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ATI Announces Long-Term Agreement With Goodrich Corporation

Pittsburgh, PA 12/5/11 (BUSINESS WIRE) -- Allegheny Technologies Incorporated (NYSE: ATI) announced that it has signed a long-term sourcing agreement with the Goodrich Corporation (NYSE: GR) for the supply of aerospace forgings used for landing gear components. The agreement covers aerospace structural forgings sold to Goodrich’s Landing Gear facilities located in the US, Canada, and Poland by ATI Ladish’s ZKM Forging operation for the period 2012 through 2015. ATI Ladish is an operating unit of Allegheny Technologies. This agreement includes forgings for commercial, regional, and business aircraft. Continued on Page 8

VSMPO Tirus US Organizational Changes

VSMPO – Tirus, US is pleased to announce that Andy McElwee has joined its staff as Eastern VP – Sales and Operations. Mr. McElwee has considerable experience in the specialty metals industry, with over 20 years of employment with Carpenter Technology Corporation. During his career at Carpenter, Mr. McElwee held various sales and marketing management positions up to and including Vice President of Sales and Marketing for the corporation. In addition, he held positions as General Manager of

RTI Announces Agreement To Acquire Titanium Forming Division Of Aeromet International Plc

Pittsburgh, PA – RTI International Metals, Inc., (NYSE: RTI), is pleased to announce the signing of a Stock Purchase Agreement with Aeromet International PLC, pursuant to which RTI will acquire Aeromet’s Forming Division for cash consideration of $34.0 million. This unit, located in Welwyn Garden City, United Kingdom, engages in hot forming, super plastic forming, diffusion bonding and fabrication of titanium sheet and plate for the aerospace and defense markets. The transaction is expected to close in the fourth quarter of 2011 and be accretive to earnings in 2012.

Continued on Page 5

AMG Announces Senior Management Changes

AMG Advanced Metallurgical Group N.V., (“AMG”, Euronext Amsterdam: “AMG”) announces that Mr. Eric Jackson has been appointed Chief Operating Officer of AMG and that Dr. Markus Holz has joined the Management Board of ALD Vacuum Technologies GmbH, AMG’s Engineering Systems Division.

In this newly created role of Chief Operating Officer, Mr. Jackson is responsible for asset optimization, specifically increasing return on capital

Continued on Page 8

The Newsletter Dedicated to TITANIUM
What's New in Titanium?

Solar Atmospheres Stands Alone In Degassing Titanium To Aerospace Standards

A unique processing technique has earned Solar Atmospheres of Western Pennsylvania the distinction of being the only commercial heat treater listed on Boeing’s D1-4426 approved processors list for degassing titanium parts in accordance with PS15325 and PS15326.

Super Plastic Forming (SPF) is a common and cost efficient way to produce complex titanium aircraft components, but this method can have a detrimental effect on the parts. SPF involves heating titanium sheet above 1650°F and typically hydraulically pressing the sheet between two molds. However, if the SPF is not performed in a vacuum or in a controlled atmosphere, the hydrogen parts per million (PPM) can increase tremendously which could lead to hydrogen embrittlement of the flight critical part.

Fortunately, the reaction of hydrogen infused into reactive titanium is reversible by heating above 1250°F in a vacuum furnace of one micron or less. Typically, when single digit ppm’s of hydrogen levels are required on a finished formed part, vacuum levels of 10-6 torr must be attained!

The pictured part has extremely high hydrogen levels due to the SPF process and a final chemical etch during downstream processing. On this project, Solar was able to reduce the PPM of hydrogen from 160 ppm to below 9 PPM, thereby increasing the strength and making the product aerospace compliant.

Solar Atmospheres can degas your parts to the most stringent requirements in the aerospace industry. With the largest size commercial vacuum furnace available in the U.S., high-tech techniques, and world-class equipment; Solar stands ready to meet your degassing challenges.

PLYMOUTH ENGINEERED SHAPES PLANS $12M INVESTMENT

Warrenville, IL – Plymouth Engineered Shapes (PES), a member company of Plymouth Tube Co., has planned a $12 million investment for its facility at Hopkinsville, Kentucky. Kevin Rahnert, General Manager of PES, stated that the expansion is in response to increases in both the commercial and aerospace markets. The expansion involves both building and equipment and is expected to be completed and operational by the end of 2012. Plymouth Engineered Shapes has been in business in Hopkinsville since 1976 and manufactures titanium and steel extrusions for aerospace, power generation, and other varied industrial applications.

