Perryman Company Announces Acquisition of Accellent, Inc. Pittsburgh Operations

Houston, PA, 05/4/12 – Perryman Company announced today it has completed the purchase of the Pittsburgh operations of Accellent, Inc. a wholly owned subsidiary of Accellent Holdings Corp. Located in Houston, PA, the Accellent Pittsburgh facility is a high quality forging supplier to the medical device industry.

“This acquisition is consistent with Perryman’s strategy to leverage our full integration position and continue to deliver value for our medical customers”, commented Frank Perryman, President and CEO. “With this investment, Perryman adds forging

Continued on Page 8

Haynes International, Inc. Announces Capital Investment Programs Totaling $61 Million To Expand Capacity At Its Arcadia, Louisiana And Kokomo, Indiana Facilities

Kokomo, IN, 06/25/12 – Haynes International, Inc. (NASDAQGM: HAYN), a leading developer, manufacturer and marketer of technologically advanced high-performance alloys (the “Company”), announced today that its Board of Directors has approved a new $61 million capital expenditure growth plan to expand capacity for the Company’s tubular products and flat products in response to anticipated customer demand in the growing aerospace, land-based gas turbine and chemical processing industries.

Continued on Page 6

Goodrich Corporation to Use ATI’s Thin Titanium Product for Aerospace Application

Pittsburgh, PA – (BUSINESS WIRE) -- Allegheny Technologies Incorporated (NYSE: ATI) announced that its thin titanium Precision Rolled Strip® product was selected by the Sensors and Integrated Systems Division of the Goodrich Corporation (NYSE: GR) for use in heated floor panels for commercial aircraft. ATI’s product is Grade 2 titanium rolled to 0.012 inches (0.305 mm) thin by 42 inches (1067 mm) wide. Goodrich uses this thin and wide titanium product to manufacture light weight and highly durable heated floor panels installed at the entrance of most commercial airplanes.

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HAYNES INTERNATIONAL, INC.


What’s New in Titanium?

Bruker Introduces the S1 TITAN™, an Advanced Handheld XRF Analyzer for Metals Alloy Verification, Recycling and Scrap Sorting

Bruker announces the introduction of the new S1 TITAN handheld XRF analyzer. The S1 TITAN is among the lightest (1.44 kg including battery) tube-based handheld XRF analyzers on the market today. The innovative S1 TITAN features an integrated touch-screen color display, an up to 50 kV X-ray tube, Bruker’s proprietary, high-speed XFlash® SDD detector with high energy resolution and light-element capabilities, and an ergonomic, yet tough housing that is sealed against humid and dusty environments.

The S1 TITAN is available in three models:

The S1 TITANLE, S1 TITANSE and S1 TITANSP. The S1 TITANLE uses a thin film window for analysis of up to 37 elements, including light elements such as Mg, Al and Si, without the need for a vacuum or helium gas flush. The S1 TITANSE is perfect for analyzing standard alloys, as well as high temperature samples up to 500°C. The S1 TITANSP is a value analyzer with a traditional SiPIN detector. With its aluminized Kapton® window, the S1 TITANSP is able to measure in-process samples at temperatures up to 500°C.

The S1 TITAN’s patent pending SharpBeam® technology optimizes the detector and tube geometry. The optimized geometry has many user benefits, including improved measurement precision, reduced power requirements and increased battery life.

The new S1 TITAN covers a wide range of applications and materials. Whether it’s in aerospace or automotive applications, in metals processing or fabrication, in electronics manufacturing, in a refinery, in a power plant, in mining, in recycling and scrap sorting, in consumer products testing or in field environmental analysis, or in the testing laboratory— the S1 TITAN will quickly and accurately identify the elemental composition or identify the alloys of your sample or parts to be tested. The S1 TITAN is capable of analyzing a vast list of materials, including industrial metals, exotic aerospace alloys, e-scrap, drill core, soil, consumer goods, and more.

John Landefeld, Executive Vice President of the Bruker Elemental Division, commented: “We always have our customers in mind, so we completely redesigned the instrument, in order to remove almost one third of the weight. The result is one of the lightest tube-based handheld XRF analyzers on the market today. In addition, our patent pending SharpBeam® technology provides an optimized measurement geometry, which helps to reduce weight and power consumption. In terms of analytical performance and proprietary algorithms, the S1 TITAN has made even further progress for many important metals, mining and recycling applications and calibrations, and today represents the best available system for fast, easy-to-use, accurate, reliable and automated elemental analysis and positive material identification.”

