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Attendance

Technology Issues Committee
Randy Gilmore (Proxy Chairman)
Vice President & Chief Technical Officer
NCDMM
Blairsville, Pa.

Russell Reinhart
U.S. National Sales Manager
Dormer Pramet
Elgin, Ill.

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

Jamie White
Branch Chief
Army ManTech Aviation Redstone Arsenal
Huntsville, Ala.

Drew Borders
Global Industrial Partnerships Coord.
Blaser Swisslube Inc.
Goshen, N.Y.

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

Technology Team
Gillen Young (Team Lead)
Custom Tool, Inc.
Alpharetta, Ga.

Technology Team cont.
Tiffany Bryson
GROB Systems, Inc.
Troy, Mich.

Jack Burley
BIG KAISER Precision Tooling Inc.
Hoffman Estates, Ill.

Mike Hirsh
Hirsh Precision Products
Boulder, Colo.

Gisbert Ledvon
Heidenhain Corporation
Schaumburg, Ill.

Guests
Keith Daily
Jeff Price
5ME
Cincinnati, Ohio

AMT Staff
Benjamin Moses (Liaison)
Technical Director
AMT
McLean, Va.

Nina Anderson
Data Scientist
AMT
McLean, Va.

Jesse Lewis
IT Director
AMT
McLean, Va.
Welcome
Each member introduced themself. The agenda was reviewed.

Antitrust 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.

TIC Mission
*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.*

Minutes Approval
The October 24, 2017, minutes were reviewed. Mr. Watts motioned for approval. Mr. Borders seconded the motion. The minutes were approved.

MTConnect Workshop
Mr. Price and Mr. Daily from 5ME led an MTConnect workshop. The presentation can be found as an attachment to the minutes. Contact Jeff ([jeff.price@5ME.com](mailto:jeff.price@5ME.com)) to access demo site.

Data Science Working Group
Mr. Moses presented the background of the data science working group. Ms. Anderson presented “What is Data Science?” The presentation is an attachment to the minutes.
Game-Changers
Gillen led the discussion on game-changers. The presentation is attached. The following items were noted as “game-changing.”

**Augmented Reality** Current application such as welding and in field repair have seen general acceptance. The underlying information already exists in formats ready for augmented reality.

**Maturation of artificial intelligence** Tools for implementing artificial intelligence are more available. Costs have significantly decreased. Hardware have become off-the-shelf items and are readily available.

**Gaming Technologies** are used for simulating military hardware with success.

**Amazon** The way we buy has significantly changed. Tooling and consumable items were discussed. The current purchasing method through distributors is a foreign concept to recent generations. Distributors’ value was questioned for some products.

**Bitcoin** This technology is seen as several trends. One is a move to online-only currency.

**Hackers** The hacking industry shapes online traffic and risks for connected machinery.

**Design for additive** Future designers will start designing free of conventional constraints.

**Machine monitoring** A hurdle for machine monitoring is “how does this improve my process?”

Will a machine tool be purchased like a computer? Will machine tools be a series of components that can be mixed and matched to suit the end user.

**Tech Trends**
The Tech Trends application was reviewed. Data for 2017 is will be loaded and reviewed at the next meeting. The next revision will compare industry roadmaps.

**What is data science?**
This topic was presented by Ms. Anderson, AMT Data Scientist. See her attached presentation for detailed information.

**Other business**
Mr. Young discussed the current status of the technology awards, the current agreement between AMT and NTMA ends this year. AMT provides two $2,500 ($5,000 total) awards for Technology Best Practices and Business/Cultural Practices. Click to see a summary of the awards from the NTMA Technology Team. Below is the description of the awards.
“The Technology Team accepts yearly nominations for this award. The nominations come from the membership, chapter executives, the Executive Committee and other teams. It is presented at the MFG Meeting in the spring. NTMA members and non-members can be nominated. AMT-The Association For Manufacturing Technology’s Technology Issues Committee is a proud sponsor of these awards and has underwritten the awards in the amount of $5,000. Each recipient receives $2,500 (excluding expenses).”

2018 Meetings
Dates for 2018 are:

- June 13 – Webinar
- October 24 – Pittsburgh, Pa.

Actions
- Add Jeff Price to the Data Science Working Group. (Anderson and Moses)
- Include presentations in minutes. (Moses)
- Review AMT’s involvement in Tech Award. (Moses)

Conclude and Adjourn
The meeting adjourned at 2:17 pm.

Respectfully submitted,

Benjamin Moses
Staff Liaison