About Plymouth Tube Since 1924, Plymouth Tube Co. has served the steel tubing industry with continued manufacturing excellence practices and technical expertise that promotes industrial partnerships with many of their customers. Currently headquartered in suburban Chicago with 11 manufacturing mills across the U.S., Plymouth is a global supplier of specialty carbon alloy, nickel alloy, and stainless steel tubing for mechanical, pressure, boiler, and hydraulic applications. Steel, nickel and titanium extruded and cold drawn shapes are produced by Plymouth Engineered Shapes. Plymouth is well positioned for continued global growth by supplying the aerospace, transportation, energy, and industrial markets.
Zak Incorporated specializes in machining large diameter metal parts for the power generation industry; they also produce copper crucibles and molds for the specialty melting industry. For more information on their capabilities or details on the new work centers, visit www.zakinc.com or call 518-273-3912.

Ulbrich Launches New Website - UlbrichShapedWire.com

New Shaped Wire Website Focuses on Shaped and Profile Wire Products

UlbrichShapedWire.com was launched today to promote rolled shaped wire products in stainless steels and special metal alloys. The new site features rolled shaped, flat, square and round wire products engineered and produced to exacting dimensions in a selection of over 170 different alloys. Ulbrich’s rolled wire products are provided in net or near net sizes suitable for stamping, coining, forming or machining applications. Click here for full article

The new website includes in-depth shaped and profile wire product information, as well as, quality certification downloads, simplified contact forms, materials information, packaging options and dimensional capabilities for easy client reference.

“This website was designed to give our prospective and current customers a portal to Ulbrich Shaped Wire’s products and services. Our main objective for this new site is to make our skilled staff of engineers and tooling specialists more accessible to our clients. We want to let them know that we can assist in the design and development of their most challenging products," commented Mike Alstrits, General Sales Manager at Ulbrich Shaped Wire, Inc.

About Ulbrich Shaped Wire, Inc.
Ulbrich Shaped Wire, Inc., located in North Haven, CT, is a division of Ulbrich Stainless Steels and Special Metals, Inc. Ulbrich Shaped Wire is a leading manufacturer of highly engineered shaped and rolled profile wire in stainless steel and special metals with over 40 years of experience producing thousands of unique shapes and sizes.
What’s New in Titanium?

- **TITAL optimizing Quality Control**
- **First company in the Investment Casting Industry to introduce Digital Radiography**
- **New process to replace traditional film technique x-ray method**

TITAL is the first company in the casting industry to introduce digital radiography as a process for quality control. Being a company which regularly supplies the highly sensitive aerospace industry TITAL recognizes the critical importance to always supply products according to the very highest quality standards. For years TITAL has been leading the casting industry in terms of superior quality control and now sets the standard as the first company in its industry to introduce digital radiography.

“We can continue to offer innovative and market-oriented solutions for both our production technologies and testing processes”, Berthold Busch, Head of Quality Management at TITAL, underlines their motivation to further increase quality standards.

The process of digital radiography is currently in the qualification stage and will enter the normal inspection process once it has successfully passed qualification. Digital radiography is a form of x-ray imaging, where digital x-ray sensors are used instead of traditional photographic films to detect material defects within the casting.

The new method will clearly speed up the inspection process - the results are repeatable and can be saved in a digital format. This will allow TITAL not only to permanently save the testing results, but also to provide their customers the data directly without any additional costs for expensive x-ray films. The time efficiency and the ability to digitally transfer and enhanced images make digital x-ray superior to traditional film technique methods. “We invested a six digit amount in this new technology in order to apply digital radiography and have made some good progress with the qualification”, Berthold Busch explains. Currently TITAL utilizes real-time, digital and film technique x-ray processes in parallel. However, Busch thinks that digital radiography will completely replace the two other processes in the foreseeable future.

**About TITAL GmbH**
TITAL supplies industry leading companies around the world in the field of aerospace, defense, motor sport and industrial systems with sophisticated aluminium and titanium investment casting products using the lost wax process. TITAL was founded in 1974 and in 2006 the management took over the company. Today the company employs more than 400 people with 2010 revenue of €48M.

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**Specialty Metals Processing Offers Coil to Coil Polishing Services**

Specialty Metals Processing, a toll processor of flat rolled special metals, located in Stow, Ohio, is now offering Coil to Coil Polishing services to the special metals industry. This custom built, state-of the-art coil polish line can handle up to 62” wide, 30,000 # coils and has a gauge range of .013-.125. It features CNC controls, has special tension briddles that allow very light gauge polishing, coil mapping, special lighting and many other features that makes this the industry’s premier coil polish line. With this newest addition to our Surface Finishing Services, there is not much that SMP can’t handle in way of surface conditioning, grinding or polishing in sheet, plate, slab and now coil!

We welcome all inquiries or visit www.specialtymetalspro.com.

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**Valtimet: increasing titanium welding capacities in Korea**

Poongsan Valinox, joint-venture company between Valtimet and Poongsan Corp in South-Korea, has commissioned two additional titanium welding lines in 2011. This extra capacity is in response to the increasing needs of the local Korean market.
What's New in Titanium?

New melt facility, increased capabilities and a new brand image

A state-of-the-art new Nitinol melting facility, expanded capabilities and a foundation as a solutions-based company are all helping drive home the launch of Fort Wayne Metals' new brand identity.

