On 10th Anniversary, ECCE Draws Nearly 1800 Attendees

The 10th annual IEEE Energy Conversion Congress & Exposition (ECCE), co-sponsored by IEEE Power Electronics Society (PELS) and Industry Applications Society (IAS), with support from industry partners Wolong Electric and General Motors, concluded Thursday, September 27, 2018, attended by a record 1,789 professionals and researchers spanning various facets of the global energy conversion industry.

"I am extremely pleased that ECCE has been able to grow and expand in order to address the ever-evolving aspects of the energy conversion industry and profession," stated ECCE 2018 general chair Avoki Omekanda. He continued, "This year, the call for digests garnered 1,788 proposals—our highest to date, allowing us to design a valuable technical program addressing the needs of our attendees, and providing them with the education and insights needed in their everyday work. The favorable response to this call for proposals attests to the sustained and intense interest in advancing the energy conversion industry worldwide."

Held in Portland, Oregon, ECCE 2018's professional program was developed to address the needs of the practicing engineer with emphasis on the challenges facing the industry, and featured highly diverse and meritorious offerings including 22 tutorials, one plenary session, 11 special sessions, 144 oral sessions, 54 poster presentations and 48 exhibitors.

- Tutorial sessions covered a gamut of topics, including SiC devices, high power converters and smart transformers, sequence impedance modeling and power system stability analysis, hybrid ac-dc microgrid, permanent magnet fundamentals, and health monitoring of electric machines.

- The plenary session featured keynote speeches by PowerAmerica chief technology officer Victor Veliadis; Texas Instruments technology innovation architect Stephanie Watts Butler; Microsoft director of energy research Sean James; Pacific Ocean Energy Trust executive director Jason Busch; and Hyperloop One director of power electronics Jiaqi Liang.

- Special sessions addressed state-of-the-art topics in wide bandgap power semiconductor devices, as well as power electronics-enabled sustainable energy systems.

- Oral sessions covered a wide range of topic in electric machines, power electronics and their applications. For an overview of all the sessions, see the ECCE 2018 final program.

- The exhibition showcased the latest industry products and services from top exhibiting companies and also featured the latest research through ground-breaking poster presentations.

As part of a continued effort to evolve the purpose and mission of ECCE, significant programs for women in engineering were included, sponsored by the Women in Power Electronics Society (WIPELS). Offerings included a Women in PELS breakfast and a WiE evening event, providing women engineers the opportunity to network, discuss, and engage. Travel grants were also awarded to women engineers traveling to attend ECCE 2018 from countries such as Bangladesh, Canada, China, India, Peru, Spain, Tunisia, the United Kingdom, and the United States.

For the second consecutive year, ECCE 2018 co-located with the 2018 IEEE Industry Applications Society (IAS) Annual Meeting, offering attendees the opportunity to participate in both programs, promoting the continued growth of the power energy conversion field. The Power Electronics Society held its inaugural Members Town Hall Meeting on Sunday, Sept. 23, to interact with its membership in a live-streamed, worldwide event while celebrating its 30th anniversary as an IEEE society.

The 2019 IEEE Energy Conversion Congress & Exposition (ECCE 2019) will take place September 29–October 3, 2019 at the Baltimore Convention Center in Baltimore, Maryland.

More About ECCE

The Energy Conversion Congress & Exposition (ECCE) is the foremost IEEE conference in the field of electrical and electromechanical energy conversion. Held annually, the conference features both industry-driven and application-oriented technical sessions, as well as industry expositions and seminars designed to provide

engineers, researchers, and professionals a balanced combination of state-of-the-art technical prowess and commercial opportunities in one central location.

For general questions about ECCE, contact show management. For more background and news about this conference, see How2Power's ECCE section.