Official Publication of the
International Titanium Association
PRESIDENT’S LETTER

Welcome to the International Titanium Association!

The titanium industry is in the midst of a significant era of growth in all titanium consuming markets. Titanium products have seen demand increases in our traditional aerospace and industrial markets and in addition; titanium is being consumed in new emerging markets across a broad array of applications. The inherent benefits of titanium – lightweight, high strength, biocompatibility, and corrosion resistance, make it a wonderful metal to solve many design problems. Market expansions, driven by worldwide infrastructure development, as well as new trend setting, energy efficient aerospace designs, are generating new opportunities for our members and the industry as a whole.

Similarly the International Titanium Association has continued to grow and offer our members additional support and services to assist in their business endeavors. Our new on-line library and technical training classes, combined with networking opportunities to reach consumers, suppliers and vendors, further enhances the value of your membership. Our annual meeting in Scottsdale, Arizona will be bigger and better than any in recent history - we look forward to seeing you there.

Please stop by and visit with our associates to learn more about the ITA, or visit our website at www.titanium.org to view the variety of information and services we provide. We are here to assist in your business success. Give us a call.

Sincerely,
Mark S. Kamon
Dynamet Incorporated
President of International Titanium Association

CHAIRMAN’S LETTER

Welcome to the 2005 ITA Conference & Exhibition and thank you for making it the largest ever.

This year, 46 exhibitors will have their wares on display in 15,000 square feet of space. Two hotels, Marriott’s Camelback Inn and the Hyatt Regency at Gainey Ranch, will accommodate over 630 attendees, including visitors from at least 18 countries. Shuttle busses will operate between the hotels to help you get around. A bus schedule has been included in your registration packet.

We’re excited about this year’s conference and have adjusted its format to provide as much information as possible to you. For example, two major speakers are scheduled: Mr. Frank Doerner, Managing Director of Structural Technology for Boeing’s Phantom Works, will be our keynote speaker at noon Monday and Mr. John Walsh, President, Walsh Aviation, will kick off Tuesday’s session. Both will provide insight and perspective about the use of titanium in aircraft and the growth of the aerospace industry. These are but two of the interesting and informative presentations that will be made throughout the conference. In fact, there are so many presentations this year, we’ve started the conference an hour earlier than usual. While doing so, you’ll find that ample time for networking has been planned into the schedule.

The conference will end with a Gala Dinner hosted by Allegheny Technologies at Mummy Mountain. This will be a boots, jeans and casual attire cookout in an Old West setting.

No conference of this magnitude can be planned without talented and dedicated people paying attention to every detail. We’re fortunate to have Jennifer Simpson, ITA Executive Director, and Stacey Blicker, Member Services Administrator, doing this work for us. Both deserve credit for all the things they do each year to make our annual conference a success. Don’t forget to thank them when you see them at work at this year’s event.

Sincerely,
Paul O. Jones
Reading Alloys Incorporated
Conference Chair of International Titanium Association

Membership listed on cover as of August 31, 2005.
Table of Contents

Meet the Board ............ 4

ITA Committees ............ 7

Titanium News ............ 8

2005 New Members ............ 13

In Memoriam ............ 16

Titanium Achievement Nomination ............ 24

TITANIUM 2006 ............ 26

Classified Ads ............ 27
Mr. Kamon is president of Dynamet Incorporated, a Carpenter Company, located in Washington, PA near Pittsburgh and is currently serving on the Board of Directors for International Titanium Association and the Board of Directors for the United Way of Washington County, PA.

Dynamet Incorporated is a leading producer of titanium bar, coil and wire products used in aerospace, medical, consumer, and industrial applications. Dynamet has manufacturing operations in Pennsylvania and Florida, a service center and sales office in California, and sales and distribution office based in Brussels, Belgium. Dynamet distributes products worldwide and will design products to meet your needs.

Mr. Sobota, Sr. is the President and CEO of Tech Spec, Incorporated a.k.a. TSI Titanium. Mr. Sobota’s engineering career began as a process metallurgist for Teledyne Vasco followed by the position of Chief Metallurgist for Titanium West. In 1973 Technical Specialties was organized as a process engineering consulting firm. This later evolved into TechSpec, Incorporated which is a manufacturer of titanium bar and forging products serving the aerospace, medical, & commercial industries. Mr. Sobota is a Board Member of the ITA, a member of ASM, an avid golfer and licensed commercial pilot. He graduated from the University of Pittsburgh with a Bachelor of Science degree in Metallurgical Engineering and is a Registered Professional Engineer.

Mr. Sickles is the Director-Business Development for the Howmet Business Unit Of Alcoa. Howmet is the world’s leading producer of precision investment castings. Howmet provides castings and related products to the aircraft engine and industrial gas turbine industries as well as to the airframe industry. Prior to his current assignment, Mr. Sickles has held senior management positions in operations management and procurement for both Howmet And Rockwell International.

Mr. Rupert is President, Chief Executive Officer of RTI International Metals, Inc. (RTI), Past President of ITA, Director of Columbus Insurance, Ltd., the Foundation For IUP (Indiana University Of Pennsylvania) as well as a member of the Board Of Directors of RTI headquartered in Niles, Ohio. RTI International Metals, Inc. is a publicly traded on the New York Stock Exchange. The company produces and distributes a variety of products composed...
of titanium and other special metals serving the aerospace, chemical processing, medical implant, oil and gas, and the pulp and paper industries. RTI has 1,200 employees at 19 locations worldwide.

DIRECTORS

Sylvain Gehler
Managing Director
Specialty Metals Company

Mr. Gehler is Managing Director of Specialty Metals Company in Brussels, Belgium and Chairman of the Board of the UST Kamenogorsk Titanium and Magnesium Plant, a leading integrated producer of titanium sponge and magnesium located in Kazakhstan. He is a native of Strasbourg, France and holds a B.A. from Strasbourg University. He began his career in high temperature alloys recycling and held a management position in an international trading company.

Specialty Metals Company, a specialist of metals for high temperature alloys, is a majority shareholder of UKTMP and market their products worldwide.

Paul O. Jones
President and Chief Operating Officer
Reading Alloys Incorporated

Mr. Jones is the President & COO of Reading Alloys, Inc. as well as the Executive Vice President of KB Alloys, Incorporated located in Reading, Pennsylvania. Mr. Jones is currently serving as a Board member and Conference Chair for the International Titanium Association (ITA). He has thirty-seven years in the aluminum and titanium industries in a variety of marketing, operational and general management assignments. Mr. Jones has also served thirteen years in the US Army Reserve. He is a graduate of Florida State University with a Bachelor of Science degree in Business Administration (Finance).

J. Landis Martin
Chairman and CEO
Titanium Metals Corporation (TIMET)

Mr. Martin is Chairman and CEO of Titanium Metals Corporation (TIMET). TIMET is a producer of titanium metals with operations in the United States, the United Kingdom, France and Italy. TIMET has 2,500 employees worldwide. Mr. Martin is a director of the ITA and served as President 1997-1999. Mr. Martin served as President and CEO of NL Industries from 1987-2003 and Chairman and CEO of Baroid Corporation from 1989-1995. Mr. Martin joined the Kirkland and Ellis law firm in 1973 and was a partner and member of the firm when he left to join NL Industries in 1987. Mr. Martin serves on the Board of Directors of the Halliburton Company, Crown Castle International Corporation, Apartment Investment Management Company and Centennial Ventures LLC (venture capital fund). Mr. Martin graduated from Northwestern University in 1968 BSBA and the Northwestern University Law School in 1973 (cum laude). He served in the United States Army during 1969-70. Mr. Martin is a Trustee and member of the Executive Committee of Northwestern University Board of Trustees, a Director and Finance Committee Chair.
of the Denver Art Museum Board of Directors, is a director and Chairman Emeritus of the Central City Opera House Association and served as the President and Chairman of the Houston Grand Opera from 1993-1999. He also is Chairman of the Bonfils-Stanton Foundation in Denver.

