

Executive Summary

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This is a summary of the 104th AmeriTAC meeting and related meetings held at the Hotel Contessa, San Antonio, TX on 21-24 February 2011.

Attendance & Participation

Here are the attendance and participation statistics for the meeting:

- 91 Total Attendance including Project Team, Project Development Committee, and AmeriTAC Meetings.
 - 40 Member Companies represented
 - 2 Potential Members
 - GE Water & Process Technologies – Mel Esmacher
 - WFI International – John Cates
 - 10 Guests
 - Dean Corrosion Technology – Sheldon Dean (MTI Fellow)
 - EMS – Scott Farthing (AmeriTAC Speaker)
 - KRMC – Kirk Richardson (MTI Consultant)
 - MTI Fellow – Bill Fort
 - National Corrosion Center – Emil Pena (AmeriTAC Speaker)
 - Polycorp Ltd. – Dennis Nolan (AmeriTAC Speaker) and Russell Bula
 - Rice University – Enrique Barrera (AmeriTAC Speaker)
 - SharpConsultant – Sandy Sharp (MTI Fellow)
 - University of Texas – S. Ray Taylor (AmeriTAC Speaker)
 - 56 Forum Questions submitted and discussed
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Presentation – The Use of Elastomeric Linings for Corrosion and Abrasion Protection

Dennis Nolan of Polycorp gave a presentation titled “The Use of Elastomeric Linings for Corrosion and Abrasion Protection.” Natural and synthetic rubber products have become a standard for corrosion and abrasion protection in many applications. This presentation reviewed the generic types of materials available and the selection criteria to determine suitability for an application as well as some typical examples of linings in service. In addition, guidelines for installing and inspecting rubber linings were reviewed.

Panel Discussion – National Corrosion Center

A panel discussion was given on the National Corrosion Center and related University activities. The Moderator was Emil Pena of the National Corrosion Center. The other panelists were: Enrique Barrera/Rice University, Dr. S. Ray Taylor/University of Texas, and Scott Farthing/EMS. The following topics were discussed:

1. Introduction and History of the National Corrosion Center
 2. Nano Technologies in Assessment and Prevention of Corrosion
 3. Prediction of Coating Failure Through Rapid Lab Tests
 4. Adoption and Application of Technologies in the Field
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Elastomer Training Seminar

A special training seminar, “Selecting, Specifying, and Procuring the Best Elastomer Sealing components”, was held for MTI members only on Monday, February 21. Specifying and using the most cost effective sealing components is critical to improving “up-time”, extending equipment mean time between repair, reducing emissions and more effectively complying with government regulations. This seminar delivered the tools and the methodology to enable Engineering and Purchasing to jointly arrive at the most cost effective sealing solutions to achieve company objectives. The presenters were Michael DiPino, Senior Industry Specialist, Dow Corning; Russell Schnell, Senior Application Engineer, DuPont; and Mark Sewell, Manager Materials Technology, Victaulic.

2 Projects Approved

The TAC approved and the BOD funded 2 projects:

- Field Fabrication of Large Diameter FRP Tanks (\$154,440)
 - Permeation through Polymers for Process Industries – Revision of MTI Publication No. 53 (\$33,000)
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Future Meetings

Here are the MTI meetings scheduled to date:

- FRP Training, Hong Kong, China, 14-15 April 2011
 - EuroTAC 2011, Leverkusen, Germany, 29-30 March 2011
 - AmeriTAC 105, St. Louis, MO, 6-9 June 2011
 - AsiaTAC 2011, Shanghai, China, 21-23 September 2011
 - AmeriTAC 106, Nashville, TN, 10-13 October 2011
 - AmeriTAC 107, Hollywood FL, 27 February-1 March 2012
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Project Team Meetings

These 22 project teams met during AmeriTAC 104. Project numbers are in parentheses with alphabetic (ab) denoting potential projects and numerical (123-08) denoting funded projects.

- Accelerated Testing of FRP (196-10)
 - Best Practices for Reactive Metals (pm)
 - Demolition of Obsolete Equipment (197-10)
 - Design for Inspection (177-07)
 - Design, Installation, Maintenance, and Inspection of Plastic Lined Pipe (pc)
 - Duplex Alloy Microstructures (200-10)
 - Fabrication and Manufacturing Video Library (os)
 - Failure Analysis of FRP (np)
 - Field Fabrication of Large Diameter FRP Tanks (ov)
 - Global FRP Standards Review (oh)
 - Inspection & Evaluation of Old Equipment (pf)
 - Laboratory Corrosion Testing Design (op)
 - Metal Dusting Projects (188-08 and 198-10)
 - Metals – Who Makes What (or)
 - Permeation through Polymers (pk)
 - Prediction & Detection of Hydride Formation in Titanium (pa)
 - Review of Pub. 51 – Cleaning of Process Equipment & Piping (183-07)
 - SiC Heat Exchanger Evaluation (oi)
 - Silica Fiber Insulation Properties (182-07)
 - Terahertz Imaging 2 (pi)
 - Welding Duplex Alloys (pl)
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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 5 PDCs met during AmeriTAC 104:

- Ceramics PDC
- Integrity and Condition Assessment PDC
- Metals PDC
- Polymers PDC
- Prediction of Materials Degradation PDC