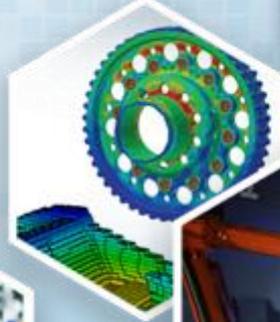


Bold Future for IACMI

Chad Duty, CEO
August 14, 2024

**MEMBERS
MEETING**



Convene. Connect. Catalyze.

A Decade of Progress!



MUSA Networking Meeting
Washington DC April 30, 2024

We've Come a Long Way!



- ◆ 158 Members
 - ◆ Industry, Academia, Government
- ◆ Over 300,000 ft² Lab Space
 - ◆ 11 Facilities in 5 States (\$400M)
- ◆ 40+ Commercial Products
 - ◆ 125+ Journal Articles & Reports
- ◆ 100+ Interns & 12,000+ Trained
 - ◆ ACE, METAL, InnoCrate
- ◆ Diversified Portfolio
 - ◆ DOE, DOD, EPA, etc.

IACMI 2.0



(Dec '22)



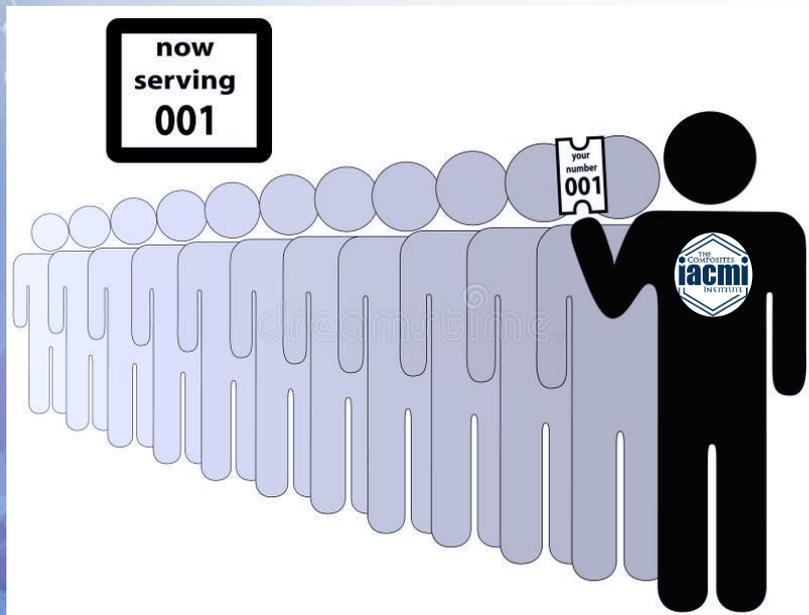
April 11, 2023



(July '24)