John P. Monahan  
President & CEO  
VSMPO Tirus U.S.

Mr. Monahan is the President and CEO of VSMPO Tirus U.S. located in Golden, Colorado. Tirus is a wholly owned subsidiary of VSMPO in Russia. He is a graduate of St. Francis College and has held a number of senior positions in the titanium industry over the last 33 years.

James S. Paddock, Sr.  
Titanium Industries Incorporated  
President & CEO

Mr. Paddock is President and CEO of Titanium Industries, Inc., a privately owned company. He has served as an officer or director of the ITA for a total of 8 years. Titanium Industries, Inc. was one of the founding companies of the ITA in 1984.

His formal education was at the University of Illinois and his business career has been in ferrous and non ferrous metal producing mills and distribution companies. Mr. Paddock has held a number of senior management positions in major metal companies prior to Titanium Industries, Inc.

James T. Perryman, Sr.  
Managing Partner  
Perryman Company

Mr. Perryman Sr. graduated from Eastern Illinois University in 1950 with a Bachelor of Science degree in Physics. Mr. Perryman spent the next three years flying helicopters in the Army during the Korean War. In 1953 he joined Mallory-Sharon Titanium Corporation, the predecessor to RMI Titanium. Mr. Perryman was with several other titanium companies prior to founding Perryman Company in 1988. Perryman Company specializes in manufacturing titanium products. Producing coiled rod, centerless ground bar, drawn net shapes, premium fine wire and hot rolled products; servicing the aerospace, medical, recreational and automotive markets.

Thomas E. Williams Jr.  
President  
ATI Allvac

Mr. Williams is president of ATI Allvac, an Allegheny Technologies Company, located in Monroe, North Carolina. ATI Allvac is a leading producer of high performance metals with seven manufacturing facilities in the United States and Europe. Nickel, iron, cobalt, and titanium-based materials are manufactured for the aerospace, marine, oil and gas, chemical processing, biomedical, transportation, and nuclear industries. Mr. Williams joined ATI Allvac in May 1965 and has served as president of ATI Allvac since April 1999.
ITA Staff

Jennifer E. Simpson
Executive Director

Stacey L. Blicker
Member Services Administrator

The International Titanium Association (ITA) is a nonprofit networking trade association for the titanium industry. Established in 1984, the Association's mission is to connect the public interested in using titanium with titanium specialists all over the world who may offer technical and sales assistance. The ITA also offers titanium literature and sponsors a variety of events such as educational workshops, seminars, and the annual TITANIUM Conference & Exhibition. The Association currently has 121 members worldwide.

ITA Committees

Applications Committee
Chairperson: Ed Sobota, Sr.
The Applications Committee is divided among the following sub-committees: Conference & Trade Shows, Chemical Processing, Marine Applications, and Medical Applications. The primary goal of this group is to further the use of titanium in all related industry environments.

Membership Committee
Chairperson: Jim Paddock
Committee solicits, reviews and approves membership, based on the written application, policies, procedures, and other recommendations. Develops programs for increase and retention of Members.

Conference Committee
Chairperson: Paul Jones
Assists with planning, speaker selection and topics that will be discussed at upcoming conference. Chairperson acts as the Master of Ceremonies for the general session at the conference and exhibition.

Safety Committee
Chairperson: Greg Creswell
The Safety Committee provides a forum to address safety concerns for the industry. This committee also acts as a liaison by maintaining an open dialog among the companies involved in the melting of titanium.

Specification Committee
Chairperson: Al Donlevy
This collective group of titanium representatives are from all organizations writing specifications on titanium.

Statistics Committee
Chairperson: Sylvain Gehler
Collects information from government sources for import and export statistics.

Titanium Achievement Awards Committee
Chairperson: James Perryman, Sr.
Committee reviews nominations received by ITA members. This award acknowledges an individual who has provided sustained, exceptional service or leadership to the titanium industry or who has contributed to the advancement the industry in other ways.

ITA members are welcome to join active committees. To sign up please contact the ITA at (303)404-2221.
Perryman Company Announces $10 Million Titanium Rolling Mill Addition

Dec. 17, 2004- Houston, PA—Perryman Company announced that it has placed an order with Kocks Pittsburgh Company for a Kocks 215 mm Reducing and Sizing Block (RSB) rolling mill. The Kocks RSB takes advantage of a three roll system to produce a wide range of wire rod sizes with very close tolerances. The $10 million addition will complement Perryman Company’s existing rolling mill, which was commissioned in 1997. The enhanced rolling mill will enable Perryman Company to roll a range of titanium and titanium alloy round products from 0.200” diameter coil to 2.000” diameter bar. The addition should be fully operational by late 2005.

The Kocks RSB is the second phase of Perryman Company’s current expansion. Phase one included additional titanium wire rod drawing and shaving lines, which increased capacity by roughly 25-30%. Phase two will add another 60% overall capacity. According to Frank Perryman, Partner in Perryman Company, “the decision was made at the end of 2003 to double our output capacity by 2006. The combination of the two expansions will achieve this goal. With the forecasted growth for the commercial aerospace market and upcoming new aircraft designs, which require a higher amount of titanium, Perryman is taking measures to support the aircraft industry and our other markets. Capacity won’t be an issue for us moving into 2006 and forward.”

Perryman Company is headquartered in Houston, Pennsylvania, with offices in Philadelphia, Los Angeles, and London. A manufacturer of specialty titanium products, Perryman Company is a supplier to the aerospace, medical, recreational, and automotive markets. Perryman Company is a worldwide leader in the titanium industry with bar, coiled rod, net shapes, and hot rolled products.

Mr. Hull's career has spanned over 20 years of service in various accounting positions, including experience in establishing, redesigning and strengthening financial operations for public companies. Most recently, Mr. Hull was Corporate Controller of Stoneridge, Inc., of Warren, Ohio (NYSE:SRI), where he was employed since 2000. His duties included managing financial reporting accounting, cash management functions, developing and documenting policies and procedures in internal controls, and Sarbanes-Oxley compliance. Prior to his current position, he was the Chief Financial Officer of a publicly traded manufacturing and distribution company.

"We are very pleased to have Bill join us at RTI," said Dawne S. Hickton, Senior Vice President - Administration and Chief Administrative Officer. "His experience and accounting know-how will greatly strengthen RTI's financial organization. We are in the beginning of an exciting market for RTI and we look forward to having Bill as part of the team as we continue to grow RTI's business." Hull is a graduate of Youngstown State University in Ohio and a member of the Ohio Society of CPAs, Financial Executives International, and the American Institute of Certified Public Accountants.

RTI International Metals(R), headquartered in Niles, Ohio, is one of the world's largest producers of titanium. Through its various subsidiaries, RTI manufactures and distributes titanium and specialty metal mill products, extruded shapes, formed parts and engineered systems for aerospace, industrial, defense, energy, chemical and consumer applications for customers around the world. To learn more about RTI International Metals, Inc., visit our website at www.rtiintl.com.

Company VSMPO-AVISMA Corporation will Supply Titanium for Boeing “Dreamliner”

VSMPO-AVISMA Corporation, Russia will participate in the most ambitious project of the American Company Boeing on development of the new airliner, which will contain 30% of titanium alloy parts. This information was provided by the Company’s press-cutting service which stated that the Corporation will be the only titanium

(Continued on page 10)
Global Materials Solutions

Aerospace | Industrial | Chemical | Defense | Energy | Consumer

RTI International Metals, Inc.

www.rtiintl.com
Allegheny Technologies Announces Major Expansion of its Titanium Capabilities

Pittsburgh, PA -- 7/15/05 - Allegheny Technologies Incorporated (NYSE:ATI) announced today a major expansion of its titanium production capabilities. These investments are aimed at significantly increasing ATI's capacity to produce titanium and titanium alloys used for aero-engine rotating parts, airframe applications and in other robust global markets. These capital investments of approximately $100 million over the next 18 months will be funded from internal cash flow.

