

Executive Summary

This Is . . . This is a summary of the 102nd AmeriTAC meeting and related meetings held at the Denver Marriott City Center, Denver, CO on June 16, 2010.

Attendance & Participation Here are the attendance and participation statistics for the meeting:

- 52 Total Attendance including Project Team, Project Development Committee, and AmeriTAC meetings
- 21 Member Companies represented
- 1 Pending Potential Member
 - Sumitomo Metals – Satoshi Matsumoto
- 7 Guests
 - G2MT – Joshua Jackson, Kamalu Koenig, Angelique Lasseigne, and Scott Lockerd
 - MTI Scholarship Winner – Samantha Lawrence
 - Ross Technology – Vinod Sikka
 - DOE – Mike Soboroff
- 52 Forum Questions submitted and discussed

Presentation – Super-hydrophobic Surface Coatings Vinod K. Sikka/Ross Technology Corporation gave a presentation titled "Super-hydrophobic Surface Coatings." This was a state of the art presentation on creating surfaces that repel water with contact angles exceeding 150 degrees. In addition to being super-hydrophobic, coatings can also be oleophobic, if desired. This presentation covered details in the following areas:

- Recent Advances in Technology
- Durability and Corrosion Data
- Application Methods and Examples
- Field and Lab Testing
- Opportunities for MTI Members

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Presentation – Comprehensive Approach to Assessment of Hydride Formation in Alpha Ti and Ti Alloys

Angelique Lasseigne/G2MT gave a presentation titled “A Comprehensive Approach to the Assessment, Evaluation, and Characterization of Hydride Formation in Alpha Titanium and Titanium Alloys.”

Hydriding of titanium is a substantial problem in equipment, piping, and tubing used in processing industries. Failure to closely follow the guidelines for titanium processing (fabrication, welding, heat treatment, and more) at any point throughout its life cycle can result in hydrogen accumulation and eventual failure by hydriding. The purpose of the titanium-hydride literature review and evaluation was to determine the most significant factors affecting hydride formation in alpha titanium and its alloys and the potential methods to mitigate and monitor the rate of hydride formation.

Member Orientation Meeting

New members, first-time member attendees, and potential members participated in a Member Orientation Meeting to obtain an overview of the MTI organization and meeting process. This purpose of this meeting was to ensure members obtain maximum value from their participation in MTI.

2 Projects Approved

The BOD approved and funded 2 projects:

- Pneumatic Leak Testing of Heat Exchanger Tubing (\$75k)
- Duplex Alloy Microstructures (\$48,850)

9 New Project Teams Formed

9 new potential project teams formed during AmeriTAC 102:

- Advanced Corrosion Testing Design (op)
- Analysis of Corrosion Databases (oq)
- Metals – Who Makes What (or)
- Fabrication and Manufacturing Video Library (os)
- Relaxation Phenomenon with FRP Flanges (ot)
- FRP Pipe Design and Installation Guide (ou)
- Field Fabrication of Large Diameter FRP Tanks (ov)
- Erosion Resistant Ceramics (ow)
- Manufacture of Today’s CRAs Seminar (ox)

Future Meetings

Here are the MTI meetings scheduled to date:

- AsiaTAC 2010, September 15-17, 2010 – Shanghai, China (Renaissance Shanghai Zhongshan Park Hotel)
- BOD Strategic Planning – Baltimore, MD (Marriott Inner Harbor)
- AmeriTAC 103, October 26-27, 2010 – Baltimore, MD (Marriott Inner Harbor)

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Project Team Meetings

These 14 project teams met during AmeriTAC 102. Project numbers are in parentheses with alphabetic (ab) denoting potential projects and numerical (123-08) denoting funded projects.

- Advanced Metal Dusting Resistant Materials (188-08)
 - Cracking of Dissimilar Welds (og)
 - Data Retrieval Services for MTI (189-08)
 - Demolition of Obsolete Equipment (197-10)
 - Design for Inspection (177-07)
 - Duplex Alloy Microstructures (nv)
 - Hydride Formation in Alpha Ti & Ti Alloys Literature Search – (194-09)
 - Global FRP Standards Review (oh)
 - MIC Corrosion of Lean Duplex Stainless Steels (oj)
 - O-Ring Identification (ob)
 - Pneumatic Leak Testing of Heat Exchanger Tubing (nl)
 - 2nd Statistical Analysis of NDE Data (191-08)
 - Training Team for Elastomers (mx)
 - University of Akron Textbook for Teaching Process Industries Corrosion (od)
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Project Development Committee Meetings

Project Development Committees (PDC) match members' needs with new and existing technologies to identify new potential projects. These 3 PDC's met during AmeriTAC 101:

- New Materials—Polymers PDC
 - New Materials—Metals PDC
 - New Materials—Ceramics PDC
 - Integrity & Condition Assessment PDC – Brainstorming Session
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