

FLY AWAY WITH COMPOSITES



AUGUST 21 - 22 • DAVIS TECHNICAL COLLEGE • SALT LAKE CITY

Composites One and the Closed Mold Alliance in partnership with
IACMI - The Composites Institute invite you to attend Fly Away with Composites!

Fly Away with Composites is focused on exploring advanced materials and processes used in advanced composites markets like Aerospace and Consumer Recreation. During this day and a half workshop, leading professionals and industry experts will provide engaging presentations and hands-on demonstrations. Workshop topics will focus on thermoplastics, prepreg - autoclave and out-of-autoclave, high temperature tooling, additive manufacturing / 3D printing, vacuum infusion, maintenance, repair and overhaul (MRO), thermoforming, and so much more!

Register online at www.flyawaywithcomposites.eventbrite.com

Hosted At:
Davis Technical College



AGENDA

Tuesday, August 21: 8:00 a.m. - 5:00 p.m.
Wednesday, August 22: 8:00 a.m. - 12:00 p.m.

Keynote Address from Laura L. Bogusch, General Manager, Boeing Salt Lake

Laura L. Bogusch will share her experience as a women in engineering.

High Temperature Tooling Demonstration

Building high temperature carbon and epoxy tooling with a vacuum infusion.

High Temperature Tooling (Prepreg) Demonstration

High temperature carbon and epoxy prepreg tooling. Including a demonstration of laying up prepreg.

Composites in Aerospace, Presented by Mike Hoke, Owner, Abaris Training Resources, Inc.

Any fiber-reinforced composite, regardless of whether it is fiberglass, carbon fiber, Kevlar™, or perhaps other fibers, carries the structural loads primarily through the fibers themselves. In a structural load-carrying repair, it is important to align the repair ply orientations with the original structural ply orientations. It is also mandatory to ensure a good strong long-lasting bond between the repair plies and the underlying structure. This presentations will review several examples of various damage repair scenarios and techniques will be highlighted. In addition, there will be a brief description of what an MRO (Maintenance, Repair and Overhaul) facility is, along with a short discussion of how they work within the airline industry.

Bladder Molding Demonstration

Demonstration on methods for making bladder molds for building hollow shapes.

Sandwich Panel Construction

Overview of honeycomb and foam core materials and ancillary products such as film adhesive, edge fill, and adhesives.

Failure Analysis

Root Cause Failure Analysis of Composites Across Industries.

Fire Smoke Toxicity

The need for halogen-free, flame retardant materials, mainly driven by European subway and tunnel fires, has led to the development of Polynt's FireBlock™ technology for use in FRP Applications in the transportation and infrastructure markets that are required to meet FR standards such as: ASTM E84 (buildings); ASTM E162 and ASTM 662 (Buses); EN45545 (European Rail standards); or FAR 25.853 (Aircraft Interiors). The presentation will include technical data as well as a brief description of current applications. Demonstration will include vacuum bagging that will show the ease of fabricating a composite FireBlock™ FR laminate while incorporating a balsa core for a train or aircraft floor application.

Foam Core Thermoforming

Presentation and demonstration on thermoforming methods.

Adhesives for High Performance Applications

Pro-Set Epoxy pre-thickened adhesives provide high strength bonds to many substrates used in composite structures. This session will explain product selection, handling characteristics, properties and proper applications.

Additional Topics and Demonstrations to Include:

- Chomarat C-ply in Carbon Epoxy Laminates for UAVs
- Fiber Reinforced Thermoplastic Production - Presented by Oribi Manufacturing
- Thermoplastics Injection Molding Demonstration
- Additive Manufacturing / 3D Printing Demonstration
- Coal Fiber and Impossible Objects
- Edge Fill and Potting Compounds
- Workforce Development for the Composites Industry - A panel discussions from key leaders in the Composites Industry like Davis Technical College, UAMMI, SAMPE, IACMI - the Composites Institute, Composites One, and more.
- Student Only Tracks - Special Breakout Sessions for High School Students Interested in the Composites Industry.

TRAVEL

Fly Away with Composites will be held at Davis Technical College - Freeport West Campus in Clearfield, UT, on August 21 - 22, 2018. Travel arrangements should be made to fly into Salt Lake City, UT (SLC).



**Davis Technical College
Freeport West Campus**



Recommended Hotel Accommodations:

Hilton Garden Inn - Salt Lake City / Layton

762 West Heritage Park Blvd
Layton, Utah, 84041
(801) 416-8899

Additional Hotel Options:

Home2 Suites by Hilton Salt Lake City/Layton

803 West Heritage Park Blvd
Layton, UT 84041
(801) 820-9222

Hampton Inn Salt Lake City/Layton

1700 N Woodland Park Dr
Layton, UT 84041
(801) 775-8800

Important Shuttle Information:

The workshop will take place at the Davis Technical College Freeport West Campus. Shuttles will be provided to and from the Freeport Campus from the Hilton Garden Inn - Salt Lake City / Layton. The shuttles will be available for those attendees staying at other hotels. Parking is also available at the Davis Technical College main campus. Shuttles will be provided to and from the main campus to the Freeport Center. **Additional details on shuttles will be released prior to the workshop.**

REGISTER

To register for the workshop visit www.flyawaywithcomposites.eventbrite.com or complete the form below and email to rachel.menges@compositesone.com. For additional information on registration, contact Rachel Menges at 847.437.0200

Name: _____

Title: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____ Country: _____

Email Address: _____

Phone Number: _____

Are you a U.S. Citizen? Yes _____ No _____ Do you have food related allergies? Yes _____ No _____

Will you be traveling to this event? Yes _____ No _____

Are you a student interested in composites? Yes _____ No _____