The new S1 TITAN is Bruker’s new high-end handheld XRF on the market, and it complements Bruker’s line of other handheld XRF analyzers, the S1 TURBO and S1 SORTER. Please visit our website or contact us for additional information on the new S1 TITAN at: www.bruker.com/s1titan

TIFAST invests in a Titanium VAR furnace

6/11/12 - Tifast, the new European producer of titanium bars, wires and ingots, invests in an 8 tons VAR melting furnace, some bars finishing lines, a SAP informative system and NADCAP certification.

The combination of 3 titanium melting furnaces, a SIEMENS rolling mill, and certifications EN 9100, TUV ADWO... will allow Tifast to be the right partner for your titanium needs in aerospace, medical and industrial. For more information contact: Invernizzi@tifast.com Tel.: +39 0744 736 307, www.tifast.com
6/6/12 – The TLI Group Ltd. is pleased to announce the development of a new Automated Fire Extinguishing System (AES) for industries that require the ability to rapidly and safely extinguish dust, fines and powder fires. It can be adapted to prevent dust explosions and fires found in dust collectors, duct work, cobblers, work areas and confined areas that can produce fires and explosions. The system was designed to complement the only U.S. Government approved metal fire extinguishing liquid agent FEM-12 SC. This liquid agent has been successfully tested on magnesium, aluminum, titanium, and zirconium fires. The agent can also be used to extinguish wood, plastic, and coal dust fires. The environmentally safe FEM-12 SC can be readily cleaned up after use with soap and water.

The AES system is designed to be automatically activated by the use of infrared or temperature control devices depending on the need of the customer. A manual backup system is built into every Automated Fire Extinguishing System. Battery pack backup is combined with every unit. The AES increases safety for equipment, plant and personnel.

The AES is now available in the United States, and will be available in China and Canada by the end of 2012.

For addition information call the TLI Group Ltd at 508 866 9825, or write the company at: 35 Kennedy Drive, P.O. Box 774, Carver, Massachusetts, 02330, U.S.A.

Please enjoy your visit to our website at WWW.TLIGROUP.COM. If we can be of any further assistance, please do not hesitate to contact us.

Holyoke, MA - 6/6/12 – With over 30 years of experience and countless installations worldwide, Ruwac USA continues to be the leading manufacturer of immersion separators with its NA35 Series. Available in electric and air-powered models, these specialized separators are the only immersion separators available on the market with a complete built-in vacuum system. Work environments using explosive, impact sensitive or glowing materials that may contain an ignition source such as aluminum, titanium, magnesium, zirconium, TNT and other volatile dusts will not only benefit from eliminating the risk of an explosion, but keeping workspaces clean in the process.

Relying on decades of proven performance technology, the NA35 Immersion Separator collects explosive or glowing media particles entering the vacuum and immediately mixes them in a turbulent liquid bath. From there, moving air and liquid are rapidly forced onto the materials, submerging and neutralizing them in the process in the vacuum’s hydrophobic water filter system. This process stops already contained materials from finding any ignition source that may be introduced into the vacuum, guaranteeing a safe, explosion-proof work environment.

The NA35 Series is available with a single or three phase electric motor or single air-powered venturi. It also includes an array of features such as a static conductive hose that easily disconnects to remove sludge and debris build up from inside the vacuum – eliminating any heavy lifting required to empty the vacuum. The hose also doubles as a second source for water level detection, on top of the vacuum’s external sight glass to monitor debris and fluid levels.

Ruwac USA is a leading manufacturer of portable, central and specialty industrial vacuum systems. Made in the USA, Ruwac’s industrial vacuums are known for their reliability, innovative design and superb filtration. For more information on Ruwac’s product lines, visit WorkDustFree.com or call us at (704) 752-7944, e-mail sales@lattaequipment.com
What’s New in Titanium?

### Facilitating access to special metals

MetSuisse Distribution AG, established in January 2011, is a specialized stockholder serving markets worldwide with Ti6Al4V ELI, CP grade 1, 2 and 4, low and high-C CoCrMo, medical steel and zirconium. MetSuisse was the first ISO 13485 and ISO 9001 certified titanium stockist in Switzerland. Furthermore, through strong ties to the Japanese titanium and special steel market MetSuisse is able to source special metals not easily available. Customers can give MetSuisse orders to check the Japanese market for specific metals. For example, MetSuisse supplies Japanese titanium powder for MIM-applications.

MetSuisse increased its share capital to CHF 800’000 (about USD 900’000) this May. HWN titan GmbH – a major stockholder of titanium and zirconium – holds 49% of the capital. Sven Dietrich of HWN titan GmbH joined the board of MetSuisse. Martin Roellin – Managing Director of MetSuisse – commented on this move: “HWN and MetSuisse have been close affiliates for many years. We speak the same language and are dedicated to the needs of our customers. Therefore, it was a logical step to get HWN on board. Together, we will be able to provide even better market expansion services to our stakeholders.”