Major strategic capital projects include:

- Upgrading and restarting ATI's idled titanium sponge facility. ATI expects an annual production rate of 7.5 million pounds of titanium sponge from this facility beginning in the first half of 2006. Titanium sponge is a critical raw material used to produce titanium mill products.
- Constructing a third plasma arc melt cold-hearth furnace. ATI expects this new furnace to be qualified for production by late 2006. Plasma arc melting is a superior cold-hearth melt process for making alloyed titanium products for aero-engine rotating parts and biomedical applications.
- Expanding high-value plate products capacity by 25%. ATI expects this expansion to enable it to continue to grow in its high-value specialty plate products business, including titanium plate used in airframe, armor, power generation, and corrosion applications.
- Continued upgrading of ATI's cold-rolling assets used in producing titanium sheet and strip products.

Also included in this titanium capability expansion is an approximate 25% increase across ATI's titanium production system, including increases in vacuum arc remelt capacity, electron beam cold hearth melting capacity, and forging reheat capacity.

"We expect over $200 million of annual revenue growth with attractive after-tax returns from these capital projects when they are fully implemented in 2007. As a result of investments ATI has made during the past several years, we currently have unparalleled finishing assets for titanium straight length and flat-rolled products. The new capital investments announced today add much needed titanium raw material, melt, and remelt capacity to help optimize market opportunities for ATI," said Pat Hassey, Chairman, President and Chief Executive Officer of Allegheny Technologies. "These strategic investments confirm ATI's commitment to profitably grow our high performance metals business.

"The excellent combination of high strength to weight ratio, corrosion resistance, and biocompatibility make titanium an ideal specialty metal for many sophisticated and challenging twenty-first century applications. Titanium demand from the aerospace market, for both aero-engine and airframe applications, is expected to continue to be robust for the next several years. ATI is a leading producer of premium titanium alloys used in aero-engine rotating parts used for both original equipment and spare part applications. Airframe and airframe components offer significant growth potential for ATI. The industry trend towards the use of composite materials in airframes increases the need for our titanium alloys.

"Biomedical is another buoyant market for titanium products used for medical prosthesis such as hips and knees. ATI is a leading producer in this market segment and works closely with end users to develop new materials for longer lasting implants with improved biocompatibility. Armor for the government defense market is an emerging new application for titanium. In addition, demand for titanium for corrosion applications, particularly from the chemical processing and oil and gas markets, is expected to continue to be strong. Forecasted demand for titanium products is growing and exceeds current global capabilities."

Allegheny Technologies is a leading producer of titanium and titanium products. ATI manufactures titanium straight length products (long products), including ingot, billet, bar, and rod; titanium flat-rolled products, including sheet, strip, and plate; and specialty titanium products, including shapes, seamless tubing, castings, and wire. ATI is a technology leader in manufacturing and research and development for titanium products. ATI is the world's only titanium producer that employs both plasma cold-hearth and
High Performance World Class Titanium

We Manufacture:
- Titanium & Titanium-Base Alloys
- Zirconium & Zirconium-Base Alloys
- Niobium & Niobium-Base Alloys
- Cobalt-Base Superalloys
- Nickel-Base Superalloys
- Specialty Steels
- Stainless Steels
- Nitinol

Allegheny Technologies
Specialty Materials That Make Our World

ATI Allegheny Ludlum • ATI Allegheny Rodney • ATI Allvac
ATI Titanium International • ATI Wah Chang
Specialty Metals Processing Opens Second Facility

Specialty Metals Processing has opened a second facility. Specialty Metals Processing, a toll processor of flat rolled metal including titanium, stainless, aluminum and copper & brass located in Stow, Ohio has opened a second facility in Akron, Ohio and has moved its corporate staff to this location. This facility is designed to primarily “finish” non-ferrous plate including titanium, stainless and aluminum. The processes include:

- Precision Grinding and Wet Polishing - .040 – 6” thick, 60” wide x 144” long.
- Dry Polishing - .085” – 1” thick, 60” wide x 360” long
- Shearing, Storage & Handling and Protective Coating Applications

This facility was designed to service mills, service centers, and distributors.

The Stow, Ohio facility continues to offer 60” wide Slitting with Coil Enhancement (Strand Extensioning*) and 48” wide Cut-to-length, along with 48” wide Sheet Polishing & Coil Buffing/Scotchbriiting of non-ferrous metals. Coming soon to the Stow facility will be a 72” Cut-to-length Line. You can see their exhibit at booth 416.+ *Trademark of Herr-Voss.

Titanium Industries, Inc. Announces LCS Approval

Titanium Industries, Inc. is pleased to announce that it has officially received Pratt and Whitney LCS approval. This LCS approval is a significant addition to Titanium Industries’ distinguished approval list as well as its existing full range of end use quality programs. LCS approval will enable further growth and development for Titanium Industries within the very dynamic aerospace industry.

Established in 1972, for 33 years, Titanium Industries has consistently supplied the aerospace, industrial, medical and emerging markets with fast, cost-efficient, and high quality titanium products. We look forward to passing our customer service tradition onto the Pratt and Whitney family of subcontractors.

Titanium Industries, Inc.’s multiple worldwide locations, extensive inventory and commitment to customer service have helped us become the leading, global titanium mill products distributor. At Titanium Industries, Inc., we inventory a complete line of titanium mill products for the aerospace, industrial, medical, and emerging markets, so we can always meet our customer’s needs, large or small.

Please contact Titanium Industries, Inc. and ask about our full range of first stage processing, stocking, and Just In Time (JIT) delivery programs. Titanium Industries is ISO 9001:2000 and now LCS Approved. For more information, please log onto www.titanium.com or call 1-888-TITANIUM(1-888-482-6486).

(A TI Expansion Continued from page 10)

electron beam cold hearth melt technologies. ATI holds many patents for titanium products used for aerospace and biomedical applications.

This news release contains forward-looking statements. These statements are based on management's current expectations and are subject to uncertainty and changes in circumstances. Actual results may differ materially from those projected 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. Allegheny Technologies Incorporated is one of the largest and most diversified specialty materials producers in the world, with revenues of approximately $2.7 billion during 2004. The Company has approximately 9,000 full-time employees world-wide who use innovative technologies and advanced research and development to offer growing global markets a wide range of specialty materials solutions. High-value products include nickel-based and cobalt based alloys and superalloys, titanium and titanium alloys, specialty steels, super stainless steel, exotic alloys, which include zirconium, hafnium and niobium, tungsten materials, and highly engineered strip and Precision Rolled Strip® products. In addition, we produce specialty/commodity materials such as stainless steel sheet and plate, silicon and tool steels, and forgings and castings. The Allegheny Technologies website can be found at www.alleghenytechnologies.com or contact Dan Greenfield for more information at (412) 394-3004.
2005 New ITA Members

Accushape Inc.
Accushape Inc processes high purity titanium granules to produce custom mesh sizes and particle characteristics. Produce parts of titanium by press and sinter methods, prototype development.

Avon Metals Ltd
Avon Metals are a primary & secondary aluminum smelter manufacturing high performance based-based master alloys and alloying products for the wrought aluminum, titanium and superalloy industries. We are actively engaged in the strategic sourcing & trading of primary and scrap metals for industry including Titanium CP & 90/6/4 solids & turnings, Titanium sponge, Strontium Metal, Electrolytic Manganese Flake, Silicon Metal, Aluminium, Magnesium based master alloy, Zinc, Pure Tin ingot, Pure Lead Shot, Rhenium Pellets.

