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Titanium 2006
22nd Annual Conference & Exhibition
San Diego, California

Article written by Ed Kraft, EHKTechnologies – For three years in a row, optimism has prevailed at the ITA annual conferences. While perhaps guarded in 2004, this outlook became strong in 2005. At this year’s Conference in San Diego, there may have been a few clouds in the sky, but the only frowns on faces of the attendees was with regard to how to supply the increasing demand forecast. Another attendance record was set as 1,020 delegates from over 26 countries gathered for formal presentations and informal discussions. Another record was set with the 56

Allegheny Technologies and Boeing Sign Long-Term Titanium Products Supply Agreement

PITTSBURGH, PA -- Oct. 16, 2006 - - Allegheny Technologies Incorporated (NYSE: ATI) announced today that it has signed a long-term agreement with The Boeing Company (NYSE:BA) for the supply of titanium products for commercial aerospace applications. The expected total revenue under the agreement at base prices from 2007 through 2015 is approximately $2.5 billion. The aerospace titanium mill products covered by the agreement include ingot, billet, bar, rectangle, plate, and sheet.

“We are pleased to be a key contributor to Boeing’s long-term commercial aerospace growth plan,” said Patrick

Vladislav Tetyukhin, General Director of VSMPO – AVISMA Corporation (Verkhnaya Salda, Sverdlovsk Region) Announced the Company’s Development Program Through 2012

October 30, 2006 - Vladislav Tetyukhin confirmed the Company’s current plan to expand titanium sponge production capacities up to 44000 MT by 2010 and announced the Company’s goal to reach 56000 MT by 2012. This year AVISMA plans to produce 32000 MT of titanium sponge.

This increase in titanium sponge production is determined by the increase in output of titanium products to support the requirements of the Company’s

Boeing Starts Production of Wing Set for 100th F-22 Raptor

ST. LOUIS, Oct. 30, 2006 -- The Boeing Company [NYSE: BA] this week began assembling the wings for the U.S. Air Force’s 100th F-22 Raptor at the company’s Developmental Center in Seattle.

“I’m proud of this team’s perseverance in applying Lean Enterprise principles to the Raptor manufacturing process,” said Paul Bay, Boeing vice president and F-22 program manager. “Since delivering the first set in November 1996, we’ve reduced the time it takes to build a set of wings by more than 45,000 man-hours and cut cycle time by 70 percent.”
Army Fields Its First Light-weight Howitzer

Article written by Edward Murray and Martin Kane, The Picatinny Voice-PICATINNY ARSENAL, N.J. (Army News Service, Oct. 31, 2006) – With the recent delivery of eighteen new M777 lightweight 155mm howitzers to the Army’s 2nd Battalion, 11th Field Artillery, at Schofield Barracks, Hawaii, the King of Battle — the field artillery’s nickname — took a giant step forward.

The M777 is the military’s newest field artillery weapon, a lightweight 155mm towed howitzer developed jointly by the Army and Marine Corps. It will be the artillery system for the Army’s Stryker Brigade Combat Teams.

The program is managed by a joint-service program office here. The weapon systems themselves are manufactured by BAE Systems with final integration and assembly occurring at the firm’s Hattiesburg, Miss., facility.

The M777 is the first ground-combat system to make extensive use of titanium in its major structures to trim weight; the howitzer is 7,000 pounds lighter than the M198 weapon it replaces.

“The weight reduction improves transportability and mobility without impacting range or accuracy,” said Joint Program Manager James Shields.

Shields said the system will be compatible with the entire family of 155mm ammunition, including the Excalibur precision munition when it is eventually fielded.

The 2-11 FA is part of the Army’s fifth Stryker Brigade Combat Team. It recently completed new-equipment training and a live-fire battalion exercise using the basic M777 system at Pohakuloa Training Area on the Big Island of Hawaii.

Prior to receiving the M777, the 2-11 FA was an exclusively 105mm battalion that was equipped with the M119 howitzer.

The M777 has the deployability advantages of lightweight system like the M119, but the firepower of a 155mm weapon like the larger M198. Two systems can be transported on a C-130 at the same time.

The new howitzers have returned to Schofield Barracks, where they will be retrofitted with a digital fire control system (DFCS) in January to become M777A1s. The DFCS will provide the howitzer with the capability to communicate, navigate and aim, an upgrade that will increase accuracy and responsiveness.