HWN titan GmbH in Germany, a privately owned company, has been working successfully for more than 14 years in the refractory metal business. With its qualitative and individual consulting competence as well as an extensive portfolio of finished and semi-finished products in titanium and other refractory metals HWN has the ability to develop successful concepts with the customer. “After founding HWN-CNC GmbH in 2010 and the approval of both companies according to ISO 9001/EN 9120 the participation in MetSuisse was a further consequent step to multiplex synergies by improving the network of competence to create surplus values.”, explained Hans Bernd Wehren of HWN.

### Medart Announces First Modern Bar Peeler & Straightener Delivered to India

6/8/12 - Medart is proud to announce that the first modern Medart bar peeler and straightener line has been delivered to Bangalore India for commissioning June 16th, 2012. Medart also has two line of order for delivery to India in 2013 that include:

- Rough straightening, peeling and burnishing bars between 6-25mm
- Bar Peeling bars between 38-200mm
- Burnishing of bars between 38-150mm

Other new orders received include a bar peeler retro-fit for Mexico for bars between 22-75mm

- Coil to bar line for the oil industry for coils from 31-40mm
- Two (2) coil to coil peeling lines for small diameter wire.

For more information visit the website at www.straight-to-medart.com.

### The Best Water-cooled Valves & Baffles

GNB has 44 years of experience producing high temperature gate valves and is offering superior valves with fewer moving parts and easy maintenance. Whether a melt valve, feeder valve, or an E-beam gun isolation valve is what you need, GNB has an option that will increase through-put and reduce down time.

The Multi-coolant Baffles that GNB makes for the Titanium industry are optically dense and protect processes from diffusion pump oil backstreaming. In the high vacuum sections of titanium melting, baffles are used to shield electron beam guns from both, oil backstreaming and contamination. GNB’s baffles stop 99% of oil backstreaming with its five bounce design; also, these baffles are on SALE for only 50% of their price until July 31st!
What's New in Titanium?

- TITAL manufactures Stiffening Elements for Airbus A350XWB
- Titanium Investment Casting Process leads to Considerable Cost Savings
- Long-term Purchase Order until 2020

Bestwig - 4/19/12 - Since the summer of 2011 the titanium and aluminum investment casting specialist TITAL has supplied titanium components for the Keel Beam for the Airbus A350XWB. The Keel Beam is a large structural component located on the bottom side of the aircraft fuselage directly behind the landing gear compartment. This area of the aircraft has a particularly sturdy design and has to bear massive mechanical stress. The stiffening elements made from titanium castings were among the first titanium parts that TITAL has produced for Airbus' new long-haul aircraft. The first delivery of the A350XWB is projected for 2013. Thomas Stephan, Airbus Key- Account Manager at TITAL is happy about this important purchase order from Airbus: “This purchase order has a huge potential as it demonstrates the advantages of investment castings and Airbus has awarded long-term agreements for the A350XWB.” The German company located in Bestwig is going to supply Airbus with about 2,400 titanium parts of this kind by the year 2020 – ready for assembly and partially painted.

TITAL manufactures the stiffening elements using the investment casting process. Normally, these parts with a relatively simple geometry would be produced by machining solid titanium material. After all, the stiffening elements for the Airbus are 600mm long and about 150mm high, looking like a one-sided ribbed sheet. The extremely low thickness of 2mm was a decisive factor to choose investment castings. “If you wanted to produce this part using machining processes, this would be a very demanding and comprehensive undertaking”, Thomas Stephan explains. Another disadvantage of machining would be the high scrap rate. Machining the part from solid material would result in approximately 95% of material waste in the form of titanium chips. This would also affect the part cost as the titanium chips can only be scrapped. As a consequence TITAL has achieved considerable cost savings through the use of the titanium investment casting process – a really cost-efficient production process for the stiffening elements.

About TITAL GmbH: TITAL supplies industry leading compa-
What's New in Titanium?

Perryman Announces Accellent Acquisition
Continued From Page 1

and finished part machining capabilities, as well as a strong and experienced technical team. Perryman plans to expand all of the operations and product families currently serviced by the facility. This is a market we are quite familiar with and adding these capabilities helps diversify our portfolio and enables us to deliver a complete package from titanium melting to finished part manufacturing”, stated Perryman.

The Pittsburgh facility occupies over 50,000 square feet of manufacturing space and is ISO 13485:2003 approved. In addition to titanium, the facility also provides an array of forgings in cobalt chrome and stainless materials. The site is well known as an expert in the machining of plastics with strong capabilities in metals as well. Cleaning and packaging services help complete the facility’s offering.

Donald Spence, President and CEO of Accellent, stated, "This sale allows Accellent to better focus on its core medical device markets and provides a great future for our employees in Pittsburgh. Perryman is an international company with existing relationships with many of the Facility’s customers."

