



Madison Section Newsletter

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Serving IEEE Members of South Central Wisconsin
September 2020

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Upcoming Meetings

September 18th (WebEx Remote): "Battling cancer at the cellular level with magnetic nano-bots"

Friday, September 18th at 12:00 noon On-Line

[Event Info](#)

Review of Past Meetings

Social Issues: Maydm Internship Positions Needed

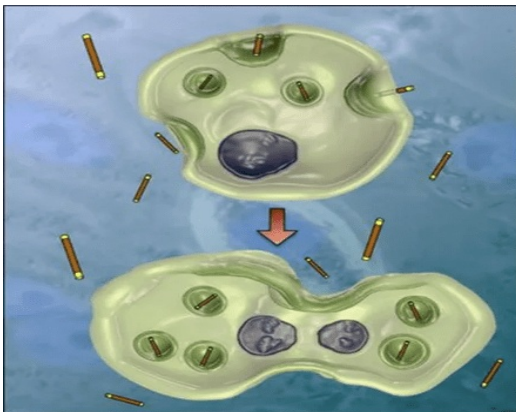
News/Announcements

IEEE-Madison Slack Channel

Sponsored Content: DLS EMC

Upcoming Meetings

IEEE Madison WebEx: "Battling cancer at the cellular level with magnetic nano-bots"



- Friday, September 18th, 12:00 noon to 1:30 PM
- Dr. Bethanie Stadler, University of Minnesota
- Location:
 - On-Line via WebEx (or alternate TBD)
 - (Link will be emailed from you registration information)
- Please Register at the IEEE-Madison [event page](#).



Talk: The first step in fighting cancer using personalized medicine is finding its molecular "calling card" in the body and examining it through a blood or tissue sample. Blood samples, or biopsies, are safer and less invasive than tissue biopsies, but there's a catch - finding cancer's calling cards in the blood is currently next to impossible. Stadler will discuss her research to improve blood biopsies for personalized cancer treatment.

Bio: Professor Beth Stadler has served as associate head of the Department of Electrical and Computer Engineering since 2018. She received a B.S. degree from Case Western Reserve University in 1990 and a Ph.D. from Massachusetts Institute of Technology (MIT) in 1994. She was then a National Research Council Postdoctoral Fellow at the Air Force Research Laboratory at Hanscom Air Force Base, until joining the University of Minnesota.

Stadler's research is in magneto-optical materials and devices and in magnetic nanowires (the topic of today's talk). In optics, she is working to commercialize a new Si-integrated garnet for optical isolators. She has taught at the IEEE Magnetics Society Summer School in Chennai India, Assisi Italy, and hosted the school for 80 global students at the University of Minnesota in 2015. She also served as a Distinguished Lecturer for the IEEE Magnetics Society and will be a General Co-Chair of the Intermag Conference in 2023 in Sendai Japan. Professor Stadler was a General Co-Chair of the Materials Research Society (MRS) Fall Meeting in 2004, and is now a Fellow of MRS.

Upcoming Meetings

- **September 18th Talk on Magnetic Nanobots:** Dr. Stadler from the University of Minnesota Electrical and Computer Engineering Department will be giving a talk on her latest research results using magnetic nanowires to treat cancer. Dr. Stadler gave a talk on making the nano-wires at a January, 2017 talk for the IEEE-Madison. Stadler's talk in 2017 was not recorded, but a related Distinguished Lecture is posted by the Magnetics Society "IEEE-TV" at this [link](#). The talk is sponsored by the IEEE-Madison Engineers in Medicine and Biology Chapter EMB18.

Review of Past Meetings

- **June 30th IEEE Region 4 Meeting - Government Update:** IEEE USA full-time lobbyist, Russ Harrison (IEEE's Director of Government Relations), posted links to the recorded version of the presentation here:

Topic: IEEE Region 4 Government Update-20200630 2258-1

Create time: 7/1/20 1:26 am

File size: 69.35MB

Duration: 1 hour 8 minutes

Streaming recording: [Streaming Link](#)

Download Recording: [Download Link](#)

The slides for the presentation are available at this [link](#).

Social Issues: Maydm Internships

The Social Issues Committee of the IEEE Madison Section is working to help Maydm student graduates find internship positions. The students are High School juniors/Seniors who have completed Maydm software training and need to further their career development with part-time internships. If you are interested in hosting these exceptionally gifted students in an internship, please contact Tom Kaminski (tjkaminski@ieee.org).