Soldiers from 2-11 FA said they were pleased with the new weapons and look forward to the added capabilities provided by the DFCS upgrade. For more information visit http://www4.army.mil.

Solar Atmospheres Buys Two Car Bottom Furnaces, Continues Growth

Souderton, PA- As Solar Atmospheres continues to expand its heat treating business, new furnaces must be built to keep up with the demand. Increased production loads from titanium, petro-chemical, aero-space, and industrial customers have led Solar to purchase a third 50,000lb capacity, 24’ deep, car bottom vacuum furnace that will be installed in Solar’s Western Pa. plant. Designed and built by Solar Manufacturing, the furnace is high vacuum, pumped with dual 48” high vacuum valves and 35” Varian high vacuum diffusion pumps. With a combined pumping capacity of 100,000 Li/sec, the specialized furnace has the ability to fully degas materials like Ti6-AL-4V into the low ppm range. High vacuum performance is in the low 10-5 Torr range at process temperature.

In a separate announcement, Roger A Jones, Corporate President, states the order placement of a fourth car bottom vacuum furnace, with the same specs as previously mentioned. According to William R. Jones, CEO, “Solar is currently looking for a plant site in southern California as a home for this fourth furnace, specifically to service the aero-space and related markets.” This market placement will undoubtedly see the need for more furnaces in the future and the growth of the largest independently owned vacuum heat-treater in the USA. For more information contact Bob Lacock at 215-721-1502.
VSMPO A nnounced the Development Program Through 2012 - - Continued from page 1

strategic partners both in Russia and abroad.

The development program of AVISMA (Berezniki, Perm Area) provides for construction of new titanium sponge production facilities and development of infrastructure to ensure regular power supplies. They plan to invest approximately $300 mln. in AVISMA within the next five years.

Processing capacities of VSMPO (Verkhnaya Salda, Sverdlovsk Region) will be considerably developing.

“We continue to expand capacities involved in production of high-value added products to remain competitive in the changing market conditions,” said Vladislav Tetyukhin at the meeting with the senior managers.

He also commented on the emergency shutdown of one of the mines of OAO Uralkali (Berezniki, Perm Area) which is the major supplier of carnallite ore to AVISMA. Now all the risks that could potentially impact AVISMA production are removed due to the actions undertaken by the special commission.

Those actions included signing of an agreement with an alternative source – OAO Silvinit, located 30 kilometers far from AVISMA in Solikamsk, Perm Area, to supply raw materials in the amount required to fully load the production capacities. Now the raw materials are being supplied to AVISMA by trucks.

In order to completely prevent all potential risks related to supplies of carnallite to AVISMA in the future we will use both sources, i.e. OAO Silvinit and OAO Uralkali. This supply route will be worked out within the next two years.

Titanium 2006 22nd Annual Conference & Exhibition - - Continued from page 1

presentations over the two days in general and concurrent sessions. The exhibition hall, with 43 exhibitors, provided a forum for supplier-customer discussions as well as networking among the delegates.

Increasing demand was forecast by virtually all user industries. Timothy G. Rupert, President and CEO of RTI International Metals, Inc. provided a summary of world industry trends. He estimated total world demand at just over 90 thousand metric tons (KMT) in 2008 / 2009, and rising to over 135 KMT by 2015. This demand was composed the following amounts in the same time periods: just over 35 KMT rising to around 58 KMT for commercial aerospace; 45 KMT rising to nearly 64 KMT for industrial and consumer markets; around 11 KMT rising to just over 18 KMT for defense applications. Other speakers presented different forecast numbers, but with the same growth optimism. Only slightly lower demand was forecast for commercial aerospace by John P. Monahan, President of VSMPO Tirus US. His presentation showed that twin aisle aircraft would constitute 80% of the Ti consumption by 2013, with nearly that same percentage of consumption required for airframes and the remainder for engines.

Thomas E. Williams, President of ATI Allvac, however, pointed out that this demand for jet engines represents an increase of around 50% between 2005 and 2009.

As in past years, the most detailed view to specific applications demand was provided for the Japanese and European markets. Kazuharu Nogami, President of Toho Titanium Co., Ltd. and the Japan Titanium Association showed that in Japan, the largest market in 2005 was power plants at 18%, but this has been decreasing. Other, growing markets in Japan in 2005 were plate heat exchangers (PHE, 16%), distribution (16%), soda electrolysis (9%) and automotive (8%), with overall shipments just over 18 KMT.