The new brand identity, which Fort Wayne Metals launched at this week’s Medical Design & Manufacturing Minneapolis event, features an updated logo and tagline, “Turning knowledge into solutions,” emphasizing the company’s 40-plus year path toward its position today as a solutions-based world leader in advanced alloys and wire-based products.

“For more than 40 years, Fort Wayne Metals has been a company focused on more than just commodities,” Scott Glaze, chief executive officer of Fort Wayne Metals, said. “Our success, our growth and our reputation have all been earned through our consistent commitment to providing the highest levels of service, quality and expertise. We believe that this new brand identity better tells that story of Fort Wayne Metals, and we are confident our new Nitinol facility in Indiana will play a significant role in our future.”

The new melt facility, named Advanced Materials Development, which is nearing completion in Columbia City, Indiana, is believed to be the first melt facility in the world dedicated to producing materials for the medical device industry. It will employ a state-of-the-art, custom melt process, which will improve product quality and reduce the company’s dependence on outside Nitinol sources. The facility will also be capable of melting other alloys in addition to Nitinol, including custom titanium and other high-performance alloys. Fort Wayne Metals expects to create more than 60 jobs at AMD by the end of 2013.

“This new melt facility increases the strategic stability in our supply chain and helps solidify our position as a global partner for innovation with our customers,” Bob Myers, executive vice president and chief commercial officer of Fort Wayne Metals, said. “With proprietary technology and new, custom-designed equipment designed to specifically meet the needs of the medical device industry, our new facility is built from the ground up to provide our customers world-class and innovative solutions.”

Fort Wayne Metals officials expect Advanced Materials Development to be online and ready to begin melting in 4Q 2012, with finished material available early in 2013.

Onward and Upward

One month after the TITANIUM 2011 conference closed its doors in San Diego, there were significant business transactions at the Dubai Air Show, held Nov. 13-17 in the United Arab Emirates (UAE), which signaled near-term opportunities for the international titanium industry.

Emirates Airline placed an order to buy 50 777-300ER jets from Boeing, a booking estimated at $18 billion, plus an $8-billion option for another 20 aircraft. Online news reports from the air show, dated Nov. 13, quoted Jim Albaugh, the president and chief executive officer of Boeing Commercial Airplanes, who said the deal is “the single-largest order, by dollar value, in Boeing’s history.”

In separate online dispatches from the Dubai Air show, Oman Air booked six Boeing 787-8s while Qatar Airways ordered two Boeing 777-200 freighters to bolster its dedicated cargo business.

All Nippon Airways launched commercial service of the much-anticipated 787 jetliner on Oct. 26 with an inaugural flight from Tokyo to Hong Kong. News reports indicated Boeing has received orders for 820 787s—55 from All Nippon Airways. James A. Bell, Boeing’s chief financial officer, quoted in a Oct. 27 New York Times article, said the Chicago-based aerospace giant “expects to sell 5,000 787s in the next 20 years.”

The two Boeing aircraft are considered showcases for titanium applications. Titanium executives participating in the World Industry Demand panel at the TITANIUM 2011 conference estimated the titanium content per Boeing plane: 80 metric tons for each 787; and 50 metric tons for each 777.
PRV Metals Closes Acquisition of TechSpec, Inc.

PRV Metals, LLC, Platte River Ventures’ specialty metals platform, makes its second acquisition.

1/4/12 - Denver, CO - PRV Metals, LLC (“PRV Metals”), a recently-formed portfolio company of Platte River Ventures, announced today that it had acquired 100% of the outstanding stock of TechSpec, Inc. (“TSI”). Located in Derry, Pennsylvania, TSI provides specialty rolled and forged titanium products to the commercial aerospace, defense, medical, energy and industrial sectors. TSI’s capabilities include hot rolling, forging, conditioning, heat treating and machining of titanium into round bar. TSI’s highly-integrated approach enables it to perform nearly all required processes in its own manufacturing facility. TSI is the second acquisition by PRV Metals, following its acquisition of Sierra Alloys Company (“Sierra Alloys”) on November 8, 2011.

“We are pleased to add TSI to our specialty metals platform,” said Platte River Ventures Managing Director Greg Sissel. “TSI has an exceptional reputation for both quality and customer service that has resulted in long-term relationships with leading titanium producers and customers. The combination of TSI and Sierra Alloys further enhances PRV Metals’ position as a critical player in the titanium and specialty metals industry. We look forward to deepening the collective PRV Metals customer relationships and to sharing operational expertise between the companies, thereby enhancing the capabilities PRV Metals will be able to provide to its customers.” For more information visit www.platteriverventures.com.

About PRV Metals, LLC - Through its unique processes and specialized manufacturing capabilities, PRV Metals is a leading producer of forged and rolled titanium, stainless steels and other specialty alloys to the commercial aerospace, defense, medical, energy and industrial sectors.

