Allegheny Technologies Announces Furnace Upgrade at Brackenridge Melt Shop

Pittsburgh, PA—9/12/02—Allegheny Technologies Incorporated (NYSE:ATI) announced a project designed to significantly reduce operating costs and increase productivity at the Allegheny Ludlum melt shop located in Brackenridge, PA. The Company plans to install two new high-powered electric arc furnaces and related equipment at a cost of approximately $35 million. Cost savings are estimated to be over $20 million annually upon completion of the project. The new furnaces are planned to result in improved productivity and efficiencies throughout the entire melt shop.

Project highlights include the installation of 2 new 110-ton electric arc furnaces with the first furnace expected to be operational in December 2003 and the second furnace expected to be operational in December 2004.

"This project is consistent with our objectives to reduce costs and pursue projects that can provide a high return on capital employed," said Jim Murdy, president and chief executive officer of Allegheny Technologies. "These new furnaces significantly improve the cost position of our largest flat-rolled products melt shop while maintaining the melt shop's unique flexibility to produce one of the industry's broadest ranges of flat-rolled specialty materials products. The construction plan calls for very limited melt shop downtime as existing furnaces are to be used to help maintain a continuous supply to customers." Murdy added, "Our 2002 capital expenditure plan remains approximately $50 million, as previously announced."

RTI Names Subsidiary Executives

Niles, OH—9/10/02—RTI International Metals, Inc. (NYSE:RTI) announced the creation of five new subsidiary positions. These organizational changes are in line with the Company's continuing effort to grow and diversify its product offerings to both aerospace and nonaerospace markets.

Titanium Group:
Stephen R. Giangiordano, 45, has been named Senior Vice President of RMI Titanium Company. Mr. Giangiordano, most recently President of RMI's Galt Alloys subsidiary, will oversee RMI's technical, operating & marketing functions. He began his career at a specialty steel maker in 1979 and joined RMI in 1984.

Bruce A. Whetzel, 41, has been named General Manager of Galt Alloys, Inc. He will be responsible for all of Galt's businesses, which consist of scrap processing and the production of ferrotitanium and melted titanium products. Mr. Whetzel had been General Manager of Operations at RMI's Niles, Ohio, plant, joining the Company in 1998.

Fabrication & Distribution Group:
Michael C. Wellham, 36, has been appointed Senior Vice President of RTI Fabrication & Distribution with responsibility for all of the Group's businesses except RTI Energy Systems, Inc. He was most recently Vice President of RTI Fabrication in Houston, Texas. Mr. Wellham, who will now be located at the Company's headquarters in Niles, Ohio, came to RTI in 1998 with the acquisition of New Century Metals, Inc.

Martin J. Procko, 48, has been named
What’s New in Titanium?

Allegheny Technologies continued from page 1 - "These two advanced technology furnaces will replace four 50-year old furnaces," said Doug Kittenbrink, executive vice president & chief operating officer of Allegheny Technologies and president of Allegheny Ludlum. "Our engineers developed an innovative solution to carry out this project at a very reasonable cost with minimal melt shop downtime, continuing our long-standing tradition of making sound, cost effective capital investments. When this project is completed, Allegheny Ludlum's flagship melt shop is expected to be fully competitive. This investment is a clear indication that Allegheny Ludlum intends to remain the stainless steel industry's leader for customer service, product quality and delivery performance well into the future."

The Brackenridge melt shop produces a broad range of series 200, 300 and 400 grades of stainless steels, super stainless steels, nickel-based alloys and tool steels. Scrap metal is melted in electric arc furnaces, refined in a 125-ton AOD (argon oxygen decarburization) vessel, and most grades are then cast in a continuous slab caster. Slabs from the melt shop are eventually made into sheet, plate, strip, or Precision Rolled Strip® product forms at one of the Company's finishing plants located in Pennsylvania, Indiana, Massachusetts, Connecticut, and Shanghai, China. For more information contact Dan L. Greenfield (412) 394-3004

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 Ludlum, an Allegheny Technologies company, is a world leader in the production and marketing of sheet, plate, and strip specialty materials including stainless steel, nickel-based alloys, titanium, and titanium-based alloys. The company also produces grain-oriented silicon electrical steel products, and tool steel plate. The Allegheny Ludlum website can be found at www.alleghenyludlum.com. Allegheny Technologies Incorporated (NYSE:ATI) is one of the largest and most diversified specialty materials producers in the world with revenues of approximately $2.1 billion in 2001. The Company has over 10,000 employees worldwide and its talented people use innovative technologies to offer growing global markets a wide range of specialty materials. 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 commodity specialty 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.alleghenynovomer.com.

