Pass**

Registration includes admittance to the exhibit hall, boot camp sessions, and live demonstrations on the day(s) that you are registered; and the Industry Appreciation Reception on Monday (9/19).

☐ **Tuesday, September 20, and Wednesday, September 21**\$ 45\$ 45.....\$ 45\$ 45.....= \$ _____

☐ **Tuesday, September 20**\$ 30\$ 30.....\$ 30\$ 30.....= \$ _____

☐ **Wednesday, September 21**\$ 30\$ 30.....\$ 30\$ 30.....= \$ _____

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Registration includes admittance to the Pre-Conference Seminar and Industry Appreciation Reception on Monday (9/19); and exhibit hall, boot camp sessions, paper presentations and live demonstrations on Tuesday (9/20) and Wednesday (9/21). Registration does **NOT** include copies of the *Proceedings*, or luncheon on Monday, (9/19). **NO** discount is available for students that are not members of WJTA-IMCA. WJTA-IMCA student members must be enrolled **full-time** in a university graduate or undergraduate program.

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2011 WJTA-IMCA Conference registrants may purchase extra copies of the Conference *Proceedings* on CD-ROM for only \$89. Regularly priced at \$109, you will **SAVE \$20**. Offer valid through 9/30/11.

SPECIAL OFFER!

Cancellation Policy: Fees will be refunded in full for cancellations received at least four (4) weeks prior to the Conference. Cancellations received more than ten (10) days and less than four (4) weeks prior to the Conference will be subject to a \$50 charge. No refund will be made for cancellations received less than 10 days prior to the Conference. However, substitutions may be made at anytime. Refunds will not be processed until after the Conference.

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Reel 'O' Dex

Optimizing performance, safety, and cost-savings are prime factors in servicing plant shutdowns. This includes minimizing downtime, the number of workers needed, the physical exertion of the workers, and the hazardous conditions of the workers. The Reel 'O' Dex is a revolutionary tool built to tackle the "hardest to clean" materials, even in the "hardest to reach" places.

The Reel 'O' Dex is a compact tube cleaning system based on "rotation control" instead of the normal rotary nozzle. Similar to a tube lancing machine, the purpose of the Reel 'O' Dex is to clean contaminated inside-surfaces of small range tubes and pipes. Built to specifically tackle confined and intricate spaces where rigid lancing is inept, the Reel 'O' Dex maximizes its potential in applications where controlled rotation is necessary.

Previously done by hand, workers had to manipulate high pressure hoses with spinning nozzles on the end into tubes caked with residue. Considering the aspects of safety and operator fatigue, the Reel 'O' Dex removes the hose from the operators hands, the operator from the proximity of the high pressure water, and minimizes error and potential injury to the operator. Furthermore, the indexer connects to the tube face, and directs the rotating hose into each tube. Specific to hard to reach areas, the indexer moves on an X/Y axis and has minimal set up time. In addition, the convenient size of the Reel 'O' Dex allows it to fit on a cat-walk and does not get in the way of shut-down protocol. Its shielding umbilical can be directed through small



Reel 'O' Dex Rotary Hose Reel

openings, such as manways, to safely deliver the nozzle to confined areas. With pneumatic or hydraulic control, constant feed-rate and rotation

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Doug Cowley

Veolia Environmental Services
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North East, MD 21901-0488
Phone: (410)287-7200
Fax: (410)287-7208
Email: doug.cowley@
veoliaes.com

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Guzzler Manufacturing
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Elgin, IL 60120
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Jetstream of Houston, LLP
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Houston, TX 77041
Phone: (832)590-1347
Fax: (832)590-1304
Email: bkrupowicz@
waterblast.com

James Lobusch

Jetstream of Houston, LLP
5905 Thomas Road
Houston, TX 77041
Phone: (713)462-7000
Email: jlobusch@
waterblast.com

Paul Mellen

GapVax, Inc.
197 Deer Chase
Dixon, IL 61021
Email: pmellen@gapvax.com

Steve Shafer

Guzzler Manufacturing
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Xstrata Zinc Brunswick Smelter
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Canada
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