About TechSpec, Inc. - Located in Derry, Pennsylvania, TSI produces rolled and forged titanium products with its extensive capabilities in hot rolling, forging, conditioning, heat treating and machining. For more than 30 years, TSI has provided high quality titanium products to commercial aerospace, defense, medical, energy and other industrial users of titanium. For more information visit www.tsititanium.com.

About Platte River Ventures - Based in Denver, Colorado, Platte River Ventures is a private equity firm focused on investing in lower middle market operating companies with enterprise values generally between $10 million and $250 million. The firm focuses on investing in the aerospace, industrial services, energy services, agriculture, chemicals, metals, industrial minerals and transportation industries. Platte River Ventures currently manages funds with committed capital in excess of $300 million.

RTI to Acquire Titanium Forming Division of Aeromet Intl

Continued From Page 1

Dawne S. Hickton, Vice Chairman, President, and CEO commented, “The acquisition of Aeromet’s Forming Division demonstrates the continued commitment by RTI to provide a complete suite of advanced downstream, value-added titanium fabrication products and engineered services to our aerospace and defense customers. This unit, to be named “RTI Advanced Forming, Ltd.,” will enhance our vertical integration strategy. It is a leading European manufacturer of advanced titanium fabrications and in combination with our Tradco subsidiary (Washington, Missouri) positions RTI with unsurpassed titanium forming capabilities that will enhance our ability to provide nearer net shape titanium components to our end market customers.”

RTI International Metals, Inc.

Forward Looking Statement - The statements in this release relating to matters that are not historical facts are forward-looking statements that may involve risks and uncertainties. These include, but are not limited to, the impact of global events on the commercial aerospace industry, actual build-rates, production schedules and titanium content per aircraft for commercial and military aerospace programs, military spending generally and in particular, demand from the Joint Strike Fighter program, the impact from Boeing 787 production delays, global economic conditions, the competitive nature of the markets for specialty metals, the ability of the Company to obtain an adequate supply of raw materials, the successful completion of the Company’s capital expansion projects, and other risks and uncertainties included in the Company’s filings with the Securities and Exchange Commission. Actual results can differ materially from those forecasted or expected. The information contained in this release is qualified by and should be read with the statements and notes filed with the Securities and Exchange Commission on Forms 10-K and 10-Q.

RTI International Metals, Inc., headquartered in Pittsburgh, specializes in advanced titanium, meeting the requirements of the world’s most technologically sophisticated applications in commercial aerospace, defense, propulsion, energy, industrial, chemical, and medical markets. For 60 years, RTI has been taking titanium further through advanced manufacturing, engineering, machining, and forming processes. RTI delivers titanium mill products, extruded shapes, form-ready parts, and highly engineered components through our downstream integrated supply chain. RTI has locations in the United States, Canada, Europe, and Asia.
What's New in Titanium?

Argex Mining to expand titanium production

Junior titanium producer Argex Mining (CVE:RGX) plans to expand the current production capacity by 3,000 percent after successful testing of its La Blache ore pilot-plant, the company reported Monday.

Production capacity of high purity titanium from the company’s majority owned deposits will now rise from 0.3 kilograms a day up to 10kg a day.

Argex chief executive Roy Bonnell said: “The pilot-plant expansion represents a significant milestone.

“The primary objective of the expansion is to increase the quantity of titanium product samples we can provide to end-users.”

Expansion is slated to be completed before the end of the first quarter of 2012, with production set to begin by the second quarter.

The La Blache acreage, which is comprised of one block of 73 contiguous claims, lies in the Manicouagan region in Quebec, roughly 120 kilometres northwest from the city of Baie-Comeau on the north shore of the St. Lawrence River.

Argex noted: “The scale-up permits us to not only increase production it will also allow us to conduct larger scale testing and continue to optimize the key performance indicators.”

Recently, Argex Mining announced the completion of pilot-plant testing of ore from its La Blache deposit. Highlights at the deposit included: production of 99.8 percent pure titanium dioxide, with a recovery rate of 90 percent, directly from run of mine materials. In addition, the pilot-plant testing revealed brightness and colour in line with, or superior to, some of the major producers in that sector. Also, Argex said the organics used in the production process have been recycled over 100 times, demonstrating the viability of the process.

Aside from La Blache, which hosts 4.7 million tonnes of inferred resources grading 10.67 percent of titanium, 41.76 percent iron and 0.25 percent vanadium, the junior miner owns the Mouchalagane property, a large Labrador Trough iron ore project. For more information visit their website at: www.argex.ca.

Osaka Titanium Completes Third Phase Expansion

Osaka Titanium Technologies completed sponge titanium expansion ahead of the schedule to increase the annual output capacity by 3,000 tonnes to 40,000 tonnes. The firm completed a series of expansion planned before Lehman shock.

