



ITT

PUMPLINES

Innovation ... Technology ... Leadership

A newsletter for users of pumps, controls, monitoring and maintenance services

Volume 1 2009

ProSmart® Monitors Vibration in Steel Mill Process

In large industrial operations, where equipment life cycles and downtime significantly impact the bottom line, strategies for preventative maintenance for production equipment are becoming increasingly essential. For Worthington Steel, a large U.S. producer of flat rolled steel, the installation of a ProSmart® condition monitoring system from ITT has dramatically improved preventative maintenance in one crucial steel-making process.

Worthington Industries is a global company that processes steel for use in the automotive, construction, hardware, aerospace, and many



The installation of ITT's ProSmart monitoring system on important rotating equipment at Worthington Steel allows for remote monitoring and diagnosis, as well as active maintenance and life cycle management of machinery.

other industries. As America's largest independent processor of flat-rolled steel, the processes and the services Worthington offers serve as the bridge between the capabilities of major steel producers and the specialized needs of end users.

Vibration Problems on Pickling Line

In Worthington's flat-rolled steel plant in Porter, Indiana, the flat-rolled steel is run through a pickling system. Pickling is a metallurgical conditioning process used to remove the oxide scale that forms on the coil surface during steelmaking. The "pickle bath" that the steel coil runs through is a diluted solution of inorganic acid, usually hydrochloric. This oxide scale must be removed because it is an abrasive that decreases formability and the life of stamping dies in drawing applications and also prevents adherence of metallic coatings and paint to the steel surface.

According to Ken Patterson, a predictive maintenance engineer for the electrical contracting firm Koontz-Wagner, the pickling process at the Worthington Steel plant uses a

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Engineered for life



Feature

ProSmart® Monitors Vibration in Steel Mill Process **Continued...**

large, complex machine with large rollers to move the steel. This process has been difficult to monitor since direct observation of the machinery while operating is dangerous. With giant rollers providing tensioning for running the flat steel through the pickling chemicals, the inability to accurately monitor and diagnose vibration issues has resulted in the destruction of the roller bearings and housings on a fairly regular basis. According to Patterson, “the rollers on the pickling line at Worthington Steel were going through approximately two sets of bearings per year.” At a cost of approximately \$75,000 per bearing set, as well as the downtime costs for stopping the production line for repairs, the roller bearings in the pickling process required a robust monitoring solution.

With a background in predictive maintenance including vibration analysis, infrared and ultrasound testing, Patterson recommended that Worthington Steel install the ProSmart monitoring system from ITT to provide remote vibration monitoring on the roller bearings.

ProSmart Provides Continuous, Cost-Effective Monitoring

The ProSmart system from ITT provides continuous and cost effective predictive monitoring for all rotating equipment. With ProSmart, the focus of a Predictive Maintenance Program (PdM) can change from data collection to analysis and improvement activities. In

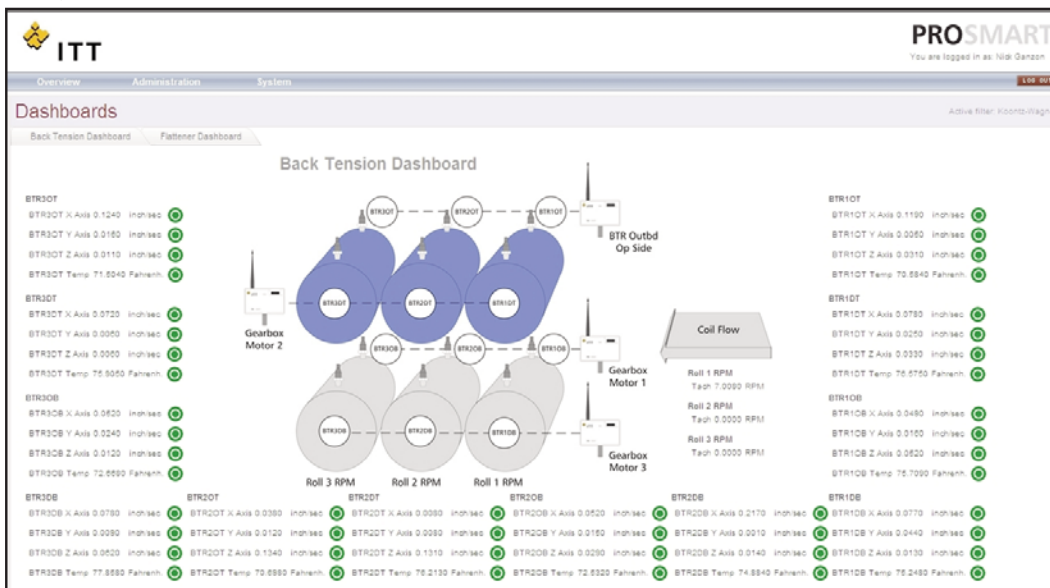
addition, by continuously monitoring rotating equipment, ProSmart can proactively warn of on-setting machinery problems.

