



36<sup>th</sup> Annual IEEE Applied Power Electronics Conference and Exposition  
March 21-25, 2021 at the Phoenix Convention Center in Phoenix, Arizona USA

## **Announcement and Call for Professional Education Seminar Proposals**

*Professional Education Seminars are comprehensive tutorials  
on important and complex power electronics topics*

### **The Professional Education Seminars**

Continuing the tradition of focusing on the practical aspects of the power electronics profession, the Professional Education Seminars at APEC 2021 address the need for in-depth discussion of important and complex power electronics topics. Each seminar combines practical application with theory designed to further educate the working professional in power electronics or related fields. The Professional Education Seminars at APEC are three-and-one-half hours (including breaks) in length, can range from broad to narrow in scope, and can vary from introductory to advanced in technical level and they complement the technical papers, the special presentations, and the comprehensive exposition

### **Topics**

Topics are to address the practical issues of the specification, design, manufacture and marketing of power electronic components, products, and systems. Proposals focusing on, but not limited to, any of the following areas of power electronics are welcome.

#### **1. POWER SYSTEMS**

- a. AC-DC Power Supplies
- b. DC-DC Converters
- c. Inverters
- d. Power System Architectures
- e. Lighting Power Systems
- f. Renewable/Alternative Energy
- g. Aerospace & Defense Systems
- h. Automotive & Traction Applications
- i. Telecom Power Systems
- j. Uninterruptible Power Supplies

#### **2. COMPONENTS**

- a. Capacitor Technologies
- b. ICs for Power Electronics
- c. Magnetics
- d. Power Semiconductors

#### **3. DESIGN**

- a. Control of Converters & Systems
- b. Digital Control and Management
- c. EMI and EMC Issues
- d. Energy Harvesting
- e. High-Efficiency Designs
- f. Machine Control
- g. Modeling and Analysis
- h. Power Conversion Fundamentals
- i. Power Factor Correction

#### **3. DESIGN (continued)**

- a. Protection of Converters & Systems
- b. Safety and EMI/EMC Compliance
- c. Simulation Tools & Techniques
- d. Soft-Switching Techniques
- e. Thermal Management

#### **4. MANUFACTURING**

- a. Design for Manufacturability
- b. High Density Packaging
- c. Manufacturing Processes
- d. Standardizing Specifications
- e. Technology Transfer

#### **5. BUSINESS**

- a. Benchmarking Results
- b. Identifying New & Emerging Markets
- c. JIT & Material Management
- d. Market Analysis & Strategies
- e. Procurement & Qualification
- f. Product & Technology Roadmaps
- g. Quality/Reliability and Data
- h. The Voice Of The Customer

Please note the following time frames (subject to change and posted at [www.apec-conf.org](http://www.apec-conf.org)):

July 20, 2020	Start date to submit proposal
September 4, 2020	Deadline for proposal submission
October 23, 2020	Notification that a proposal was accepted or declined
October 23, 2020 - January 20, 2021	Final presentation and author registrations are due

### Preparation of proposals

The seminar proposal should include the following:

- Contact information for presenting speaker(s): name, affiliation, mailing address, telephone number, and email address. The corresponding presenter must be clearly identified, and an email address must be provided in the proposal.
- An abstract of no more than 200 words describing what is to be presented, including whether the topic will be treated in-depth or as a survey, and the level of the intended audience (entry level, intermediate, or advanced). This abstract should be in a form suitable for publication in the APEC advance program.
- A detailed topical outline of three to five double-spaced pages including the estimated time for each major topic. Note that the topics must be suitably in-depth and comprehensive to adequately cover three plus hours of presentation time.
- A short biography (<200 words) and a résumé/CV of each speaker.

Upload your proposal PDF file online at <https://apec-conf.org/> no later than **Friday, September 4, 2020** (author registration required).

### Procedure and important notices

- Members of the APEC Conference and Program Committees will review the seminar proposals. Seminars are selected based on high quality and an effort to provide a balanced seminar program consistent with the overall APEC charter. This means that that some very good seminar proposals may be declined.
- Compensation for seminar speakers includes an honorarium of US\$2500.00 and a complimentary seminar and conference registration. In the case of multiple speakers for one seminar, the US\$2500.00 honorarium and complimentary registrations may be shared among the speakers. Seminar speakers are responsible for their own expenses of preparing and presenting the seminar, including all travel, lodging, and meals.
- Speakers are required to be present at APEC 2021 to deliver their presentation in person.
- **Tutorial presentations are expected to be commercial free.** Limit background information on the speaker's affiliation and trademarked terms. Part numbers and detailed product information should be avoided unless necessary for the tutorial.
- The seminar presentations will be distributed as protected Adobe PDF files (text and graphics copy protected) in the USB flash drives as well as printed handouts, which will be in color. Submission of your seminar proposal serves as your implicit agreement and consent to electronic distribution of your seminar presentation.
- Final presentations in Microsoft PowerPoint format AND Adobe PDF format are due at the APEC office no later than **January 20, 2021**.

**Calls for Industry Sessions, Professional Education Seminars, and Exhibitor Seminars will be posted at [www.apec-conf.org](http://www.apec-conf.org).**

Website: [www.apec-conf.org](http://www.apec-conf.org)  
Email: [apec@apec-conf.org](mailto:apec@apec-conf.org)  
Phone: +1-202-973-8664  
Facsimile: +1-202-331-0111

APEC  
330 N Wabash  
Suite 2000  
Chicago, IL 60611

APEC Sponsors  
Power Sources Manufacturers Association  
IEEE Industry Applications Society  
IEEE Power Electronics Society