Minutes

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Attendance

**MEMBERS:**

Scott Hibbard (Chairman)
VP Technology & Product Management
Bosch Rexroth – Electric Drives & Controls
Hoffman Estates, Ill.

Douglas Watts
Chief Technical Officer
MAG Automotive, LP
Sterling Heights, Mich.

Craig Ronald
Director, New Product Development
The Gleason Works
Rochester, N.Y.

John P. Snyder
Sr. Mechanical Engineer
ARDEC – Benet Laboratories
Launcher Producibility & Sustainment
Watervliet, N.Y.

**STAFF:**

Tim Shinbara (Liaison)
VP-Manufacturing Technology
AMT
McLean, Va.

Benjamin Moses
Technical Director
AMT
McLean, Va.

**Guest**

Dan Skulan
National Sales Manager
Renishaw
Cincinnati, Ohio
Tour of Clemson University International Center for Automotive Research (CU-ICAR)

Dr. Laine Mears, CECAS Dean’s Professor, led a tour of the facility.

VISION: To be the premier automotive research, innovation and education enterprise in the world

MISSION: Be a high seminary of learning in the field of automotive engineering; lead translational research, with emphasis on industry relevance and support with excellence in basic research; contribute to high value job creation in South Carolina; lead global thinking on the sustainable development of the automotive sector.

CU-ICAR EDUCATION:

- The automotive industry gainfully employs 95 percent of students
- Global student population representing 17 countries
- The state of S.C. employs 26 percent of its alumni
- A total of 183 M.S. and PhD degrees awarded

Four endowed chairs in four key research areas:
- BMW endowed chair in automotive systems integration
- BMW endowed chair in automotive manufacturing
- Michelin endowed chair in vehicle electronic systems integration
- Timken endowed chair in automotive design and development

Five technology neighborhood developments planned on campus
- CU-ICAR AutoPark & Innovation Place
- BMW Information Technology Research Center
- Carroll A. Campbell Jr. Graduate Engineering Center
- Koyo JTEKT (Collaboration Building 3)
- Center for Emerging Technologies (CET)

Seven Strategic Research Areas:
- Advanced Powertrain Systems
- Automotive Systems Integration
- Human Factors/HMI
- Manufacturing and Materials
- Vehicle Performance
- Vehicle-to-Vehicle Connectivity and Vehicle-Infrastructure Integration
Vehicular Electronics

- Eleven percent of total College of Engineering and Science Research expenditures for FY2011
- Grant of $1 million awarded by the U.S. Department of Energy’s GATE division

http://cuicar.com/about/quick-facts/

Welcome
Each member introduced themselves. The agenda was reviewed. The size of the committee was noted to be small compared to previous years. Currently, there are eight committee members who attend meetings regularly.

Anti-Trust Statement
Trade associations have long been recognized as serving a valuable, pro-competitive and entirely lawful role in promoting the economic development and consumer welfare of our country. However, serious antitrust problems can arise if a trade association’s activities are not properly conducted. Accordingly, AMT assigns the highest priority to full compliance with both the letter and the spirit of the antitrust laws. It is thus vital that all meetings and activities of the association be conducted in a manner consistent with that policy.

AMT TIC Mission Statement
The Technology Issues Committee acts as the voice of the membership by providing input to the association on member needs in support of AMT’s products and services. The committee works with staff to develop, promote and implement programs and services relating to technology issues facing AMT members. The committee also assists AMT in meeting the objectives of the Board of Directors’ Strategic Plan.

Roundtable
Several concepts were discussed during the round table. The first topic was the Technology Issues Committee to accurately represent to association. Several questions were raised during this discussion:

- How can more information be drawn from membership?
- What can be extracted from tradeshows?
- What data can be mined from the membership process and IMTS?
- What webpage is used the most on AMTonline.org?
- Should surveys be used by the committee to engage the membership?

Past products were reviewed including the Emerging Technology Forum. Past forums started with ~100 people but dropped to ~60. The topical forum revolved around industrial and academic research. The conversation shifted toward security. The following are open questions regarding security:

- What is needed as a technology provider to fit in a "secure" facility?
• Realism of security. What is the real threat/impact to manufacturing?
• Does a map of who knows what in security exist?

Meeting Called to Order
The meeting was called to order at 10:00 a.m. by the Scott Hibbard.

Minute Approval
The following changes were requested during the review:
• Add Heather Moyer’s full name and contact info.
• Change Doug to Doug Woods for clarity.
• Add inverted pyramid to NEW NNMI Update section.
Doug motioned and Craig seconded the motion. The minutes are approved with the noted changes.

Manufacturing USA Update
NNMI has been rebranded to Manufacturing USA. Other countries have adopted a similar strategy of
government funded technology growth.

www.manufacturingusa.com

Figure 3 - Current Institutes
NIST has formed a Smart Manufacturing institute (https://www.nist.gov/programs-projects/smart-manufacturing-operations-planning-and-control-program). Smart will focus on process and systems. DMDII will focus on discrete and device.
The next institutes funded by the DoD could be: Advanced Tissue Biofab and Robots in Manufacturing Environments.

_DoC will be announcing two new manufacturing institutes._


**Tech Trends Review**
The Tech Trends application was reviewed.

**MTInsight Review**
Various applications within MTInsight were reviewed including Passport.

**2017 Planning and Other Business**
Meeting dates for 2017:

- 1st meeting – Feb 9 (1:00-4:00 p.m. EST) - Teleconference
- 2nd meeting – The Thursday during MT360. Dinner on Wednesday, the 3rd. Attend conference on the 4th till 12:00 p.m. Committee meeting will be from 12:00-4:00 p.m.
- 3rd meeting – NTMA Fall Conference – October 25-27

**Other Business**
Doug Watts motioned to adjourn, and seconded by Scott Hibbard.

The meeting adjourned at 4:00 pm.

**Actions**
- Distribute Tech Trends Login information (Benjamin)
- Update previous minutes (Benjamin)

Respectfully submitted,

Timothy J. Shinbara, Jr.
Staff Liaison