The ProSmart system provides the following key values:

- Predictive: Historical trends, FFTs, and band alarms from ProSmart provide the tools for a predictive maintenance program.
- Cost effective: The ProSmart system cost is comparable to a walk around program and costs much less than traditional online condition monitoring systems.
- Automatic: ProSmart collects, sorts, and analyzes data at the machine without human intervention.
- Continuous: ProSmart monitors data continuously 24 hours a day, 365 days a year.

Ability to Diagnose Specific Vibrations

The installation of ProSmart on the pickling line was intended to measure the various possible causes of vibration that could result in equipment damage. Because there are many different causes of vibration, one important requirement for the installation of ProSmart was the ability to measure, diagnose, and differentiate normal operational vibration from damaging vibration. In one specific instance at Worthington Steel, at the end of each roll of steel there is something known as a “tail-out.” This tail-out event jolts the pickling machine rollers as each roll of steel ends.



Feature

ProSmart® Monitors Vibration in Steel Mill Process Continued...

The ProSmart system was programmed with a delayed alarm so that it would not alarm this one-time event, but continue to provide alarm notification for sustained vibration problems.

ProSmart also takes advantage of wireless technology to remotely send machine health data over the Internet. When machine vibration, temperature, or any other process parameter exceeds established limits, ProSmart provides notification within seconds by email or phone. As the gateway to the Internet, the ProSmart Communication Module provides a secure connection to the ProNet user interface via LAN, DSL, cell, or 802.11 wireless routers. This wireless architecture reduces installation cost and complexity.

Weekend Shutdown Creates Vibration Problem

Recently, Worthington Steel had shut down the pickling process over a weekend. When production started up again on Monday, Patterson recalled, "we began to get vibration alarms all over the place." Continuing, he said, "I got an alarm notification on both voice mail and e-mail that there was a very large radial vibration on the three top rolls. At the time, I didn't suspect that it was a bearing failure, as no bearing frequencies were present and all three top rolls were reacting in the same manner." Located about 90 miles away from Worthington's Porter, Indiana plant at the time of the alarm, Patterson went to the plant for further

investigation while the pickling process was reduced to half-speed to minimize vibration while finishing the steel run. After further analysis, it was discovered that the hydraulic units, which provide the pressure for the rolls on the steel, were left on through the weekend (instead of raised as in the standby position). This caused the rolls to be left down with pressure, causing flat spots on each of the three top rollers. As the rollers resumed production, the flat spots were creating damaging vibration on each rotation. Patterson noted that the ProSmart alarm probably saved the bearings on the rollers; "If the process had run at full speed for any length of time without any wireless notification that there was a vibration issue, the bearings would have been torn up."

For Worthington Steel, using ProSmart's advanced diagnostic tools to continuously monitor machine health (locally and/or remotely) and deliver key data directly and wirelessly, allowed them to avoid damage to key rotating equipment. The early warning enabled Worthington Steel to actively manage an equipment problem, thus avoiding the expense of damaged machinery and plant downtime.

