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The Center for Automation Technologies and Systems (CATS) at Rensselaer Polytechnic Institute and the **Center for Economic Growth (CEG)** are partnering to host the third annual **Advanced Manufacturing Conference (AMC)**.

Date: October 14, 2015

Location: The Desmond, Albany, NY

Time: 7:30am – 8:00pm

Interact with Leaders from:

- Industry
- Government
- Academia

Explore:

- Emerging ways to leverage advances in manufacturing processes and systems
- Business best practices
- Speed innovation and product commercialization
- Cost-effectively onshore manufacturing
- Better compete in the global marketplace

Features & Benefits:

- Educational Workshops
- Ledged Edge Topics
- Networking
 - Job Opportunities in Manufacturing
 - Posters and Exhibits

Details On Next Page

2015 CATS/CEG Advanced Manufacturing Conference Agenda

"What's Next?" – Wednesday - October 14, 2015

General Sessions

7:00am-7:30am Conference Check-In and Badge Pick-Up

7:30am - 9:00am

Breakfast Buffet and Panel Discussion: "**Manufacturing U**"

Focused on federal funding for specific universities to graduate more manufacturing-savvy engineers

12:15-1:45pm

Lunch Buffet and Keynote Address: Jim Winter, National Director – Industrial Services, Cresa

5:00-6:30pm

Posters, Exhibits, Career Fair and Networking

6:30-8:00pm

Dinner and Keynote Address: Wayne Frost, President, Society of Manufacturing Engineers

Cost: \$150/person (\$25 for students with valid ID); Synopsis of Sessions below – for full session details please visit the conference website: https://www.regonline.com/2015_AMC

Materials Processing Track

9:00 - 10:30am

Productivity Improvements for CNC

Machine Tools

Panel discussion focused on improving CNC Machine Tools efficiencies

Johnson Samuel, PhD, and Sam Chiappone,
Rensselaer Polytechnic Institute

-OR-

Microstructure Control in Materials Processing

Panel discussion on current and future developments featuring leaders in academia and industry at the forefront in understanding and controlling microstructure evolution during materials processing

Antoinette Manniaty, PhD, and Robert Hull,
PhD, Rensselaer Polytechnic Institute; and, Eric
Cotts, PhD, Binghamton University

10:45am – 12:15pm

Additive Manufacturing

Learn how Additive Manufacturing and related technologies can help you remain competitive

Steve Rock, PhD, and Bill Carter, Rensselaer
Polytechnic Institute

1:45 – 3:15pm

Challenges and Opportunities in

Materials Synthesis

Focus on metal and ceramic synthesis in general; this is for technologists from any size company interested in materials synthesis and processing to discuss topics such as: best practices for scale up from lab to production, materials and process modeling and process control

Dan Lewis, PhD, Rensselaer Polytechnic
Institute

3:30 – 5:00pm

Biomedical Device Manufacturing

Biomedical device manufacturing from implantable structures and sensors to devices and platforms for in vitro diagnostics; panel discussion on the latest techniques and current challenges

David Corr, PhD, Rensselaer Polytechnic
Institute

Manufacturing Systems Track

9:00 - 10:30am

Maker Spaces, Crowd Funding and the Democratization of Manufacturing

This panel will discuss the convergence of maker spaces, on-demand manufacturing and crowdfunding, and how these factors impact traditional supply chains and enable start-ups

Tom Tongue and Robert Manasier, Rensselaer
Polytechnic Institute

10:45am – 12:15pm

Smart Manufacturing - Fundamentals, Software and Implementation

Session Details TBD

Wayne Bequette, PhD, Rensselaer Polytechnic
Institute

-OR-

Closed Loop Manufacturing

Learn how CLM brings machining accuracy to a totally new level by leveraging optical metrology

Brad Etter, Alicona Corporation

1:45 – 3:15pm

The Smart Manufacturing Ecosystem

Session Details TBD

Craig Dory, Rensselaer Polytechnic Institute

3:30 – 5:00pm

Collaborative Robotics

Human and robots are increasingly sharing the same workspace and tasks. This session will bring together experts in industrial, government, and academia to talk about the potentials and challenges in human-robot collaboration, and current research initiatives.

John Wen, PhD, Rensselaer Polytechnic
Institute

Business / Executive Track

9:00 - 10:30am

Technology Acceleration: How to best Leverage TDMI & Tech Scouting

This session will introduce attendees to two services offered through CEG that help businesses grow: Technology Scouting and Technology-Driven Market Intelligence. We will explain what these services are, how they have helped manufacturers, and the steps of the processes used for these two services

Michael Osbourne, RTI International, Inc.

10:45am – 12:15pm

Driving Supply Chain Sustainability

What is sustainability in the supply chain and how do you meet customer demands? Can a "Circular Economy" drive growth? Learn about these evolving practices and how to incorporate into your business strategies.

Patricia Donohue, Pollution Prevention
Institute at RIT

1:45 – 3:15pm

What's New in Lean / Continuous Improvement

Best practices and tools for continuous improvement focusing on the leadership skills and tactical knowledge needed to guide the creation of an effective and sustainable lean enterprise.

Thomas Bell, CEG; Michael Tierney, Umicore
Technical Materials, N.A.; and, Timothy Burke,
Precision Valve and Automation, Inc.

3:30 – 5:00pm

CEN: CEO Panel Discussion

Session Details TBD

Gary Balfour, CEN Chairman; President & Co-
Founder, Solid Sealing Technology Inc.