The firm expands lower grade raw material with around 90% of titanium oxide purity to keep the stable supply.

The firm restarted the third phase of expansion in January 2011 after the firm stopped the work with 30% completion as of January 2009. The firm completed the works by end of November at more than a month ahead of the schedule.

The first phase completed in October 2008 to increase the annual output capacity by 8,000 tonnes. The firm froze the further expansion after Lehman shock while the additional expansion was planned to complete in 2009. The firm restarted the second phase in August 2010 to increase the capacity by 6,000 tonnes by February 2011.

The firm has no concrete plan for additional expansion. The president Shozo Nishizawa said the firm prepares potential expansion at pace of annualized 2-3% and around 10% in 3 years. The firm eyes marginal expansion through better productivity.

The firm started the lower grade raw material operation while the firm uses material with around 95% of titanium oxide purity usually. The firm tries to use the lower grade material at 10 to 30% rate of total material. (Sourced from Japan Metal Bulletin visit: http://www.japanmetalbulletin.com)

OSAKA Titanium technologies Co., Ltd. manufactures premium quality titanium sponge mainly for aerospace use, high-purity titanium billet and polycrystalline silicon for semiconductor industry, and other titanium-silicon related products.
“We are pleased to announce this long-term agreement for aerospace structural forgings which enhances ATI’s position in the aerospace supply chain,” said Rich Harshman, Chairman, President and Chief Executive Officer of Allegheny Technologies. “ATI Ladish and the Goodrich Corporation have a solid long-term relationship. This agreement demonstrates how we expect to broaden ATI’s component offerings to the aerospace market. In addition, ATI ZKM Forging, which is located in Poland’s Aviation Valley, expands ATI’s global reach by providing a strong asset base in a fast-growing region of the global aerospace supply chain.”

ATI ZKM Forging is located in Stalowa Wola, Poland. It has become one of Central Europe’s largest suppliers of forgings. Customers around the world rely on ATI ZKM for the durable, highly engineered components they need for a wide range of demanding aerospace and industrial applications.

This news release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are based on management’s current expectations and include known and unknown risks, uncertainties and other factors, many of which we are unable to predict or control, that may cause our actual results, performance or achievements to materially differ from those expressed or implied in the forward-looking statements. Additional information concerning factors that could cause actual results to differ materially from those projected in the forward-looking statements is contained in our filings with the Securities and Exchange Commission. We assume no duty to update our forward-looking statements.

Building the World’s Best Specialty Metals Company (R): Allegheny Technologies Incorporated is one of the largest and most diversified specialty metals producers in the world with revenues of approximately $5.0 billion for the last 12 months. ATI has approximately 11,300 full-time employees worldwide who use innovative technologies to offer global markets a wide range of specialty metals solutions. Our major markets are aerospace and defense, oil and gas/chemical process industry, electrical energy, medical, automotive, food equipment and appliance, machine and cutting tools, and construction and mining. Our products include titanium and titanium alloys, nickel-based alloys and superalloys, grain-oriented electrical steel, stainless and specialty steels, zirconium, hafnium, niobium, tungsten materials, forgings, castings, and fabrication and machining capabilities. ATI website www.ATImetals.com.

Goodrich Corporation, a Fortune 500 company, is a global supplier of systems and services to aerospace, defense and homeland security markets. With one of the most strategically diversified portfolios of products in the industry, Goodrich serves a global customer base with significant worldwide manufacturing and service facilities. Visit http://www.goodrich.com/

About AMG – AMG creates and applies innovative metallurgical solutions to the global trend of sustainable development of natural resources and CO2 reduction. AMG produces highly engineered specialty metal products and advanced vacuum furnace systems for the Energy, Aerospace, Infrastructure and Specialty Metals and Chemicals end markets. AMG consists of two operating divisions, Advanced Materials and Engineering Systems, and owns interests in publicly-listed companies Graphit Kropfmühl AG (Deutsche Börse: GKR.DE) and Timminco Limited (TSX: “TIM”). The Advanced Materials Division develops and produces specialty metals, alloys and high performance materials. AMG is a significant producer of specialty metals, such as ferrovanadium, ferronickel-molybdenum, aluminum master alloys and additives, chromium metal and ferrotitanium, for Energy, Aerospace, Infrastructure and Specialty Metal and Chemicals applications. Other key products include specialty alloys for titanium and superalloys, coating materials, tantalum and niobium oxides, vanadium chemicals and antimony trioxide. The Engineering Systems Division designs, engineers and produces advanced vacuum furnace systems and operates vacuum heat treatment facilities, primarily for the Aerospace and Energy (including solar and nuclear) industries. Furnace systems produced by AMG include vacuum remelting, solar silicon melting and crystallization, vacuum induction melting, vacuum heat treatment and high pressure gas quenching, turbine blade coating and sintering. AMG also provides vacuum case-hardening heat treatment services on a tolling basis. Graphit Kropfmühl AG is a majority controlled, publicly listed subsidiary of AMG. Based on its secure raw material sources in Africa, Asia and Europe, Graphit Kropfmühl is a specialist in the production of silicon metal and the extraction, processing and refining of natural crystalline graphite for a wide range of energy saving industrial applications. Timminco Limited is a publicly listed affiliate of AMG. Timminco produces silicon metal for the chemical, aluminum, electronic and solar industries. Timminco also produces solar grade silicon, using its proprietary technology for purifying silicon metal, for the solar energy industry. With over 3,000 employees, AMG operates globally with production facilities in Germany, the United Kingdom, France, Czech Republic, United States, China, Canada, Mexico, Brazil, Turkey, Poland, India and Sri Lanka and also has sales and customer service offices in Belgium, Russia and Japan (www.amg-nv.com).
TITANIUM 2012 Conference