Progress Takes Time

First DOE Institute Renewed



IACMI has Matured



Simplified Process



**Quick
Review
Cycles**

The Board is Set



Contracts, Processes, & Funding

The Pieces are in Place



- ◆ 11 Facilities in 5 States
- ◆ 300,000 ft² Lab Space
- ◆ \$400M Value



Contracts, Processes, & Funding



Pipes

DASSAULT SYSTEMES
The 3DEXPERIENCE® Company

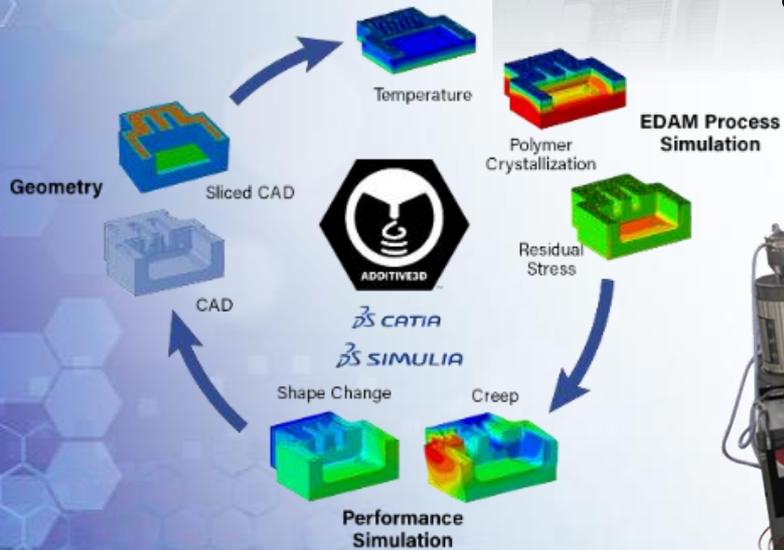
PURDUE UNIVERSITY

BOEING

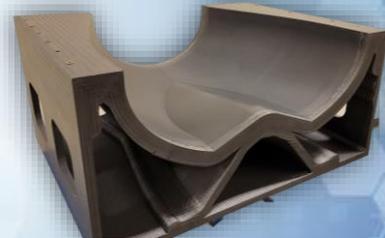
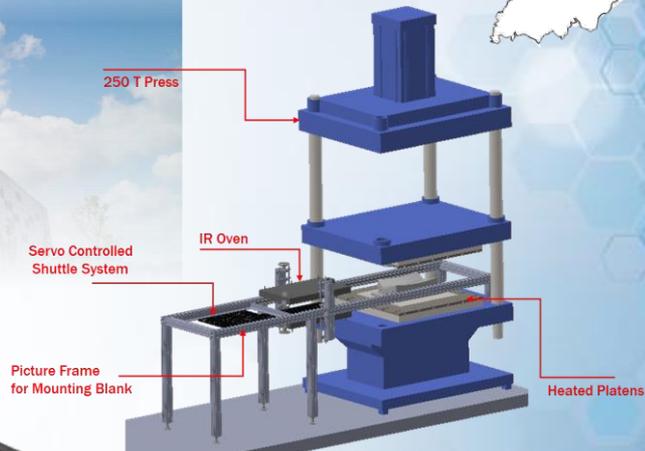


CMFC

Composites Manufacturing & Simulation Center



THERMWOOD
LSAM RESEARCH LABORATORY





Rice



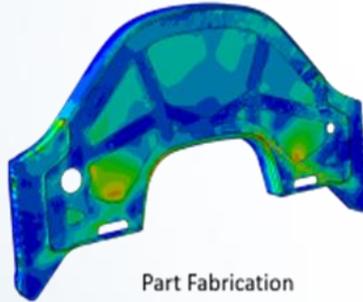
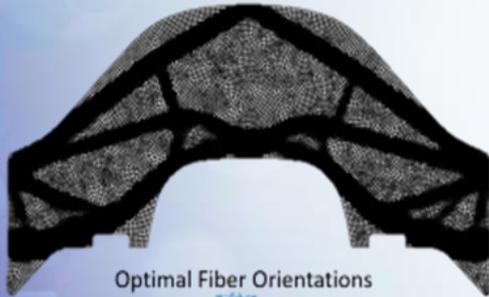
University of Dayton
Research Institute



Composite Materials & Structures

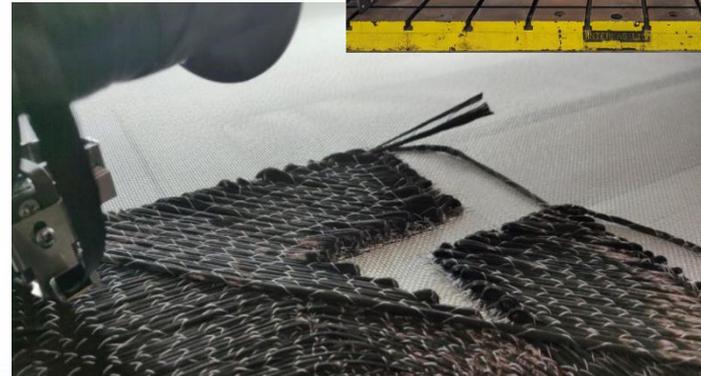
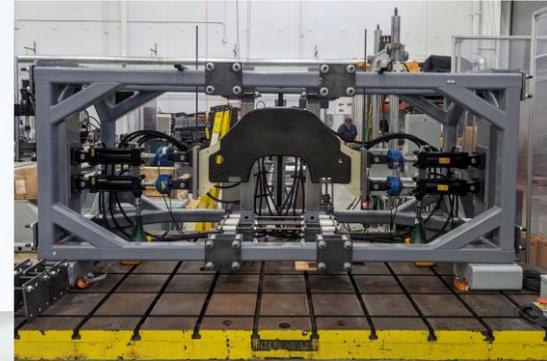
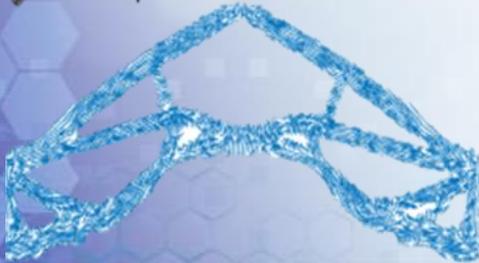
Optimal Reinforcement Region