Vulcanium Metals International Approved

Vulcanium® Metals International announces the following approvals for its aerospace/aviation titanium products line:

- ISO-9002
- Vought
- Bombardier
- AIDC
- U.S. Department of Defense

VMI maintains two domestic distribution centers as well as long-term relationships with mills worldwide. This insures that sheet, plate, bar and billet to all specifications are immediately available with complete documentation.

For more information contact Jerry St. Clair, Senior Vice-President, by telephone at 888-326-7556 or 847-498-3111 (in Illinois), by e-mail at jstclair@vulcanium.com or through VMI’s website at www.vulcanium.com.

GfE M+M to Show Masteralloys & Gamma-Titanium-Aluminum Based Alloys at ITA Conference

Orlando, FL – GfE Metalle und Materialien GmbH (GfE M+M), a leading specialty alloy producer based in Nuremberg, Germany, will present its masteralloys and alloys based on Gamma-Titanium-Aluminum at this year’s ITA Conference & Exhibition in Orlando, Florida.

Masteralloys by GfE M+M are used in titanium and superalloys to produce special corrosion and heat resistant parts for applications such as aircraft engines, land based turbines, off-shore applications, car engines or exterior shieldings.

continued on page 3
What’s New in Titanium?

GFE continued from page 2 - The automotive industry and aerospace industry are two of the most important industrial sectors using Gamma-Titanium-Aluminum based alloys. The oxidation resistance and high creep resistance attributes of these alloys offer advantages for use at working temperatures ranging between 500° C and 850° C. They also lead to weight reductions of up to 40 per cent, thus efficiency and power of turbines and engines can be increased significantly.

“We use our know-how to design and manufacture high quality alloys that meet our customers’ requirements,” states Dr. Siegfried Sattelberger, Joint Managing Director of GfE M+M.

GfE Metalle und Materialien GmbH (GfE M+M), Nuremberg, develops, produces and sells alloys, metal powders and coating materials for specific high tech applications, such as aerospace and telecommunications. GfE M+M has over 40 years of materials technology know-how and its R&D department is constantly developing new materials according to customers’ requirements. GfE M+M’s production processes are accredited by DIN EN ISO 9001:2000. For more information contact Peter Kottusch at e-mail: pko@gfe-online.de or visit their web site at: www.gfe-online.de.

RTI continued from page 1—General Manager of Sales for RTI Fabrication & Distribution, where he will oversee the marketing of RTI's growing line of value-added products. Mr. Procko joined the Company in 1980 and was most recently National Account Manager for RMI.

Christopher P. Clancy, 37, will head a new subsidiary, RTI Commercial Products, Inc. He is currently responsible for RTI's commercially pure titanium products, including welded tube. In addition to those industrial products, the new subsidiary will focus on the development of various consumer products. Mr. Clancy joined RTI in 1996. For more information contact: Richard E. Leone at (330)544-7622 or visit their web site at www.rti-intl.com.

Sandvik Expands Within the Japanese Mining & Construction Market

Sandvik’s Mining and Construction business area has acquired Mazda Earth Technologies´ operations in Japan. Mazda Earth Technologies is a leading manufacturer of machinery and equipment for the Japanese mining and construction industry. The company offers a wide range of machinery, hammers and breakers, tools and spare parts as well as a well-developed service organization on the Japanese market.

The operations being acquired have annual sales of about SEK 500 M and include the Toyo brand, development and production rights as well as a sales & service organization with about 30 employees. Consolidation will be from and including 11/1/02 and the acquisition will have a positive effect on Group earnings in 2003.