For more information on ProSmart and other monitoring and control solutions from ITT: www.ittmc.com

ITT Goulds ANSI Pumps Most Preferred and Most Reliable

The latest independent research conducted by Grandview Media's *Processing* magazine over their circulation of process pump specifiers and buyers, revealed that Goulds ANSI pumps are "positively preferred / preferred" by 60% of their audience compared to the next closest competitor, Flowserve with 41% total. Goulds also scored highest in "very reliable / reliable" with 68% of the survey group compared to Flowserve's 48%.

This latest research confirms the Fall 2008 *Plant Engineering* magazine brand preference study results which has Goulds outscoring all ANSI competitors across a broad spectrum of industries. Goulds tallied 62%, a 3-to-1 advantage over the next closest competitor (Flowserve) with 21%. Other competitors' scores were in the 0-6% range.

Goulds...most reliable, most preferred.



Applications of Distinction

PumpSmart® Provides Dramatic Maintenance and Energy Savings from a Single Pump

At a pharmaceutical plant in Ireland, a life cycle cost assessment led to the installation of ITT's PumpSmart control system on a pump used in a water-cooling application. The results have been a drop in maintenance and downtime as well as dramatic savings in energy consumption of about 52,000 Euros per year.

Abbott Laboratories is a global health care and pharmaceutical company with large industrial plants around the world. The Abbott facility in Sligo, Ireland (one of six Abbott sites in Ireland), is a large plant employing over 500 people in the manufacture of diagnostics reagents and bulk reagent buffers used in the diagnosis and screening for numerous diseases and conditions. It was at this site that one particular pump was causing maintenance headaches for the plant operators.

Problem Pump in Pharmaceutical Plant

According to Eoin Field of ESI Technologies, an ITT Goulds distributor and a supplier of equipment and solutions to the pharmaceutical industry in Ireland and the UK, "the Sligo plant had a Goulds 132 kW Model IC pump running a cooling water application that was improperly sized." Located at the base of a cooling water tower, the pump was oversized for the application and ran at a high fixed speed. Due to high through-flow and low suction water level, the pump was drawing in air, causing damaging pump cavitation. Field noted that, "you only need to get 2 or 3 percent air into the mix to reduce pump performance by 50 percent." As a result, the seals and bearings on the pump were failing at a rate of 3 to 4 times a year, causing high maintenance costs and downtime on the production line.

In addition to selling pumps and systems for pharmaceutical manufacturers, ESI Technologies also provides preventative maintenance services for customers. The problem pump at Abbott Labs provided ESI with the opportunity to do a technical assessment to find the root cause of the pump's problems.



ESI team with pleased Abbott customer.

Field established that, "by analyzing and assessing the actual load of the pump, we realized that we only needed to run the pump at a speed of about 750 RPM, which was half the speed that was originally specified. An ITT PumpSmart control system was used to align the pump speed to actual the system requirements.

PumpSmart Intelligent Flow System Controls Pump Speed

PumpSmart is ITT's award winning intelligent flow system that works with any pump. PumpSmart uses a "smart" VFD controller and proprietary control software to provide advanced process control, enhanced reliability through failure prevention, reduced life cycle costs and significantly lower energy costs - up to 65%. The total cost of ownership of a pump is a very important consideration as 4% on average will be the purchase price and approximately 50-60% on average will be the operational cost over the life of the pump.

Unlike standard drives that must be designed for a wide array of equipment, PumpSmart was designed for pumps. As a result, the setup is very simple and intuitive. With Smart Flow™ - or sensorless flow measurement - PumpSmart is able to derive the specific speed of the pump which allows accurate calculation of pump flow rate by leveraging torque and speed.

PumpSmart knows exactly where a pump is operating on the performance curve and will protect it from dry running, low flow recirculation, and run out cavitation conditions - all of which are detrimental to pump performance.

With each pump application having unique challenges, the PumpSmart controller has artificial intelligence pump and process logic including 40 different pump process

Applications of Distinction

PumpSmart® Provides Dramatic Maintenance and Energy Savings Continued...

features that were designed and embedded into the control logic to address a wide array of pump specific problems.