Haynes International Expands
Continued From Page 1

The Company plans to invest approximately $37 million to expand by an estimated 60% the specialty titanium and high-performance nickel alloy tubular production capacity of its Arcadia, Louisiana facility. In addition, the Company plans to invest approximately $24 million to expand by an estimated 20% its capacity to produce specialty high-performance alloy flat products at the Company’s Kokomo, Indiana facility. The Company has commenced initial planning and design and expects to complete both projects within the next two years, with benefits from the tubular project expected to emerge in twelve to fifteen months and benefits from the Kokomo project expected to emerge in nine to twelve months.

“The capital investments in Arcadia and Kokomo should improve our ability to service our customers’ increasing demand for specialty products and also continue to improve product quality and operating efficiencies,” said Mark Comerford, President and Chief Executive Officer. “The Company expects to finance these projects and the projects described in the Company’s most recent Form 10-K with cash from operations and from cash on the Company’s balance sheet. The actions we have taken in the previous five years have contributed to the Company’s improved capital structure and liquidity position and make it possible for the Company to continue to grow and add capacity to meet expected market demand without adding debt or issuing equity. Finally, Haynes is also very appreciative of the support of the local communities and government agencies in Louisiana and Indiana who have committed to provide certain tax credits and incentives to assist the Company’s expansion.”

About Perryman:
Perryman Company, founded in 1988, is headquartered in Houston, Pennsylvania. Company offices are located in Philadelphia, Los Angeles, London, Zurich, Tokyo and Xi’an. Perryman is an integrated titanium producer from melting of ingot to finished products. The company’s product portfolio includes ingot, bar, coil, fine wire, net shapes, and hot rolled products. A titanium global leader, Perryman supplies and services customers in the aerospace, medical, consumer, industrial and recreation markets worldwide. For more information, please visit www.perrymanco.com

About Accellent:
Accellent provides fully integrated outsourced manufacturing and engineering services to the medical device industry primarily in the cardiology, endoscopy and orthopaedic markets. Accellent has broad capabilities in precision component fabrication, finished device assembly, complete supply chain management capabilities and engineering services. These capabilities enhance customers’ speed to market and return on investment by enabling them to refocus internal resources more efficiently. For more information, please visit www.accellent.com

About Haynes International: Haynes International, Inc. is a leading developer, manufacturer and marketer of technologically advanced, nickel- and cobalt-based high-performance alloys, primarily for use in the aerospace, chemical processing and land-based gas turbine industries.
What’s New in Titanium?

“We are pleased to provide this unique titanium product to Goodrich”, said Rich Harshman, Chairman, President and Chief Executive Officer of Allegheny Technologies. “This thin and wide titanium product is another capability differentiator resulting from ATI’s integrated supply chain. From raw materials (titanium sponge) through melting, hot rolling, and finishing in very thin gauges at wide widths, we offer a seamless, real supply chain capable of meeting our customers’ timing, quality, and service expectations.

ATI produces titanium foils as thin as 0.0005 inch (0.0127 mm), which is about half the thickness of standard aluminum foil found in the home, requiring unsurpassed manufacturing capabilities, including exceptional gauge control, flatness, and surface quality. Goodrich recognizes and values these attributes in the ATI product and further benefits from ATI’s reliable supply chain.”

Baoji Ronghao Ti Co., Ltd. is not just a well-known, high-tech and specialized material manufacturer/seller of Titanium and other Nonferrous metals, but an advocate for environmental protection. Since the commencement in 2006, the founder and urger of Heat source Titanium composite profiles, Baoji Ronghao Ti Co., Ltd unremittingly, commits to reduce the ruining of the environment caused by industrial processes of Titanium materials.

We have possessed rich experiences in production of Titanium and its alloys as well as core technology and independent intellectual property rights in applications of Titanium materials for transport vehicles. We successfully produce Plate, 6Al-4V Sheet, 6Al-4V Eli Sheet, 6Al-4V Eli Ring, Welded/Seamless 6Al-4V Eli Pipe/Tube & 6Al-4V Eli Slab. Metal grain can be well controlled by us during processing to meet the technical requirements of microstructural standards in AMS 4928, ASTM F 136 & ASTM F 67, etc.


Our product applications can be found in the Automotive, Bicycle, Chemical industry, Environment protection, Electronic, Machinery, Medical equipment, Marine, Aerospace, Aircraft, Low-temperature vessel and various scientific research areas.

We serve not just by adhering our principles of “Seek Atman & Create Your Value” incessantly, but also commit ourselves at environmental protection to help create a more comfortable, clean and healthy environment for living. We are willing to build a mutual benefit, win-win cooperation, long term growth future along with you and clients all over the world. For more information please visit our website at http://www.rhti.cn.
What's New in Titanium?