Incorporation into Global FEM



Optimal Fiber Orientations

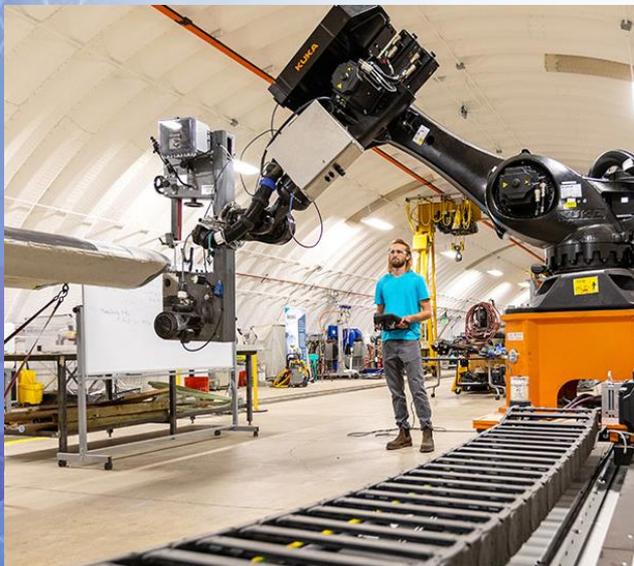
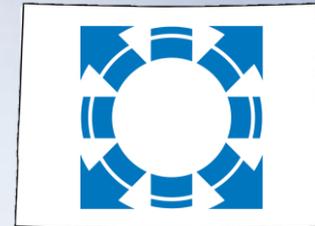
Part Fabrication





Berry

NREL's Composites Manufacturing Education and Technology Facility (CoMET)



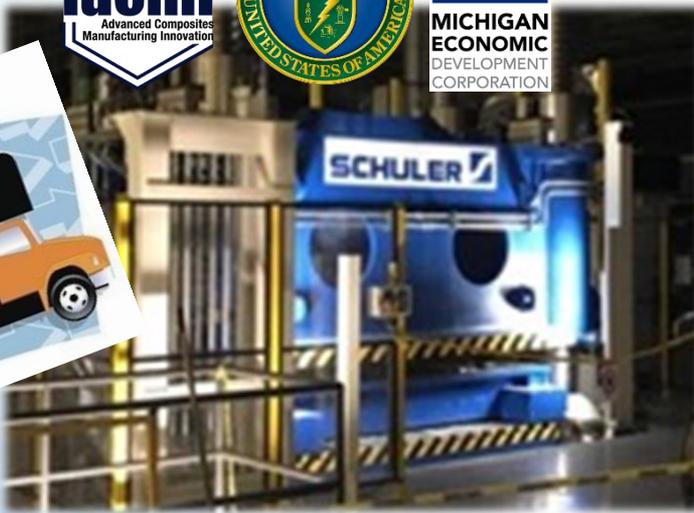
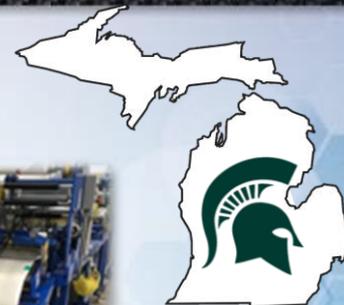


Boeman



MICHIGAN STATE
UNIVERSITY

Scale-Up Research Facility (SURF)