Bayern Software
Since 1985, Bayern Software has provided software to metal service centers and distributors of all sizes. The cornerstone of our success is our integrated inventory control, order entry, and accounting software, STEEL-PLUS, now in use in over 250 companies across North America. STEELPLUS supports both tagged and homogeneous inventory, barcode printing and scanning, remnant tracking, buyout and special order transactions, direct emailing and faxing, integrated mill test report imaging, and windows document attachments. Also included are extensive credit management and security tools and extremely flexible reporting. STEEL-PLUS data can be accessed via any ODBC compliant application such as Microsoft Access, Excel, and Crystal Reports. www.bayernsoftware.com.

Cefival
Hot extrusion of tubes, standard or special sections according to customer's sketch in titanium and any kind of steel. www.cefival.fr.

DuPont
DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 70 countries, DuPont offers a wide range of innovative products and services for markets including agriculture, nutrition, electronics, communications, safety and protection, home and construction, transportation, and apparel. www.dupont.com.

Form & Technik
Form-Technik GmbH is one of the main suppliers of investment casting and gravity casting PM and MIM products for titanium, tungsten, and molybdenum. With our division, Ti-Ger, we also supply titanium products as finished parts including extension joints for power and chemical plants. www.Form-Technik.biz.

Heraeus Inc.—Medical Components Division

ICE-Innovative Custom Engineering
Design and fabrication of performance products for automobile and motorcycle industry. Project future expansion into other fields and uses of titanium as the company grows. www.ice-man.net.

Jamegy Corp
Jamegy processes titanium and zirconium recycle materials and forms into compacts for sale to the aluminum industry. www.jamegy.com.

Ruger Titanium Div. Ruger Investment Casting
Pine Tree Castings provides commercial investment casting, ductile iron and titanium castings to a variety of industries including firearms, architectural hardware as well as other industrial and commercial applications. www.ruger.com.

Sapa International
Sapa International, with offices in both Ho Chi Minh City, Vietnam & Philadelphia, Pa. USA, are world wide representatives for the joint venture development of a rich titanium deposit in the north of the country.

Specialty Metals Processing, Inc.
Specialty Metals Processing, Inc. is ISO certified toll processor of non-ferrous sheet, plate and coil. Their Stow, OH facility offers 60: slitting, 48” cut-to-length and leveling and 48” sheet polishing and 48” coil shecthribting. The Akron facility offers sheet & plate precision grinding, wet & dry sheet, plate polishing, and shearing. Come late fall they will offer 72” wide cut-to-length and 60” coil polishing. They are competitively priced, have quick delivery and customer service is their main priority.

Verichek Technical Services
Provides sales and service of optical emission spectrometers for metal identification and certification. ISO 17025 accredited. www.verichek.net.
International Titanium Powder on Course to Commercial Production

Chicago, IL—08/15/2005—International Titanium Powder, LLC is poised to commercialize the Armstrong Titanium Reduction Process. With technological objectives in the production of CP titanium and direct reduction of homogeneous Ti6Al-4V alloy achieved, the Armstrong is positioned to enter the material supply chain for applications that range from Department of Defense systems to unique sporting goods. Much of the process success is due to the support from the Army Research Laboratory and the Defense Advanced Research Projects Agency, which have conducted separate yet mutually beneficial programs directed at achieving substantial cost reductions in titanium application for defense systems.

“Fabricators and end uses have identified that our titanium reduction process is real.” stated Stan Borys, CEO, “Chemical analysis of Armstrong titanium has proven that we have developed a high quality product with outstanding mechanical properties that has been successfully used in a variety of fabrication techniques.”

ITP has received purchase orders from customers and is currently directing efforts toward the construction of a four million-pound per year pilot production plant. The company is actively pursuing capital financing for the facility.

International Titanium Powder, LLC was formed to commercialize the Armstrong Titanium Reduction Process, an innovative, low-cost technology for production of high purity titanium (Ti) metal and alloy powders in a one-step, continuous process. ITP’s process, in combination with existing and developing metal fabricating methods, can reduce final parts production costs significantly. www.itponline.com For more information contact Taras Lyssenko at 815-834-2112 or email: Taras@ITPonline.com

Vulcanium Metals Incorporated Has Moved

In its ongoing program to best serve its titanium clients, Vulcanium Metals Incorporated has recently moved to larger facilities. Its sales, quality, customer service, administration and warehouse operations have a new home in a Northbrook, Illinois building specially renovated to suit the titanium distributor’s stocking and service needs.

The new space not only provides area to add to VMI’s already extensive inventory, but allows for the required and necessary quality management of the company’s comprehensive titanium supply. All invoicing and payments should continue to be addressed to 3045 Commercial Avenue, Northbrook, Illinois 60062. The telephone and fax numbers, as well as the email and web addresses, also remain the same.

For service on all your titanium needs, contact Jerry St. Clair, David Yoho or Jim Spehrley at 888-326-7556 or at titanium@Vulcanium.com.

MTR Imaging & Attachments Software

Bayern Software’s new MTR Imaging & Attachments software allows STEEL PLUS users to scan and retrieve mill test reports.

This powerful addition to the Bayern lineup supports printing, faxing, and emailing of scanned test reports. Emailed test reports are sent in Adobe’s Portable Document Format (PDF), a standard adopted by governments and enterprises worldwide. PDF is a reliable format for electronic document exchange that preserves document integrity so that files can be viewed and printed on a variety of platforms.

The Attachments function can be used to attach any Windows document to a STEEL PLUS inventory tag. Attachments can be accessed from all critical areas within STEEL PLUS. When accessing attachments, the file association feature of Windows is used to automatically launch the appropriate program. For example, if you attach an AutoCAD drawing, STEEL PLUS will launch AutoCAD. For more information contact Bayern Software at sales@bayernsoftware.com or (877) 422-9376
GfE Metalle und Materialien GmbH Announces New Location

GfE Metalle und Materialien GmbH announces the creation of a new office in Shanghai, China. With these offices in Shanghai, GfE Metalle und Materialien GmbH will be in a position to respond effectively to present and future specialty materials needs of Asian customers. Mr. Qing Ye, an expert with wide experience in specialty materials, has been appointed Manager Liaison Office China to lead the GfE Metalle und Materialien business expansion efforts. For any requirements, please contact Mr. Ye at e-mail: qing.ye@gfe.com or Phone: +86-21-63 90 73 23.

Previously, in December 2004, GfE established the subsidiary GfE Materials Technology Inc. in Wayne, PA - USA. Cameron May manages basically the business expansion activities coating materials for North & South America. Mr. May can be contacted at e-mail: cameron.may@gfe.com or phone: (610)293-5811.

Founded in 1911, GfE is continuing its global expansion as one of the world's leading producers of unique high performance specialty materials and products made from them. GfE products include metallic and ceramic materials for thin film coating technology, master alloys and structural materials for the aerospace industry as well as technical powder and vanadium chemicals.

The company’s core expertise is in melting metallurgy (aluminothermic reduction, vacuum metallurgy), manufacturing and processing of metal powder, component production, and coating technology.

GfE Metalle und Materialien takes pride in offering more than 90 years of experience and technical know-how in coating materials. The enterprise’s success is based on the continuous integration of tradition and innovation. It specializes in developing and manufacturing ‘tailor-made materials’ that offer customized application solutions. GfE’s ISO 9001 certified quality management and the innovative power of the interdisciplinary multi-company Research and Development Department guarantee customers’ demands for high standards of quality and innovation.

The offices in Shanghai and Wayne continue GfE’s culture of close customer collaboration providing optimal materials solutions for customers’ applications.

