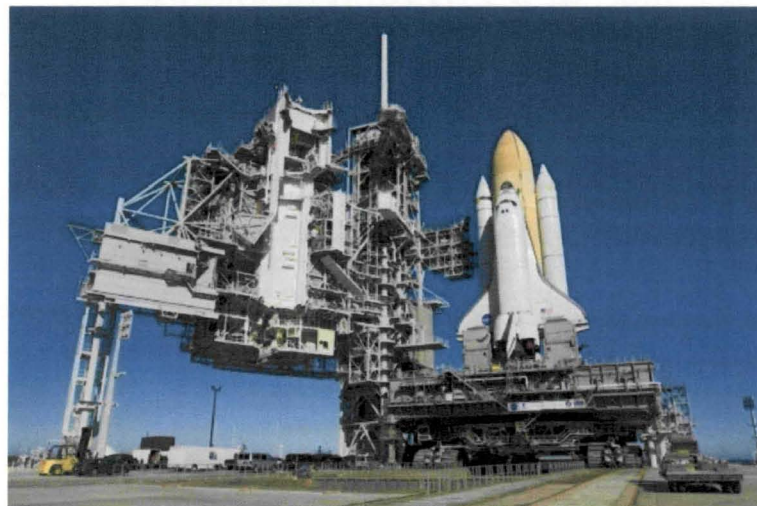




# NASA TEERM Program Update

**Program and Contract Management Branch, Technical Management Integration Office  
Engineering Directorate  
Kennedy Space Center, FL**



## **Shuttle Environmental Assurance Initiative Face-to-Face Meeting**

**February 3-4, 2010**

**Comfort Inn Port Canaveral Area Cocoa Beach, FL**

**Presenter: Mr. Chuck Griffin, Manager**



## TEERM News

### – ***Environmentally-Driven Risk Reduction Contract Awarded to ITB Nov 1, 2009***

- 5-yr contract valued at \$30M
- Objective: This contract supports the TEERM function, continues support to SEA, and is structured to support environmentally-driven infrastructure or programmatic risk management requirements across NASA, other federal agencies, and industry
- Energy Management function and Environmental Management activities from HQ
  - Energy & Water Management Support & Strategic Planning Support
  - Energy & Water Management Functional Review (EWMFR) Support
- DoD Solar project
- Goals
  - Increase interaction with other US space asset-using organizations and their associated ground support equipment
  - Increase interaction with international partners

### – ***KSC Reorganization***

- Applied Technology Directorate (KT), Innovative Partnership Program Office (IPP) → now part of Engineering Directorate (NE)
  - KT organization had ~ 80 FTE → NE has 600+ FTE
  - Specifically in NE-I2; the Program and Contract Management Branch, under the Technical Management Integration Office



# TEERM Communication

## – TEERM/C3P Web Site

- Past Workshop presentations
- QuEST Newsletter
- Status updates and technical work products for joint projects

National Aeronautics and Space Administration

+ Visit NASA.gov

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### Technology Evaluation for Environmental Risk Mitigation Principal Center

- HOME + OVERVIEW + PROJECTS + REPORTS + WORKSHOP + EVENTS + TEAM + LINKS

Home

Welcome to the Technology Evaluation for Environmental Risk Mitigation (TEERM) Principal Center

**Vision:**  
To improve life by the reduction of hazardous materials.

**Mission:**  
To identify and validate environmental technologies through joint activities that enhance mission readiness and reduces risk while minimizing duplication and associated costs.

**NEWS**

**+ September 2009**  
**Joint Group on Pollution Prevention (JG-PP) Chair Transition**  
Meetings were held with Army Materials Command personnel at Redstone Arsenal last week regarding transitioning the JG-PP Chairmanship role from NASA to Army. The Army Chairmanship role will be in effect October 1, 2009. NASA accepted the role as chairman of the Joint Group on Pollution Prevention (JG-PP) in October 2007 (transitioned from the Marines). JG-PP was chartered by the Department of Defense in 1994 to reduce duplication of effort within the DoD when qualifying new, environmentally preferable materials or processes. The NASA Technology Evaluation for Environmental Risk Mitigation Principal Center (TEERM) was created in 1998 (under the original name NASA Acquisition Pollution Prevention or AP2) to support JG-PP and be the NASA focal point for agency-wide pollution prevention activities. NASA has benefited greatly from its association with JG-PP and the numerous projects JG-PP has undertaken. Like TEERM, all JG-PP test plans and test reports are free and publicly available. These reports and other JG-PP information can be found at [www.jgpp.com](http://www.jgpp.com).

**NASA TEERM Assists HQ with Energy/Water Plans**  
The NASA Technology Evaluation for Environmental Risk Mitigation Principal Center (TEERM) is working with NASA HQ Environmental Management Division to develop a NASA-wide energy/water strategic plan and an energy/water management action plan. The action plan will cover all current mandates for federal facilities and discuss an ongoing effort to provide useful feedback from NASA HQ to the centers and component facilities. In order to facilitate this, TEERM engineers have been developing "Center Dashboards" that show at a glance the current scorecards for key metrics, including energy/water intensity, renewable energy usage, and funding needs. Additionally, the dashboards are planned to include fleet vehicles and green house gas metrics when data is made available. The concept of the action plan is to give guidance to center energy/water managers and to provide information on center requirements for the development of center-level strategic action plans.

