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IEEE

# Madison Section Newsletter

**Vol. 24, No. 8** **Serving IEEE Members of South Central Wisconsin**
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**Newsletters are archived online at IEEE-Madison**

## Upcoming Meetings

**IEEE-Madison Joint PES/IAS and LMAG Meeting**
**"UW-Madison WEMPEC Research Consortium Overview"**
Tuesday, December 14th at 7:00 PM (Virtual)
Register at: Vtools.Events Here

**IEEE-Madison Entrepreneurs and Consultants Meeting**
**"New Energy Producing Devices -- Open Discussions"**
Wednesday, December 15th at 7:00 PM (Virtual)
Register at: Vtools.Events Here

## IEEE-Madison 2022 Officer Elections

## Announcements

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## Upcoming Meetings

## IEEE-Madison Joint PES/IAS and LMAG Meeting: "UW-Madison WEMPEC Research Consortium Overview"


- Tuesday, December 14th, 7:00 PM to 8:30 PM
- Talk By Giri Venkataramanan, WEMPEC Directoro
- Location:
  On-Line via WebEx
  (WebEx link will be sent to all who register at Registration Page)
- Please Register at the WEMPEC Talk event page.

**Talk:** Giri Venkataramanan will tell us about the Wisconsin Electric Machines and Power Electronics Consortium, WEMPEC (See: https://wempec.wisc.edu/) .He will tell us about WEMPECs mission, history, faculty, students, corporate members, funding, current research, and past accomplishments. He will describe the several WEMPEC

laboratories and some of their capabilities.

**Bio:** Giri Venkataramanan received the B.E. degree in electrical engineering from the Government College of Technology, Coimbatore, India, the M.S. degree from the California Institute of Technology, Pasadena, and the Ph.D. degree from the University of Wisconsin-Madison, USA in 1986, 1987, and 1992, respectively. After teaching at Montana State University, Bozeman, he returned to University of Wisconsin-Madison, as a faculty member in 1999, where his research continues in various areas of electronic power conversion. He is a Professor in the UW Electrical and Computer Engineering Department and also serves as the Director of the Wisconsin Electric Machines and Power Electronics Consortium

## IEEE-Madison Entrepreneurs and Consultants Meeting: "New Energy Producing Devices – Open Discussions"


- Wednesday, December 15th, 7:00 PM to 8:30 PM
- Introduction By Tom Kaminski, IEEE Madison
- Location:
  On-Line via WebEx
  (WebEx link will be sent to all who register at Registration Page)
- Please Register at the Vtools Event page here.

**Introduction:** Tom Kaminski will start the discussion with a brief review of emerging technology, focusing primarily on what has become known as "E-Cat" technology invented by Andrea Rossi of Leonardo Corporation. Leonardo Corporation is emphasized because two versions of E-Cat technology will have been announced as ready for commercial sale on Thursday, December 9th. After the introduction, the meeting will be opened up to discussions for anyone who wishes to participate.

**Background:** In the December 2021 Journal of Electroanalytical Chemistry, authors Freire Luciano Ondir and Andrade Delvonei Alves de state: "Since 1989 the announcement of 'cold fusion' by Stanley Pons and Martin Fleishmann, 'cold fusion' field has been surrounded by controversy. After three decades, this field is alive and has produced thousands of publications, most in dedicated periodic and conferences." Further, the authors say "Some types of experiments present rising trends (the field does not fit in pathological science model) and have potential to bring disruptive technologies". There are now several companies pursuing new technology and project market products. Four are:

**1). Global Energy Corporation** (GEC Link) whose 'Hybrid Fusion Technology' was identified in a contract to develop a 10 KW Thermal/2 KW Electrical generator for NASA/Glenn Research Center. Lawrence P. Forsley, GEC's Chief Scientist and formerly of US Navy SPAWAR (Space and Naval Warfare Systems Command), who is a long time researcher in the field or LENR is the listed inventor of the patent for a 'Hybrid Fast Fusion Fission Reactor'.
**2). Brilliant Light Power** (BLP Link) has developed a reactor dubbed 'Sun Cell' that uses a 'hydrino' reaction to generate power. The 'hydrino' is a state of the hydrogen atom that is predicted by Randall Mill's theory: The Grand Unified Theory of Classical Physics (GUT-CP).
**3). Aureon Energy LTD** (Safire Link) has developed a system that grew out of the Safire Plasma Reactor Project and intends to address the markets for clean energy production, heating and remediation of nuclear waste. They draw upon the Mills GUT-CP theory, the Parkhomov Low-Energy Neutrino observations, and slow neutrons of the Widom-Larson theory to explain their reactions.
**4). Leonardo Corporation** (E-Cat Link) has developed a very efficient light that they claim produces 20,000 lumens (5000K color) with 4 watts, 12 times more efficient than the best LED light, and also a device that generates electricity directly from their patented process. The details of commercial products will be announced on **Thursday, December 9th at 8:00 AM CST** (see E-Cat Event Link for details). Andrea Rossi, the inventor, has published a theory paper (Rossi Theory Paper Link) that identifies some frameworks for formation of dense exotic electron clusters in the devices. The paper suggests the probable role of Casimir, Aharonov-Bohm, and collective effects in the formation of such structures.

## IEEE-Madison 2022 Officer Elections

**Please Vote!** The 2022 IEEE-Madison Officer elections are now open. You should have received an email notification like this:

> **Welcome to the Section officers for 2022 Election!** I would like to take this opportunity to personally express my sincere appreciation for you being an IEEE member!
>
> Our duty and responsibility is to ensure that your voting rights are protected and you are confident that your vote is accurately cast and tabulated. We will utilize the vTools.Voting system for our elections. Please sign in to vote in the election.
>
> Voting will start from 24 November 2021 12:00 AM [Central Time (US & Canada)] and close at 24 December 2021 11:59 PM [Central Time (US & Canada)].
>
> **Please select one candidate for each position or specify a write-in candidate.**
>
> Contact me at michael.stemper@gmail.com if you have any questions.
>
> **Thank you for voting – your vote counts!**
>
> Mike Stemper
>
> Madison Section of IEEE

Here are a summary of the candidate's statements:

**Scott Olsen, Chair**
My goals are:
1. Providing engaging meetings for the Section, both in person and from interesting online sources.
2. Attracting young professionals, more professionals, and perhaps more students. This includes gaining more volunteers.
3. Working on increasing the diversity of the Executive Committee.

**Michael Stemper, Vice Chair**
I see IEEE as not only supporting the exchange of technical information and best practices, but also as a way to build bonds within our profession. Thus, I look forward to the Madison Section moving back to in-person meetings in the coming year (assuming that PHMDC supports this).

**Thomas Kaminski, Secretary**
It will be my pleasure to serve as a volunteer as Secretary for the IEEE-Madison Section. In past years I have served as Chair, Vice Chair and Treasurer for the Section as well as ECN Chair and Newsletter Editor. I am also the volunteer IEEE Region 4 Medium Section Support Chair. I am a retired Electrical Engineer who was last employed at MATC as an instructor for the Industrial Maintenance Mechanic Program where I taught automation, controls, basic electricity, electronics, and robotics. I look forward to helping recruit and mentor new volunteers for the IEEE Madison Section so that they may enjoy the many benefits of helping an excellent volunteer organization as they further their careers.

**Matthew Nowick, Treasurer**
It will be my honor to serve as the Madison Section Treasurer for the next year. Although running unopposed, I'm glad that the IEEE remains committed to fair elections and the democratic processes that allow local representation within a diverse organization that is truly global in scale. Together with keeping the books balanced, it is my goal to build greater relations between the section leadership and our members, and to educate and facilitate value between the IEEE and our members.

### 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

- Section Chair – Scott Olsen
- Section Vice Chair – Mike Stemper
- Section Treasurer – Matt Nowick
- Section Secretary – VACANT
- Webmaster – Nate Toth
- PES/IAS Chair – Mike Stemper
- PES/IAS Vice Chair – Dan Ludois

- PES/IAS Secretary/Treasurer- VACANT
- 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
- Section Student Activities Chair -- Hugh Schmidt
- Members at Large: Nate Toth, 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 (Scott Olsen: olsens93@gmail.com) 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.

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