ITA has a long history of organizing business and technical conferences & exhibitions centered on the titanium industry. This year’s event will continue the tradition of excellence that we have established and will exceed all expectations. In order for you to stay abreast of this dynamic and growing industry you must be in attendance at the 18th Annual International Titanium Association Conference and Exhibition. Whether you are in the titanium market or new to the industry, you won’t want to miss the only conference dedicated exclusively to titanium.

The conference agenda provides a business/technical program and forum for discussion integrating all aspects of the expanding titanium industry. This years conference will address material developments in the titanium market-place, applications and technology, and will be comprised of speakers on the forefront of the industry.

Inside this issue:
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ITA Exhibition 3
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18th Annual Conference and Exhibition Underway

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The conference agenda provides a business/technical program and forum for discussion integrating all aspects of the expanding titanium industry. This years conference will address material developments in the titanium market-place, applications and technology, and will be comprised of speakers on the forefront of the industry.
What’s New in Titanium?

Current Conference Sponsors Include:

8th Annual Golf Classic Sponsors:
Tournament Golf Flags Sponsored by TIMET
Golf Balls Sponsored by STRATCOR
Longest Drive Contest
Sponsored by RTI International Metals, Inc.
Golf Tournament Winner's Baskets
Sponsored by Reading Alloys Inc.

Registration Materials:
Name Badge Lanyards Sponsored by RTI International Metals, Inc.
Registration Bags Sponsored by Zak Inc.

Catered Events:
Exhibit Hall Open with Breakfast
Sponsored by Howmet
Sunday Exhibit Hall Reception
Sponsored by RTI International Metals, Inc.
Networking Luncheon in Exhibit Hall -
Sponsored by Perryman Company
Exhibit Hall Refreshment Break
Sponsored by Strohecker Incorporated
Monday Exhibit Hall Reception
Sponsored by Dynamet Incorporated
Annual Luncheon
Sponsored by TechSpec Incorporated
Luau in the Palm Gardens/Gala Reception
Sponsored by Allegheny Technologies Inc

Prizes/Contests:
2003 Prize Drawing
Sponsored by Rome Metals Inc.
Conference Pens
Sponsored by Grandis Metals

New Member Spotlight…. Retech Systems—LLC

Retech builds vacuum and controlled atmosphere furnaces for melting, castings and atomizing reactive metals, superalloys and other high performance metals. Retech is the worlds leading supplier of hearth melting furnaces, including the worlds largest titanium producing plasma and electron beam furnaces. In addition Retech builds titanium consumable casting furnaces, VAR furnaces, coldwall induction furnaces, plasma consolidators, and is the leading supplier of vacuum precision investment casting furnaces for DS/SC/EQ casting. For more information regarding Retech Systems—LLC, visit their website at: www.retechsystemsllc.com

RTI Secures EADS/Airbus Supply Contract in Europe

NILES, OH--(BUSINESS WIRE)--4/26/02--RTI International Metals, Inc., (NYSE:RTI) announced that, through its European subsidiary, RTI Europe Ltd., it has entered into a new contract with Europe's largest aerospace group, European Aeronautic Defense and Space Company (“EADS”), to supply value-added titanium products and parts through 2004, subject to extension.

The products will be used in military aircraft, including the Eurofighter Typhoon and the highly successful Airbus family of civil aircraft. The contract continues RTI's long-term involvement in these programs. In addition to mill products, RTI will supply cut, shaped and machined items direct to EADS and Airbus manufacturing plants in France, Germany, Spain and the UK from its value-added processing facilities in Europe.

The increased supply of parts direct to the production lines reflects the success of RTI's strategy to add value to its products and the supply chain. The contract is expected to make RTI the second largest titanium supplier to Airbus.