T.I. launches refreshed brand & appoints Market Directors
Continued From Page 1

T.I. is the global leader in performance metal solutions for the aerospace, medical, industrial and oil & gas markets. Holding the world’s most complete inventory of performance metals across a global service center network, T.I. delivers supply chain solutions at all levels of sophistication and complexity. With a globally experienced and technically driven team, T.I. has been providing dependable, quality driven solutions to customers for over 40 years. For more information contact: Jeff Wise, VP, Sales & Marketing, T.I., p: 201-572-3789, e: jwise@titanium.com.

T.I. Aerospace
T.I. Aerospace supplies performance metals for commercial airframes and engines, military airframes and engines, rotary wing and space applications. Recently, T.I. received the Silver Boeing Performance Excellence Award for the 2nd year running. “This achievement demonstrated our commitment to delivering the highest quality and service to our customers. As a team we have the objective to earn recognition from the industry’s leading airframe and engine OEM’s and we are proud of our people and their efforts in earning this Boeing award”, said Greg Himstead, Market Director, T.I. Aerospace.

T.I. Medical
T.I. Medical provides performance metals for critical applications in the medical market. Recently, T.I. expanded their performance metals stock to include 455 Round Bar. “The Alloy 455 material is a natural addition to our Medical product line offering which currently includes CP Titanium, 6AL4V Titanium, 6AL4V ELI Titanium, and Co-Cr-Mo. We expect to expand the size range of the 455 as the program moves forward”, said Mary Moynihan-Downes, Market Director, T.I. Medical.

T.I. Industrial
T.I. Industrial services the chemical processing, marine, defense, power generation, pulp & paper, desalination, automotive, motorsports, consumer products and other markets. Regis Baldauff, previously Southeastern Regional Manager, was appointed as Market Director, T.I. Industrial in May of this year. “We strive to exceed customer’s expectations every day which often requires great collaboration between all of our departments”, said Baldauff whilst receiving a “Supplier of the Year” award in Daytona Beach in May of this year.

T.I. Oil & Gas
Gary Martin, previous Director of High Performance Metals, was appointed as Market Director, T.I. Oil & Gas earlier this year. “We’ve been growing our presence in this market over the years, and the launch of T.I. Oil & Gas reflects our commitment to the very specific concerns of this sector”, said Martin recently at the Global Petroleum Show 2012 in Calgary, Canada. The alloy and product portfolio for T.I. Oil & Gas includes materials for down-hole, processing, topside and subsea oil & gas applications.

About T.I.
T.I. is the global leader in performance metal solutions for the aerospace, medical and oil & gas markets. Holding the world’s most complete inventory of performance metals across a global service center network, T.I. delivers supply chain solutions at all levels of sophistication and complexity. With a globally experienced and technically driven team, T.I. has been providing dependable, quality driven solutions to customers for over 40 years. For more information contact: Jeff Wise, VP, Sales & Marketing, T.I., p: 201-572-3789, e: jwise@titanium.com.
In Memoriam: Eugene D. Zak

Eugene D. Zak
March 6, 1928 - April 27, 2012

On April 27, 2012, Eugene “Gene” D. Zak, 84, passed on to his eternal life with his family at his side. The son of the late Alex and Eva Zak, he was born in Troy on March 6, 1928. He was the devoted husband of Mary Lourdes (Kane) Zak for 61 years. He was predeceased by his cherished daughter, Barbara Zak Shields on June 11, 2011. Gene was a member of Our Lady of Annunciation parish, Queensbury where he proudly served as lector and Eucharistic minister.

Gene graduated from La Salle Institute and Rensselaer Polytechnic Institute with a degree in mechanical engineering. He then joined his father and brother Alex in the family business Zak, Inc. founded by his father in 1936 in Green Island. Thus he embarked on a professional career spanning more than 50 years where he became president and chairman of the board. The years saw a small business grow and develop into one with a national recognition. Zak, Inc. and its employees were a very important part of his life. He was a respected expert in his industry and in his years of travel for the company he cultivated many lifelong friendships.

Gene and Mary Lourdes were married on October 14, 1950 at St. James Church in Albany. They raised their six children on Highland Acres in North Greenbush. Their neighborhood consisted of several large families which made for exciting times. Gene was an accomplished pianist who loved music and instilled this love in his children. Every party found him at the piano with drums being played and everyone singing. These years also found the family at Schroon Lake which was dear to Gene’s heart. Here he relaxed, chopped wood, water skied and always manned the grill cooking dinner. In his retirement, Gene and Mary lived year-round for several years at the lake this was his dream come true. In 2003, they moved to Queensbury where they have had the pleasure of making new friends and enjoyed being close to the Adirondack mountains. There are many words to describe Gene. He was intelligent, wise, compassionate and caring. He was far-sighted, always rose to the occasion and he was always ahead of his time. He truly was a man for all seasons.