TITANIUM 2012 at the Hilton Atlanta will be even larger, offering an expanded exhibition hall with more booth opportunities, a full poster session dedicated to academic research, more breakout rooms to host your private business meetings and even more networking tools will be integrated into the daily program to ensure you meet the people you are seeking and you have the ability to connect with delegates from across the globe. Sign up early for discounted rates and come prepared to cover a vast amount of information in a short amount of time.

Reserve your exhibition booth, private meeting space and sponsorship opportunities today!

TITANIUM 2012 Call For Papers
Abstract Submission Guidelines:

Interested presenters (members & non-members) may submit abstracts by April 16 for consideration. Email to: conference@titanium.org

Abstracts should be 1,200 characters or less in a Microsoft Word file format. Please include sufficient detail for fair evaluation of the proposed paper and presentation and indicate which of the following panels you would prefer to participate:

- World Titanium Industry Supply Trends
- Commercial Aerospace
- Military / Defense
- Automotive
- Medical
- Industrial
- Economy / Finance
- Energy Exploration and Production
- Mining Manufacturing Technology
- New Materials
- Consumer / Recreation / Architectural
- Other: Please Specify

Complete contact information for all co-authors, biographical information, a black and white high resolution photo of the presenter, and your preferred panel is required with your abstract. Only abstracts in English will be considered. We encourage participation from students as well as professionals. The deadline to receive general session panel sponsorships or abstracts is April 16, 2012.

ITA All Inclusive Exhibition
Limited Booth Space Still Available

The ITA offers an excellent networking opportunity to showcase your business’s goods and services, make new contacts, as well as strengthen existing relationships. There are only a handful of booth spaces remaining. Booth spaces change daily please contact Carolyn Smith at csmith@titanium.org to select your space today!
Educational Workshops

Upcoming Fundamentals of Titanium Workshops

For over ten years, the International Titanium Association (ITA) has presented the premier course on everything Titanium.

This comprehensive workshop has been presented all over the world and in several languages. Now, for the first time, this course is available online. This comprehensive workshop provides detailed information on the types, uses, and properties of common titanium alloys. You will gain an understanding of applied titanium metallurgy fundamentals.

Course Objectives & Content
Fundamentals of Titanium will prepare you to present and work effectively with job-related functions that involve titanium. You will receive a complete overview of titanium and a thorough grounding in its metallurgy, characteristics, properties and uses.

**Typical Course Outline:**
- Historical Overview Of Titanium
- Titanium Characteristics
- Comparisons With Other Metals
- Titanium Manufacturing
  - Titanium Alloys
  - Heat Treating
  - Corrosion Resistance
  - Mechanical Properties
- Joining
- Forming
- Finishing
- Safety
- Recent Technology Advances
- Current And Emerging Applications

To register for the workshop, please visit the educational section of the ITA website at: http://www.titanium.org

2012 In-Person Workshop Schedule:

- Los Angeles Day #1: February 15
- Los Angeles Day #2: February 16
- Seattle, Washington: February 28
- Charlotte, North Carolina: April 24
- Chicago, Illinois: May 22
- Atlanta, Georgia in conjunction with TITANIUM 2012 Conference & Exhibition: October 7
- Houston, Texas: October 23

Tailor The Class To Your Needs...

In addition to the public workshops, ITA can tailor the Fundamentals of Titanium workshop to the needs of your organization.

Host your private workshop right in your office! To explore the possibilities, contact Carolyn Smith at (303) 404-2221.

Online Fundamentals of Titanium

For over ten years, the International Titanium Association has presented the premier course on “everything titanium”. This comprehensive workshop has been presented all over the world and is also available online in 5 different languages.

*Chinese, German, English, Russian, Spanish*

Students will have 16 weeks to complete the course at their own pace and leisure. Register online at titanium.org.
**Material For Sale:**

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.

JS METAL is your first choice for titanium needs. For more details, please visit www.titaniummet.com. Please email us: product@bjjsm.com to get a quote. Thanks for your support.