Morgan O'Brien of ESI noted that, "once we had the pump curve and system details, we were able to retrofit the pump with PumpSmart to control both cavitation and system requirements through either flow or pressure from the sensorless flow meter built into PumpSmart." Continuing, O'Brien said, "we are also able to compare the flow economies of the duty and standby pumps to predict pump wear, which enables improved scheduling of maintenance and shutdowns."

Dramatic Energy Savings Realized

While using PumpSmart to reduce the pump's speed would take care of the maintenance problems caused by cavitation, there were also tremendous energy benefits to be realized from installing PumpSmart, which allowed the pump to run at half the originally specified speed. As a result, rather than the pump running against a throttled valve using approximately 110kW, the pump now required only 33kW using PumpSmart.

Because this cooling pump runs 24/7/365 hours a day, the energy savings were dramatic - approximately 52,000 Euro per year (at a cost of about \$.10 Euro per kilowatt hour). The reduction in energy usage also gives the plant a lower carbon footprint.

Within any industrial plant, pumps are the heart of most processes, and it is estimated that 35% of the world's electrical consumption can be traced to pumping systems. Plant assessments can uncover tremendous opportunities to dramatically reduce operational costs through the use of intelligent flow systems. "I am finding oversized pumps in almost every plant I visit in Ireland," says Smith. When asked why there are so many oversized pumps in operation, Smith replied, "Mainly, I suppose the specifying engineers will oversize a pump as - to "cover their back-side." They don't want to be the person or company that specified a pump that won't meet the specified rating point. Engineers almost always select pumps for the worst-case scenario, add multiple safety margins, and then run them at a fixed speed."

The PumpSmart installed on the Goulds brand IC pump at Abbott Labs was the first installed by ESI Technologies. In over a year of operation, maintenance costs have been virtually eliminated for this important pump. There have been no seal or bearing failures and no service calls. Most important, according to Field, there haven't been any issues regarding cooling temperatures in the process. Field goes on to note, "there is a lot of potential for PumpSmart. At every site, you will always find a pump that is a bad actor/troublemaker or an energy guzzler. Since installing PumpSmart at the Abbott Labs, we have installed about 30 additional PumpSmart systems in other industrial plants in Ireland."

For more information on PumpSmart and other monitoring and control solutions from ITT: www.ittmc.com



ESI team installing ITT PumpSmart system.

Application of Distinction

ITT C'treat Supplies Water for World's Deepest Platform



C'treat water systems aboard Shell's deep water platform.

Aboard this massive platform sits a state-of-the-art water treatment system from ITT C'treat. Shell refers to the treatment system as one that "exceeds standards" in their challenge to take offshore health and safety to a new level. The C'treat Model FD 301-4-1 systems have a total treatment capacity of 45 cubic meters per day.

Shell's (with co-owners BP and Chevron) Perdido Regional Development floating oil platform took three days to make its 160-mile journey from

Ingleside, Texas to the Aliminos Canyon Block 857 in the great depths of the Gulf of Mexico. Now that it is vertical and moored to the sea floor 8,000 feet down, this platform will be the world's deepest oil and gas production facility. The first production is expected in 2010.

Shriniwas Dighe Receives Presidential Award

Safeguards Co-workers During Mumbai Terror Attack

Mumbai, the financial capital of India, has unfortunately experienced many terrorist attacks.

On November 26, 2008, terrorists targeted Mumbai's elite destinations like the Taj Heritage Hotel and the Trident / Hilton Hotel. Their motive was to create fear in the foreign business community hoping to affect the special trade relationship that India enjoys with the world. The terrorists also attacked public places and ruthlessly killed innocent people on the street and at the railway station.

That same day, Ms. Iris Wang and Ms. Seok Gek, our Singapore colleagues, were in Mumbai for ePrism training with the newly formed India

Application Engineering team.

Realizing the serious situation, Shriniwas and his colleague, Amit, courageously maneuvered the streets of Mumbai to evacuate and ensure the safety of their visitors.

We congratulate Shriniwas and his team for their quick responsiveness to protect themselves and the entire ITT team. Well done!



