

Subject: IEEE-Madison March Newsletter
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Madison Section Newsletter

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Serving IEEE Members of South Central Wisconsin

March 2020

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Upcoming Meetings

March Section/LMAG: Embedded Computers in Wisconsin
Thursday, March 19th at 5:30 PM at UW Space Place
[Event Info](#)

March PES/IAS: Distribution Automation with High DER Penetration
Wednesday, March 25th at 11:30 AM at Madison Downtown Library
[Event Info](#)

Upcoming Meetings Info

Review of Past Meetings

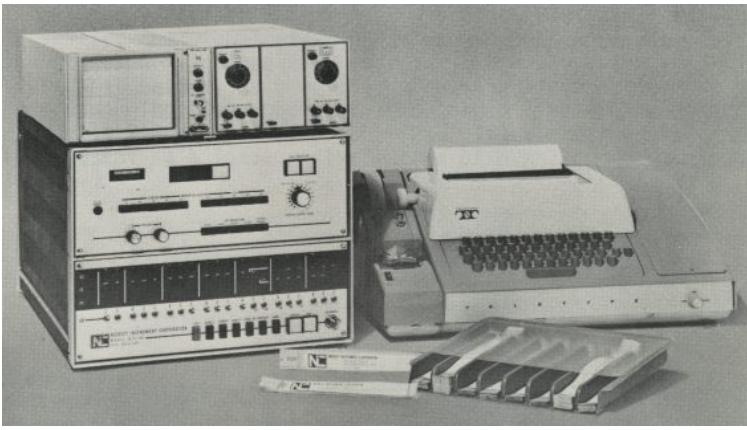
News/Announcements

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Upcoming Meetings

IEEE Life Member Affiliate Group and Madison Section Joint Meeting

EMBEDDED COMPUTERS IN WISCONSIN



- Thursday, March 19th, 5:30 PM to 7:30 PM
- Jack Kisslinger of Verona Scientific
- Location:
 UW Space Place
 2300 South Park Street, Suite 100
 Atrium Building, Lower Level
 Madison, WI 53713
- Please Register at the IEEE-Madison [event page](#).
- Pizza/Drinks: Students Free, \$10/\$5 Non-Member/Member suggested donation

Talk: A history of embedded computers. The story begins with the SAGE computer at Truax field in 1956 and continues with the Apollo Guidance Computer that went to the moon in 1969. Early examples of scientific instruments incorporating embedded computers will also be described.

Bio: Jack was awarded a BS in physics by UW - Madison in 1966. From 1966 through 1988, he was employed by Nicolet Instrument Corporation. Upon leaving Nicolet, he began a consulting career that began winding down in about 2008.

Following the meeting and questions, there will be an opportunity to tour the Space Place and Wisconsin Science Museum.

IEEE Madison Joint PES/IAS Chapter Meeting

DISTRIBUTION AUTOMATION WITH HIGH DER PENETRATION



- Wednesday, March 25th, 11:30 AM to 1:00 PM
- Marina Mondello of ComEd
- Location:
 Madison Central Public Library
 Room 302
 201 West Mifflin Street
 Madison, WI 53703
- Please Register at the IEEE-Madison [event page](#).
- Pizza and drinks (free) will be served

Talk: As the landscape of the distribution system continues to increase in complexity due to increased DER penetration, increased EV adoption, new advanced technologies, and increased customer demands, the design of the system needs to be considered as a whole. DA, VO, or DER deployments cannot be introduced in isolation. Rather, seemingly competing technologies need to be integrated to continue to advance the reliability and resiliency of the grid.

Bio: Marina Mondello is the senior manager of Distribution Capacity Planning and has been with ComEd for 19 years. She was previously in the Reliability Programs department and the Distribution Automation Group which monitors and troubleshoots the Distribution Automation system at ComEd, along with developing settings for DA

equipment. Prior to the DA Group she was in the Distribution Testing and New Business Departments. Marina received a BSEE from Rose-Hulman Institute of Technology in 2000. Marina was awarded the 2018 IEEE Power & Energy Society's Pioneer in Power Award for her work mentoring young women in the Power Industry along with voted Engineer of the year by her peers at ComEd.