Besides his wife, Gene is survived by his children, Douglas (Cynthia), David, Kathleen (Joe) Reis, Paul (Carissa), son-in-law Joseph Shields, Jeffrey (Stephanie); his grandchildren, Allison, Greg, Christopher, Jessica, Michelle, Gina, Amanda, Madison, Megan, Emily, Matthew, Catie Rose, Lou, Nikki, Joey; his great-grandchildren, Christian, Sophia, Caia, Aubrey, Lana. He is also survived by his sister, Lucille Grattan and many nieces and nephews. Besides his parents and daughter, Gene was predeceased by his infant son Andrew; his brother and wife, Alex and Alma Zak and brother-in-law Jerome Grattan.

The family wishes to express appreciation to Dr. Michael Castro and to High Peaks Hospice. In lieu of flowers, donations to the C.R. Wood Cancer Center, 102 Park St., Glens Falls NY, 12801, would be greatly appreciated.
Each year executives and business managers from prime contractors and sub-tier suppliers attend TITANIUM conferences, as they recognize the strategic value of participating in such an event.

The forum represents an efficient, cost-effective way for delegates to meet potential partners, customers and vendors. TITANIUM conferences attract producers, distributors, designers and fabricators from all parts of the world. It only happens in one place, once a year—the premier international conference you can’t afford to miss!

Global industry leaders, acclaimed keynote speakers and expert panel discussions address important market developments and identify leading-edge trends that affect major titanium business segments.

Over the past decade, attendance at the TITANIUM Conference has doubled, drawing delegates from more than 30 countries. This rapid growth has occurred as the international supply chain for many industries has become more active and complex. Last year TITANIUM 2011, held in San Diego, drew a record attendance of nearly 1,200 guests. We expect another strong turnout this year. We invite you to join us in Atlanta for the 28th annual TITANIUM Conference.
Mr. Benoît Brossoit
UTC Vice President, Operations

Benoît Brossoit was named UTC Vice President, Operations in 2012. He transitioned from his previous leadership role as Senior Vice President, Global Operations, Pratt & Whitney Canada, which he held beginning in 2009.

Mr. Brossoit spent nearly 17 years at Pratt & Whitney Canada prior to joining the UTC Headquarter office. He began his career at Pratt & Whitney Canada in 1995 as Manager, Materials Procurement and held positions of increasing responsibility in various cross-functional roles within Manufacturing Operations. He became Vice President, Operations in 2001 and Vice President, Aftermarket Service Centres in 2003. In 2007, Mr. Brossoit was named Senior Vice President, Service Centres & Operations.

Before joining Pratt & Whitney Canada, Mr. Brossoit held positions in Quality and Production at General Motors of Canada from 1985 to 1995. Mr. Brossoit earned a bachelor’s degree in industrial engineering from GMI Engineering & Management Institute in Flint, Michigan, in 1989. He also completed the Senior Executive Program at the University of Virginia’s Darden School of Business in 2002.

Mr. Eric Zanin
Airbus Sr. Vice President & Head of Materials & Detail Parts Procurement

The presentation will give a brief overview of the aviation market and Airbus’ development past, present and future and then explain how Airbus’ Procurement strategy is designed to maximize the opportunities, raise to the challenges and mitigate the risks.

Eric Zanin started in Aerospatiale Airbus Division as a Structure Engineer in 1980. From January 2009 to June 2010, Eric Zanin was Head of Business Development & International Cooperation within the Strategy and Future Programs organization. Eric Zanin is Engineer graduated from Arts & Métiers Paris Tech, Master of Management from “Institut du Contrôle de Gestion” (IFG Paris) and INSEAD.

About EADS: EADS is a global leader in aerospace, defense and related services. In 2010, the Group – comprising Airbus, Astrium, Cassidian and Eurocopter – generated revenues of €45.8 billion and employed a workforce of nearly 122,000.

Mr. Michael Warner
Director – Market Analysis
Boeing Commercial Airplanes

As Director – Market Analysis, Michael Warner leads the team developing Boeing’s view of the airline industry and trends in the market. In addition, Warner is responsible for Boeing’s annual publication, the Current Market Outlook (boeing.com/cmo), which describes the long-term demand for air travel and the resulting demand for new aircraft.

Warner joined Boeing’s marketing department in 1998 and most recently served as Senior Manager – Market Analysis; he was promoted to Director in 2011. Before this, he served in the Product Marketing role, presenting the value of Boeing products and services to airline customers, leasing companies and media. Prior to his roles in marketing, he spent five years in the engineering department supporting the design and certification of new Boeing airplanes including the 777.