Mr. Nogami also explained that the strong world market has caused a shift to increasing sponge shipments and unwrought material export, with a decrease in mill product shipments. This shortage in mill products has caused a switch in materials from titanium to super stainless steel and cupronickel for welded tubing and to stainless steel for sheet in some applications.

Markus Holz, Managing Director of Titania S.p.A. described steady growth of mill product shipments in Europe from 20 KMT in 2005 to 25.5 KMT in 2011. Industrial applications are expected to become the largest

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What’s New in Titanium?

Boeing Starts Production of Wing Set for 100th F-22 Raptor - Continued from page 1

Boeing manufacturing engineers streamlined production in late 1999 when they developed new tooling that utilizes a built-in overhead handling system. The new tool also improved wing quality, allowing more rapid and even application of pressure as the upper and lower wing skins are matched to the substructure. This reduced variability and ensured a better overall fit.

During assembly, a caulk-like substance is applied to the skin and pressure is exerted to fill in any gaps between the skin and substructure. With the new tool, air bags inflate and apply uniform pressure, eliminating the need for 400 temporary fasteners.

Designed entirely with a computer-aided design application, the wings are made primarily of titanium and graphite composites. They are capable of withstanding supersonic speeds for extended periods of time and extremely “high-g” maneuvers. Each Raptor wing measures approximately 16 feet (side of fuselage) by 18 feet (leading edge) and weighs about 2,000 pounds.

The wing set is scheduled for delivery in December to teammate and prime contractor Lockheed Martin [NYSE: LMT], which recently delivered the 81st F-22 to the Air Force, with 26 additional Raptors currently on contract. The fighter is assigned to four U. S. bases: Testing is conducted at Edwards Air Force Base (AFB), Calif.; tactics development takes place at Nellis AFB, Nev.; pilots and maintenance teams receive training at Tyndall AFB, Fla.; and operational F-22s of the 1st Fighter Wing are assigned to Langley AFB, Va.

The F-22 Raptor is built by Lockheed Martin in partnership with Boeing and Pratt & Whitney. In addition to the wings, Boeing supplies the aft fuselage, integrates and tests the advanced avionics and has responsibility for the pilot and maintenance training systems. Parts and subsystems are provided by approximately 1,000 suppliers in 42 states. F-22 production takes place at Lockheed Martin Aeronautics facilities in Palmdale, Calif.; Meridian, Miss.; Marietta, Ga.; and Fort Worth, Texas, as well as Boeing’s Seattle plant. Final assembly and initial flight-testing of the Raptor occur at the Marietta facilities.

Headquartered in Bethesda, Md., Lockheed Martin employs about 135,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The corporation reported 2005 sales of $37.2 billion.

A unit of The Boeing Company, Boeing Integrated Defense Systems is one of the world’s largest space and defense businesses. Headquartered in St. Louis, Boeing Integrated Defense Systems is a $30.8 billion business. It provides network-centric system solutions to its global military, government and commercial customers. It is a leading provider of intelligence, surveillance and reconnaissance systems; the world’s largest military aircraft manufacturer; the world’s largest satellite manufacturer; a foremost developer of advanced concepts and technologies; a leading provider of space-based communications; the primary systems integrator for U.S. missile defense; NASA’s largest contractor; and a global leader in sustainment solutions and launch services. For more information contact Doug Cantwell, The Boeing Company, (206) 662-0949, doug.cantwell@boeing.com.

DuPont to Invest USD 30 Million in Titanium Tetrachloride at New Johnsonville

DuPont will invest USD 30 million at its New Johnsonville, Tenn., titanium dioxide plant to install a new purification unit to make titanium tetrachloride. The new unit is expected to begin operations in the summer of 2008. DuPont’s unique titanium dioxide manufacturing technology allows the company to increase titanium tetrachloride production without affecting the company’s capacity to produce titanium dioxide at New Johnsonville. DuPont is the world’s largest manufacturer of titanium dioxide, a white pigment widely used in the coatings, plastics and paper industries.

