



# Society E-newsletter

April 2024

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## New Website

PELS launched its new website this month! Have you taken a look at it? Watch the video below for some of the highlights.



[Visit Website](#)

[Learn More](#)

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## Special Session on Standards and Roadmaps

A special session about IEEE Standards and Roadmaps will take place at IPEMC 2024 - ECCE Asia on 19 May 2024 from 13:30 to 17:00 China Standard Time. The topic is "How to Develop IEEE Standards and Roadmaps" and will feature the following presenters:

- **Meng Zhao** (Senior Standards Manager, IEEE China Office)
- **Matt Wilkowski** (Chair of IEEE PELS Standards Committee)
- **Liuchen Chang** (IEEE PELS Immediate Past President)

Attendees are also able to join the session virtually through Zoom (password: PELS).

[Join Session](#)

[More Information](#)

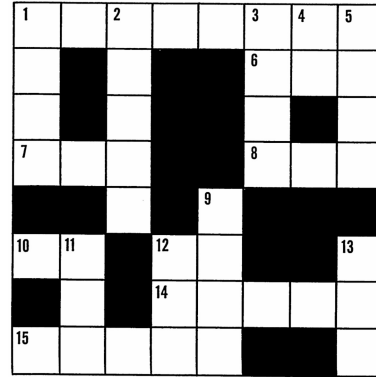
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# New Crossword Puzzle Available

Thank you to those who have registered to solve our recent crossword puzzles! A new puzzle has been posted: if you have not registered yet, click [here](#). It is available until 15 May at midnight US Central Time, so submit your answers before it's too late!

Those who have scored 100/100 on the puzzle will be entered into a raffle and five people will be selected to receive a special PELS Puzzle T-shirt.

Please note: once you start the puzzle, you have 24 hours to solve it before it auto-submits. Each user has 2 chances to solve the puzzle.



## PELS Day



POWERING A SUSTAINABLE FUTURE

**PELS Day is two months away!**

Stay tuned for an announcement regarding our PELS Day-themed webinar that will take place on 20 June.

Are you a part of a PELS Chapter and would like to receive funding support for your PELS Day event? Click the button below to be considered for funding this year.

[Submit an Application](#)

Are you interested in volunteering on the PELS Day committee? Click the button below to submit your information and help the committee see how you can support this year's efforts.

[Send Your Information](#)

## Upcoming Events

### The Debate: The Global Energy Transition and Energy Access - Centralized vs. Decentralized

**Date:** 2 May 2024 **Time:** 11:00 am ET

**Location:** Massachusetts Institute of Technology, USA

Join in person or online for this fun debate reminiscent of Edison and Tesla for the 21st-century question of centralized vs. decentralized solutions for the global energy transition!

[In Person Registration](#)

[Online Registration](#)

Hosted by: The Boston Chapter of IEEE Power Electronics Society (PELS) and the PELS Technical Committee - 12 for Off-Grid Solutions and Energy Access

**SAMANTHA CODAY**  
MODERATOR  
Massachusetts Institute of Technology

**AT MIT**  
In-Person Registration  
<https://bit.ly/3JIKvOU>

**THURSDAY**  
2 May 2024

**PRESENTATION**  
11:00 a.m. ET

**RECEPTION**  
12:00 p.m. ET

**VIRTUAL**  
<https://bit.ly/3JIKvOU>

**Panel Discussion @ 4:30**  
Reception @ 10:00 (GEM lab)  
<https://web.mit.edu/>

**CENTRALIZED**  
FRIEDE BLAAUWJERG  
UNIVERSITY OF AALSBORG  
IEEE - PELS PAST PRESIDENT  
2020 IEEE EDISON MEDAL  
2019 GLOBAL ENERGY PRIZE  
2014 IEEE WILLIAM E. NEWELL POWER ELECTRONICS AWARD

**VS**

**DECENTRALIZED**  
DEEPAK DIVAN  
GEORGIA TECH  
IEEE - PELS PAST PRESIDENT  
2024 IEEE MEDAL IN POWER ENGINEERING  
2015 NATIONAL ACADEMY OF ENGINEERING  
2006 IEEE WILLIAM E. NEWELL POWER ELECTRONICS AWARD

**BRAD LEHMAN**  
NORTHEASTERN UNIVERSITY  
PRESIDENT IEEE POWER ELECTRONICS SOCIETY

PELS IEEE POWER ELECTRONICS SOCIETY Powering a Sustainable Future IEEE

# IEEE Workshop on High-Power Electronics for Decarbonizing Energy Grids

Dates: 19-20 June 2024

Location: KTH Royal Institute of Technology (Stockholm, Sweden)

[Learn More](#)

## Upcoming Webinars

### "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](#)



7<sup>th</sup> edition of the ESARS-ITEC Europe International Conference on Electrical Systems for Aircraft, Railway, Ship propulsion and Road Vehicles & International Transportation Electrification Conference

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### Cybersecurity Resilience in Distributed Energy Resources

Date: Thursday, 16 May

Time: 10:00 AM ET

Sponsor: TC 10

Presenter: Flemming Johansen  
Schneider Electric, France



### Recent Development of Predictive Encoder-less Control for AC Motor Drives

Date: Tuesday, 21 May

Time: 9:00 AM ET

Sponsor: TC 1

Presenter: Zhenbin Zhang  
Shandong Univ., China



### Advanced Topics of Model Predictive Control in Power Electronics

Date: Thursday, 30 May

Time: 11:00 AM ET

Sponsor: TC 1

Presenters: Jose Rodriguez and Cristian Garcia  
Univ. San Sebastian, Chile and Univ. of Talca, Chile



Register

Register

Register



### Model Predictive Control for Power Electronics Applications

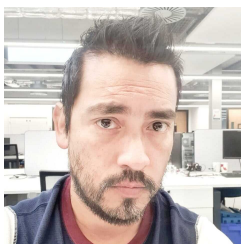
**Date:** Thursday, 6 June

**Time:** 9:00 AM ET

**Sponsor:** TC 1

**Presenter:** Marco Rivera  
*Univ. of Nottingham, UK*

This webinar will be in Portuguese.



Register

### MPC in Power Electronics and Drives: 40 Years of Research, Recent Industrial Successes and a Path Forward

**Date:** Thursday, 13 June

**Time:** 10:00 AM ET

**Sponsor:** TC 1

**Presenters:** Tobias Geyer  
*ABB, Switzerland*



Register

### Medium Voltage Power Electronics Research: Challenges and Opportunities

**Date:** Wednesday, 3 July

**Time:** 11:00 AM ET

**Presenters:** Drazen Dujic  
*EPFL, Switzerland*



Register

## New PELS Chapters and SBCs



- Seoul Section Chapter, PEL35
- S.R. Institute of Management & Tech-Lucknow, PEL35

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