Warner received a Bachelor of Science degree in Aeronautical Engineering from the University of Michigan, a Masters of Science in Aeronautical Engineering from Stanford University, and a Master’s in Business Administration from Seattle University.

World Industry Demand Trends

Military Airframe and Land Based Applications
Richard J. Harshman
Chairman, President and CEO – Allegheny Technologies Incorporated

Jet Engines
James M. Buch
Executive Vice President, Commercial – TIMET, Titanium Metals Corporation

Commercial Aerospace Airframes
Dawne S. Hickton
Vice Chairman, Chief Executive Officer, and President – RTI International Metals, Inc.

Overview of Russian Market for Titanium Mill Products
Michael G. Metz
President – VSMPO Tirus US

Outlook of Titanium Industry in China
Wuzhuang Zou
President – Baoji Titanium Industry Co., Ltd

Outlook for Japan Titanium Industry
Shozo Nishizawa
President – OSAKA Titanium technologies Co., Ltd.

Industrial Markets
Gilles Dussart
Chief Operating Officer – VALTIMET

World Industry Demand Overview
Frank L. Perryman
President and Chief Executive Officer – Perryman Company

International Titanium Association
Telephone: (303) 404-2221 | Facsimile: (303) 404-9111 | Email: conference@titanium.org | www.titanium.org
## General Session Panels Include:

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<td>Sponsored by: DYNAMET, A Carpenter Company</td>
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<td>Sponsored by: VSMPO TIRUS</td>
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<td>Titanium Supply Chain: Regulatory &amp; Legislative Developments</td>
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### Specialty Panels Include:

- **Renewable Energy Revolution**
  Hosted by the ITA Applications Committee
- **Safety Session**
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We welcome all inquiries or visit www.specialtymetalspro.com.

Pilot Scale Hydrogenated Titanium Powder Production Unit

ADMA Products, Inc. received an award (DOD Contract Number W15QKN-11-C-0133) for design and manufacturing a pilot scale hydrogenated titanium powder production unit. This pilot scale unit is being designed using ADMA’s experience on running their laboratory scale powder production unit installed at ADMA’s facilities at the beginning of 2011. A numbers of manufacturing runs performed on this lab scale unit demonstrated the ability to produce the low cost hydrogenated titanium powders with the chemistry levels meeting the critical aerospace applications. It was also demonstrated that the powder metallurgy (P/M) Ti-6Al-4V alloy components produced from these powders meet or exceed the ASTM and AMS specifications.

Pilot scale unit will have 660 lbs/cycle capacity and will be commissioned in September 2012. Its introduction will boost the ADMA’s abilities to supply the P/M Ti and Titanium alloys components for aerospace, military land systems and other critical applications. Visit their website at: www.admaproducts.com

JS METAL (Baoji Jinsheng Metal Material Co., ltd) is a high-tech enterprise mainly engaged in titanium and titanium alloy products. We are located in Baoji, which is well known as “Titanium City”. We supply titanium bar/rod,wire, tube, sheet, bands, foil, and other products to various industry lines all around the world, such as aero space, medical, oil, chemical, etc. And our value added service will be supplied whenever you need. We also have many other equipments such as water cutting machine, line cutting machine, hydraulic press machine,drilling machine, milling machine, CNC lathe and so on. Thus, we can produce the products as per your requirements and drawing. High quality, good service, competitive price are our priorities.

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Contact person: Emily Zhang
Add: 3# building, No.2 Xibao road, Weibin district, Baoji city, Shaanxi province, P.R.China, 721006.
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Products of our company are mainly applied in electrochemical panels, equipment manufacturing, and titanium sheet for plate exchangers, titanium metal products and equipment and other fields. Production capacity: hot-rolled titanium rolls—5000t/year, cold-rolled titanium rolls—12000t/year, titanium alloy—3000t/year. Main specifications: thickness: cold-rolled—0.2-3.0mm, hot-rolled—3-16mm; width: cold-rolled—1000-1350mm, hot-rolled—1000-1550mm; weight of each roll: max 10t; variety: Gr1, Gr2; TA0, TA1, TA2,TA9 etc.

Contact: Yunnan Titanium Industry Co., Ltd, Yunnan Province China email: yunti@ynkg.com

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4. Titanium and its alloy wire according to ASTM B 863 Diameter: 0.4mm-10mm

Contact:  David Dai, Jiangsu Hongbao Group Co. Ltd. Phone: 86-512-58715259  * Fax: 86-512-58715267 Email:foreigntrade@hongbao.com

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**California Titanium LLC currently has the following materials:**

Grade 5 titanium (Ti-6Al-4V), ASTM B348 round bar @

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Dia. 2.50” Dia. 2.75”
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Please contact sales@caltitanium.com or call (310) 683-8004 for a quote.