"The acquisition is an important element in our growth strategy and strengthens Sandvik Mining & Construction’s position in Japan" says Anders Ilstam, President of Sandvik Mining & Construction. "We will now become one of the leading players within the Japanese mining and construction industry, with an established service organization in an area with a substantial aftermarket. The products complement parts of our current program and we gain the access to the strong Toyo brand."

Sandvik products have been on the Japanese market since 1880. In 1961 Sandvik established its own subsidiary in Japan and in 1976 a plant for production of cemented-carbide tools. Today, Sandvik K.K. has its headquartes in Kobe. Invoiced sales amounted to SEK 2,100 M in 2001, with 550 employees. For additional information, contact Anders Ilstam, Sandvik Mining & Construction, +46 26 26 51 04.

Sandvik is a high-technology engineering group with advanced products and world-leading positions in selected areas - tools for metalworking, machinery and tools for rock excavation, stainless steel, special alloys and resistance heating materials and process systems. The Group has 37,000 employees in 130 countries, with annual sales of approximately SEK 55,000 M.

Sandvik Mining and Construction is a business area within the Sandvik Group and a world-leading manufacturer of drilling and excavation machinery, tools and service for the mining and construction industries. Annual sales amount to SEK 14,800 M, with about 8,000 employees. Mazda Earth Technologies Co. is wholly owned by Mazda Motor Corporation. Its business includes manufacturing and sales of machinery to the construction-, civil engineering and mining industries.
What’s New in Titanium?

10,000 lbs. of Titanium Vacuum Heat Treated

Souderton, PA - 05/02, a 10 foot, 10,000 lb., titanium ingot was vacuum heat treated at the Solar Atmospheres. A VFS HL84, 2 bar quenching furnace homogenized the titanium alloy resulting in a chemically uniform structure. The metallurgical specifications required high temperature in high vacuum (2350°F, 10^{-3} torr) for 24 hours.

Vacuum heat treating manager, Don Jordan, was very pleased with the furnace operation and cycle. Jordan stated, “it was a 10,000 lb. beast that came out looking beautiful. The pictures clearly show the benefit of vacuum heat treating, with the material so bright that the grain structure is readily revealed. There is no concern with alpha case (surface contamination) when processing titanium in Solar’s vacuum furnaces.”

There will be at least half a dozen of these ingots that will need to be processed in Solar’s large furnaces, which are 10’, 12’ and 24’ long, with load capacity up to 50,000 lbs.

For more information contact Bob Lacock at 800-347-3236 or visit their website at www.solaratm.com.

New Equipment Adds to Zak’s Arsenal of Large Machining Capabilities

Phoenix
CNC: Vertical Boring Mill
Robotic: Live Tooling Arm
20 Ton Capacity
180” Rotary Table
200” Swing
66” Under the Tool

G & L
CNC: Horizontal Boring Mill
Dual Pallet, Live Tooling
10 Ton Capacity
Full “W” Rotary Axis
X = 120”  Y = 90”
Z = 60”  B = 30”

Spectore Announces Continued Affiliation With Major Design Titanium Jewelry Design Competition

Deerfield Beach, FL 9/2/02 – After serving as co-sponsor for this year’s 2002 World Titanium Council Titanium Jewelry Design Competition, Spectore has announced plans to assist again in the 2003 event.

This year’s competition, the first of its kind, drew inquiries from over 500 jewelry artists and designers from around the world. The competition hosted almost 100 entries vying for the Grand Prize, which included an all expense paid trip to Las Vegas where the winning entries were on display at the largest and most prestigious jewelry trade show of the year. The competition was covered closely by every major jewelry magazine, providing tremendous exposure and credibility to titanium as a viable jewelry material.

As in the 2002 event, Spectore has committed to provide materials, technical assistance and manufacturing services to next year’s designers, allowing them to focus on the aesthetics of their designs.

Anyone interested in viewing the 2002 winning designs or obtaining information regarding the 2003 event should contact Ed Rosenberg or Larry DeBerry at (954)481-8422.

Spectore, the world’s largest designer, developer and manufacturer of titanium jewelry, gifts and accessories has committed to a long term relationship with this event in order to introduce more designers to the numerous attributes of titanium for jewelry use.