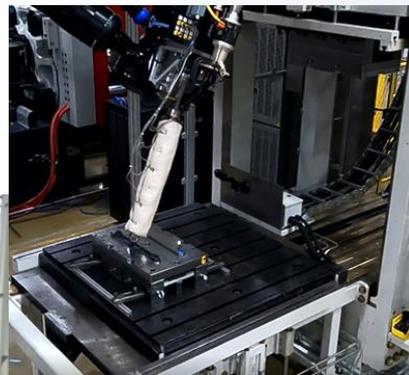




Kunc

OAK RIDGE National Laboratory

MANUFACTURING DEMONSTRATION FACILITY

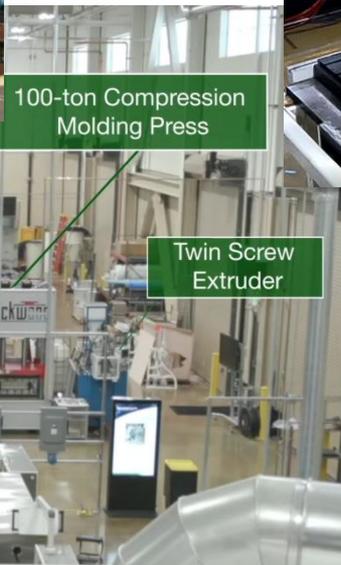


500-ton Compression
Molding Press

300-ton Injection
Molding Press

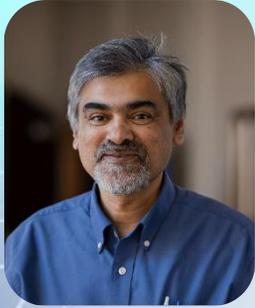


Recycling Granulator
Water Jet



100-ton Compression
Molding Press

Twin Screw
Extruder

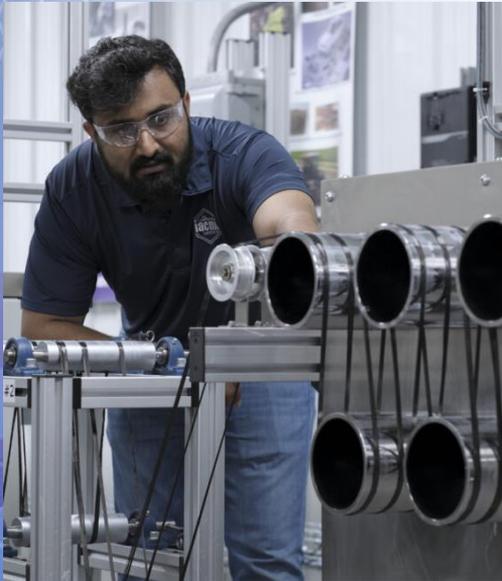


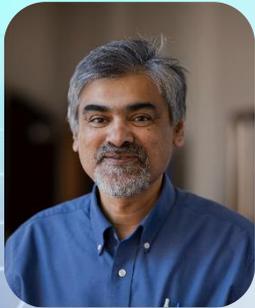
Vaidya

THE UNIVERSITY OF
TENNESSEE
KNOXVILLE



Fibers & Composites Manufacturing Facility





Vaidya

THE UNIVERSITY OF
TENNESSEE
KNOXVILLE



Innovation South

Interested in
Co-Locating
with IACMI?



