



October 21 & 22, 2008
The Aerospace Corporation
Building A-1, 1062
El Segundo, California

Tuesday, Oct. 21, 2008

- 9:00 Registration and Continental Breakfast**
- 10:00 Welcome and Introductions**
Dr. Sherrie Zacharius
General Manager Physical Sciences Laboratories, The Aerospace Corporation
and
Col. David Swanson
Director, Engineering and Architectures, USAF Space and Missile Systems Center
- 10:15 Manufacturing Problem Prevention Program: 26 Years of Lessons**
Russell Lipeles, The Aerospace Corporation
- 10:30 Space Technology Planning and Implications for Spacecraft Materials**
Capt. David Caponio, USAF Space and Missile Systems Center
Paul Chivington, The Aerospace Corporation
- 10:50 Materials International Space Station Experiments (MISSE):**
Results, Observations, and Lessons
Alan Stewart, The Boeing Company
- 11:35 Composite Repair**
Larry Coulter, Air Force Research Laboratory, Hill Air Force Base
- 12:05 Exhibits / Lunch on own**

Session 2

Session Chair: James Nokes, The Aerospace Corporation

- 1:15 Pavement Preservation**
Nazario Saucedo, City of Los Angeles Dept. of Public Works
- 1:45 Mars Science Laboratory - Status of Spacecraft/Rover Hardware**
Tim O'Donnell, Jet Propulsion Laboratory
- 2:15 Break & Exhibits**
- 3:15 Shearography NDT Solutions for Launch Vehicles and Spacecraft**
John Newman, Laser Technology, Inc.
- 3:45 Advances in Pulsed Thermography**
Steven Shepard, Thermal Wave Imaging
- 4:15 Machining Kevlar and Zylon Fiber Reinforced Composites**
Andrew Zsolnay, San Francisco State University
- 4:45 Session Ends**





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7:30 Registration, Exhibits and Continental Breakfast

Session 3

Session Chair: Michael O'Brien, The Aerospace Corporation

8:30 Bonding of Composite Materials Utilizing Atmospheric Plasma for Surface Preparation
James Nokes, The Aerospace Corporation

9:00 Filament Winding Lessons Learned
Jim Leslie, ACPT Inc.

9:30 Break and Exhibits

10:30 Composites Automation, Past, Present and Future
Ronald Hennies, MAG Advanced Technologies

11:00 The Effect of Polyhedral Oligomeric Silsesquioxane on Polyimide Space Materials
Sandra Tomczak, Air Force Research Laboratory, Edwards Air Force Base

11:30 Carbon Nanotubes: Improving the Performance of Composite Materials
Kenneth McElrath, Unidym

12:00 Lunch on own

Session 4

Session Chair: Alan Hopkins, The Aerospace Corporation

1:00 Debonding of Helicopter Rotor Blades
Frank Zakar, National Transportation Safety Board

1:30 Photosensitive Glass Ceramics: a Structural Material with Multifunctional Properties
Henry Helvajian, The Aerospace Corporation

2:15 Corrective Action Verification Using FMEA
Jim Denman, The Boeing Company

2:45 Conference Concludes

Exhibit Hours

Tuesday, Oct. 21

12:05 - 1:15 p.m.

2:15 - 3:15 p.m.

Wednesday, Oct. 22

7:30 - 8:30 a.m.

9:30 - 10:30 a.m.

