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Authorities Converge At ISPSD 2022 To Discuss Latest Developments In GaN, SiC And Si

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The 34th International Symposium on Power Semiconductor Devices and ICs ([ISPSD 2022](#)) will be held in hybrid format with the in-person portion held in Vancouver, Canada from May 22 – 25, 2022. ISPSD is a premier international conference that brings together the world's foremost experts on power devices and power integrated circuit technologies and applications. The conference venue rotates annually through regions of the world with an average attendance of about 450 engineers, scientists, students, and professors.

ISPSD 2022 will open with an all-day short-course lecture series on May 22 with six exciting topics. This will be followed by three full days of technical sessions (May 23 – 25). A total of 84 oral and poster technical papers will be presented. Sessions will run sequentially, with no parallel sessions, enabling participants to listen to, and to ask questions of, every presenter.

In recognition of the reality that not all authors will be able to attend in person, the conference has been shortened by one day for 2022 and we will modify the format of the conference to include video-on-demand presentations as well as two extended roundtable discussion sessions with on-line authors to enhance the experience for in-person attendees. All oral and poster presentations will be pre-recorded and available on-demand for all attendees.

The technical program will consist of more than 84 high-quality presentations on novel power device concepts, process integration, device modeling, power ICs, packaging and integration, and power electronics applications. In addition, exhibition booths will provide an opportunity for attendees to learn about the equipment and services of companies that support the power electronics industry.

The short-course topics and speakers include:

- "Ga₂O₃ for Power Electronics," by Masataka Higashiwaki, National Institute of Information and Communications Technology.
- "Medium-Voltage (1-10 kV) GaN Devices: Current Status and Comparison with SiC," by Yuhao Zhang, Virginia Tech.
- "Reliability in wide bandgap power devices," Enrico Zanoni, Padova University.
- "BCD and Si power devices," Pushpa Mahalingam, Texas Instruments.
- "Passives for high frequency power converters," Charles Sullivan, Dartmouth College.
- "High frequency power converters," Juan Rivas-Davila, Stanford University.
- "Power Electronics for Electric Vehicles," Andre Christmann, Infineon.

ISPSD 2022 will officially open on May 23 with three exciting plenary talks by world renowned experts to set the tone for the remainder of the technical program. As always, networking opportunities abound with coffee breaks between sessions, the exhibits area, a welcome reception, as well as the conference banquet where we'll learn about the world's first electrically powered plane for commercial service.

More than 20 years after the first ISPSD was held in Toronto in 1999, the conference returns to Canada, this time in the cosmopolitan Pacific gateway of Vancouver, BC. The conference venue is the Marriott Pinnacle Downtown Hotel situated just moments away from the 22-km long Vancouver Seawall, Stanley Park and shopping on Robson Street. You'll certainly find trendy restaurants, awe-inspiring views, and plenty of nature to enjoy nearby. For a truly unique experience, you can take a scenic flightseeing adventure by floatplane from the harbor air terminal possibly on an electrically powered plane.

For those contemplating travel, at the time of this writing, there will be no testing requirements for fully vaccinated visitors to Canada starting April 1st. For those unable to attend in person, virtual attendance is available with an option for a group rate this year.

The deadline for early registration is April 29, 2022. Onsite registration is also available. The latest details for the conference can be found at <https://www.ispsd2022.com/>. The site is regularly updated so please visit regularly for the latest news.

ISPSD 2022 is sponsored by IEEE and the IEEE Electron Device Society, and technically sponsored by the IEEJ (the Institute of Electrical Engineers of Japan), the IEEE Power Electronics Society, and the IEEE Industry Applications Society.