News/Announcements

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

IEEE-Madison Slack Channel Established and Open to IEEE Members

- **What is Slack?:** Slack is a messaging application that works on most modern computing platforms, including cell phones. Many organizations use slack to quickly connect with people and conduct business. You can share files and create sub-channels for discussion. IEEE-Madison is using the free version of slack that has limited features.
- **Executive Committee Presence:** Members of the IEEE-Madison Executive Committee have joined a Slack Channel and will be available to discuss issues you might bring up.
- **For more:** See this YouTube Video [on Slack](#). Also see this site: [What is Slack?](#)
- **Get an Invitation to Join the IEEE-Madison Slack Channel:** at [Slack Channel](#).
- **Access it here:** [IEEE Madison Slack Channel](#)

IEEE Madison Leadership

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- Section Vice Chair - Hugh Schmidt
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- ECN Chair - Matt Nowick
- Young Professionals Chair - Thomas Murphy
- Members at Large: Clark Johnson, Craig Heilman, Dennis Bahr

Membership Upgrades

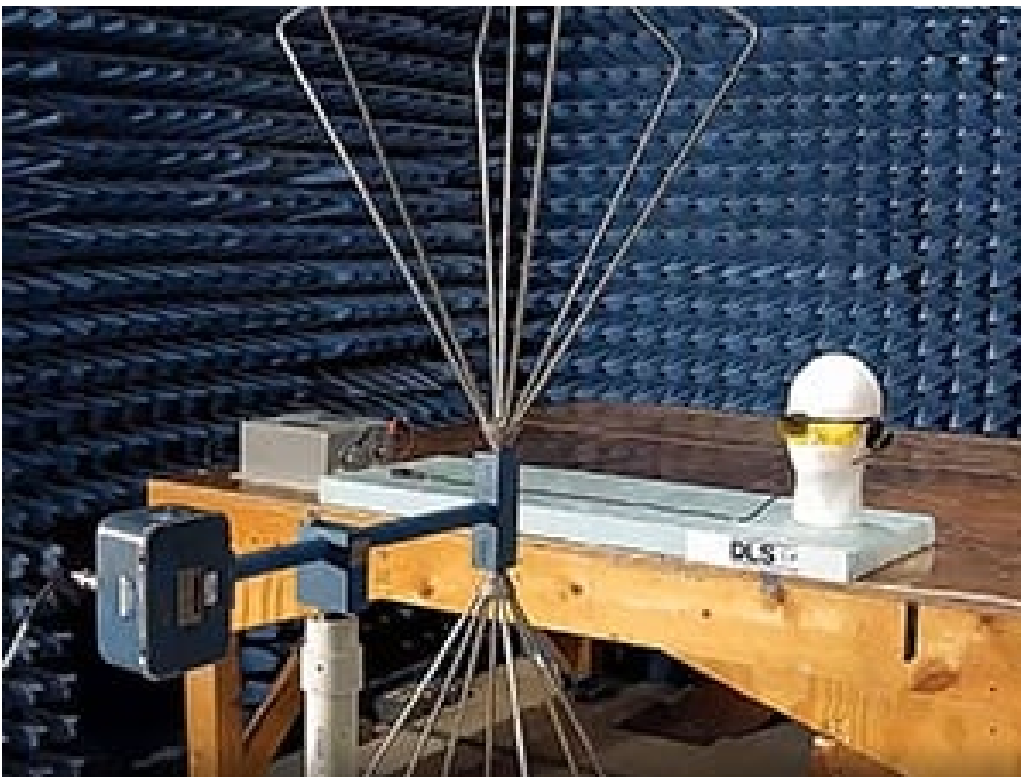
Those interested in upgrading their IEEE membership level should be aware that the process has been streamlined with much of it on-line. The application process can start with your application as described on line [here](#). You will have to provide the names and IEEE numbers for three Senior Members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

About IEEE

The Institute of Electrical and Electronics Engineers or IEEE (read Eye-Triple-E) is an international non-profit, professional organization dedicated to advancing technology innovation and excellence for the betterment of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities. It has the most members of any technical professional organization in the world, with more than 300,000 members in around 150 countries. The IEEE consists of 38 societies, organized around specialized technical fields, with more than 300 local organizations that hold regular meetings. Discover what IEEE Member Discounts can offer you. The Member Discounts portfolio consists of insurance products and programs for the home, office and travel, all at excellent group rates and reduced pricing. Visit IEEE Member Discounts to see what's available in your location and enjoy the savings. For more information, please visit: IEEE.ORG.

Sponsored Content

[Remote witnessing now allowed by FAA](#)



The FAA has issued Policy Statement PS-AIR-21-1901 allowing for remote witnessing of testing projects. DLS TestView remote access monitoring platform allows for encrypted video and audio during the testing process, with a fully controllable camera system allowing for the most visual experience during the testing process. For more information and an example of the DLS TestView platform, go to www.dlsemc.com/testview or ask your DLS team member for an individual demonstration.



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