RTI International Metals, headquartered in Niles, Ohio, through its various subsidiaries, manufactures and distributes titanium and specialty metal mill products and extruded shapes, as well as engineered systems for energy-related markets and environmental engineering services. The company's products are used for aerospace, defense, industrial, and consumer applications. For more information please contact Richard Leone at (330) 544-7622 or visit their web site at: www.rti-intl.com
Exhibition Information

Exhibition Filling Quickly

There are only 4 exhibit spaces remaining for the 2002 Exhibition. Upon reserving an Exhibit Space you must have one Conference attendee who is prepaid for their conference registration. To select your booth space visit the conference area of the ITA web site at www.titanium.org or complete the attached registration form and fax to (303) 404-9111.

Exhibitor’s Schedule

Sunday, October 6, 2002
8:00 am - 11:00 am Freeman Decorating Company Set Up Exhibition
11:00 am - 4:00 pm ITA Exhibitor Move In
5:00 pm - 7:00 pm Exhibit Hall Reception (hors d’oeuvres & drinks) **Sponsored by RTI International Metals, Inc.**

Monday, October 7, 2002
8:00 am - 9:00 am Exhibit Hall Open With Breakfast **Sponsored by Howmet Corporation**
12:00 am - 2:00 pm Networking Luncheon in Exhibit Hall **Sponsored by Perrymann Company**
5:00 pm - 7:00 pm Exhibit Hall Reception (hors d’oeuvres & drinks) **Sponsored by Dynamet Incorporated**

Tuesday, October 8, 2002
8:00 am - 9:00 am Exhibit Hall Open With Continental Breakfast
2:30 pm - 3:00 pm Exhibit Hall Break with Refreshments **Sponsored by Strohecker Incorporated**
3:00 pm - 5:00 pm Exhibit Hall dismantle
5:00 pm - 7:00 pm Gala Event—Luau in Palm Gardens **Sponsored by Allegheny Technologies Incorporated**

Current Exhibitors Include:

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<td>Bahco/Milford Saw Blades</td>
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<td>321</td>
<td>Ulbrich Stainless Steels &amp; Special Metals, Inc.</td>
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### ITA Conference Details

#### Feng Shui with Carol Cannon

On Sunday, October 6, 2002 ITA will offer a special Feng Shui workshop taught by Ms. Carol Cannon from 10:00 am—11:30 am. Registered Spouses may attend this presentation at no additional charge, no reservation required. Registrants may attend for a fee of $60.00.

This class will cover the following:
- Feng Shui Origins
- Various Schools of Thought of Feng Shui
- Understanding the Feng Shui Bagua
- How to Apply Feng Shui to Your Home/Office
- Basic Feng Shui “Cures”
- Questions & Answer Time

#### Titanium Achievement Awards

The ITA Board of Directors has created the Titanium Achievement Award to recognize exceptional contributions to the advancement of titanium applications and technology. Each award recipient has demonstrated outstanding achievement in his or her field and the achievement benefits the titanium industry at large. The Titanium Achievement Awards are presented each year at the ITA Conference and Annual Meeting. If you are an ITA member, you may cast your nomination by visiting the Conference Section of the ITA website at [www.titanium.org](http://www.titanium.org). All nominations are due July 1, 2002.

#### Sponsorship/Advertising Space

As the 18th Annual Conference approaches sponsorship opportunities are quickly filling up!

**Sponsorship Information:**
By becoming a sponsor you have the opportunity to add to your organization’s visibility and prestige in the titanium market and among its leaders. The 2002 Sponsorship items are provided in 3 different “grade” levels to suit your desired participation level. ITA sponsors are acknowledged in the Book of Abstracts as, on the ITA Web Site, signage at Orlando Conference & Exhibition, as well as recognition in all conference literature once a commitment to sponsor is made.

**Advertisement Information:**
This year we are offering advertisement space in our Book of Abstracts. Attendees receive their Book of Abstracts when they first arrive and refer to it constantly throughout the conference. The ITA conference attracts professionals in titanium from throughout the United States and abroad thus making advertising a wise choice for any organization.

Because sponsorship opportunities are claimed quickly, visit the ITA web site at [www.titanium.org](http://www.titanium.org) to see if the sponsorship you are interested in is still available. The earlier you commit, the more benefits you will receive.