19th Annual Conference & Exhibition Space Available!

Have you made your reservations for the conference yet? Visit the ITA booth during the 18th Annual Conference & Exhibition in Orlando and pre-reserve your 2003 exhibition space. Pay nothing until January 1, 2003!
Inside the ITA

The Association At Work For You

The ITA is exhibiting at the MD&M and Corrosion 2003 Nace shows and we would like to ask for your assistance as an ITA member! The Association is requesting member volunteers to assist in manning the ITA booth to answer basic technical questions and hand out literature. As a member of the Association, you have a unique opportunity to serve the titanium industry by donating your time, as well as to personally gain the benefit of being able to network with potential customers as well as participate in the show.

ITA will provide volunteers with complimentary exhibition badges for the duration of the show. If you are interested in volunteering time, please contact ITA at your earliest convenience to advise how many volunteers and how many hours you would like to donate. By attending these shows ITA has the opportunity to connect the public interested in using titanium with titanium specialists from all over the world who may offer technical and sales assistance.

Show Dates:
Medical Design & Manufacturing West
Anaheim, CA USA February 18-21, 2003
Corrosion 2003, NACE
San Diego, CA USA March 16 - 20, 2003

To volunteer contact Stacey Jorgensen at sjorgensen@titanium.org.

Titanium Update Newsletter Articles

The Association publishes a monthly newsletter concerning the latest occurrences in the industry, description of new or expanded applications for titanium and a calendar of events affecting those interested in titanium. The “Titanium Update” is delivered electronically to over 3000 individuals on a monthly basis.

ITA members are encouraged to submit their press releases for publication in the monthly titanium newsletter. This is a free service for all ITA members.

If your company would like to participate in the next newsletter please be sure to add ITA on your media release list. Press releases should be delivered to ITA no later than the 15th of every month to be included in the following month’s edition. To add your name to the monthly newsletter or to submit your press releases sent your name, email address and article to: sjorgensen@titanium.org.

Committee Meetings Scheduled

Mark your calendars! The following committees will meet on October 7-8, 2002 during the 18th Annual Conference and Exhibition. The committees are tentatively scheduled as follows:

Monday, October 7, 2002
3:00 pm—4:00 pm
Safety Committee

4:00 pm—5:00 pm
Membership Committee

Tuesday, October 8, 2002
3:00 pm—4:00 pm
Applications Committee

ITA On-line Classified Ads

ITA members rely on the ITA website for the latest news & upcoming events. The website reaches more qualified personnel for titanium related operations.

Advertise:
Equipment, Materials, Products, or Business Opportunities.

The Classified’s section of the ITA Web Site is located at www.titanium.org. Simply click on ITA E-News & Classified’s icon from the Home Page. When you submit a classified ad, ITA will proof your advertisement, process your payment, and post it to the website within 2-3 business days. ITA is not liable for confidentiality in classified advertising at any time and reserves the right to reject any advertising not in compliance with ITA standards. **This is a free service to ITA Members**

Non-Member Fee: $25.00 for 120-day period. You will be notified via e-mail 3 weeks prior to the expiration date at which time you may renew your ad for an additional 120-days. **See page 7 for current ads!**

Is your company’s Buyers Guide profile up to date? Visit the online Buyer’s Guide at www.titanium.org to make sure your prospective customers can see what you have to offer!

**Visit the ITA Web Site for all updated conference information!**
Technical Discussion Forum

Just when you thought the ITA web site couldn’t get any better, you discovered the ITA Technical Discussion Forum. The Technical Discussion Forum is an excellent opportunity to educate the general public on titanium. This Forum allows individuals to post questions or seek advice on applications involved with titanium.

The openness and transparency of technical information benefits industry at large, a public forum such as this will only be successful if individuals respond to the posted questions. ITA relies on membership to actively participate in assisting with technical questions. The next few editions of the newsletter will feature the most recent inquiries that need your help.

How to do I access the Technical Discussion Forum?
2. Click on the “Technical Support” tab from the navigation bar.
3. Click on Technical Discussion Forum.
4. The discussion forum is divided among many topics and areas of interest. Pick your area of expertise and enter your response.
5. Or, go to the bottom of the screen and click on “Getting Started”. This is a basic tutorial.

