



Society E-newsletter

March 2024

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Last Call for Awards Nominations!

PELS IEEE POWER ELECTRONICS SOCIETY
Powering a Sustainable Future

**POWER ELECTRONICS SOCIETY
IS SEEKING AWARD NOMINATIONS FOR
2024**

**SUBMISSION OPENS:
JANUARY 2024**

**AWARD DETAILS:
WWW.IEEE-PELS.ORG/AWARDS**

IEEE PELS Graduate Studies Scholarship and IEEE PELS Jan Abraham "Braham" Ferreira Scholarship

Scholarship supports up to 7 eligible student members with a bachelor's degree/equivalent pursuing graduate education within the Society fields of interest.
PRIZE: \$5,000 and certificate

PELS Scholarship & Fellowship Programs

ACCEPTING NOMINATIONS UNTIL
31 MARCH 2024

IEEE PELS Graduate Studies Fellowship and IEEE PELS John G. Kassakian Fellowship

Provides up to 7 Fellowships to eligible student members with a master's degree/equivalent pursuing an advanced doctoral/PhD degree within the Society fields of interest.
PRIZE: \$5,000 and certificate

For complete Scholarships/Fellowships and submission information visit:
www.ieee-pels.org/awards

Call for Submissions

**SUBMISSION DEADLINE:
31 MARCH 2024**

IEEE POWER ELECTRONICS SOCIETY

P³ Talk
IEEE PELS Ph.D. Thesis Talk

More Information and submission details:
<https://www.ieee-pels.org/awards/pels-student-awards/pels-p3-talk>

Crossword Puzzle

IEEE PELS Crossword Puzzle on EV Chargers NOW online!

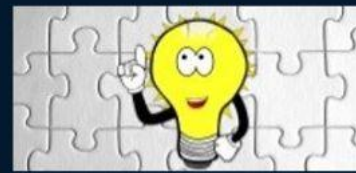
Ready, set, puzzle! You've got a swift 24 hours to crack the code before it auto-submits.

Ace the puzzle and join the elite 100 club for a chance to snag a PELS Puzzle T-Shirt. Five lucky winners will score this exclusive gear!

To join in on the fun:

<https://tees.catalog.instructure.com/courses/ieee-power-electronics>

Puzzle will be available until 15 April 2024 (midnight - CT)



PELS Day Event Funding Available



PELS Day is only a few months away! To help Chapters prepare for their events this year, PELS is offering various support methods, including funding up to 200 USD. If you are a Chapter Chair and are interested, please click the button below to access an application to apply for this support.

[Submit an Application](#)

ECCE-NA'24 - Call for Special Sessions



IEEE ENERGY CONVERSION CONGRESS & EXPO PHOENIX, ARIZONA, USA OCT. 20-24

IMPORTANT DATES

April 1, 2024
Special Session proposal due
May 15, 2024
Notification of acceptance

Call for Special Sessions



GENERAL CHAIR
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Virginia Tech, USA

GENERAL CO-CHAIRS
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Luxembourg Institute of Science and Technology (LIST), Luxembourg

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The 16th Annual IEEE Energy Conversion Congress and Exposition (ECCE 2024) will be held in Phoenix, Arizona, USA, from October 20 – 24, 2024. Special Sessions are solicited focusing on emerging technologies and industry-oriented topics. Industry and government organizers or speakers are of particular interest. Guest speakers will be invited on the day their session is scheduled. No written papers are required. Materials presented in the Special Sessions will not be included in the conference proceedings. Each session will be assigned either one or two 100-minute slot(s), subject to conference program scheduling.

Different session formats are solicited:

- 1) Formal presentations;
- 2) Informal talks with or without slides;
- 3) Full Q&A panel;
- 4) Debate;
- 5) Other creative or hybrid styles.

One or more of the following elements are strongly encouraged in the special session proposals:

- a) Significant industry or government involvement;
- b) Industrial application oriented;
- c) ECCE 2024 regionally oriented topics;
- d) Collaborative cross-disciplinary topics or teams;
- e) Creative formats that engage the audience, especially industry.

Factors considered as less attractive to the audience are

- a) Non-emerging topics;
- b) Academic lectures;
- c) Similar teams with similar topics from the immediate past ECCE;
- d) Solicitation of a particular product

Upcoming Webinars

Modelling the Switching Behavior of WBG-based Power Devices

Date: Thursday, 28 March
Time: 12:00 PM ET
Sponsor: TC 7
Presenter: Kaushik Basu
Bengal Eng. and Sci. Univ.,
India



Register

Analysis and Control of Oscillatory Stability in Renewable Power Systems: China's Experience

Date: Monday, 15 April
Time: 10:00 AM ET
Sponsor: TC 8
Presenter: Xiaorong Xie
Tsinghua Univ., USA



Register

Power Electronics Role in Future Hydrogen Systems

Date: Thursday, 25 April
Time: 10:00 AM ET
Sponsor: TC 5
Presenters: Francisco Canales
and Ahmed Abdelhakim
ABB Corp. Research Ltd. and
Epiroc Rock Drills AB



Francisco Canales



Ahmed Abdelhakim

Register



InTACK™ Robust Tacking Agent for Power Electronics Assembly



"GPT Unplugged": Raw, Unfiltered Discussions with our AI Friend

Date: Monday, 29 April
Time: 10:00 AM ET
Presenters: Prasad Enjeti and Grant Pitel
Texas A&M Univ., USA and Magna-Power Electronics, USA



Register

Predictive Control of Power Electronics - Basic Principles and Possible Achievements

Date: Thursday, 2 May
Time: 10:00 AM ET
Sponsor: TC 1
Presenter: Ralph Kennel
Tech. Univ. of Munich, Germany



Register

The Switching Bus Converter: Toward 48-V-to-1-V Single-Stage Vertical Power Delivery for Data Center Applications

Date: Tuesday, 7 May
Time: 11:00 AM ET
Presenter: Yicheng Zhu
Univ. of California - Berkeley, USA



Register

Cybersecurity Resilience in Distributed Energy Resources

Date: Thursday, 16 May
Time: 10:00 AM ET
Sponsor: TC 10
Presenter: Flemming Johansen
Schneider Electric



Register

Recent Development of Predictive Encoderless Control for AC Motor Drives

Date: Tuesday, 21 May
Time: 9:00 AM ET
Sponsor: TC 1
Presenter: Zhenbin Zhang
Shandong Univ., China



Register

New PELS Chapters and SBCs



- Phoenix Section Chapter, PEL35
- Cambridge Institute of Technology-Bengaluru, PEL35

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