Contact person: Emily Zhang  
Add: 3# building, No.2 Xibao road, Weibin district, Baoji city, Shaanxi province, P.R.China, 721006.  
Email: product@bjjsm.com  
Tel: +86-0917-3306973  
Fax: +86-0917-3306971  
Web: www.titaniummet.com

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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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**Trans World Alloys makes and stocks any size Titanium Plate Grade 5**

Material: Titanium  
Form: Plate  
Grade: 6AL 4V, Grade 5

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**Trans World Alloys is now stocking Rectangular Flat Bar in Titanium Grade 5**

Titanium 6Al 4V with AMS 4928 available in following thicknesses:  
.500” - .750” - 1.00” - 1.25” - 1.50” - 2.00”  
Custom cut to your size requirements

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**C.P. Titanium rod/wire, gr. 2 and gr. 3 FOR SALE**
diam. 2 and 3 mm, rod of 1m each and on spooles fully certified.
T.M.P.Titanium Mill Products Ltd., Sheffield
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www.timill.com
Email:paul@timill.com

California Titanium LLC currently has the following materials for sale:
Grade 5 titanium (Ti-6Al-4V), ASTM B348 round bar @ Dia. 2”
Dia. 2.25”
Dia. 2.50”
Dia. 2.75”
Dia. 3.00”
Please contact sales@caltitanium.com or call (310) 683-8004 to get a quote.

As ISO and PED Certified company, Jiangsu Hongbao Group Co., Ltd specializes in manufacturing titanium rod, tube, plate and wire. Our products are widely used in heat exchangers, petrochemical industry, aviation industry and sports appliances.

Our manufacturing capability as follows:
2. Titanium and its alloy rods ASTM B 348, F 67 Diameter: 10-150mm
3. Titanium and its alloy sheets & plates ASTM B 265, F 67 Thickness: 0.7-50mm Width: <2500mm Length: <6000mm.
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

We can offer you titanium products, nickel based alloy products and some other special stainless steel from the stock. Here is part of our stock list, please check to see which items you need.
Gr.5 1.8*1000*2000mm 2195kgs/137pcs ASNA 3200E
Gr.5 1.6*914.4*2438181kgs/11pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 1.8*914.4*2438 692kgs/38pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 1.8*914.4*3048 136kgs/6pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
DMS1592F/ASTM B265
Gr.5 2.03914.4*2438 992kgs/50pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 2.03914.4*3048 537kgs/21pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 2.28914.4*2438 639kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 2.28914.4*3048 529kg/18pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 6.35914.4*3048 241kgs/3pcs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 0.813914.4*2438 750kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 0.813914.4*3048 460kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 1.27914.4*2438.4 500kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 1.27914.4*3048 342kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265
Gr.5 1.27914.4*3048 342kgs MIL-T-9046J/AMS 4911H/DMS1592F/ASTM B265

For more information, please visit our website www.timetas.com. We can offer our customers a very competitive price and a very fast delivery.

Contact:  Celia Qi ,the international business manager of Tianjin Hengtai Industry and Trade Co., Ltd
Add:No.21 Quanfa Road, Wuqing development zone, Tianjin,China
Tel:0086-22-82173366   Fax:0086-22-82101337
Mobile:0086-15900351445
Email: timetals.qi@gmail.com   Web: http://www.timetals.com

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
Tel: 0086-512-58986900,
Fax: 0086-512-58183187,
Email Address: hailonggood@163.com

Titanium Industries is a global manufacturing distributor of most product forms of commercially pure and many alloyed grades of titanium and offers a variety of value added services including
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.

The Titanium Weld Color Inspection Kit from EWI provides a durable carrying case, nine photo cards, and nine titanium weld samples. The kit is considered the standard for visual inspection of titanium weldments across all industries, including defense, aerospace, chemical processing, and more.
** Classified Ads **

**Job Postings**

**Principal Aero-Structure Design Engineer**
Position location: Niles, OH or Pittsburgh, PA

This position will drive the collaborative engineering activities between RTI and aerospace OEM’s / Tier 1 suppliers leading to the development of integrated and value-added business opportunities for RTI. The successful candidate will accomplish this goal of growing value-added business opportunities by leveraging her expertise in aircraft structural design principles and a broad understanding of aerospace materials and manufacturing technologies to determine and propose the most cost-effective solutions to the end customer. Sound understanding of the performance requirements of structural components will allow the candidate to apply design-for-manufacturability concepts and offer optimum solutions to the customer: spanning the spectrum of design-to-performance specifications on one end to build-to-print manufacturing on the other end.

Some of the functional responsibilities of this position are:

1. Review and analyze request-for-proposals from OEM’s / Tier 1 suppliers.
2. Support development of engineering models and drawings for detail parts and assemblies. Summarize analysis work in clear, concise reports for presentation to internal and external customers.
3. Develop the most cost-effective manufacturing route based on consideration of alternatives.
4. Identify constraints and barriers that prevent the development of a practical solution; using sound engineering judgment, explore alternative designs in full collaboration with the end customer. Assemble case-studies and white papers to support technical marketing activities.
5. Partner with technical business development, R&D and commercial teams to effectively support the end customer and generate value-added business opportunities, promoting RTI capabilities.

