

## Aerospace and Defense Supply Chain Conference

September 24, 2013

8:30 AM to 5:00 PM

Sturbridge Host Hotel &  
Conference Center  
Sturbridge, MA.

[Register Now!](#)

## REACH and RoHS Workshop

September 25, 2013

9:00 AM to 4:00 PM  
Sturbridge Host Hotel &  
Conference Center  
Sturbridge, MA

[Register Now!](#)

## TUR Planner Course

Beginning Thursday,  
September 12, 2013

[Register Now!](#)

## Save the Date!

Resource Conservation  
Course - November 1,

## Aerospace and Defense Supply Chain Conference: Chemicals of Concern and Safer Alternatives

**Tuesday, September 24, 2013**

Sturbridge Host Hotel & Conference Center  
366 Main St  
Sturbridge, MA 01566



The Aerospace and Defense industry requires that all parts they use be highly reliable under extreme conditions and over long periods of time. To do this, the supply chain for this industry adheres to very specific process requirements, many of the which

rely on the use of toxic metals, including hexavalent chromium and cadmium. Both hexavalent chromium and cadmium have been designated as Higher Hazard Substances under TURA.

This conference is for representatives from across the aerospace/defense industry supply chain, from OEMs to solution formulators to metal finishers, and will deliver useful information about challenges facing the industry and emerging solutions.

Our keynote speaker, **Paul Yaroschak, Deputy for Chemical and Material Risk Management at the Office of the Secretary of Defense**, will discuss initiatives at the Department of Defense to promote adoption of safer chemicals for defense applications and the challenges associated with adequate availability of alternatives. We will also have **Chris Robertson, Head of Regulatory Compliance at ERA Technology**, from the UK. Chris will discuss the specific impact of REACH on the aerospace and defense supply chain. (Read more below.)

Join us on September 24, 2013, from 8:30 AM to 5:00 PM in Sturbridge. A sponsored networking reception will occur immediately following the conference. [Register now.](#)

## REACH and RoHS Workshop: Compliance with European Directives *Special Sessions for the Wire & Cable and Medical Devices Industries*

**Wednesday, September 25, 2013**

Sturbridge Host Hotel & Conference Center

Continuing Education  
Conference -  
November 2013 and  
April 2014

TUR Demonstration  
Site: ChemGenes  
Corporation - Early  
Fall, Exact Date TBD

TUR Demonstration  
Site: KMK Cleaners -  
Early Fall, Exact Date  
TBD

### Register Today!

A Green Chemistry &  
Commerce Council  
(GC3) Webinar

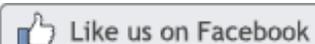
Thursday, September  
12

Successful Industry  
Collaborations for  
Evaluating the  
Performance of Safer  
Chemical Alternatives

Presented by Greg  
Morose, Sc.D.,  
Research Manager,  
TURI

### Subscribe to Greenlist Bulletin

TURI's free weekly e-  
bulletin features previews  
of recent publications and  
websites relevant to  
reducing the use of toxic  
chemicals.



The European Union's  
Restriction of Hazardous  
Substances (RoHS) Directive  
and the Registration, Evaluation,  
and Authorization of Chemicals  
(REACH) regulation require  
identification of the use of toxic  
chemicals, call for their  
reduction in manufacturing, and  
dictate product labeling and  
disposition requirements. RoHS,

which is directed specifically at producers of electrical and electronic equipment, has recently been recast to include new requirements for documentation and labeling, and more types of electrical and electronic equipment. REACH focuses more broadly on chemicals and their safe use, requiring registration of all chemicals and authorization to use very toxic or hazardous substances.

This workshop's morning session will include an in-depth overview of REACH and RoHS, presented by **Chris Robertson of ERA Technologies**, a globally recognized expert in these regulations. In the afternoon, special breakout sessions will be devoted to two industries of particular importance in Massachusetts: coated wire and cable, and medical devices.