**+ August 2009**  
**TEERM Program Management Review**  
NASA Headquarters Environmental Management Division (EMD) conducted a Program Management Review (PMR) of the NASA Technology Evaluation for Environmental Risk Mitigation Principal Center (TEERM) in Florida the week of July 27th. The primary objective of the PMR was to evaluate the progress of TEERM activities and examine improvements to increase efficiency, effectiveness and quality. Presently, TEERM is managing 5 and developing 8 new demonstration/validation projects designed to qualify or evaluate new materials or processes to reduce NASA's risk to mission. TEERM also supports and monitors several other projects by partner organizations. As part of the PMR, TEERM and EMD were able to further collaborate and make key decisions for the C3P/NASA 2009 International Workshop on Environment and Alternative Energy. The

NEWSLETTER  
+ Volume 4 (April 2009)

QuEST

+ ARCHIVED NEWSLETTERS

Staff Only

C3P Sustainable Environment and Energy

Center for Pollution Prevention Program

Home About Us History Team Links

HOME

ABOUT US

HISTORY

METHODOLOGY

PROJECTS

▶ ACTIVE PROJECTS

BERLENGA PROJECT

ELECTROVALVE PROJECT

ECOS 1 PROJECT

▶ COMPLETED PROJECTS

ALTERNATIVES TO HIGH-VOOC CHROME COATINGS

ECOS PROJECT

TECHNICAL WORKSHOPS

2003 C3P & NASA

2004 NASA

2005 C3P & NASA

2006 NASA

2007 C3P & NASA

2008 NASA

2009 C3P & NASA

JOG MEETINGS

2004

2005

2006

2007

2008

LINKS

CONTACTS

## Welcome to the C3P Web Site

"Bringing Synergy to Sustainable Environment and Energy"

**Vision:**  
To incorporate environmental stewardship, responsibility and green practices across both private and public sectors.

**Mission:**  
C3P's goal as an organization is to address key aspects of environmental sustainability through formulating, advocating and implementing collaborative projects in the following areas:

- Materials management and substitution
- Pollution control strategies
- Remediation and cleanup
- Renewable and alternative energy systems
- Encroachment risk mitigation
- Climate change
- Green sustainable development



## TEERM Project Status at a Glance

### – **Completed Projects**

- Low VOC Coatings and Depainting Phase 2 (AFSPC)
- Launch Coatings Phase 3 (AFSPC)
- Oxygen Cleaning Products Preliminary Testing Year 2
- Portable Laser Coating Removal System for GSE
- Membrane Removal of VOCs

### – **Ongoing Projects**

- Gas Dynamic Spray Technology Demonstration (AFSPC)
- Alternative to Nitric Acid Passivation Study
- WSP2 Eastern Range Coatings Support (AFSPC)
- WSP2 Dem/Val Coating Alternatives at Vandenberg AFB (AFSPC)
- NASA-DoD Lead-Free Electronics Testing
- MSFC—Lead-Free Technology Experiment in a Space Environment
- Hypergolic Fuels Destruction/Decontamination Technologies (AFSPC)
- Development of a Sediment-Treating System for PCB Removal Using Green Technology
- Hex-Chrome Free Coating Systems for Aerospace Phase 2
- Life Cycle Corrosion of Space Vehicles (Lab Testing)

### – **Developing Projects**

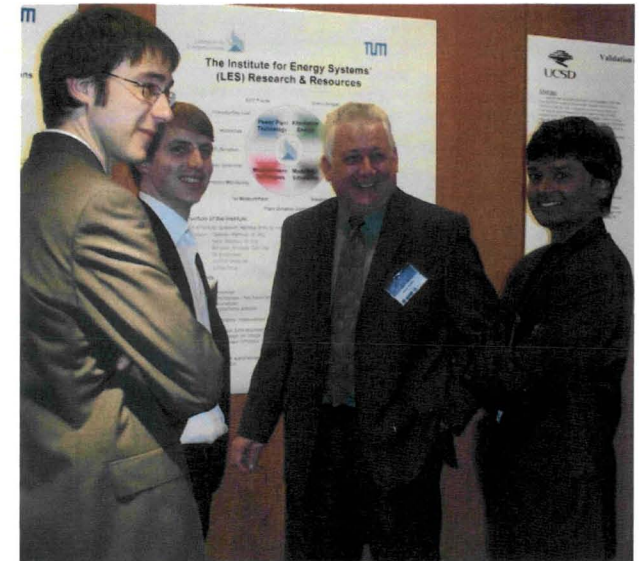
- Cryogenic Tank Coatings
- Evaluation of Corn Based Alternative to Plastic Blasting Media for Aerospace
- Testing Functional Circuits Assembled with Lead-Free Technology
- Concentrated Solar Air Conditioning for Buildings (ESTCP)
- Hydrogen Sensors/Detection Technologies
- Garnet Recycling
- Laser Based Surface Preparation for Aerospace Applications



## C3P-NASA International Workshops

### – 2009 C3P-NASA International Workshop

- Munich, Germany, 9-11 November 2009
- <http://teerm.nasa.gov/workshop2009.html>



### – 2010 C3P-NASA International Workshop

- San Diego, CA, Fall 2010
- <http://teerm.nasa.gov/workshop2010.html>