#### 8th Annual Golf Classic

The 8th Annual Golf Classic will begin at 7:00 am at the Panther Lake Course of the Orange County National Golf Center and Lodge (OCN) on Sunday, October 6, 2002. The cost per golfer is $150 and includes: green fees, lunch, transportation.

Panther Lake has been named on of Golf Magazine’s Top 10 You Can play in the US in 1997 and more recently awarded 4 ½ stars in Golf Digest’s for “Best Places To Play” 2000-2001.

*This event is limited to the first 100 golfers.*

#### Who Should Attend?

Professionals from the titanium industry and their suppliers, including:

- **Executive Staff**
- **Sales & Marketing**
- **Operations, Quality**
- **Purchasing, Engineering**
- **Product Development**
- **Suppliers to the Titanium Industry**
- **Potential Users of Titanium**
- **Academics and Professors**

When you include the networking and exhibition, along with the 8th Annual Golf Classic, you will not want to miss this event.

#### Royal Pacific Resort

Hotel Reservations should be made by contacting the Royal Pacific Resort directly by calling (888) 837-2273. Remember to tell them you are with the International Titanium Association Conference to receive a discounted room rate!
Pre-Registration Cut-Off: September 16, 2002

Your receipt and attendance confirmation will be mailed to you once the ITA has processed your Registration.

QUESTIONS? Visit www.titanium.org or contact 303-404-2221

Today's Date: ____________________________
First Name: ____________________________  Last Name: ____________________________
Title: ____________________________  Organization: ____________________________
Mailing Address __________________________________________
City: ____________________________  State: ____________________________  Zip: ____________________________  Country: ____________________________
Telephone: ____________________________  Facsimile: ____________________________
E-mail: ____________________________  Spouse's Name: ____________________________

REGISTRATION FEES: Conference Registration includes: All scheduled ITA functions, entrance to Exhibition, Breakfast, Lunch, and all sponsored receptions. Attendees will also be mailed Conference Proceedings. Spouse registration includes entrance to Feng Shui Presentation, evening receptions, and gala event on Tuesday evening.

EnterSub-Totals:

Before September 16th:
- $595 ITA Members
- $795 Non-Members
- $295 Academic
- $150 Spouse

After September 16th:
- $795 ITA Members
- $995 Non-Members
- $295 Academic
- $150 Spouse

*Academic is any individual currently employed full time by an education institution. (Must include a valid copy of employee ID with registration).

2002 Conference Embroidered Polo Shirt: $35 each
- Color: Navy, Black, White

2002 Conference Baseball Cap: $15 each

SPECIAL EVENTS:

8th Annual ITA Golf Classic: Sunday, October 6th, 7 a.m. – 1 p.m. (Shotgun Start) $150 per golfer (Does not include club rental) Tournament is limited to 100 participants. Eligibility will be based on your registration date
- Registrant
- Spouse

Feng Shui Presentation: Monday, October 7th, 1 p.m. – 5 p.m. $60

**Please Note: If paying by Electronic Wire, you must add $25.00 U.S. to the registration fee

Enter Grand Total: $__________

METHOD OF PAYMENT: (Prepayment Required)
Paying by Credit Card? Select one ✓
- Only MasterCard or Visa Accepted
- Credit Card Number: ____________________________
- Expiration Date: Month: _________ Year: _________
- Authorized Signature

CANCELLATION POLICY: A $15 Processing fee will be charged on all cancellations. Cancellations received in writing before August 19th will receive 75% Refund. Cancellations received in writing before September 16th will receive 50% Refund. No Refunds will be provided after 9/16/02.

SPECIAL NEEDS: In compliance with ADA regulations, please notify ITA if you require any special assistance or have restricted dietary needs.

Mail Completed Form to:
International Titanium Assoc., 350 Interlocken Blvd.,
#390, Broomfield, CO 80021-3485 USA

Fax Completed Form to:
International Titanium Assoc.
(303) 404-9111
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. This section of the newsletter is dedicated to feature the most recent inquiries that need your help.