Tech Talk

Laser Scanning Improves Quality at ITT

Robert Kilmer, Product Engineer

In the last "Tech Talk," we learned how laser scanning can create a virtual computer record of any object in 3 dimensional space. The challenge for many businesses, including ITT, is how to best leverage this technology to create value for the organization and its customers.

Many companies that have adopted scanning use it in conjunction with their CAD based engineering systems. This use is a natural progression because of the similarity between the technologies since they both reside in virtual 3D space. Typical applications that are published in the popular press as "success stories" can be divided into 3 general categories:

- *Reverse Engineering:* a CAD model is needed, but no drawings or records exist. For example, the US Bobsled team used scanning to create a CAD model of a driver to run computer-based wind drag simulations
- *Reverse Modeling:* a second cousin to Reverse Engineering, Reverse Modeling allows a CAD model to be checked against an actual part to ensure modeling accuracy
- *Computer Verification:* any part can be compared against its CAD model to ensure compliance with the specifications

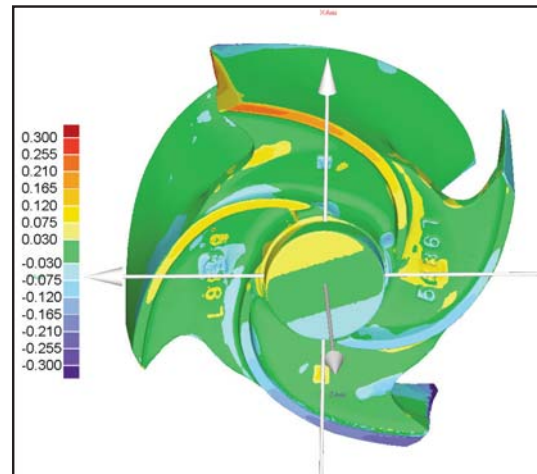
ITT Goulds Pumps, however, is using laser scanning in other, unique ways to improve processes and products that are divorced entirely from CAD based engineering systems. Unlike the typical applications, these methods rely on the analysis of scan data files only. In the following example, although very simple, we will see how and why ITT also uses "CAD-less" analysis to improve processes and product.

Improving Foundry Processes

A corebox that creates a sand core used in the casting of a small pump impeller was procured from an external pattern shop to replace old tooling. As part of the production qualification process, it was discovered that the sand core could not be removed from the corebox, rendering the tool useless. Due to the small size of the corebox, traditional measurement techniques could not confirm reverse draft as the culprit. The part was sent to the Quality Assurance department for scanning and analysis,

but there was no CAD model of the part. In addition, laser scanning was so new to the organization, a method to analyze the data without a CAD model did not yet exist. A new measurement method literally had to be invented. Through a lot of trial (and mostly error) a simple technique was developed based on the basic concept that the core-making process could be simulated virtually.

To simulate the process, two identical scans of the corebox were imported into powerful computer software; one scan represented the corebox and the other represented the sand core itself. The scans were moved apart to represent the sand core leaving the corebox. The dimensional difference between the two scans is computed and illustrated as a 3D color map. The reverse draft is illustrated as a negative difference (blue).



This example was a great learning experience because it illustrates the ability to see into complex processes and measure complex attributes of real parts rather than relying on idealized CAD parts. The process of utilizing only scanned data has developed and expanded over the past several years to explore even more complex and varied process improvement opportunities.

Improved Impeller Balance Analysis

A recent project with the objective to improve impeller balance resulted in the development of a simple, yet powerful method that reveals the features that contribute to impeller unbalance.

Tech Talk

Laser Scanning Improves Quality at ITT Continued...