GfE is headquartered in Nuremberg, Germany and is owned by Safeguard International Fund. In 2004, the workforce of 250 employees generated sales of approx. 50 Mio €. For more information visit their website at www.gfe.com.
In Memoriam

Dr. Sidney Diamond  
1933-2005

Dr. Sidney Diamond was born in Brooklyn, New York on January 6, 1933, he was the son of the late William and Ida S. (Kniager) Diamond. Dr. Diamond received his degree in Metallurgical Engineering from the Massachusetts Institute of Technology (MIT) in Boston, and his PhD from the University of Illinois, after being valedictorian of his Manchester Central High School class of 1951.

For the last 15 years Dr. Diamond was a Senior Technology Manager in Advanced Materials for the US Department of Energy, contributing to a wide range of initiatives including the 80 mpg car, malleable ceramics, fuel ionization and other innovative technologies. He has held previous positions at U. S. Steel, Westinghouse, and Battelle Columbus Laboratories.

Dr. Diamond counted multiple patents and hundreds of technical papers and disclosures as his legacy, and was particularly proud of his recent developments to improve fuel economy of the United States commercial trucking fleet.

Mr. Melvin Faul  
1941-2005

Mr. Melvin “Mel” Faul was the Founder and President of Titanium Finishing Company. He was 64 years of age. He was formerly employed by SPS Technologies, Inc., as a Senior Chemical Engineer until 1973 when he left to devote his time solely to Titanium Finishing Company.

Since its original inception in 1971, Mr. Faul has been both the President and Chief Technical Advisor for the company. He has had many articles published based on his expertise, as well as several speaking engagements with regard to coatings and their applications. He invented the titanium anodizing process still in use today at Titanium Finishing Company.

Mr. Sato Naokuni  
1926—2005

Mr. Sato Naokuni passed away on February 2, 2005 at the age of 80. Mr. Sato was very active in the Japan Titanium Society (JTS). He was the first Executive Director and the fifth Secretary General from Nov. 1, 1982 to May 31, 1991 as well as a Consultant & Advisor from June 1991 to May 2003.

During his JTS assignment, he actively worked to improve and reinforce the structure and management with the creation of the Executive Committee, the Awarding System, and the Application Development Committee. He further revised their Bylaws and Statistics along with other internal applications. In conjunction with duties, he actively participated in the creation of the joint International Titanium Association and JTS meeting. Upon request of the executives of both parties, the first successful meeting was held in 1990 in Orlando, FL.

Mr. Sato was born January 1926. In 1948 he graduated from Kobe University. Upon graduation he worked at Kobe Steel from 1948 - 1982 and then as Executive Director and Secretary General of JTS. After official retirement, he continued to support the activity of JTS for over 10 years as a volunteer Advisor until May 2003.
Since 1975, TSI has been producing the highest quality titanium mill products for aerospace, medical, chemical and other commercial users of titanium. We are firmly committed to being the industry leader in technological innovation, manufacturing excellence and customer service.

**TITANIUM & TITANIUM ALLOYS...**

Forging, rolling and precision finishing of bars and special shapes

Demanding quality standards, precise temperature controls and certification of all processing furnaces to MIL-H-81200 enable production of annealed or solution-treated and aged bars to ASTM, AMS, military and customer specifications.

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Web site: www.tsititanium.com

**Use Our Experience To Your Advantage**

Pratt & Whitney and Pratt & Whitney Canada LCS Approved
Plymouth Tube Company Unveils SEA-CURE Brand Logo From the Newly Acquired East Troy, WI Plant.

Plymouth Tube is proud to present its new SEA-CURE® Brand logo to the industry. Plymouth Tube acquired the former Trent Tube Cold Work Anneal (CWA) plant in East Troy, WI, on April 3, 2005, broadening Plymouth’s product offering to its global customers. The East Troy plant manufactures ferritic stainless steels 430, 439, high alloys AL-6XN®, 29-4C®, and E-BRITE® as well as SEA-CURE®.

DC (“Van”) Van Pelt Jr., President, remarks that “Plymouth Tube is excited to offer these complementary products to the energy, condenser and heat transfer markets that we’ve been dedicated to serving for many years.”

SEA-CURE® tubing has proven to be a quality alternative when high resistance to chloride corrosion is required and especially in seawater applications. Commercially introduced in 1979, SEA-CURE® has been a success story, with more than 65 million feet in service worldwide.

SEA-CURE® characteristics were taken into consideration during the creation of the logo. The tube reflects Plymouth Tube’s never-ending commitment to provide customers a total value solution. The “S” in the center of the logo encompasses the strength of SEA-CURE’s® corrosion resistance and longevity of tubes in service.

East Troy processes small diameter tubing from 0.500” to 2.000” OD with wall thicknesses from 0.018” to 0.134”. Value added services include continuous length capability of up to 135’, U-Bending and stress relieving operations also available.

A new website will be launched in Winter 2006. SEA-CURE® information can be found at the company’s website at www.plymouth.com and www.seacuresolutions.com.

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 21 S.

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. Ulbrich has a booth at the ITA Conference, Booth# 408. For more information contact Ulbrich at (800) 243-1676.

New Tubing Warehouse

North American Alloys is pleased to announce the opening of a new tubing warehouse in Kennewick, Washington. This location will warehouse and distribute seamless and welded titanium tubing in grades 1,2,3,4,9 and other alloys. Equipment for cutting tubing to length will be installed soon. Other titanium mill products (sheet, plate, bar, billet) will continue to be warehoused in Pacoima, California. For a real time listing of North American Alloys entire inventory, visit www.northamericanalloys.com. For more information, please contact Steve Meredith at 509-586-8848 or e-mail at steve@northamericanalloys.com.

Duty Drawback

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.

• Any 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 third party, IDS is bound by strict confidentiality agreements.
• IDS is compensated by commissions based solely on the recovery of duties.

Call 281-395-6633 or visit our website at www.iddrawback.com for more information.
Dynamic Machine Works is proud to announce they are changing their name to Dynamic Flowform Corporation. For the past 32 years, people throughout the metal-working world have referred to us as “Dynamic” and have come to us to manufacture dimensionally precise parts made from unusual metals. During the past decades, we have built a reputation as the “flowforming” people as we pioneer the flowforming technology in dozens of industries. As we look to the future, we want to ensure that everyone knows who we truly we are and what our focus is. We are “Dynamic Flowform”. We remain under the direction of Founder and President, Ven Fonte, and the strong managerial team that he has formed. We continue to flowform in our plant in Billerica, Massachusetts where we have been located for the past 25 years. We are pioneering the flowforming technology, pushing it to new metallurgical and dimensional limits.

At Dynamic Flowform, we are eager to share the dynamic process of flowforming with you and discuss how you might benefit from applying this method of manufacturing to your projects. For more information contact Matt Fonte at 978-667-0202 or info@flowform.com

Stanley Abkowitz Of Dynamet Technology To Receive ASM Distinguished Life Membership

MATERIALS PARK, OHIO (Aug. 9, 2005) - Stanley Abkowitz, President & Technical Director of Dynamet Technology, Inc., Burlington, Mass., has been named a Distinguished Life Member of ASM International, The Materials Information Society.

“This award is conferred upon Mr. Abkowitz for devoting his time, knowledge and abilities to the advancement of the materials industries,” said ASM President Dr. Bhakta B. Rath, Naval Research Laboratory. The award will be presented to Mr. Abkowitz at the society’s annual banquet on Monday, Sept. 26 in Pittsburgh, during the Materials Science & Technology (MS&T ’05) conference.

Specifically, Mr. Abkowitz was cited by the distinguished ASM Awards Committee for “creative titanium alloy developments and innovative powder metal manufacturing technology that have significantly benefited the nation’s defense, medical technology, and the country’s energy efficiency.”