Education: Bachelor’s degree in Aerospace or Mechanical Engineering. Graduate degree preferred.

Skills / Experience:
1. Must have 4-10 years prior hands-on experience in design, development and analysis of aircraft structures or structural components with an OEM or a Tier 1 supplier. Understanding of damage tolerance, durability, design allowable and structural modeling. Experience as a lead design engineer or lead stress analyst for an aircraft OEM or major supplier a plus.
2. Knowledgeable in FAA airworthiness regulations related to structures design and certification.
3. Materials & Processing - Working knowledge of material processing for aerospace metals (e.g., welding, forging, extrusion, heat treat, machining, forming of Aluminum, Titanium etc.), polymers and composites (e.g., autoclave curing, lay-up, co-curing, repair), sealants and finishes processing (e.g., plating, painting, surface preparation, fay surface sealing, fillet sealing). Such experience could be through supplier interactions.
4. Proficiency in creating designs using CATIA V5 highly desirable.
5. Managerial, Project Management or Supervisory experience a plus.
6. Experience with Six Sigma/Lean / Process Improvement a plus.
7. Ability to “think outside the box” and be innovative is a critical skill. This is truly a requirement for this position and not just a cliche!
8. U. S. Citizenship / Permanent Residency (Green Card) required.
9. Total team player. Ability to work with multiple groups with diverse backgrounds and viewpoints is a must.

Please send resume to emabie@rtiintl.com

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**Job Opportunity: Process Development Engineer – Titanium Group**

Do you enjoy working with the latest and greatest technology? Are you well versed in titanium machining, including research and development? Are you seeking an opportunity that will earn you experiences, skills and knowledge that will lead to a reputation as a leading expert in titanium machining?

Makino, an international leader in the advanced machining technology industry, is looking for a Process Development Engineer for their Titanium Group. Based in Mason, Ohio, this role is a key member of a group of machining experts focused on the rapidly growing titanium machining market that includes aerospace, medical, defense and other applications requiring high-technology and precision.

The Process Development Engineer is responsible for all aspects of titanium machining research and development utilizing a state of the art training center and Integration Bay in the company’s Global Titanium Research and Development Center. This role will focus on continually enhancing Makino’s competitive advantage and profitability in the titanium market.

Responsibilities include:
- Leading research and development activities for titanium machining to directly drive enhanced profitability.
- Interacting professionally with customers and employees at all levels of the organization.
- Interacting frequently with both internal and external customers to provide operational, optimization and troubleshooting solutions.
Classified Ads

- Participation in customer training, industry seminars and other technical information sharing events.

Qualified Candidates should have excellent presentation skills, be a team player and a self-starter, and have:
- Extensive experience (including hands-on technical) with titanium machining in highly engineered applications is required. Horizontal machining applications a plus.
- Technical degree in Mechanical Engineering, Engineering Technology, Manufacturing Engineering or a similar manufacturing technology is preferred.
- Minimum 3 years experience in both manufacturing engineering and process development.
- Previous experience with CAD and/or CAD/CAM engineering software, such as AutoCAD, CATIA, Solid Works, is desired.
- Team player with ability to manage time and projects effectively.
- Excellent communication skills, both verbal and written, including technical writing.
- LEAN / Six Sigma training and certification is a plus.
- Solid business acumen with a direct customer focus and the ability to create and deliver strong presentations and conduct training for a variety of audiences.
- Ability to obtain a passport and other travel documentation as needed.
- Willingness to travel, domestic and international (up to 30%), as required.

Makino is a world leader in metal cutting and manufacturing technology. At Makino employees enjoy a stable environment from a company with years of success and growth in the machine tool industry. We offer competitive pay, generous benefits and ongoing training.


Metallurgical Engineering & Technician Staff

Expansion at Dynamet Technology in development and production of its advanced titanium powder metal materials and components is creating staff positions for additional metallurgical engineering and technician staff. A powder metal background and/or a titanium research and manufacturing background is desirable. Exceptional capability in writing technical reports and compelling research and development proposals is a requirement for engineering and science positions.

Individual creativity with team work interest would be a good combination.
Send brief resume to:
mabkowitz@dynamettechnology.com

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Thank you for your continued support. Every issue of the TITANIUM Update Newsletter will recognize members that have renewed their investment with the International Titanium Association.

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- ThyssenKrupp VDM GmbH
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- Wellmet International Inc
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**5-9 Years**
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- AlloyWorks, LLC
- American Titanium Works LLC
- Avon Metals Ltd
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- Baoji Titanium Industry Co., Ltd
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