How do I respond to a question?
1. Click on the question.
2. In the “Add a Message” box, write your comments (No password is necessary).
3. Then click on the Preview/Post Message button.

Why should I participate?
ITA relies on membership to actively participate in assisting with technical questions. With the Technical Discussion Forum, you can check in and respond at your leisure. That is the beauty of this program! You never know what potential customer contacts you may find by answering the posted inquiries.

The Association is designed to educate people on titanium. Your participation in this program is greatly appreciated.

Recent Inquiries - Do you have a comment?

Titanium Grade 2:
Fire Hazard of Titanium Grade 2 with Enriched Air
What kind of potential hazard is there if an air sparger of Titanium Grade 2 is used for 25 vol% Oxygen Enriched Air at T 200 degC and P 16.5 barg? Air sparger is immersed in acidic liquid phase.

Temperature & Pressure Ratings:
Annealing procedure for Titanium sheet
We have some Titanium sheet 2mm thick confirms to ASTM B 265 Grade II. We tried to form a disc in the hydraulic press but, during the process the sheet brittled & cracked due to its high hardness. We believe this can be annealed & the hardness can be reduced to enable for disc operation in the hydraulic press. Any advice.

Processing Titanium:
Titanium stamping, cold forming
I'm looking for a supplier with the capability to stamp & deep draw Ti. Preferably in Asia or Europe. Any ideas?

Processing Titanium: Grain Direction
I'm trying to identify a cheap and repeatable way to determine the grain direction of cold rolled titanium CP 1 - 4, which has been mechanically polished. Is there a recommended way to treat the surface, and thereby identify the grain direction under a microscope?

Anodizing Titanium: Information about techniques or methods utilized in the anodization process.
1. Hardness: What anodizing process will maximize the hardness of the Ti? What Re value can be achieved?
2. How tight can the anodize thickness be controlled and what thickness is recommended?
3. What effect on material color will the hardening process induce?
4. What process can be used to achieve coloring of the Ti? What are the colors and how durable are they?
5. Can the Ti be welded (induction/laser/brazed) to 17-4?
6. Can the welding be done after the anodizing?

Special Note For The Frequent Traveler… The bulletin board is traveler friendly! For those often on the road, you may check the bulletin board by viewing the topics for a day or week. An overall view of issues can be found by utilizing the tree view icon.
ITA Classified Ads

Business Opportunity:
Senior Executive (Titanium Metallurgist)
TalentCatch is an executive search firm conducting a search for a senior executive (Metallurgist) with 10-15 years of experience in titanium or reactive metals production for a funded startup venture. Knowledge of titanium material specifications, knowledge of titanium or reactive metals melting, casting, and mill processing. Overall knowledge of the titanium industry supply chain capabilities and characteristics. Responsibilities include providing key technical information regarding manufacturing and product capabilities of the titanium industry, assess the technical requirements of launching new powder based titanium product offerings, design and manage test qualification programs for new titanium product offerings. BS in Metallurgical Engineering required and MS preferred. Location Maryland. Compensation is $80-110K with 10% bonus plus relocation. Please submit detailed resume in Microsoft word format to mike@talentcatch.com

Materials For Sale:
www.ti4sale.com
Largest Stock of Ti Materials on the Internet
Contact Name: Vasily Semeniuta
Contact Email: info@ti4sale.com
Description: For all your needs in Ti materials please visit new page www.ti4sale.com, where you can find largest stock of titanium materials currently published on the Internet.

Titanium In Stock
Name of Your Company: Trans World Alloys
Contact Name: Gary Rothman
Contact Email: grothman@twalloys.com
Description: We stock Ti Sheet, Plate, Bar and can forge your exact size from billets we have in stock. Competitive pricing and prompt service in 6-4, 2-4-2, 6-6-2 and other titanium alloys.