Mr. Abkowitz, an MIT graduate, holds 24 patents, and has authored more than 60 publications on titanium technology. His early work in the 1950s and 1960s at the Army’s Watertown Arsenal Laboratory and at RMI, resulted in the development of four commercial alloys. While at Watertown Arsenal, which was the lead center for all government R&D on titanium, Mr. Abkowitz developed the Ti-6Al-4V alloy (in the 1950’s), which has become the major titanium alloy of the industry.

His book, *Titanium In Industry* (1955) was the first published book on the metal’s technology.

A Fellow of ASM International, Mr. Abkowitz received the society’s William Hunt Eisenman Award in 1993. He is the author of *The Emergence of the Titanium Industry and the Development of the Ti-6Al-4V Alloy* a monograph published in 1999 by The Minerals, Metals & Materials Society (TMS). In 1999, Mr. Abkowitz received the Distinguished Service to Powder Metallurgy Award presented by the Metal Powder Industries Federation (MPIF).

In 2000 at its Conference and Exhibition in New Orleans, Mr. Abkowitz was presented the International Titanium Association (ITA) inaugural Titanium Achievement Award for his “outstanding contributions to titanium technology and to the titanium industry.” At ITA’s 2001 Conference in Las Vegas, his presentation commemorated the 50th anniversary of the titanium industry.

Mr. Abkowitz’s more recent development of ceramic reinforced titanium alloy matrix composites has resulted in a new class of titanium materials which offer enhanced wear resistance. These innovative materials, in addition to industrial and military applications, are employed in the manufacture of biomedical orthopaedic implant devices. Mr. Abkowitz currently serves on the organizing committee for ASM’s forthcoming conference on *Materials & Processes for Medical Devices* to be held in Boston this November.

AS  International, The Materials Information Society, is the world's leading society for reliable information and data on metals, engineered materials and processes. The 37,000-member society is headquartered near Cleveland, OH. For more information about ASM visit www.asminternational.org

Dynamic Modifies Its Name

Dynamic Machine Works is proud to announce they are changing their name to Dynamic Flowform Corporation. For the past 32 years, people throughout the metal-working world have referred to us as “Dynamic” and have come to us to manufacture dimensionally precise parts made from unusual metals. During the past decades, we have built a reputation as the “flowforming” people as we pioneer the flowforming technology in dozens of industries. As we look to the future, we want to ensure that everyone knows who we truly are and what our focus is. We are “Dynamic Flowform”.

At Dynamic Flowform, we are eager to share the dynamic process of flowforming with you and discuss how you might benefit from applying this method of manufacturing to your projects. For more information contact Matt Fonte at 978-667-0202 or info@flowform.com
Solar Atmospheres, Western PA, Orders Second 24 foot Furnace

Four years of sustained growth at Solar Atmospheres has necessitated ordering a second 24 foot long vacuum furnace as well as expanding the physical facility in Hermitage, PA. Bob Hill, President of Solar Atmospheres, Western PA, announced that an order for a second 24 foot vacuum furnace has been placed with Solar Manufacturing, Souderton, PA, a sister company.

Hill states, “I am extremely pleased that another state-of-the-art, 24 foot long vacuum furnace will be operational in 2006 to improve output of titanium materials and other large parts and assemblies. The second double ended, car bottom vacuum furnace will also have a loading capacity of 50,000 pounds and will be in production within one year.”

Hill stated the Western PA facility was to undergo a major expansion, “as a vacuum heat treating and brazing business, we have outgrown our current 22,000 square foot facility. Therefore, we will be adding another 16,800 square feet of plant space to our existing building. This will house the new 24 foot long furnace and other equipment. Another part of the building program is the addition of a 5,000 square foot, two-story office complex to the front of the existing building. The additions will double the size of the current building.

(Continued on page 23)

WMT&R Announces Web Access to Testing Information

Fact of life: Pressure for shorter turnaround times is strong…and getting stronger! To meet this challenge Westmoreland Mechanical Testing & Research has developed and deployed a service which provides customers, via the Internet, with real-time status of testing and test results 24 hours a day, every day of the year. Named Customer Rapid Response Advantage (CR2A), customers can receive automatic notification that their Certificate or Report is now available on-line. Supported Operating Systems: Windows 98, Windows 2000, Windows NT, and Windows XP.)

Westmoreland Mechanical Testing & Research, founded in 1967, has established a worldwide reputation for high-volume, quick turnaround material testing for the Aerospace, Automotive, and Medical-device industries. Operations are organized into seven major groups: Mechanical Testing, Stress Rupture and Creep, Fracture Mechanics, Physical Metallurgy and Heat Treating, Fatigue Testing, Chemical/Analytical, and the Manufacturing Technology Division. Test temperatures range from -423°F to 2100°F. The load capacity for axial tests range from 25 Grams to 1,000,000 lbs. Over 100,000 square feet of integrated machining and testing capacity ensures minimum turnaround time.

In 2003 WMT&R established a United Kingdom subsidiary in Banbury as part of a global expansion program. The prime central location in the UK is seen to be a positive advantage in serving the local automotive and motor sport industries. The world headquarters is located in Youngstown, Pennsylvania (about 45 minutes east of Pittsburgh, at the foot of the Laurel Mountains). The Customer Rapid Response Advantage can be requested by contacting CR2A@WMTR.COM or through their website “Request for Information” section on WWW.WMTR.COM.
Perryman: The First Name in Specialty Titanium Products

When it comes to specialty titanium products for the aerospace industry, Perryman is your ticket to excellence. Perryman Company is the quality leader of specialty titanium products for the aerospace as well as the medical, automotive, and recreational industries.

Perryman Company specializes in manufacturing titanium products, with focus manufacturing facilities producing:

- Precision Centerless Ground
- Centerless Ground
- Titanium Bar
- Large Bar
- Titanium Net Shapes
- Titanium Precision Finish Coil
- Titanium Premium Fine Wire
- Titanium Hot Rolled Products

We create world-class specialty titanium products using the latest technology in automation and processing. Our customers know they will receive unmatched technical support from the first phone call through the use of the final product.

So, when it comes to specialty titanium products, always think of the first name in specialty titanium products: Perryman.
We're in Shape
We're High Flying
and We're Driven!

We're Dynamet... we're titanium!
Wherever you find Dynamet titanium products, you find a world on the move.

Strong, lightweight titanium helps machines run faster. Flexible, bio-compatible titanium helps get patients on their feet again.
The depth of experience in our technical support group helps customers with material solutions that meet their needs.

Call us today to learn more and we'll send along our Titanium Alloy Data Sheets as thanks.
And get moving - with Dynamet titanium.

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The Edward Mirell Collection

The Edward Mirell Collection is the world’s finest collection of titanium jewelry. Elegant design and impeccable craftsmanship are the hallmarks of the Edward Mirell Collection. Edward Mirell jewelry, a perfect addition to any fine jewelry collection, bespeaks contemporary design and enduring quality. Titanium’s comfort is legendary and its strength, lightweight durability, hypoallergenic nature and corrosion free qualities make it the perfect element. The Edward Mirell Collection includes men’s and women’s rings, bracelets, necklaces, earrings and accessories designed for the most discriminating of wearers.

The Edward Mirell Collection sporty enough to wear any time and beautiful enough for special occasions. Most pieces combine titanium with other precious metals, diamonds and sapphires making the line wearable for day or night, work or play, casual or formal.

The Edward Mirell Collection is available at fine jewelry and department stores worldwide. Additional information about the Edward Mirell Collection can be accessed via www.edwardmirell.com or by telephoning toll free (800) 422-0220.

