



## Madison Section Newsletter

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Serving IEEE Members of South Central Wisconsin

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### Upcoming Meetings

#### January PES/IAS: Opening the Black Box of Variable Frequency Drives

1415 Engineering Drive  
Engineering Hall, Room 2535  
Madison, Wisconsin 53706

[Event Info](#)

### Upcoming Meetings Info

### News/Announcements

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### Upcoming Meetings

#### IEEE-Madison PES/IAS: Opening the Black Box of Variable Frequency Drives



- Tuesday, January 21st, 5:30 PM to 7:00 PM
- Jeff Miller, President and Owner of JMB & Associates in Menominee Falls.
- Location:  
UW-Madison College of Engineering  
1415 Engineering Drive, Room 2535
- Please Register at the IEEE-Madison [event page](#).
- **NOTE:** One PDH Hour is available for this talk with a \$5.00 Fee.

**Talk:** A Variable Frequency Drive (VFD) can provide advantages when properly installed and configured. However, to many, they are a mysterious black box. This talk will help remove the mystery. Topics will include:

- How to use the available VFD control system settings to maximize energy savings
- When and when not to replace your motor with a VFD retrofit

- Simple rules for a successful VFD installation

**Bio:** Jeff Miller has been in the variable frequency drive and motor control industry for over 30 years. He spent 13 years at Danfoss and 15 years at ABB. Jeff started in R&D engineering and ended as the VP of Sales. Jeff enjoys working with the engineering community on the proper selection and application of VFD's for the HVAC, water, and wastewater industries.

## Upcoming Meetings

- **IAS/PES Meeting:** The talk on Variable Frequency Drives will offer PDH hours for a \$5.00 Fee. A number of IEEE members have requested that we do this and we have pre-paid the IEEE for the purchase of 50 certificates to be used in future meetings.
- **Joint meeting with the IEEE-North Eastern Wisconsin Section:** On Thursday, February 6th, the IEEE Madison Section will hold a joint meeting with the IEEE North Eastern Section in Fond du Lac that will feature futurist Tom Triumph. The meeting will include dinner, the talk, and an opportunity to network. The IEEE Milwaukee members have been invited as well. Tom's video describing the talk is available at this [link](#).

## News/Announcements

- **Section Elections:** These were held at the December Volunteer Appreciation Meeting. Please welcome two new officers: Matt Nowick, Chair of the ECN and Don Neumeier, Secretary/Treasurer of the PES/IAS Chapter. Matt Nowick has been a member of the IEEE for over 25 years and previously served as section chair in Cedar Rapids, IA. He is a passionate advocate of the IEEE mission and value. Matt is currently president of Brew Data Engineering Services and specializes in IoT systems, hardware, and security. Don joins the volunteers at IEEE-PES/IAS-Madison Chapter as a PE, former WPL Utility Engineer and member of the Public Utility Commission of Wisconsin.
- **Volunteers:** We need volunteers for: YP, ECN, LMAG, PES/IAS, Section and EMB.

## IEEE Madison Leadership

- Section Chair - Nate Toth
- 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 Neumeier
- 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 - Nate Toth
- Members at Large: Clark Johnson, Craig Heilman, Dennis Bahr

## Membership Upgrades

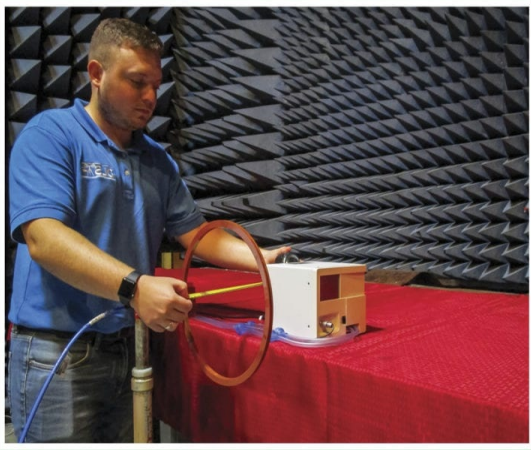
Those interested in upgrading their IEEE membership level should be aware that the process has been streamlined with much of it on-line. The application process can start with your application as described on line [here](#). You will have to provide the names and IEEE numbers for three Senior Members 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.

## About IEEE

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# Standards Update Required for Medical Compliance



The new 4th Edition IEC/EN 60601-1-2 Medical Device for EMC is now in effect. This new standard has several changes and includes additional test requirements, including more stringent testing criteria, a greater emphasis on risk management requirements, higher immunity levels and multiple locations for intended use with different testing criteria to name a few.

**New FDA Requirements** now include immunity from RFID devices, using AIM 7351731 as the preferred method of compliance. There is no grandfather clause for past testing and performance. D.L.S. offers a comprehensive design review and transitional analysis to help determine the specific requirements needed to maintain existing products compliance, and to confirm new products meet the new standards requirements as well. Contact us today.



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