The Industrial Internet of Things (IoT) covers a very wide variety of solutions for manufacturers. In 2019, the AGMA IIoT Committee began the process of breaking down this information and seeking out information that is specifically useful to companies in the gear industry. The committee provided hundreds of articles and reports on the AGMA website in this area. We are not recommending one solution over another – we are providing information in a way that allows our members to make the most informed decision on their IIoT needs. The Committee also brought speakers to AGMA events and invited IIoT companies to participate in the Emerging Technology Pavilion at the MPT Expo.

If you missed some of this, here are some of the highlights of the information that was discovered:

- MachineMetrics provided an executive speaker, Stacy Pease, for the MPT Conference in October. They also participated in the Emerging Tech Pavilion.
- Russ Waddell, Executive Director of MTConnect provided a presentation at MPT Conference
- Examples:

  - Cutting tools
    - Smart metal cutting tool holder: [youtube](https://www.youtube.com/watch?v=v4jwVdFsoGo&feature=youtu.be)
  - Components – Shafts/bearings/Gears
    - Methode – magnetoelastic sensors - [youtube](https://www.youtube.com/watch?v=dOHDn4aMOIE&feature=youtu.be)
    - SKF Insight - [youtube](https://www.youtube.com/watch?v=bMNwWg4MjiQ&feature=youtu.be)
  - Gearboxes
    - Rexnord smart conditioning monitoring - [youtube](https://www.youtube.com/watch?v=F94GcTjUBK0&feature=youtu.be)
  - Machine Tools
COMMITTEE GOALS FOR 2020

In 2019, one major focus of the committee will be cybersecurity. The committee has worked with the AGMA Foundation to receive funding to bring a special speaker to the 2020 Strategic Resources Network (SRN) event, May 27-29 in Charleston, SC. The presenter is an expert in Cybersecurity and will provide valuable information on how to protect your company and its assets.

The Committee is also working with MT Connect on the possibility of an expert-led tour of IIoT on the show floor at IMTS in September 2020. Watch for more information on this.

Additionally, the IIoT Committee will continue to provide information to members on IIoT solutions and will be monitoring the development of 5G and its possible impacts on many of the IIoT solutions that members have currently implemented. The Committee will provide more case studies that are specific to gear manufacturing.

The committee will have a minimum of 4 meetings in 2020:

- Wednesday, March 4, 2:00 PM EST
- Tuesday, June 2, 2:00 PM EST
- Wednesday, August 19, 2:00 PM EST | Discuss tour at IMTS
- Wednesday, September 23, 2:00 EST | Post tour at IMTS
- Tuesday, November 17, 2:00 PM EST

HOW CAN YOU PARTICIPATE? Join a committee – Emerging Technology Committee participation is open to all employees of member companies. You do not have to be an expert in the technology – you just must have a desire to learn more and engage with experts. We also encourage experts in the field to meet with us. Contact Mary Ellen Doran, Director – Emerging Technology at doran@AGMA.org for complete information.