Spectore Corporation has developed black titanium for use with Edward Mirell Jewelry. Spectore Corporation is currently the only titanium manufacturer with their own patented alloy, Black-Ti™, the only non-coated and biocompatible alloy that can be processed to black and provides a titanium/ceramic black finish which is guaranteed for life.

CermeTi Composite Implants Resist Wear, Minimize Debris

Titanium’s biocompatibility and excellent imaging characteristics make it a material of choice for medical implants, according to Dynamet Technology Inc., Burlington, Massachusetts. The company’s CermeTi Titanium composite takes titanium to a new level of wear resistance, minimizing wear debris. Conventional titanium alloys for hip, knee, and other orthopedic implant devices require polyethylene interfaces to eliminate metallic particle wear debris. However, CermeTi Titanium matrix composites containing TiC particles are designed for metal-on-metal wear and do not require polyethylene interfaces. This combination of superior wear resistance and excellent imaging characteristics give the material a unique advantage.

A program to investigate these composites for application to lumbar disk devices is being conducted with the participation of Medtronic, Northwestern University, and the Lahey Clinic, under NIH sponsorship. The objective of the program is to identify and evaluate advanced composite compositions and process conditions that have the potential to meet the requirements for metal-metal lumbar disk devices. These requirements include low metal-on-metal wear, excellent biocompatibility, excellent imaging characteristics, acceptable mechanical properties, excellent in-vivo pitting resistance, and manufacturability.

Dynamet claims that the composite significantly improves wear resistance over stainless steel, while offering the beneficial imaging characteristics of titanium. Under a National Institutes of Health-funded study, the company is developing additional enhanced matrix composites for lumbar spinal implants. Total disk replacement is being developed as an alternative to spinal fusion, because it is less invasive, reduces recovery time, and improves mobility.

For more information: Stanley Abkowitz, Dynamet Technology Inc., Eight A Street, Burlington, MA 01803; tel: 781/272-5967; fax: 781/229-4879; email: sabkowitz@dynamettechnology.com; Web site: www.dynamettechnology.com.

(Solar Atmospheres—Continued from page 20)

The overall cost for the building expansion and the furnace will exceed five million dollars! We have invested very heavily and will continue to invest ensuring that our customers receive the highest quality of vacuum processing available. The additional capacity and vacuum technology that will be available is unsurpassed in the world.” For more information contact: Bob Lacock at (800) 347-3236 or visit their website at www.solaratm.com.
2006 Titanium Achievement Nomination

The International Titanium Association (ITA) is seeking nominations for an individual within the titanium industry who has exhibited outstanding qualities of leadership, and has been directly responsible for accomplishments that positively impact the titanium community. This award is intended to distinguish meritorious work in an area too little acknowledged.

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 anyone within the titanium arena (ITA member or non-member) who would be considered an excellent choice for receiving this esteemed award. Companies may decide to nominate several different candidates for consideration.

All nominations will be presented to the ITA Awards Committee. Please include any supplemental materials (letter of recommendation, certificates, etc) that would be beneficial for the committee to review in determining the final nomination selection. An appropriately inscribed plaque will be presented at the ITA Annual Meeting held during the ITA TITANIUM 2006 Conference in October.

In past or recent years, the candidate has contributed in one of the following areas with:

- **Significant service to the titanium industry**
- **Promoting titanium products that benefited the entire industry.**
- **Unveiling a technical breakthrough in the mining, refining or fabricating of titanium**
- **Inaugurating or influencing outstanding research or marketing programs leading to the expansion of the titanium market or titanium products.**
- **Acting as spokesperson for the industry on the national or international scene**
- **Initiating or creating important new and imaginative uses for titanium**
- **Developing practical solutions upon study of outstanding problems confronted the titanium producing and fabricating industries**

Help honor and celebrate colleagues who have made a positive impact on the titanium industry.

Additional copies of the nomination forms can be downloaded directly from the ITA website at [www.titanium.org](http://www.titanium.org).
Thermo Electron’s NITON Portable XRF Range Wins Gold Industrial Design Excellence Award

(July 29, 2005) – Thermo Electron Corporation (NYSE:TMO) announces that its family of NITON X-ray Fluorescence (XRF) analyzers has recently been awarded a Gold IDEA (Industrial Design Excellence Award) in the Medical & Scientific Products category. The IDEA awards are dedicated to fostering business and public understanding of the importance of industrial design excellence to the quality of life and the economy. The awards are co-sponsored by the Industrial Designers Society of America (IDSA) and BusinessWeek magazine. Thermo’s award winning portable XRF analyzer line was designed by Altitude Inc., a Massachusetts based strategic product development firm.

Thermo’s family of NITON portable X-ray fluorescence (XRF) analyzers are used worldwide for a variety of nondestructive testing applications, including RoHS and WEEE compliance, metal alloy sorting, positive material inspection, mineral exploration and mining, precious metals analysis, environmental risk assessment and lead paint testing. In addition to high performance, the award winning industrial design of these hand held instruments increases their usefulness and the benefits to users. The small size, light weight, ruggedness, ease of use and good ergonomics are critical for the demanding field applications of XRF, where instruments must work in a wide range of environmental conditions and in many instances take upwards of one thousand readings per day.

With this in mind, Altitude’s designers worked closely with Thermo engineers and scientists to develop a new generation of XRF analyzers that maximize operators’ productivity. NITON’s XLi, XLp and XLt Series XRF analyzers determine approximate sample chemistries and identify many types of samples in as little as one second. The XLi Series is the smallest, lightest weight XRF analyzer in the world. All NITON XRF analyzers are water resistant, dust proof, and built to meet the demands of the most rigorous testing conditions.

“We are extremely pleased that the NITON XRF analyzer family has been awarded the prestigious IDEA Gold award, particularly after winning an R&D 100 award for its achievements in applied research and development. But the real validation of the product’s design has come from our customers; product sales have increased more than 175% over the past three years, leading to the acquisition of NITON by Thermo in March 2005,” says Bob Churchwell, Vice President of portable XRF analyzer manufacturing at Thermo. For more information about Thermo Electron’s family of NITON XRF analyzers and accessories, please call 800-875-1578, e-mail analyze@thermo.com or visit www.thermo.com/niton.

About Elemental Analysis: A leader in AA, ICP, ICP-MS, X-ray, Coulometry and OE spectrometers for fast, accurate analysis of liquids, solids and powders, Thermo Electron’s elemental-analysis systems are used for process and quality control, environmental and hazardous-materials monitoring, and R&D in the environmental, pharmaceutical, semiconductor, food and beverage, petrochemical, metal and geological markets. Our acclaimed line of elemental-analysis products includes mobile, desktop, laboratory and automation models. For more information visit www.thermo.com/elemental. About Thermo Electron Corporation: Thermo Electron Corporation is the world leader in analytical instruments. Our instrument solutions enable our customers to make the world a healthier, cleaner and safer place. Thermo’s Life and Laboratory Sciences segment provides analytical instruments, scientific equipment, services and software solutions for life science, drug discovery, clinical, environmental and industrial laboratories. Thermo’s Measurement and Control segment is dedicated to providing analytical instruments used in a variety of manufacturing processes and in-the-field applications, including those associated with safety and homeland security. Based near Boston, Massachusetts, Thermo has revenues of approximately $2.7 billion, and employs approximately 11,000 people in 30 countries. For more information, visit www.thermo.com.

For further press information contact: Charlotte Culley, Marketing Director, The Scott Partnership, The Old Barn, Holly House Estate, Cranage, Middlewich, Cheshire CW10 9LT, UK Tel: +44(1606)837787 E-mail: pr@scottmail.co.uk
To reserve your room contact the Sheraton directly at (619) 291-2900 and request the special ITA room reservation room rate of $179 a night. Or you can make your reservation directly thru the ITA website at www.titanium.org.
Engineer Wanted
International Titanium Powder, LLC has developed the Armstrong Process for the commercial production of titanium/titanium alloy powders. The company is in a scale-up phase to substantially increase production levels to meet expanding Dept. of Defense & commercial markets. Engineers’ responsibilities include, but not limited to, detailed piping & instrumentation diagram preparation, facilities permitting, chemical plant construction, working within budgets & time schedules.