DuPont will supply up to 100 million pounds of high purity titanium tetrachloride annually to Allegheny Titanium’s new titanium metal plant in Toole County, Utah, which will make approximately 10,000 tons of titanium metal per year. Allegheny Titanium is a subsidiary of Allegheny Technologies, Inc.

“This is a real milestone for our new and growing titanium tetrachloride business and a boost for America’s capability to make vital strategic material,” said Rick Olson, vice president and general manager, DuPont Titanium Technologies. “While we’re focused on titanium dioxide as our core business, we are aggressively expanding into a number of related technologies such as this.”

Titanium tetrachloride is an intermediate chemical
What’s New in Titanium?

produced during the early steps of the chloride process of manufacturing titanium dioxide. In addition to its use in titanium metal manufacturing, it is essential to the production of certain plastics as well as films used in shopping bags and a broad spectrum of consumer products. The chemical also has specialized applications in pearlescent and metallic pigments used in products ranging from cars and cosmetics to bicycle helmets. Titanium metal is being used increasingly in everything from airplanes to sporting goods and chemical processing equipment. For more information visit their website at www.2.dupont.com.

$20,000 Award to be Presented at TITANIUM 2007 “Titanium Application Development Award”

The International Titanium Association (ITA) is seeking nominations for an individual, group of individuals or organization within the titanium industry who has shown significant achievement towards improving and expanding the use of titanium. This award is intended to distinguish and remunerate commendable work in an area too little rewarded. An appropriately inscribed plaque will be presented along with the monetary award of $20,000 at the ITA Annual Meeting held during the ITA TITANIUM 2007 Conference in October.

Because the nomination power is held exclusively for ITA members it is important for ITA members to participate in this program. Members are entitled to suggest any person(s) within the titanium arena (ITA member or non-member) who would be considered an excellent choice for receiving this valued award. Companies may decide to nominate several different candidates for consideration.

Possible candidate(s) qualifications and considerations may be:

- Significant achievement towards improving and expanding the use of titanium
- Promoting titanium products into new applications or enhance the performance of titanium in an existing application
- Unveiling a technical breakthrough that specifically expands the use of titanium
- Inaugurating or influencing outstanding research or marketing programs leading to the expansion of the titanium market or titanium products.
- Initiating or creating important new and imaginative uses for titanium

All nominations will be presented to the ITA Grant Committee. Please include any supplemental materials that would be beneficial for the committee to review in determining the final nomination selection. A valid nomination will consist of a Biographic Sketch, current curriculum vitae of nominee and other information, and Why they should be the recipient of the award. For more details of the award, eligibility, and nomination process please visit the ITA website at www.titanium.org.

Allegheny Technologies and Boeing Sign Long-Term Continued from page 5

Hassey, Chairman, President and Chief Executive Officer of Allegheny Technologies. “ATI is investing to grow our titanium sponge, melting, and finishing capabilities to help meet the robust global demand for titanium products. Through this long-term agreement ATI becomes a major supplier to The Boeing Company.

“As a key supplier to the aerospace markets for nearly 50 years, ATI has consistently invested in technological innovation and improvement in quality and customer support systems. ATI’s position as a secure and reliable producer coupled with our strategic growth initiatives allows us to fully support our aerospace jet engine customers and provide significant growth for ATI’s aerospace titanium products to the airframe market.”

Allegheny Technologies previously announced capital investments for titanium sponge and further expansion of its titanium melt and finishing capabilities for both long products and flat-rolled products. For more information please contact: Dan. L. Greenfield at (412) 394-3004.

This news release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are based on management’s current expectations and are subject to uncertainties and changes in circumstances. Actual results may differ materially 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 Allegheny Technologies’ 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™ - Allegheny Technologies Incorporated is one of the largest and most diversified specialty metals producers in the world with revenues of $4.0 billion during the most recent four quarters ending June 30, 2006. ATI has approximately 9,300 full-time employees world-wide who use innovative technologies to offer growing global markets a wide range of specialty metals solutions. Our major markets are aerospace and defense, chemical process industry/oil and gas, 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, stainless and specialty steels, zirconium, hafnium, and niobium, tungsten materials, grain-oriented silicon electrical steel and tool steels, and forgings and castings. The Allegheny Technologies website is www.alleghenyspecialty.com.
What’s New in Titanium?

