

**NSF ENGINES DEVELOPMENT GRANT: ADVANCING ADDITIVE
MANUFACTURING TECHNOLOGIES (FL)**
“EXPANDING THE NORTH FLORIDA INNOVATION ECOSYSTEM”

October 2 – 3, 2023

Florida State University, Panama City, FL Campus
4750 Collegiate Dr., Panama City, FL



FAMU-FSU
College of Engineering

DAY 1 - OCTOBER 2, 2023

10:00 am – Noon	Optional Tours Gulf Coast State College – Advanced Manufacturing Labs Charles Hilton Center (5230 West Highway 98, Panama City, FL 32401) Rm 151: Advanced Manufacturing Lab, Rm 165: Robotics Lab, Rm 323: 3D Print Lab
11:30 am – Noon	Check-in – FSU Panama City
Noon – 1:45 pm	Welcome, Introductions & Lunch <ul style="list-style-type: none"> • Welcome: NSF Engines Development Grant <ul style="list-style-type: none"> ◦ Mr. Neal Orringer, CEO, ASTRO America • Welcome: Expanding the North Florida Innovation Ecosystem <ul style="list-style-type: none"> ◦ Dr. Randy Hanna, Dean, FSU Panama City • Opening remarks: University Strategic Regional Investments <ul style="list-style-type: none"> ◦ Dr. Jim Clark, Provost, FSU ◦ Dr. Farrukh Alvi, Associate Provost of Innovation, Research & Entrepreneurship, FSU <p>Plenary I: Prime Contractor Keynote – Mr. Rich Perlman, Senior Director, GE Aviation</p>
2:00 pm – 2:45 pm	Moderated Discovery Sessions: <ul style="list-style-type: none"> • 1A: <u>Use Inspired Research and Translation of Innovation to Production (1st session)</u> Barriers to the use of advanced and additive manufacturing technologies and processes in production will be identified and solutions discussed. Use-inspired research that is required and paths to implementation will be identified. <ul style="list-style-type: none"> ◦ Moderator: Mr. Ricardo Schneider, President, Danfoss Turbocor Compressors Inc. ◦ Panelist 1: Dr. Rebekah Sweat – Assistant Professor of Industrial & Manufacturing Engineering, FAMU-FSU College of Engineering ◦ Panelist 2: Mr. John Schober, Director of Market Development, Chromatic 3D Materials ◦ Panelist 3: Dr. Jay Kapat, Professor, Department of Mechanical & Aerospace Engineering, University of Central Florida, Director, Center for Advanced Turbomachinery and Energy Research • 1B: <u>Market & Supply Chain Requirements</u> The markets for additive manufactured components will be examined. The needs of current and future manufacturers of all sizes serving the broader market will be identified. Approaches to building highly efficient supply chains will be critically reviewed. In the first session the “Market” will be discussed and defined by the panel composed of major domestic aerospace and defense suppliers and integrators. The “Supply Chain” will be emphasized in the second session, with participation from regional mid to small manufacturers.. <ul style="list-style-type: none"> ◦ Moderator: Mr. Jason Gorey, Executive Director, ASTRO America ◦ Panelist 1: Mr. Andrew Medla, Head of Additive Manufacturing Americas, Siemens Energy ◦ Panelist 2: Dr. Wentao Fu, Senior Manager, Additive Manufacturing The Boeing Company ◦ Panelist 3: Mr. Brian Kaplun, Fellow - Advanced Programs Production Operations, Lockheed Martin

DAY 1 – OCTOBER 2, 2023

3:00 pm – 3:45 pm **Moderated Discovery Sessions:**

- **2A: Workforce Needs – Training, Resources & Approach (1st session)**
Workforce attributes and skillsets needed to power the manufacturing sector will be examined. Potential teaching methods and sources of information and training approaches will be discussed. Emphasis will be placed on regional and local needs, which will also have national impact.
 - Moderator: Mr. Glen McDonald, President, Gulf Coast State College
 - Panelist 1: Dr. Matthew Schwartz, Professor and Associate Vice President of Research Administration, UWF
 - Panelist 2: Ms. Carrie Meyers, Director of STEM Outreach, FSU Learning Systems Institute
 - Panelist 3: Mr. Jim Reynolds, Director of STEM Outreach, FSU Learning Systems Institute
- **2B: Regional Ecosystem: Resources and Focus**
The power of marketing Northwest Florida as a cohesive region and strategies for growth will be examined. Panelists will showcase how the region continues to attract and grow top-tier companies in sectors like aerospace, cyber and manufacturing will outline an effective approach to nurturing entrepreneurship through regional partnerships.
 - Moderator: Ms. Beth Cicchetti, Executive Director, Florida Economic Development Council
 - Panelist 1: Mr. Verdell Hawkins, Manager, Economic Development, Florida Power & Light
 - Panelist 2: Mr. Scott Luth, Vice President Economic Development & Capital Programs, Space Florida
 - Panelist 3: Mr. Nathan Sparks, Executive Director, One Okaloosa EDC

4:00 pm – 4:45 pm **Day 1 Wrap-up**

- Dr. Farrukh Alvi, Associate Provost of Innovation, Research & Entrepreneurship, FSU
- Mr. Neal Orringer, President, ASTRO America

Reception to follow.