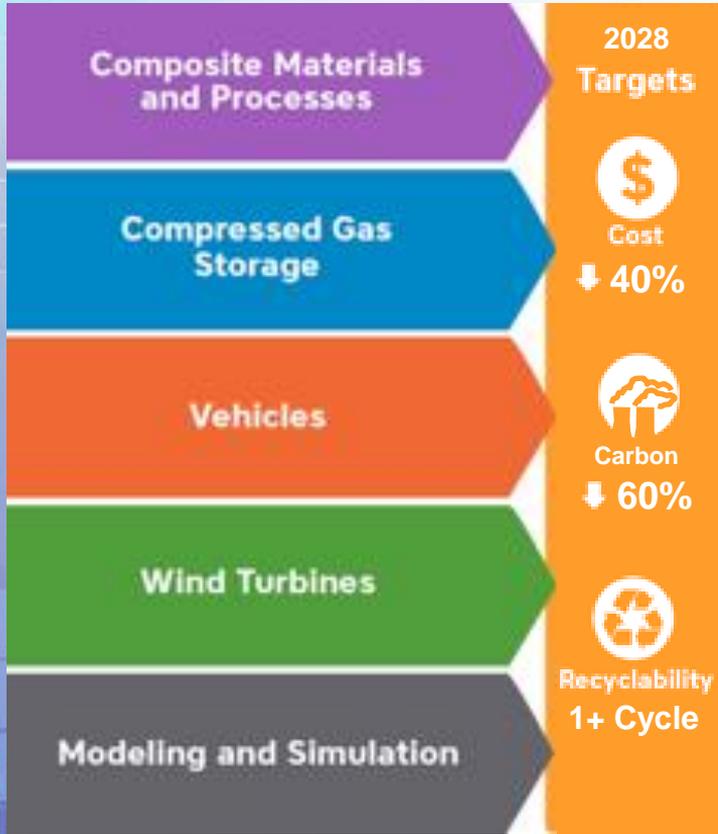
The Pieces are in Place



World Class Facilities
& Partners

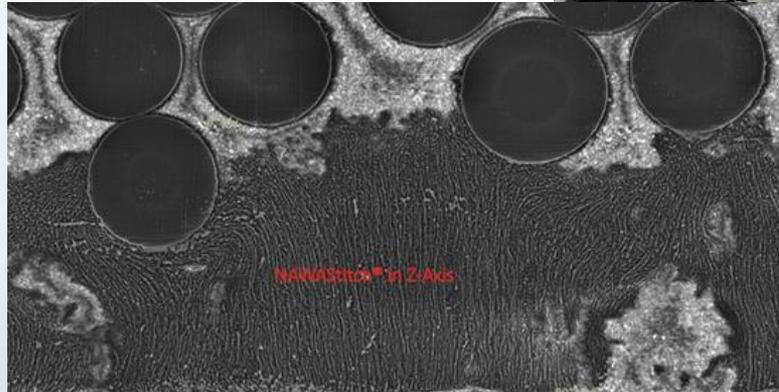
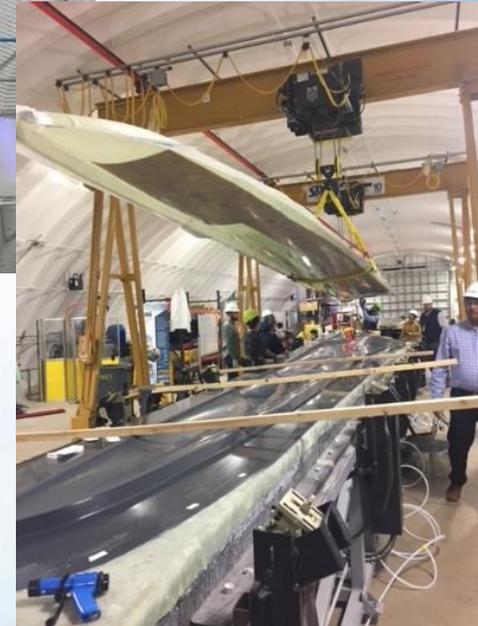
Contracts, Processes, & Funding

IACMI 2.0 Approach



IACMI 2.0 Projects

- ◆ Robotics for Automated Wind Blade Finishing
- ◆ Adhesive Deposition for Wind Blade Manufacturing
- ◆ Cryogenic H₂ Storage
- ◆ Others ...

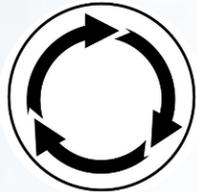


New Ideas Welcome!

Technical Working Groups



**High Rate
Aerostructures
Fabrication**



**Recycling
Circular
Economy**



**Future Mobility
& Vehicles
Technology**



Wind Energy



**Infrastructure
& Construction**

Technical Area Directors

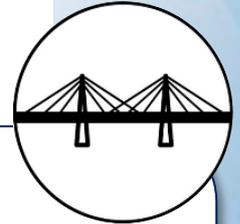


Growing Portfolio - Composites

Biden-Harris Administration Announces Nearly \$160 Million in Grants to Support Clean U.S. Manufacturing of Steel and Other Construction Materials

Grants from President Biden's Inflation Reduction Act will support the renewal of American manufacturing by helping businesses produce low-carbon materials

July 16, 2024



EPA Selects ACMA and IACMI for \$6 Million Grant to Reduce Embodied Greenhouse Gas Emissions in Construction Materials

Growing Portfolio – Workforce Development



THE
COMPOSITES
INSTITUTE



ACE
AMERICA'S CUTTING EDGE

METAL



Growing Portfolio – Workforce Development



THE COMPOSITES INSTITUTE



ACE
AMERICA'S CUTTING EDGE

METAL



Convene. Connect. Catalyze.




ACE
AMERICA'S CUTTING EDGE

METAL



The Board is Set



Contracts, Processes, & Funding

The Pieces are in Place



World Class Facilities
& Partners

Contracts, Processes, & Funding

We have a Winning Strategy



Industry-Driven R&D
& Workforce Development

World Class Facilities
& Partners

Contracts, Processes, & Funding



It's Time to PLAY!!