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 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?
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.

Brazing: Soldering to Titanium
I need to know if there is a simple way to solder to Titanium without the use of Argon gas, or a vacuum environment. I am thinking plating Titanium with silver, gold, nickel, or chrome may be an option. Any ideas would really be appreciated.

Brazing: Fatigue Failures of Titanium and its Alloys
Where do we get the K1c samples?

Processing Titanium: Heat treatment
What is the recommended forging temperature for Gr.5 titanium. I plan on forging some bolts and would like to know if there is a need for a solution annealing, or aging after forming. The specification is ASTM B348.

Cleaning Titanium:
Cleaning dried on Titanium Dioxide
What is the best method or chemicals to dissolve Titanium Dioxide from cheese making equipment?

Processing Titanium: Titanium etching
I am trying to find out what are the pitfalls for etching titanium and who can etch titanium (in large quantities).

Corrosion:
Hydrogen Embrittlement of Titanium
We have been told that titanium is not a good choice for impellers operating at high tip speeds in hydrogen service. Others disagree. Is there a strong possibility for hydrogen embrittlement? At what temperatures? Under what conditions?

Temperature & Pressure Ratings:
High Temperature Structures
Are there any titanium containing alloys suitable for lightly loaded mechanical structures operating near continually at around 1150°C?
ITA Classified Ads

Business Opportunities: In Search Of

Marketing Manager
Contact Name: Kathy Migely
Contact Email: kathymigely@hotmail.com
Description: Marketing Manager who can come into a titanium/super alloys fabricator and conduct an in-depth market analysis to uncover new applications for client’s current product line as well as potential good prospects for new product offerings created from capital equipment. Career advancement prospects excellent. Engineer with 5 to 10 years experience. MBA a plus. West Coast location.

Design Marketing Engineer
Contact Name: Kathy Migely
Contact Email: rmf@stargate.net
Description: Design Marketing Manager who can come into a titanium/super alloys fabricator and conduct an in-depth market analysis to uncover new applications for client’s current product line as well as potential good prospects for new product offerings created from capital equipment. Career advancement prospects excellent. Engineer with 5 to 10 years experience. MBA a plus. West Coast location.

Materials: Wanted

Ti Na Ti Alloy Powders Wanted
Name of Your Company: Ceramet Technologies Pte Ltd
Contact Name: Dunstan Peiris
Contact Email: cmet@ceramet.com.sg
Description: Looking for Ti and Ti-Alloy powders of size <40 microns

Materials: For Sale

Niobium Titanium Rods For Sale
Name of Your Company: Whatcom
Contact Name: David Pollack
Contact Email: davepoll@yahoo.com
Description: This product is 46.5% Titanium. No other composition percentages available. Approximately 5700 lbs. - .126” dia. x 23-11/16” lg. Approximately 900 lbs. - .278” dia. x 23-11/16” lg. Approximately 110 lbs - .131” dia. x 23-11/16” lg. Packaged in crates on 5 skids weighing a total of approx. 7500 lbs.

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.

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.

Calendar of Events

June
3-6  20th Anniversary Medical Design & Manufacturing Show, New York, NY
8-13  Wire Expo 2002, Chicago, IL
10-13  Aeromat 2002, Orlando, FL
11-13  Power Gen Europe 2002, Milan, Italy
26-28  Electronic Materials Conference, Santa Barbara, CA

July
7-12  SPE Forum Series II: The Offshore Facility of the Future, Park City, UT
22-28  Farnborough Air Show, Farnborough, England, UK

24-26  60th Annual Device Research Conference, Santa Barbara, CA
31-8/3 PGA Fall Expo, Reno, NV, USA

August
12-14  Corrosion Engineering Fundamentals, Golden, CO
27-30  Offshore Northern Seas 2002 15th International Conference & Exhibition, Stavanger, Norway

October 6-8
International Titanium Association’s 18th Annual Conference & Exhibition, Orlando, FL
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 106 organizations.