

IMAPS **Florida Chapter**

<http://imaps.org/florida/>

Technical Workshop and Symposium on

*Advanced Manufacturing and Innovative Design
For DOD Systems*

Digital Design, Multi - Materials, Processes & Applications

February 21, 2018

CAMID - Florida Institute of Technology - FIT

Venue: **Larsen Motorsports**

Palm Bay, Florida

Wednesday 21st



Registration starts at 7:00 am



SPACE COAST FABLAB

Continental Breakfast: 7:30 am – 8:30 am

Sponsored By

Exhibit Hours: 10:00 am – 4:00 pm

Welcome: 8:00

General Co-Chairs

C. Mike Newton, Florida IMAPS Chapter President

Dr. Daniel R. Kirk, Professor in Mechanical and Aerospace Engineering and the
Associate Dean for Research

Palm Bay Mayor

Honorable William Capote

MORNING SESSION: 8:30 am – 12:15 pm
Technical Chair - Mr. James L. Zunino III, U.S. Army

- 8:30 – 9:00** ***Mesoscale Ceramic Cylindrical Ion Trap Mass Analyzers for In situ Sample Analysis***
Patrick Roman, Facilities Manager, Advanced Materials Engineering Institute (AMERI), Florida International University
- 9:00 – 9:30** ***Broadband low-loss and high K polymer composite for FDM printing of RF devices***
Vishvajitsinh Kosamiya, RF-MEMS Transducer Group, University of South Florida
- 9:30 – 10:00** ***Additively Manufactured mm-Wave Microelectronic Packaging***
Dr. Eduardo A. Rojas Nastrucci, Assistant Professor Wireless Devices and Electromagnetics Laboratory Embry-Riddle Aeronautical University

Coffee Break- Larsen Motorsports

10:00 am - 10:30 am
Break Sponsored By TBD

- 10:30 – 11:00** ***Recent Advances in Embedded Power and RF Passive Components***
Dr. PM Raj, Faculty at Florida International University, And adjunct research faculty with the 3D Systems Packaging Research Center (PRC), Georgia Institute of Technology, Atlanta, USA
- 11:00 – 11:30** ***Development of Manufacturing Technologies To Enable Munition Designs***
Daniel P. Schmidt, RDECOM ARDEC, US Army

EXHIBITOR PRESENTATIONS 11:30 am – 12:00 pm

Buffet Lunch: 12:00 pm – 12:45 pm

12:15 Featured Speaker – Dr. Michael Grieves
Executive Director – Center for Advanced Manufacturing and Innovative Design
Florida Institute of Technology (CAMID)

Larsen Facilities Tour
12:45 – 1:30

AFTERNOON SESSION: 1:30 pm – 6:00 pm

- 1:30 – 2:00** ***Utilizing PCB Reverse Engineering to address the Diminishing Supply and Obsolescence of PCBs for Legacy Systems***
William F. Loving, President & CEO, ScanCAD International, Inc.
- 2:00 – 2:30** ***Software and process development for hybrid additive manufacturing of circuits and electromagnetic devices***
Ubaldo Robles, Research Associate, University of Texas El Paso
- 2:30 – 3:00** ***Applying Electronic Qualification Standards to 3D printed Structures with Embedded Electronics***
Dr. Nathan Crane, Associate Professor, Mechanical Engineering, University of South Florida
- Coffee Break: 3:00 pm – 3:30 pm**
Break Sponsored By TBD
- * University Student Poster Judging ***
- 3:30 – 4:00** ***Advanced and Additive Manufacturing for Space Antennas***
Dr. Robert Taylor, Adjacent Technology Lead, Space Antennas, Harris Corp.
- 4:00 – 4:30** ***Direct Digital Manufacturing for next generation electronic packaging***
Dr. Kenneth H. Church, President/CEO, nScript, Inc.
- 4:30 – 5:00** ***Transforming Armaments Manufacturing Utilizing Additive Manufacturing and Printed Electronics***
Mr. James L. Zunino III, RDECOM ARDEC, US Army
- 5:00 – 5:30** ***Cybersecurity - Block Chain in the Supply Chain***
Donald Beavers, President, Probability and Statistics, Inc.

5:30 Poster Winner Announcement and Closing Remarks
Technical Chair: Jim Zunino, US Army

6:00 Cheese and Wine Social
Sponsored by Probability and Statistics, Inc.

Technical Committee

Dr. Amit Kumar (BRIDG), Tim Davis (JDM Associates), Dr. Kinzy Jones (Magic Leap),
Tim Sparks (Sparks Electronics Consulting).

Student Outreach Co- Chair

Juan Avendano, Director of Student Projects College of Engineering and Computing,
FIT

Dr. Tengfei Jiang, Assistant Professor, MSE University of Central Florida

Palm Bay Maker Faire February 24th
<http://palmbay.makerfaire.com/>