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market segment during this period, with steady year over year growth, from 9.4 KMT in 2006 to 12.2 KMT (48%) by 2011. While growth in commercial aerospace will occur, fluctuation will result in a market of 10.8 KMT (42%) by 2011. The top industrial markets in Europe in 2006 are PHE at 2.9 KMT (31%), power at 1.5 (13%), distribution at 1.5 KMT (16%) and chemical at 1.2 KMT (13%), all of which are expected to grow.

The raw material supply side of the materials balance has been one of the primary difficulties in the current shortage situation. Judith Chegwidden, Managing Director of Roskill Information Services Ltd. provided a view to the sponge supply outlook. She indicated that while world sponge capacity utilization was only at 75% in 2003, it rose to 97% in 2005, and with capacity increases, is expected to fall only slightly to 93% in 2006. World capacity in 2006 is estimated at 136.8 KMT: China, 22 KMT (16%); Japan, 39 KMT (28.5%); Russia, 32 KMT (23.4%); USA, 12.3 KMT (9%); Kazakhstan, 23 KMT (16.8%); Ukraine, 8.5 KMT (6.2%). While some capacity will be added in some countries in the near future, by far the greatest increase is expected in China. By 2010, if these announced capacity additions all occur, China will become by far the largest producer, at around 121 KMT, or approximately 42% of the total of around 285 KMT. An intended new plant in India could add another 10 KMT to this capacity. Sylvain Gehler, Managing Director of Specialty Metals Company provided a similar estimate of sponge capacity for 2005, but a much more conservative estimate for 2010 of around 180 KMT. The likely difference in 2010 estimates is the uncertainty in future Chinese capacity. It will be of great interest to follow the actual capacity expansion, the quality of sponge available, the actual demand increase, and how these factors result in a new availability and pricing balance.

The situation with availability of scrap is much less well understood, and more complicated than that for sponge. Edward J. Newman, Senior Vice President of Keywell LLC provided a brief view of this resource, indicating that in 2006, after a period of severe competition from the steel industry, the prices for ingot quality scrap have risen to the point where it is less affordable to the ferrotitanium industry, and therefore more available to the titanium industry.

A series of concurrent sessions offered attendees the opportunity to listen to presentations on markets of their primary interest. For military applications, reducing cost has been a recurring theme. In separate presentations, Brijmohan Roopchand, Materials Engineer and Stephen L. Luckowski, Chief Engineer both of the US Army, described the potential for titanium in ground vehicles and discussed to obstacles and approaches to cost reduction being applied. Alternatives to Kroll sponge continue to be evaluated, as well as single melt material. Properties of the single melt material have been found to be similar to conventionally processed alloys. Cost of fabrication is also being addressed with casting technology and new welding techniques. The advantages and obstacles to titanium use in Navy applications was discussed by Ernest Czyryca, Materials Engineer at the NSWC - Carderock Division who described several applications and the fabrication cost reduction efforts underway to permit increased use. Welding was also the subject of a dedicated session, where electron beam and friction stir welding were discussed, along with hydrogen effects.

As at past ITA conferences, the market for titanium in offshore and chemical processing also received serious attention in San Diego. Four papers, from material producers, an engineering firm and a final user were presented. The current and potential applications of titanium in offshore application, and the issues to be addressed to secure service were discussed by Terry M. Lechinger, Development Director / Quality Assurance Manager of Stress Engineering Services., Inc. Alloys for the oil and gas industry and power plants were discussed by Jonathan Parry, Senior Completion Engineer of Chevron Energy Technology Company with James S. Grauman, Applications Development Manager Corrosion and Analytical Services of Timet, and by Dennis J. Schumerth, Manager - Titanium Products & Western Regional Sales of Valtimet respectively. Emerging markets were also again featured in numerous presentations. Gary R. Nemchock, President of Architectural Titanium presented the annually anticipated survey of buildings being constructed or planned with significant titanium features. The survey started with the newly dedicated Denver Art museum, and proceeded through a total of 30 projects, and concluded with presentation of a video clip on the new American Express machined Black Titanium Centurion Card for selected members worldwide. Other emerging and growing markets discussed included orthopedics, dental implants and jewelry. Takashi Yashiki, Dr. Eng. Manager R&D Market Development of Kobe Steel discussed a new area of development, that of use of Ti as the separator material.

