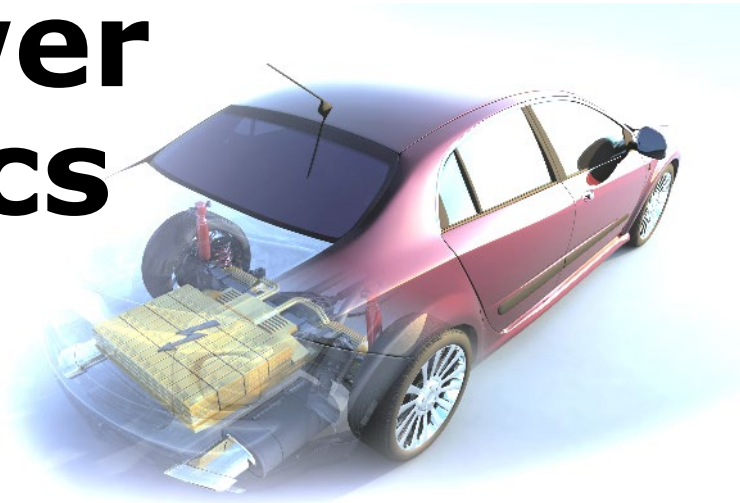


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# IEEE Power Electronics Society (PELS)

A Not For Profit Organization Society within the [IEEE](#) :

- IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.

The [IEEE Power Electronics Society \(PELS\)](#) was founded in 1987, after a few years of operation as the Power Electronics Council.

PELS is an IEEE Society with over 9,000 members worldwide

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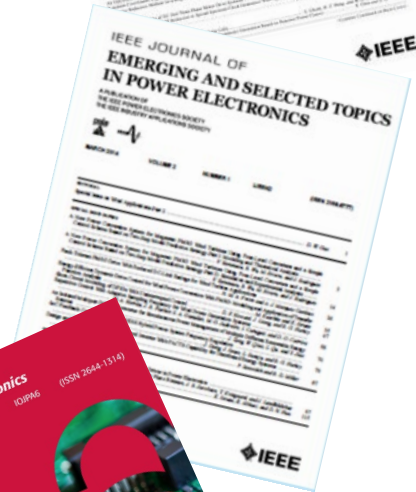


[Jian Sun](#)

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## Publications

- **Print, Electronic, & Digital Subscription**
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- **Online Subscriptions**
  - IEEE Power Electronics Letters
  - IEEE Transactions on Power Electronics
  - IEEE Journal of Emerging and Selected Topics on Power Electronics
  - IEEE Electrification Magazine
  - All sponsored conference proceedings
- **Launched October 2019**
  - *IEEE Open Access Journal of Power Electronics*



# Membership Benefits Include:



**Conferences & Workshops** - Online Access to all PELS sponsored conference proceedings. Registration discounts on conferences, symposiums and workshops



**Resource Center**- A multimedia online library that is FREE for all PELS Members!



Easy access to archived materials such as: webinars, newsletters, proceedings, conference presentation video & slides and Roadmaps



## **Technical Committees-**

Active committees concentrate on such key areas of technology as:

- Power & Control Core Technologies
- Power Conversion Systems and Components
- Motor Drives and Actuators
- Vehicle and Transportation Systems
- Sustainable Energy Systems
- High performance and Emerging Technologies
- Communication Energy Systems

# Membership Benefits Include:

## ■ Networking

- PELS has over 170 chapters, worldwide, including professional & student branches
- Young Professionals enjoy networking events at:
  - APEC
  - ECCE: North America, Asia, Europe
  - SPEC
- Members Participate in:
  - Technical committees
  - Conference committees
  - Chapters
- Women in Engineering events/socials gatherings
- Mentorship Events



# Distinguished Lecturer Program

- Class of 2019-2020
  - **Vassilios G. Agelidis**
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  - **Huang-Jen Chiu**
    - National Taiwan University of Science and Technology
  - **Paolo Mattavelli**
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  - **Krishna Shenai**
    - University of Chicago, USA
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    - University of Innsbruck, Austria
  - **Jian Sun**
    - Rensselaer Polytechnic Institute, NY, USA
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    - Florida State University, USA
  - **Pedro Rodriguez**
    - Loyola University, USA
  - **Udaya K. Madawala**
    - The University of Auckland, New Zealand
  - **Robert Balog**
    - Texas A&M University at Qatar
  - **Tobias Geyer**
    - ABB Corporate Research, Switzerland, and Stellenbosch University, South Africa



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# Education/Student Activities

- **PELS has a broad student program and supports exciting student activities:**
  - IEEE Future Energy Challenge
    - International competition for innovation, conservation and effective use of electrical energy
  - Student Travel Grants
    - Supporting students who participate in PELS Conferences
  - Mentorship
    - Mentorship events at PELS Major conferences
      - Such as APEC, ECCE-NA, and others
  - PELS Prize Ph.D. Thesis Talk
    - Encourages recently graduated Ph.D. students to make a video of up to 200 seconds on their Ph.D. projects showcasing their research achievements in academics and industrial fields



# Standards

PELS is the driving force behind the International Technology Roadmap for Wide Bandgap Power Semiconductors (ITRW) and numerous standards activities relating to Power Electronics, and Smart Grid initiatives.

We are actively looking for volunteers to engage in standards activities and therefore if you would like to join our efforts, please contact [Prof. Johan Enslin](#).

## **Current Standards Activities:**

ETTC: [Matt Wilkowski](#) has been leading the [Electronics Transformers Technical Committee](#) efforts with several standards related to magnetic materials and components and organization of the Power Magnetics @ High Frequency workshop which is part of the committee's effort to obtain the power industry's input for future standards and recommended practices. An updated version of IEEE 389 Recommend Practice for Testing Electronics Transformers and Inductors will be published in 2020 and work will start in 2020 to update IEEE 393 IEEE Standard for Test Procedures for Magnetic Cores.

P2004: Led by [Mischa Steurer](#), this recommended practice provides established practices for the use of the method of Hardware-in-the-Loop (HIL) Simulation based Testing of Electric Power Apparatus and Controls. It is intended to be generically applicable in synergy (in conjunction) with any specific testing standard (if applicable).

# Home Society for





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In striving to build knowledge and awareness of the latest technologies and other advances in power electronics, the IEEE Power Electronics Society's goal is to keep members current and competitive in the workplace, and provide the tools necessary to help them grow both personally and professionally.

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