



# 2017 Year in Review: Ohio

UPDATED 12/7/17

## COMPOSITES HAVE GROWING USE IN:

- Compressed gas storage
- Aerospace. IACMI aerospace companies include:
- Infrastructure
- Vehicles



**Orbital ATK** announced addition of 57 new jobs in Ohio with \$3.5M in new payroll by 2019.



**OHIO IACMI MEMBERS**



July 2017



DuPont led an IACMI project to unveil a compressed natural gas vessel prototype, with research conducted at the University of Dayton Research Institute (UDRI). The project is IACMI's first compressed gas storage project, and provides unique advantages to the storage of compressed natural gas through the use of thermoplastic composite technologies to achieve better durability, weight reduction and recyclability.



July 2017

**JobsOhio** IACMI hosted its semi-annual Members Meeting in Dayton, Ohio, bringing more than 300 attendees from more than 100 companies across 30+ states to Dayton, OH.

During the meeting, IACMI members toured UDRI's newly renovated composites laboratory, and heard from speakers, including Senator Bill Beagle, who highlighted Ohio's thought leadership and innovations in the composites field.



Sen. Bill Beagle and Glenn Richardson from Jobs Ohio at IACMI's Summer 2017 Members Meeting in Dayton, OH.

Because of Dayton residents' long history of leading innovations, "it's exciting to see IACMI and its 150 member companies convening at the UDRI-led technology hub. I wish you all the success in honoring the Ohioan spirit of innovation, invention, and creativity."

– SEN. BILL BEAGLE

IACMI Summer 2017 Members Meeting



# 2017 Year in Review: Ohio

## OHIO IACMI PROJECTS

### ASHLAND PERFORMANCE MATERIALS



**Project:** Optimized resins and sizings for vinyl ester/carbon fiber composites

**IMPACT:** Explore the optimization of resin fiber sizing and carbon fiber combinations in the pursuit of better storage, cycle time, and lower cost

**PROJECT PARTNERS:** Ashland | Michelman | Zoltek | University of Dayton Research Institute (UDRI) | Jobs Ohio | Michigan State University



### CINCINNATI INC.

**PROJECT:** Big Area Additive Manufacturing (BAAM) materials development and reinforcement with advanced composites

**IMPACT:** Integrated design and materials selection, together with novel, low-cost reinforcing techniques to optimize components for vehicle application

**PROJECT PARTNERS:** Cincinnati Inc. | Local Motors | Oak Ridge National Laboratory (ORNL) | University of Tennessee, Knoxville (UTK)



## WORKFORCE DEVELOPMENT IN OHIO

- 20+ UDRI students participating in IACMI research projects
- 1 fully-funded intern based at UDRI
- 17 intern presentations during Members Meeting
- 15 scientific poster presentations during Members Meeting
- UDRI student won 2017 CAMX Technical Paper Award** for research conducted on Effects of Z-stitching in Heavy Tow Carbon Laminates via Tailored Fiber Placement



## MEDIA COVERAGE AND SUPPORT



**OHIO: A HISTORY OF INVENTION, A PROUD LEGACY OF INNOVATION** October 30, 2017 | [tradeandindustrydev.com](http://tradeandindustrydev.com)

"Manufacturers can take advantage of the four Manufacturing USA institutes – America Makes, LIFT, IACMI and NextFlex – for additive manufacturing, advanced composites, lightweight materials and flexible electronics. **In an industry that is rapidly changing, accessible resources are essential to stay current with trends. Equally important is having access to a network that is discovering and seizing opportunities to maintain a competitive advantage.**"

– GOV. JOHN R. KASICH

### Three Technologies You Need to Start Paying Attention to Right Now

July 8, 2017 | [www.inc.com](http://www.inc.com) | Author: Greg Satell

*"The next big thing always starts out looking like nothing at all..."*

**#3: Materials Science:** including new composite materials responsible for reducing the weight of Boeing's Dreamliner by 40,000 pounds and fuel use by 20 percent."



IACMI.org • 2360 Cherahala Blvd. Knoxville, TN 37932