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Inside ITA

2007 Trade Shows

The ITA will exhibit at the following tradeshows in 2007:

**MD&M East**
February 13-15
Anaheim, California USA

**NACE Corrosion2007**
March 11 - 15
Nashville, Tennessee USA

**Offshore Technology Conference**
April 30 - May 3
Houston, Texas USA

**11th International Conference on Titanium**
June 3-7
Kyoto, Japan

**Aeromat**
June 26 - 27
Baltimore, Maryland USA

As a member of the Association you have a unique opportunity to promote the titanium industry by volunteering your time. Volunteers personally gain the benefit of being able to network with potential customers as well as participate in the show. Promote your organization as well as the Association by assisting with answering basic technical questions and hand out literature. At each tradeshow ITA will distribute Titanium literature. All volunteers receive a complimentary exhibition badge for the duration of the show.

Interested volunteers please contact Stacey Blicker at your earliest at sblicker@titanium.org or call (303) 404-9400.

Titanium Statistical Review 2001-2005 (pdf format)
Now Available

The Statistical Review is a compilation of titanium statistics, organized by the ITA from government and trade association data. The publication includes a full range of industry statistics including Canada, China, European Union, Japan, Russia, Taiwan, and USA.

Published annually, the Statistical Review includes information from the new Harmonized System.

Members: FREE      -     Non Members: $75.00 U.S.

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2006 Buyers Guide

The 2006 Buyers Guide is a comprehensive directory of the who, what and where of the titanium metal industry. It contains first hand and up-to-date information supplied directly by the participating companies. The material is organized and cross-referenced in eight separate sections, designed to respond to your particular information needs.

Members: $15    Non-Members: $20

Order your Titanium Buyer’s Guide online at www.titanium.org.

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TITANIUM 2006 - Conference Proceedings CD ROM


Members: $75.00 U.S.
Non Members: $125.00 U.S.
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in polymer electrolyte fuel cells. The advantages of Ti over materials such as graphite and stainless steel include strength, toughness, formability and corrosion resistance. These fuel cells are expected to reach a volume in autos of 300,000 per year in 2020, with each vehicle requiring 40kg of titanium.

Emerging technologies again commanded attention as the necessity for cost reduction becomes more and more apparent. New powder production processes were again described. Alan Bissell, Chief Commercial Officer of Metalysis Ltd. described the newly focused effort on the FFC Cambridge Process, and the incorporation of work formerly done by BHP Billiton into that effort. Grant Wellwood, Senior Research Engineer of CSIRO Minerals described progress on their Mg-TiCl4 reaction process. Stanley S. Borys, Chief Executive Officer of International Titanium Powder (ITP) discussed the progress of commercialization of the Armstrong process, which reacts TiCl4 vapor in a flowing stream of molten sodium. Significant progress in quality of powder as well as application projects for this ITP powder were described, along with status of the establishment of the first commercial scale plant. Presentations on new materials, and processes, such as cold hearth melting, V free beta alloys, composites, cold forging and alloys for composite aircraft rounded out the program.

Another year has passed, and previous optimism has been shown to be justified by an ever expanding market and significant current and forecast additions to the supply capacity of the industry. While current supply is tight and prices high, new materials and manufacturing technologies promise to enable the realization of many new markets. There is no reason not to expect even more optimism when ITA meets again next year on October 7 – 9, 2007, in Orlando, Florida. Make plans now to share in the growth of this exciting industry by participating in this next Annual Conference and Exhibition.

Conference proceedings are now available. To order, visit the publications section of the ITA website at www.titanium.org or contact ITA at ita@titanium.org. Ed Kraft may be reached at EHKTechnologies at ekraft@ehktechnologies.com. Tel: 01-360-896-0031, website www.ehktechnologies.com.

Calendar of Events

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<td>Stainless Steel World Solutions USA Conference &amp; Expo, Houston, Texas USA</td>
<td>19th Annual Performance Racing Industry Tradeshow Orange County Convention Center, Orlando, Florida USA</td>
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Lost & Found:

During the TITANIUM 2006 Annual Conference and Exhibition, a pair of sunglasses were turned into the ITA registration desk. If you are missing your sunglasses please contact the Association at (303)404-2221.

CLASSIFIED ADS

Advertise: Equipment, Materials, Products, or Business Opportunities. ITA members place Classified Ads for free. Contact ITA at (303) 404-2221 for details.