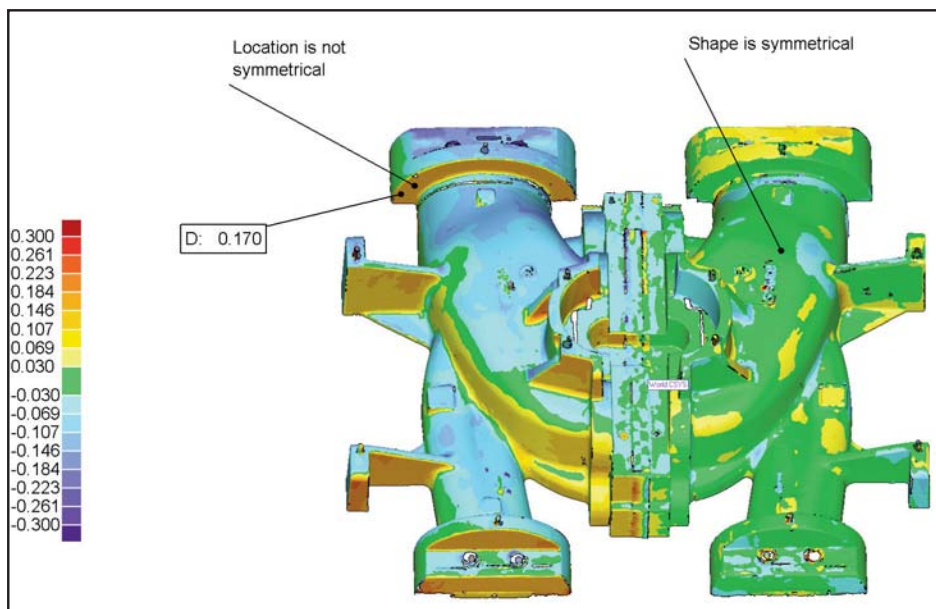
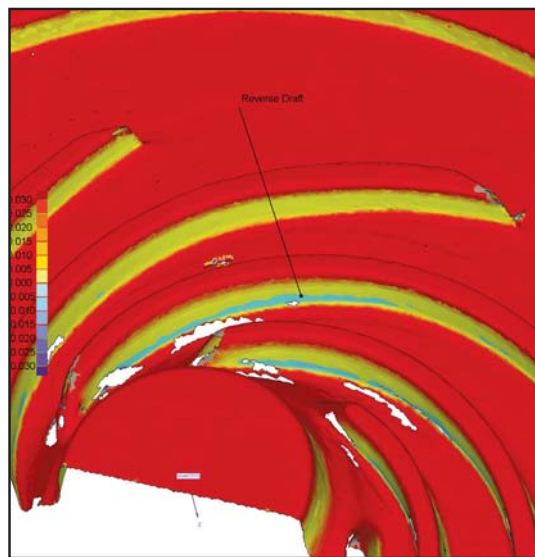
Robert Kilmer, Product Engineer

The basic concept behind the method relies on the simple idea that a balanced impeller should have the same shape and form from one side to the other. By making comparisons across the entire part, it is easily seen if the unbalance is due to variations in the casting itself, or due to machining issues. This ability to differentiate between these two attributes was not possible before scanning technology. The general method was also extended to directly compare castings to their casting patterns which highlighted various opportunities to improve the casting process and further reduce impeller unbalance.

Comparing Symmetry of Parts

The ability of scanning to easily test for symmetry of very complex parts that are typical of pump parts was also used in a recent project to improve the quality of double suction casings, but in a different way. A suspect casting pattern was scanned and tested for symmetry. The scan data was “mirrored” electronically, and then tested for symmetry by comparing the “left hand” side of the pattern to its “right hand” side. The resulting analysis showed in one revealing image that each side of the pattern was very close in shape to the opposite side, but the location of the respective parts was not correct.

These are but a few examples showing how ITT leverages 3D laser scanning technology on a regular basis to continuously improve quality by visualizing variation of complex products and processes.



Personnel Moves

North American Region

Eddie Choung has been appointed Aftermarket Sales Manager for the North America region. Eddie received his Bachelor of Science degree in Manufacturing from Texas State University. Eddie brings 14 years of experience in engineering, repair, modification, sales, and management. He has been with ITT Goulds Pumps since 2006.