Metallurgical Engineer
International Titanium Powder has developed the Armstrong Process for the commercial production of titanium/titanium alloy powders. At the company’s research & development facility, Lockport, IL; metallurgists are responsible for activities related to the direct production of Armstrong Process advanced titanium alloy powders. The work includes extensive interaction with Government agency (DoD, DOE), academic, and industry partners developing process methodology to transition Armstrong titanium for applications in modern component fabrication processes. Visit the ITA website at www.titanium.org for a complete listing of the skills required as well as other job details. Or Email introduction letter and resume to: Lisa Billapando, lisab@itponline.com at 815-831-2113.

Quality Engineer
Titanium Industries, Inc., is looking for an entry level employee to assist in the processing and manufacturing of various products, as well as implantation of it’s extensive quality system, at our Santa Fe Springs, CA facility. Candidate will be responsible for leading site specific quality initiatives in an ISO/AS9100 certified environment, be responsible for the day to day site quality engineering activities, including material disposition, internal/external process management, metrology management, facilitate problem solving, analysis of data, & continual improvement activities throughout facility.

Looking for Excess Usable Inventory
North American Alloys is looking to buy excess useable inventory, remnants, scrap or recycle in all titanium alloys. Call today for a prompt and competitive bid. Contact Michael Shulimson, Tel: 818-890-2250, Email: m.shulimson@att.net or Steven Meredith Tel: 509-586-8848, Email: steve@northamericanalloys.com or visit their website at www.northamericanalloys.com

Your Very Own Titanium Mine?
Seeking joint venture partner to refine rich titanium deposit in Vietnam. Sapa International, with offices in both Ho Chi Minh City, Vietnam & Philadelphia, Pa. USA, are world wide representatives for the joint venture development of a rich titanium deposit in the north of the country. We seek partners first to set up a refinery, secondly to open a machine shop for on site contract work. Mountain top deposit, no blasting necessary, strip mine & washing operation underway. Deposit approximately 1 kilometer long, 1 kilometer wide, 300 meters deep, tapering to points at the ends, with a vitrified granular illemite core. Average yield, approximately 300lbs TiO2 per metric ton, assaying at 44.53%, & is granular mixed with dirt. Expected lifespan 20 years. See us @ booth 412 at the show. Samples will be available.

High Quality 6-4 sheets, AMS4911, ASTM B265, 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.
0.032” x 36 x 96 0.040” x 36 x 96 0.050” x 36 x 96
0.063” x 36 x 96 0.071” x 36 x 96 0.090” x 36 x 96
Contact: john1098@adelphia.net  Web: www.china-Ti.com
Phone: 626-935-5588  Fax: 626-912-3578
Affinity International, 1961 Clear River Ln, Hacienda Heights, CA 91745 USA

Thin Titanium Sheet Needed
1 Square Meter, 1/2 milimeter thick
Quantity Needed: 2-3 million sheets
Contact Bill Jacobs, ABK Services LLC with quote and to determine what grade is needed for application. Phone: 520-293-6268 Email: spellc@aol.com.

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.

Looking for Excess Usable Inventory
North American Alloys is looking to buy excess useable inventory, remnants, scrap or recycle in all titanium alloys. Call today for a prompt and competitive bid. Contact Michael Shulimson, Tel: 818-890-2250, Email: m.shulimson@att.net or Steven Meredith Tel: 509-586-8848, Email: steve@northamericanalloys.com or visit their website at www.northamericanalloys.com

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Qualified candidates will have a 4-year degree, ASQ certification preferred, excellent communication skills, eagerness to learn, propensity for travel, and the ability to interpret industry and customer specifications. Computer skills are a must. Full benefits package. Salary commensurate with experience. Don’t miss this rare opportunity to develop and grow within a fast paced entrepreneurial atmosphere. Please submit resumes to info@titanium.com.
ITA Member Companies

Accushape Inc.
Affinity International, LLC
Alleghehny Technologies Inc.
    ATI Allegheny Ludlum
    ATI Allegheny Rodney
    ATI Allvac
    ATI Titanium International
    ATI Wah Chang
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Bahco
Bayern Software
BIBUS Metals AG
BodyCote
CEFIVAL
Center for Advanced Mineral & Metallurgical Processing
CONSARC Corporation
Corrosion Materials
Deutsche Titan GmbH
DGA/CTA
Dolphin Inc.
DuPont
Dynamet Incorporated
Dynamet Technology Incorporated
Dynamic Flowform
EHK Technologies
ELG Metals Inc.
Enviro Tech International Inc.
Excelco Developments Inc.
F.W. Hempel & Co.
FAE S.A. Fabricación de aleaciones especiales
FIKO Ltd.
Form & Technik HgmbH
Fort Wayne Metals Inc.
G&S Titanium
GfE Metalle & Materialien GmbH
GIB Resources Incorporated
GRANDIS TITANUM
Harvey Titanium Limited
Heraeus Inc. - Medical Components Division
Hi Tech Alloys
High Performance Tube
Howmet Corporation
Hyundai Titanium Company, Ltd.
Innovative Custom Engineering ICE
Innov-X Systems, Inc.
International Drawback Services
International Titanium Powder
Jamegy Incorporated
Keywell LLC Vac Air Division
Lectrotherm
Luxembourg Company of Metals & Alloys S.A.
Medart, Inc.
Metem Corporation
Monico Alloys Incorporated
NITON LLC
North American Alloys
Pacific Cast Technologies, Inc.
Perryman Company
Pine Tree Castings
Plymouth Extruded Shapes
Plymouth Tube Company
President Company, Ltd.
President Titanium Incorporated
RathGibson
Reading Alloys Incorporated
Renton Coil Spring Company
Retech Systems LLC
Rome Metals Inc.
Roskill Information Services Ltd.
RTI International Metals Inc.
    RMI Titanium Company
    RTI Claro
    RTI Energy Systems
    RTI Fabrication
S. Letvin & Son, Inc.
Sandinox Comercio
Sapa International
Service Steel Aerospace
Shanghai Huaxia Industry Co, Ltd
Solar Atmospheres Incorporated
Specialty Metals Company
Specialty Metals Processing Inc.
Spectore Corporation
Spatem Company, Ltd.
Stratcor, Inc.
Strohecker Incorporated
Suisman Titanium Corporation
Sumitomo Corporation of America
Sumitomo Titanium Corporation
Supra Alloys Incorporated
TechSpec Incorporated
TibraSul Titanio Ltda.
TICO Titanium Incorporated
Tides Marine, Inc.
TIMET
    LOTERIOS S.p.A
    TIMET Automotive
TIODIZE Company, Inc.
Titania S.p.A.
Titanium Engineers Incorporated
Titanium Fabrication Corporation
Titanium Finishing Company
Titanium Industries Incorporated
Titanium International Fabricators (Pty) Limited
Toho Titanium Co., Ltd.
Trans World Alloys Company
Tricor Industrial Incorporated
Ulbrich Stainless Steels & Special Metals, Inc.
United Alloys & Metals, Inc.
United Titanium Incorporated
Unitti Titanium
Vacuum Process Engineering Inc.
VALTIMET
Verichek Technical Services Inc.
VSMPO
    NF & M International Inc.
Vulcanium Metals Incorporated
Wellmet International Inc.
West Penn Testing Group
Westmoreland Mechanical Testing & Research Inc.
Wire Works Studio
ZAK, Inc.