MATERIALS FOR SALE

**HIGH QUALITY 6-4 sheets, AMS4911, ASTM B 265, and Mil-T-9046**

Affinity International has the following material in high quality and at a very competitive price:

- 6-4 sheets, AMS4911, ASTM B 265, and Mil-T-9046.
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- 0.063” x 36 x 96  0.071” x 36 x 96  0.090” x 36 x 96

Contact: John Li, Affinity International Telephone: 626-935-5588, Fax: 626-912-3578, Email: john1098@adelphia.net

**Ulbrich Stainless Steels and Special Metals, Inc.**

Ulbrich Stainless Steels and Special Metals, Inc. is a supplier of custom rolled titanium strip, flat and shaped wire. Ulbrich stocks an array of titanium alloys: Ti A35, Ti A40, Ti A55, Ti A70, Ti 3-2.5, Ti 15-3-3-3 and Ti Beta 21S.

Recent capital expenditures allow Ulbrich to produce ultra light foils starting at .002 and far below. Another essential
expenditure provides Ulbrich with the ability to ship light foil gauges in coils up to 150PIW. Besides titanium, Ulbrich stocks a variety of stainless steels and special metals.

MATERIALS WANTED

Looking for Excess Usable Inventory
North American Alloys is looking to buy excess usable inventory, remnants, scrap or recycle in all titanium alloys. Call us today for a prompt and competitive bid.

Contact: Michael Shulimson
Telephone: 818-890-2250 or 800-985-2250
Fax: 818-890-7102
Email: m.shulimson@att.net
Steven Meredith
Telephone: 509-586-8848 or 800-985-2250
Fax: 509-586-4943
Email: steve@northamericanalloys.com

SERVICES

New Mineral Liberation Analyzer (MLA) Services
Providing high quality metallurgical solutions to industrial clients worldwide for over 15 years. Provides automated accurate, quantitative, mineralogical and materials analysis. The only available U.S. commercial installation!
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Pyrometallurgy
Fire Assay Services And Training
Process Simulation And 3-D Modeling
Hydrometallurgy
Mineral Processing
Environmental Applications
Materials Science And Engineering

The Center for Advanced Mineral & Metallurgical Processing, Department of Metallurgical and Materials Engineering. Contact: Dr. Corby Anderson, Director, canderson@mtech.edu, Dr. Paul Miranda, Process Engineer, pmiranda@mtech.edu, or Mr. John Krstulich, Project Engineer, jkrstulich@mtech.edu.

Duty Drawback Recovery
International Drawback Services (IDS) is one of the largest companies specializing in duty drawback. Duty Drawbacks are among the most valuable, yet most overlooked resource in the import/export industries.

- Duty-rated material is eligible for Drawback recovery.
- IDS can recover refunds on duties you paid up to 5 years ago.
- Even companies with no direct import or export activity can benefit from Drawback recovery.
- As a neutral 3rd party, IDS is bound by strict confidentiality agreements.
- IDS is compensated by commissions based solely on the recovery of duties.

Please call 281-395-6633 or visit www.idrawback.com for more information

Decisive Analysis
Assisted strategic planning through analysis and modeling of technology and business that enables companies to achieve competitive advantage.

Get Strategies for maximum return on IP investment. Strategies for emerging technology development and commercialization, Acquisition strategies leveraging core competencies, New market opportunity and strategies for existing technology, Evaluation of risks and rewards of strategic development initiatives

What are our areas of expertise? Technology: Materials Engineering, Project Management, Technology Assessment, Production Feasibility, Cost Assessment
Market Development: Applications Research, Market Research / Analysis, Commercialization Strategy, Product Positioning

For Expert Assistance in Achieving Competitive Advantage
Contact: Edwin H. Kraft, Ph.D., EHKTechnologies, 2103 NE 152nd St., Vancouver, WA 98686
Ph. 360-896-0031
ekraft@ehktechnologies.com
www.ehktechnologies.com

Thintri Market Study
Thintri Inc. provides business and market intelligence for a wide range of technologies through custom consulting, technology assessments, and published market studies. For more information on the report, The Titanium Age: Supply Constraints and New Markets, see the Thintri web site at www.thintri.com.
Current Membership Includes the Following Companies