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Gr.5 1.27*914.4*2438.4 500kgs MIL-T-9046J/AMS 4911H/ DMS1592F/ASTM B265
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Hailong Industry manufactures Seamless Titanium and Titanium Alloy tube and pipe as per SB338 and SB861, with the material of Gr.1, Gr.2, Gr.7, Gr.9, Gr.12, Nickel and Nickel Alloy tube and Pipe, Ni201, Monel400, Incoloy 600, 625, Inconel 800, 825, Stainless steel tube and pipe, duplex tube etc.. The company was ISO and PED certified by TUV.

Contact Information: www.hailongtitan.com
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Direct Alloys concentrates on premium materials, and represents the seller in transactions, providing a unique knowledge based service with over 25 years experience in the specialty metals industry. Our online database and advanced sales tools located
Titanium Weld Color Inspection Guide

Durable Carrying Case
Nine Photo Cards
Nine Titanium Weld Samples

FEATURES:
- The kit includes a 2-part illustrated guide for welders, welding inspectors, and welding engineers for color inspection purposes. Part 1 of the guide covers detailed discussions of titanium welding technology and is intended for classroom training. Part 2 of the guide contains recommended shop procedures for weld inspection personnel.
- EWI’s Titanium Weld Color Inspection Kit is considered the standard for visual inspection of titanium weldments across all industries, including defense, aerospace, chemical processing, and more.

OVERVIEW
The Titanium Weld Color Inspection Kit from EWI provides fabricators of titanium with a high quality, comprehensive tool for performing weld color inspection as part of their weld quality assurance process. The kit is considered the standard for visual inspection of titanium weldments across all industries, including defense, aerospace, chemical processing, and more.

FEATURES:
- Nine Titanium Weld Samples - Each of the nine sizable weld samples in the kit exhibits a different weld color condition. Three acceptable and six rejectable weld colors are included, ranging from glossy silver to flaky white. All samples are created onsite by EWI’s highly skilled engineers.
- Nine Photo Cards - The kit also includes a booklet of high quality images of each of the nine welding conditions along with a description of their color, acceptability, and disposition information as required by technical publication NAVSEA 59174-AR-GIB-01/09/98/788. It also contains the American Welding Society’s weld inspection card.
- Durable Carrying Case - Contents of the kit are housed in a durable, custom-built case that holds and secures the guide booklets and welding samples. A sturdy handle on the case makes it easy to carry, and feet on the bottom allow it to stand upright.
- Titanium Weld Color Inspection Guide - The kit includes a 2-part illustrated guide for welders, welding inspectors, and welding engineers for color inspection purposes. Part 1 of the guide covers detailed discussions of titanium welding technology and is intended for classroom training. Part 2 of the guide contains recommended shop procedures for weld inspection personnel.

HOW TO ORDER
For more information, or to order the EWI Titanium Weld Color Inspection Kit, contact Randy Dull at 614-688-5095 or rdull@ewi.org, or Nick Kapustka at 614-688-5175 or nkapustka@ewi.org.

CICP MC 4127 offered by Chesapeake Industrial Cleaning Products Inc.

CICP MC 4127 is an aggressive, high pH alkaline cleaning solution for removing difficult to clean soils from titanium. CICP MC 4127 contains a very high level of hydroxide; thus, it is necessary to refer to the product MSDS to insure proper precautions are taken when handling the material. CICP MC 4127 removes the typical oils and dirt’s found in titanium recycling and provides a lower surface tension for efficient rinsing. While designed for use in tumble spray washers and barrel washers, CICP MC 4127 may also be used in immersion applications.

FEATURES:
- Free rinsing • Aggressive cleaning • Low foaming
- Economical

BENEFITS:
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For USA enquiries contact Danielli Corporation USA (Bob Smith Tel: (724) 778 5448; rsmith@danielicorp.com).

For all other enquiries contact Danielli headquarters in Italy (Kristiaan van Teutem , Tel: +39 04321957295; k.vanteutem@danieli.it)

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Equipment for Sale:

EWI’s Titanium Weld Color Inspection Kit

The Titanium Weld Color Inspection Kit from EWI provides fabricators of titanium with a high quality, comprehensive tool for performing weld color inspection as part of their weld quality assurance process. The kit is considered the standard for visual inspection of titanium weldments across all industries, including defense, aerospace, chemical processing, and more.

FEATURES:
- Nine Titanium Weld Samples
- Nine Photo Cards
- Durable Carrying Case
- Titanium Weld Color Inspection Guide

To order contact: Randy Dull at 614.688.5095 or rdull@ewi.org, or Nick Kapustka at 614.688.5175 or nkapustka@ewi.org.

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