Eddie Choung

Stan Knecht has accepted the position of Mid-Range Business Unit Manager at our plant in Seneca Falls, New York. He will facilitate the integration of our Ashland Operation's pump packaging and order entry processes to Seneca Falls. Stan has an impressive background, starting at ITT as a manufacturing engineer and progressing through management ranks and gaining more and more responsibility. Most recently, Stan was Director of Product Marketing.



Stan Knecht

Larry Petraccaro has been appointed Global Product Manager for non-API multi-stage pumps. Larry earned a Bachelor of Science degree in Aeronautical Engineering from Rensselaer Polytechnic Institute. Prior to joining ITT, Larry has worked at Flowserve, Ambitech Engineering and Foster Wheeler, BOC (now Linde) and Coffin World Water Systems (part of Coffin Turbo Pump). Through his previous positions in sales, applications, product marketing, and aftermarket, Larry brings over 25 years of pump experience.



Larry Petraccaro

Jeff Phillips has rejoined ITT as National Sales Manager for Engineered Valves in the United States and Puerto Rico. For the previous 7 years, Jeff was with Tyco Valves and Controls as the Director of Sales- Knife Gate Valves. Jeff previously held the position of Product Manager, Knife Gate Valves and Sales Representative for almost 12 years.

Ken Morvant is assuming the role of Sales Manager North America for ITT Plant Performance Services (PPS). Ken has over 30 years of pump system sales experience starting with Goulds in 1978. Ken has exemplified "solution selling," earning Salesman of the Year in 1992 and the Golden Eagle award in 1995. Ken is a graduate of Southeastern Louisiana University. He will continue to reside in Mobile, Alabama.



Andries Bam

EMEA Region

Andries Bam has joined the ITT Saudi team in Saudi Arabia as Operations Service Manager. Andries will support our Saudi Operations team in many ways, including supervising the workshop activities related to building and testing new pump sets to customer specifications. Originally from South Africa, Andries studied at the Technical College in Pretoria and Bloemfontein Mechanical University. He brings 9 years of industrial experience, and for the last 5 of those years, has acted as an Operations Manager with Becker Alert Pumpmor, a small licensee of Goulds Pumps slurry pumps in South Africa.

Riham Rizkalla has accepted a promotion to the expanded role of HR Specialist in addition to being the Market Coordinator in the Europe, Middle East & Africa region. Riham will assist in various Human Resource areas, including developing job descriptions, position benchmarking and compensation packages. Riham earned a Bachelor of Science degree in Language. She just recently passed her HR certification with Highest Honors and first in her class from the University of Cairo.



Riham Rizkalla

Asia Pacific
OSEA Show 2008

ITT displayed products at the 17th International Oil & Gas Industry Exhibition and Conference (OSEA) in Singapore. The OSEA has established itself as the premier Oil & Gas exploration and production event in Asia. Those attending the conference saw products from such ITT brands as Goulds Pumps, Engineered Valves, C'treat, Flygt, and Fiberbond®.



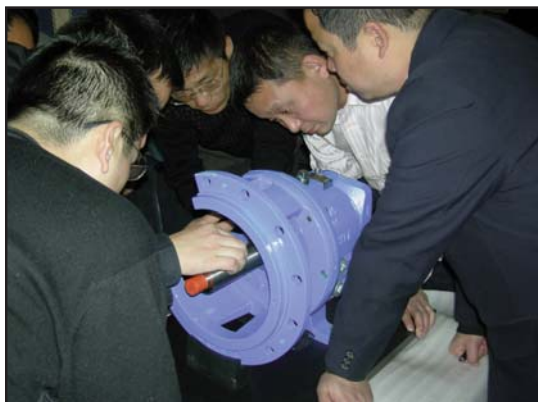
ITT's Exhibit at OSEA.



Members of the ITT team speak with potential customers.