Join us on Wednesday, September 25, from 9:00 AM to 4:00 PM.  
[Register now.](#)

## **Toxics Use Reduction Planner Course Beginning Thursday, September 12, 2013**



Toxics Use Reduction (TUR) protects workers, communities, and the environment, while promoting competitiveness through efficient

materials use and management. The key to effective, long-term TUR is good planning and measurement. This course will prepare you to create an effective TUR plan or improve an existing one. You will learn a systematic approach to identifying waste and inefficiencies, how to compare and implement opportunities to reduce toxics and continually improve a TUR program -- and to do so with a positive impact on financial performance.

After this course, you will be able to :

- Take the DEP TUR Planner Certification exam
- Develop goals and objectives for handling toxics
- Assemble teams to leverage diverse expertise within the facility
- Enlist upper management support
- Perform process characterizations of facility operations
- Identify and prioritize toxic chemical and resource use reduction opportunities
- Perform technical and economic evaluations of TUR options
- Make your operations more sustainable by reducing waste and conserving resources

More information and registration [is available](#).

---

## **ChemGenes Demonstrates Solvent Use Reduction with New Solvent Recovery System**

On June 6, [ChemGenes Corporation demonstrated](#) its new solvent recovery and recycling system that significantly reduces the use of solvents at its DNA/RNA manufacturing facility in Wilmington. The company expects to reduce the use of hexane and ethyl acetate by 27,000 pounds annually.

In early fall, the company will be hosting a follow-up demonstration event and presenting data collected over the summer based on batch processing runs with their new solvent recovery system. The technology being demonstrated is relevant to any company or facility that uses solvent. Join us to learn how fast the investment in a new solvent recovery system can be!



ChemGenes Corporation, a 25-employee company, supplies products related to DNA and RNA synthesis for the biotechnology industry and currently manufactures in a 20,000 square-foot facility geared towards small to mid-scale chemical manufacturing.  
[www.chemgenes.com](http://www.chemgenes.com)

---

## TURI Lab Earns EPA Recognition

The EPA's Design for the Environment Program recently recognized the TURI Laboratory as a Safer Detergents Stewardship Initiative (SDSI) Champion for "demonstrating outstanding efforts to encourage the use of safer surfactants".

The Program recognizes environmental leaders who voluntarily commit to the use of safer surfactants. Surfactants such as nonylphenol ethoxylates have been found to degrade into toxic byproducts resulting in serious health and environment implications. Safer surfactants break down quickly to non-polluting compounds and help protect aquatic life in both fresh and salt water.



---

## TURI In the News

Joy Onasch, TURI's Community and Small Business Program Manager, wrote an article for the New England Service Station and Automotive Repair Association Summer Newsbrief. Joy wrote about the work that TURI is doing to help auto body and repair shops switch to non-solvent cleaning systems.

Late lessons from early warnings: science, precaution, innovation was recently published by the European Environment Agency. Joy Onasch contributed a case study on the benefits of using professional wet cleaning technology to eliminate perchloroethylene, a probable human carcinogen, used in dry cleaning. The case study was based on data collected from Silver Hanger Cleaners in Bellingham, MA, the first wet cleaner that TURI assisted in converting to dedicated wet cleaning.

TURI's recent report, *Opportunities for Cancer Prevention: Trends in the Use and Release of Carcinogens in Massachusetts*, was featured in an article by Lonnie Shekhtman in the Worcester Telegram & Gazette, "Toxics Use Reduction Institute helps companies switch to safer chemicals".

---

## **Massachusetts Office of Technical Assistance Advisory Preventive Hazard Evaluation for Process Safety**

The 2012 Massachusetts Fire Code hazardous material processing regulation (527 CMR 33) requires a hazard evaluation or limited process safety program for many companies that have never faced this requirement before, (though many companies have been essentially performing these tasks as good practice). Many companies covered by this regulation must now document that a hazard evaluation has been done, and safety measures are being integrated into operations.

Read this helpful advisory from the Office of Technical Assistance (OTA).



---

*TURI offers services & programs to reduce the use of toxic chemicals, energy and water while enhancing the competitiveness of local businesses.*

*Visit us at our website, at Facebook, or at our offices on the UMass Lowell campus.*