DAY 2 - OCTOBER 3, 2023

8:00 am – 8:30am Check-in & Continental Breakfast

8:30 am – 9:15 am Welcome – Day 2

- Florida State University Senior Leadership
 - Dr. Stacey Patterson, Vice President for Research, FSU
 - Dr. Farrukh Alvi, Associate Provost of Innovation, Research & Entrepreneurship, FSU
- Ms. Becca Hardin, President, Bay County Economic Development Alliance
- Mr. Jorge Gonzalez, President and CEO, St. Joe Company, Member and Chair of University Research Committee, FSU Board of Trustees

9:15 am – 10:00 am **Moderated Discovery Sessions:**

- **3A: Use Inspired Research and Translation of Innovation to Production (2nd session)**
 - Moderator: Dr. Stacey Patterson, Vice President for Research, FSU
 - Panelist 1: Dr. Tarik Dickens, Associate Professor of Industrial & Manufacturing Engineering, FAMU-FSU College of Engineering, Associate Director of NSF CREST Center on Additive Manufacturing
 - Panelist 2: Dr. Rob Maskell, Chief Scientist, Solvay
 - Panelist 3: Dr. Qian Zhang, Assistant Professor of Civil & Environmental Engineering, FAMU-FSU College of Engineering
- **3B: Market & Supply Chain Requirements**
 - Moderator: Mr. Michael Polo, President and CEO, ACMT, Panama City FL
 - Panelist 1: Mr. Corbin McCall, Vice President of Operations, Maritech Machines, Panama City, FL
 - Panelist 2: Mr. Andrew Rencich, CEO, Aerohead Inc. and AA Tactical Inc., Crestview, FL
 - Panelist 3: Dr. Steve LeMay, Professor, Commerce Department, UWF
 - Panelist 4: Mr. David Fries, CEO, Guided Particle Systems, Pensacola, FL

10:15 am – 11:00 am **Plenary II: Significant Regional Initiatives**

- Triumph Gulf Coast Roundtable
 - Moderator: Dr. Randy Hanna, Dean, FSU Panama City
 - Mr. David Bear, Board Chair, Triumph Gulf Coast, CEO, The Lewis Bear Company
 - Ms. Cori Henderson, Program Administrator, Triumph Gulf Coast
 - Ms. Jennifer Conoley, President & CEO, Florida's Great Northwest

11:15 pm – Noon **Moderated Discovery Sessions:**

- **4A: Workforce Needs - Training Resources & Approach (2nd session)**
 - Moderator: Mr. Rabieh Razzouk, Director, FSU Learning Systems Institute
 - Panelist 1: Mr. Jesse M. Walton, Head - Ranges & Facilities Branch Head, Naval Surface Warfare Center Panama City Division
 - Panelist 2: Ms. Shera Gill, Director of Advanced Technology and Applied Sciences, Northwest Florida State College
 - Panelist 3: Ms. Nicole Gislason, Executive Director, Haas Center, UWF
- **4B: Opportunity for All**

Manufacturing variability and the available regional workforce will be assessed. The session will seek to identify the primary reasons for this variance and explore concrete ways to enhance success across all categories of participants. Methods to meet the needs of the differing regions and areas, especially those with the current least manufacturing success, will be identified and detailed. Ensuring all voices from greater Florida spanning all socio-economic groups, will be a key objective.

 - Moderator(s): Dr. Suvaranu De, Dean, FAMU-FSU College of Engineering
 - Panelist 1: Mr. Murilo Basso, Additive Manufacturing Mechanical Engineer, Sea3D Additive Manufacturing Lab, UWF
 - Panelist 2: Ms. Kimberly Bodine, Executive Director, CareerSource Gulf Coast
 - Panelist 3: Dr. Subramanian Ramakrishnan, 3M Distinguished Professor Department of Chemical and Biomedical Engineering, FAMU-FSU College of Engineering, Director, NSF CREST Center on Additive Manufacturing

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12:15 pm – 1:15 pm Luncheon Keynote: Dr. Richard McCullough, President, FSU

1:30 pm – 2:15 pm Plenary III: Federal Legislative Update

2:30 pm – 3:15 pm Plenary IV: Relevant State Legislative and Economic Initiatives

- Mr. Clay Ingram, Chief Legislative Affairs Officer, FSU
- Mr. Andrew Wiggins, Senior Director, Political Affairs & Coalitions Advocacy, Florida Chamber of Commerce
- Mr. Jimmy Heckman, Bureau Chief of Workforce Statistics and Economic Research, FloridaCommerce

3:15 pm – 3:45 pm Closing Remarks – Next Steps

- Dr. Farrukh Alvi, Associate Provost of Innovation, Research & Entrepreneurship, FSU
- Mr. Neal Orringer, President, ASTRO America
- Dr. Yongho Sohn, UCF: AAMT Workshop #2, Orlando, FL, November 16-17

Adjourn