China Training

The China joint sales meeting, opened by the ITT China/India President, Mike Kuchenbrod, was held in Shanghai during the week of January 5. The theme of the meeting was "Focus & Action." This theme emphasized the need for the China sales-force to focus on the customer's needs and to act on these needs with solutions that ITT can provide. Specific topics covered included Customer Service, Motion & Control, "Customer is always right," "Learning and Growing" and other customer-centered topics. The product presentations included Ed Kupp's presentation on the IC and ICM product lines, and Pat Prayne's presentation on the new *i-FRAME*. Both product lines have great opportunities in the China market through local sourcing and product differentiation. To provide additional and more in-depth training, both product managers held a half day seminar at the Shanghai Sales office. This training was attended by sales people from China and provided more detailed features and benefits for the ANSI and ISO product lines.



The IP China Sales people at the training.



Product Manager, Pat Prayne, and some of the China Sales force.

Europe, Middle East, Africa Sales Strategies Meeting for EMEA by Riham Rizkalla

The Europe, Middle East & Africa (EMEA) winter distributor meeting included close to 60 people from Sales from almost 30 different nations. Many new employees and new distributors have recently joined ITT, so it was essential that the entire team meet to connect ideas and create spirit among members. The theme of the meeting was "Projects, Parts, Responsiveness." The main purpose for the meeting was to:

- Share ITT Industrial Process group's progress and EMEA's significant market gains
- Exchange views and ideas on looming economic threat and best way to deal with future economic conditions
- Share 2009 Strategic plans, vision & values and achieve a better understanding of mutual needs and define common future plans

During the meeting, our team of Industrial Process Global Project Managers (GPMs) met in Budapest, Hungary with their Leader, Chad Tuttle, and Supervisor, James Estes. They reviewed updates on their large projects and the GPM processes and procedures, utilizing Value Based Lean Six Sigma to streamline and improve effectiveness. Participating in the EMEA region



IP's Global Project Management Team. From L-R: Chad Tuttle (Seneca Falls, USA); Hamdy Salem (Cairo, Egypt); James Estes (Houston, USA); Max Caraffa (Milan, Italy); Sean Horan (Houston, USA); Denis Kwok (Singapore).

distributor meeting allowed the team to network, collect voice of customer data from the team, and promote GPM processes, tools, and objectives.

Both meetings proved to be very successful from all perspectives.



The EMEA Sales and Distributors in Budapest, Hungary.

Recognition

Geiger Pumps Presents Vendor Service Excellence Award to Kelly Gurene

Geiger Pumps presented Kelly Gurene, of ITT Goulds Pumps, with their Vendor Service Excellence Award. Kelly was recognized at the seventh Mid-Atlantic Pump & Process Equipment Symposium held in Aston, Pennsylvania at Smith-Koch, a Geiger Company. Given to only one individual or team per year, Kelly was chosen by Smith-Koch employees, standing out from the rest of the vendors, to receive this notable award. Developing a reputation for the fastest response in the business, those at Smith-Koch stated that there was "...no one more fitting to receive this award." Congratulations, Kelly!



ITT Makes Forbes Best Managed List

In December, Forbes.com released its 2008 list of the best big and best managed companies in America. ITT created quite a presence on these lists, placing 9th on the "400 Best Big Companies in America" and being named in "America's Best Managed Companies." In addition to the latter, ITT was awarded the top spot in the conglomerates category.

Steve Loranger, chairman, president and CEO of ITT, considers receiving this designation as "quite an honor." He goes on to say, "This recognition is a testament to the depth and immense capability



of ITT's global leadership team responsible for sustaining our strong performance and positioning the company for long-term success."

The 400 Best Big Companies are chosen based on the following criteria: sales, earnings growth, debt to total capital, earnings outlook, and stock market returns. Forbes.com then chooses the best managed company in each industry category, using this and other criteria.

ITT Community Commitment

ARC Gift Wrapping Booth

During the 2008 holiday season, ITT Goulds Pumps generously sponsored the Ontario ARC's (of Ontario County, NY) gift wrapping booth at a local mall. Every year, the ARC gives opportunities to more than 400 local people with developmental disabilities. With this donation from ITT, the organization was able to raise \$12,500 for their Recreation Program!



Send your *PumpLines* comments or suggestions to:

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or email john.beca@itt.com

View the latest in equipment monitoring, maintenance services, fluid control and pumping at www.ittindustrialproducts.com

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