

The 3rd Next Generation Power Electronics Research Center Annual Meeting

19th Nov. (Tue)

	Time	International Meeting Room	Room21
	10:20-10:30	ご挨拶 座長 大村一郎 Greeting : General Chair: Ichiro Omura	
Tutorial Session 1	10:30-12:00	ダイヤモンドパワー半導体 Diamond Power Devices 渡邊晃彦 工学研究院 助教	信頼性工学基礎 Reliability Theory 大村一郎 生命体工学研究科 教授
Lunch			
Tutorial Session 2	13:00-14:30	パワー半導体基礎 Basics of Power Devices 大村一郎 生命体工学研究科 教授	スイッチング電源設計の基礎 Basics of Switching Power Supply Design 安部征哉 工学研究院 准教授
Tutorial Session 3	14:40-16:10	パワー半導体の信頼性応用 Application of Power Devices Reliability 附田正則 生命体工学研究科 特任准教授	交流モータ可変速駆動とインバータの基礎 Fundamentals of Adjustable-speed AC Motor Drives and Inverters 長谷川一徳 生命体工学研究科 准教授
Short Presents	16:20-18:00	学生の研究紹介 @10分×10名を予定	
Networking Event	18:30-20:30	技術交流会 会場：ミクニワールドスタジアム 3F ビジネスルーム Networking Event Mikuni World Stadium 3F Business Room	

20th Nov. (Wed)

- Session I 9 : 30~12 : 30 International Meeting Room
- Session II 13 : 30~16 : 00 International Meeting Room

※申し込み状況により、プログラムに変更が生じる場合があります。
※会場の座席に限りがありますので、事前登録の方を優先いたします。
※講演は日本語または英語で行います、(資料は英語対応です。)

Time	Title
9:30-9:45	Opening: <i>Director Ichiro Omura, Kyushu Institute of Technology</i>
9:45-10:10	SiC MOSFET based Power Conversion Technology and Circuit Design <i>Prof. Alberto Castellazzi, Kyoto University of Advanced Science</i>
10:10-10:35	The Deveopment of Distributed PV Generation in Mongolia <i>Prof. Bayasgaran Dugarjav, National University of Mongolia</i>
10:35-11:00	Construction of the Navigation System for Electric Vehicles Considering Electric Power Transportation in the Event of a Disaster <i>Dr. Atsushi Shiota, Kitakyushu Municipal Medical Center</i>
	Coffee Break
11:15-11:40	History and Future Issues of Semiconductor Silicon Crystal Development <i>Dr. Masataka Hourai, SUMCO Corporation</i>
11:40-12:05	Digital Active Gate Drive with Optimal Switching Patterns to Adapt to Sinusoidal Output Current in a Inverter Circuit <i>Prof. Keiji Wada, Tokyo Metropolitan University</i>
12:05-12:30	IoT, AI, and Platform for Gate Electronics <i>Prof. Takayasu Sakurai, The University of Tokyo</i>
	Lunch
13:30-13:55	Advanced SiC Power Device Technology for Automotive Powertrain <i>Mr. Kazuhiro Tsuruta, DENSO Corporation</i>
13:55-14:15	Elemental Technology of Next Generation Power Network System <i>Prof. Seiya Abe, Kyusyu Institute of Technology (KIT_nPErc)</i>
14:15-14:35	Intelligent Current Sensor for Power Electronics <i>Prof. Masanori Tsukuda, Kyusyu Institute of Technology (KIT_nPErc)</i>
14:35-14:55	Gate Control of Series-parallel Power Semiconductor Devices <i>Dr. Tripathi Ravi Nath, Kyusyu Institute of Technology (KIT_nPErc)</i>
	Coffee Break
15:10-15:30	Development of an Inverter for Reliability Evaluation of DC-Link Capacitors <i>Prof. Kazunori Hasegawa, Kyusyu Institute of Technology (KIT_nPErc)</i>
15:30-15:50	Reliability enhancement of power devices by real-time monitoring and AI <i>Prof. Akihiko Watanabe, Kyusyu Institute of Technology (KIT_nPErc)</i>
15:50-16:00	Closing: <i>Director Ichiro Omura, Kyushu Institute of Technology</i>

- Poster Session 16 : 00~17 : 30 Sub foyer