Accushape Inc.
ACI Industries, Ltd.
Aerodyne Alloys LLC
Affinity International LLC
Alcoa Investment Cast & Forged Products
Allegheny Technologies Incorporated
  ATI Allegheny Ludlum
  ATI Allegheny Rodney
  ATI Allvac
  ATI Europe
  ATI Wah Chang
AlloyWorks LLC
Avon Metals Ltd
Baoji Titanium Industry Co Ltd
Bayern Software
BIBUS Metals AG
Body Cote
C&L Development Corp.
Cefival
Center for Advanced Mineral & Metallurgy
CONSARC Corporation
Corrosion Materials
Deutsche Titan GmbH
DGA / CTA
Dolphin Inc
Dupont Company
Dynamet Incorporated
Dynamet Technology Incorporated
Dynamic Flowform
EHK Technologies
ELG Metals, Inc.
Euro-Titan Handels AG
Excelco Developments Inc.
F. W. Hempel & Company
FAE SA
Form & Technik GmbH
Fort Wayne Metals
FRIGGI s.r.l.
G&S Titanium, Inc.
GFE Metalle und Materialien GmbH
GIB Resources Incorporated
Grandis Titanium
Harvey Titanium Limited
Heraeus Incorporated
Hi Tech Alloys
High Performance Tube Inc.
Hong Kong Forest Source Mining
  Industry Holding Company Limited
Horie Corporation
Hyundai Titanium Company, Ltd.
ICE-Innovative Custom Engineering
International Drawback Services
International Titanium Powder
Jamegy Incorporated
Jinan Xinhaitong Special Alloy Co, Ltd.
KASTO-RACINE
Keywell LLC Vac Air Division
Long Island Titanium Inc.
Luxembourg Company of Metals & Alloys SA
Medart Inc.
Metal Management Aerospace
Metem Corporation
Monico Alloys Incorporated
Norsk Titanium AS
North American Alloys
Nu-Tech Precision Metals Inc.
Oxford Instruments
Pacific Cast Technologies, Inc.
Perryman Company
Pine Tree Castings/Ruger Investment
Plymouth Engineered Shapes
President Company, Ltd.
President Titanium Incorporated
RathGibson
Reading Alloys Incorporated
Renton Coil Spring Company
Retch Systems LLC
RJ Enterprise Inc.
Rome Metals LLC
Roskill Information Services Ltd.
RTI International Metals, Inc.
  RTI Claro
  RTI Energy Systems
  RTI Fabrication
  RTI Titanium Company
S. Letvin & Son, Inc.
Sandvik Materials Technology
Sandinox Comercio
Service Steel Aerospace
Shanghai Huaxia Industry Co. Ltd
Small Tube Products
Snap On Tools (Bahco)
Solar Atmospheres, Inc.
Specialty Metals Company
Specialty Metals Processing Company
Spectore Corporation
S pemet Company Limited
S-Tech Corp.
STRATCOR, Inc.
Strohecker Incorporated
Sumitomo Corp of America
Sumitomo Titanium Corporation
Supra Alloys Incorporated
T.M.P. Titanium Mill Products Ltd.
Thermo Electron Niton Analyzers
THINTRI, INC.
TiBrasil Titanio LTDA
TICO Titanium Incorporated
TIMET, Titanium Metals Corporation
LOTERIOS SpA
TIMET Automotive
TiNOMICS Inc.
TIODIZE Co., Inc.
Titania S.p.A.
Titanium Engineers Incorporated
Titanium Fabrication Corporation
Titanium Finishing Company
Titanium Industries Incorporated
Titanium International Fabricators (Pty)
Toho Titanium Company, Ltd.
Trans World Alloys Company
Tricor Industrial Incorporated
TSI Titanium
Ulbrich Stainless Steels & Special Metals
United Alloys & Metals, Inc.
United Titanium, Inc.
Unison
Uniti Titanium
Vacuum Process Engineering
VALTIMET
Verichek Technical Services Inc.
VSMPO Tirus US
N F & M International Inc.
Vulcanium Metals Incorporated
Wellmet International Inc.
Western Smelting & Metals
West Penn Service Group
Westmoreland Mechanical Testing & Research
Wikus Saw Technology Corp.
Xi’an Bossin New Material Co. Ltd.
Zak Inc.

Founded in 1984 the International Titanium Association is a nonprofit networking trade association for the titanium industry. Current membership includes 140 organizations.