CALL for SPECIAL SESSIONS

ECCE 2026
IEEE ENERGY CONVERSION CONGRESS & EXPO
VANCOUVER, BC, CANADA • OCT. 4-8

The **18th Annual IEEE Energy Conversion Congress and Exposition (ECCE)** will be held in Vancouver, Canada, from October 4 – 8, 2026.

This year, Special Sessions will spotlight emerging technologies and industry-driven topics, emphasizing perspectives beyond academia. We especially welcome contributions from manufacturers, government labs, start-ups, and industry professionals.

To broaden participation, Special Session presenters are not required to submit written papers, and presented materials will not be included in the official conference proceedings. Each session will be scheduled for one or two 100-minute slots, which may occur on the same or different days, depending on the overall program.

IMPORTANT DATES

MARCH 2 — Proposal Deadline

MAY 25 — Notice of Acceptance

2026

Session Formats

We invite proposals in a variety of styles, including but not limited to:
1. Formal presentations
2. Informal talks (with or without slides)
3. Interactive Q&A panels
4. Panel debates
5. Hybrid or creative formats (e.g., demos, live polling, virtual tours)

Highly Encouraged Proposal Features

Successful proposals will likely include one or more of the following:
- Strong engagement from industry or government
- Focus on industrial applications
- Emphasis on regional or localized topics
- Cross-disciplinary collaborations or topics
- Innovative and engaging session formats

Discouraged Elements

The following types of proposals are considered less appealing to ECCE attendees:
- Topics that are not emerging or timely
- Academic-style lectures
- Repeat sessions from past ECCE programs
- Sessions promoting specific products

All proposals must follow the posted guidelines and will be reviewed by a panel of experts.

Suggested Topic Areas (not limited to):

Defense & Aerospace
- Radar and laser power systems
- Directed energy weapons
- Submarine integrated power (SIP)
- UAVs and drones
- Electric maritime systems (reliability, suppression, quality)

Transportation
- All-electric aircraft & eVTOL
- Autonomous systems with safety-centric design
- Grid & wireless charging
- Battery protection and management

Automation, AI, and Robotics
- Advanced drives and power electronics
- Fault detection and quality inspection
- Robotic battery systems

Manufacturing Processes
- Electric smelting and arc welding
- Electric discharge machining
- Hydrogen: fuel cells and electrolyzers

Infrastructure
- Renewable energy integration
- Smart grids, microgrids, and nanogrids
- Energy conversion for IT
- Cybersecurity in energy systems

Components & Subsystems
- Ultra-wide-bandgap semiconductors
- Power devices, magnetics, and capacitors
- Machines and drives

- EMI, EMC, and packaging
- High-voltage systems and insulation
- Reliability, diagnostics, and prognostics
- Thermal and cooling innovations
- Design automation with machine learning

Other Areas
- Standards and regulatory development
- Education, workforce, and career pathways
- Entrepreneurship, tech transfer, and business management
- Innovations in online education

General Chair
Michael Harke
Collins Aerospace, United States

General Co-Chair
Shanelle N. Foster
Michigan State University, United States

Special Sessions Chairs
Sara Roggia
Magnix, United States

Matt Woongkul Lee
Purdue University, United States

Ryan Li
University of Albertaiversit

Special Session Proposal Template

Format: Max 5 pages, letter/A4 size, 1" margins, single-spaced, Times New Roman, 11–12 pt font. A Word® template will be available on the ECCE website under "Call for Special Sessions."

Recommended Sections:

- **Session Title**
- **Session Format:** Choose from formats listed above; describe any creative elements (e.g., demos, polls, tours)
- **Timing:** Choose "100 minutes" or "2 × 100 minutes"
- **Session Organizers:** List name(s), title(s), affiliation(s), and email(s)
- **Speakers/Panelists:** List name, title, affiliation; mark each as "confirmed" or "tentative"
- **Abstract:** Max 500 words. Will appear in the program and website
- **Session Outline:** List topics/titles/activities, including time and speaker breakdown if available
- **Organizer Biography:** Max 200 words per person
- **Speaker/Panelist Biography:** Max 200 words per person

www.ieee-ecce.org/2026

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