Ti-6-4 sheets in stock
Name of Your Company: affinity international, LLC
Contact Name: John
Contact Email: john1098@adelphia.net
Description: We have high quality titanium powder in stock as well as Ti-6Al-4V sheets AMS4911 in stock: Thickness as 0.032” 0.040” 0.050” 0.063” 0.080” 0.125” 0.250” 0.5”

Ti/Fe Alloy Powder & Pellets Available
Name of Your Company: International Minerals Limited
Contact Name: Flip Opperman
Contact Email: flip@imc-dem.com
Description: Have available TiO2/Fe2O3 granulated pellets/powder. Total tonnage available ± 20 000 000 mt. Shipments of between 45 000 - 500 000 mt per month.

Titanium Extruded Shapes
Name of Your Company: Plymouth Extruded Shapes
Contact Name: Sandy Winders
Contact Email: swinders@plymouth.com
Description: Plymouth Extruded Shapes, a member of the Plymouth Tube Company, manufacturers titanium and steel extruded shapes for numerous industries, including aerospace, transportation, heavy equipment and machinery, food and dairy, pulp and textile, architectural and medical industries. Call to find out how we can save you cost, labor and scrap.

“John Hardy” is an American Jewelry Company, established for more than 15 years and well known for its intricate Silver pieces, Silver & Gold and Precious Stones Jewelry. Although its core business is in Jewelry, in recent years, the company has expanded into a number of new categories, including Home, Men's Jewelry, Baby Jewelry and Candles. The production is mainly Asian particularly made in Bangkok and Bali Island. The brand now has sales of about $65 million and its products are distributed in about 250 stores, primarily independent jewelers, as well as in Saks Fifth Avenue and Neiman Marcus.

John Hardy is currently having the Coil Bracelet added into their Jewelry line and would like to order titanium sheet coil to make coil bracelets. What we are looking for the Coil Spring that going inside the bracelet (size 0.5mm x 6mm). It is not necessary to be in Spring Coil, it could be flat sheet that match our inquiry for the Coil Bracelet.

Products For Sale:

Titanium Jewelry Available At Exclusive ITA Member Prices
Name of Your Company: Spectore Corporation
Contact Name: Andrea
Contact Phone: (954) 481-8422
Description: ITA member companies – Offer your employees an opportunity to purchase titanium jewelry direct from the world’s largest manufacturer. Products include rings, bracelets, earrings, necklaces and accessories, all made with titanium or titanium and 18K gold. Many styles with diamonds and other precious stones. Call today for details on how to obtain Spectore Titanium Jewelry Catalogs for your company. Visit the web site at www.spectore.com to view the extensive product line and make your selections. Contact us for pricing and availability. Please be sure to identify yourself as and ITA member for special pricing. Makes a great holiday perk.

Materials: Wanted
Contact Name: John
Contact Email: john@johnbali.com or call: 62-361-890888

John Hardy is currently having the Coil Bracelet added into their Jewelry line and would like to order titanium sheet coil to make coil bracelets. What we are looking for the Coil Spring that going inside the bracelet (size 0.5mm x 6mm). It is not necessary to be in Spring Coil, it could be flat sheet that match our inquiry for the Coil Bracelet.
**Current Membership Includes the Following Companies**

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<th>Company Name</th>
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<td>Affinity International, LLC</td>
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<td>F.W. Hempel &amp; Co.</td>
<td>Sumitomo Titanium Corporation</td>
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<td>FAE S.A. Fabricación de aleaciones especiales</td>
<td>Supra Alloys Incorporated</td>
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<td>TechSpec Incorporated</td>
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<td>Titanium Finishing Company</td>
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<td>International Titanium Powder</td>
<td>Titanium Industries Incorporated</td>
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<td>JSC &quot;FIKO&quot;</td>
<td>Toho Titanium Company, Ltd.</td>
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<td>Trans World Alloys Company</td>
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<td>Lectrotherm</td>
<td>Tricor Industrial Incorporated</td>
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<td>United Alloys Aircraft Metals, Inc.</td>
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<td>United Titanium Incorporated</td>
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Founded in 1984 the International Titanium Association is a nonprofit networking trade association for the titanium industry. The primary focus of the Association is to promote the continued growth of the industry as well as educate the public on benefits and implementation of using titanium. Current membership includes 93 organizations.