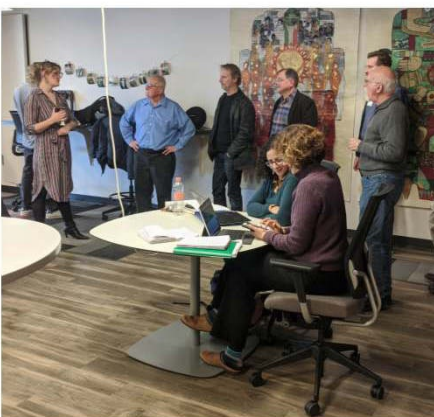
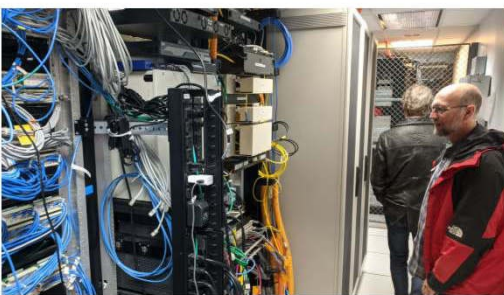
Upcoming Meetings

- **March LMAG/Section Meeting:** On Thursday, March 19th, Jack Kisslinger will discuss some of the highlights of embedded computer development in Wisconsin. Though most people are aware of computer companies like Cray Research, there were other companies who had an impact on computer technology. Jack was the developer of one of the early computers at Nicolet Instruments. His blog detailing some of the key developments are available at [Verona Scientific](#).
- **March PES/IAS Chapter Meeting:** Marina Mondello, Senior Manager of Distribution Capacity Planning from ComEd will discuss the impact of high DER penetration. The location does not allow the event to charge for the meal, so PIZZA is FREE! Please do sign up so we can estimate how much food to buy.
- **April 21st Joint Section/Student Branch Meeting:** A special screening of the movie "The Bit Player" documenting the life of Claude Shannon will be held at Union South Theater. Shannon was an American mathematician, electrical engineer, and cryptographer known as "the father of information theory". Shannon is noted for having founded information theory with a landmark paper, "A Mathematical Theory of Communication", that he published in 1948. Stay tuned for further information on the event! You can view the trailer for the film [here](#).

Review of Past Meetings

- **February Meeting in Fond du Lac:** Three members of the Madison section attended the meeting and heard a well-received presentation by Tom Triumph. Tom used a number of video clips and props to make his point. I enjoyed the opportunity to meet other IEEE members from outside of the Madison area.
- **February ECN Meeting:** On 1/27/20, the Madison IEEE ECN hosted a tour of the 5nines data center and the 100state coworking facility. Emily Volland lead the tour of the 100state coworking facility. 100state has a fairly large space with meeting rooms, space for drop in coworking, dedicated desks, offices, and various meeting rooms. They have quiet areas but also host regular social and networking events for their members. Emily mentioned that they are the largest coworking space in Madison and are a locally owned non profit organization.

After the 100state tour, Eric Mansfield lead us on a tour of the 5nines data center. Eric is the CIO and one of the founding members of 5nines. He was a last minute substitute for Macrus Cota who was originally scheduled to present. Eric talked about the various services that 5nines provides including virtual machine space, dedicated server space, wireless internet service, IT service, and more. From humble beginnings, 5nines has grown substantially over the years. They are currently expanding to add space for 5G providers. They are a major hub for the internet, hosting the intersection of the Minneapolis, Chicago, and Milwaukee fiber interconnections. Their location was originally a POTS hub for ATT. The name 5nines reflects their commitment to reliability (99.999% uptime) and they have various redundant systems and power feeds.



News/Announcements

- **Volunteers:** We need volunteers for: YP, ECN, LMAG, PES/IAS, Section and EMB.

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- Section Vice Chair - Hugh Schmidt
- Section Treasurer - Tom Kaminski
- Section Secretary - Mike Stemper
- Webmaster - Nate Toth
- PES/IAS Chair - Mike Stemper
- PES/IAS Vice Chair - Dan Ludois
- PES/IAS Secretary/Treasurer- Don Neumeyer
- EMB Chapter Chair - Dennis Bahr
- Life Member Affinity Group Chair - San Rotter
- Life Member Affinity Group Vice Chair - Charles Cowie
- ECN Chair - Matt Nowick
- Young Professionals Chair - Thomas Murphy
- Members at Large: Clark Johnson, Craig Heilman, Dennis Bahr

Membership Upgrades

Those interested in upgrading their IEEE membership level should be aware that the process has been streamlined with much of it on-line. The application process can start with your application as described on line [here](#). You will have to provide the names and IEEE numbers for three Senior Members in your field. The Madison Section Chair (Nate Toth at tothnj@ieee.org) can help, or attend the informal networking portion of the monthly Section meetings to meet the Section Board members and discuss your intention to elevate.

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