Symposium (Oral) | Symposium | [Open Symposium] Technological Evolution of Advanced Mobility and Power Electronics

## [17p-Z04-1~9][Open Symposium] Technological Evolution of Advanced Mobility and Power Electronics

Satoshi Tanimoto(FUKUSHIMA SiC Applied Engineering Inc.), Seiji Suzuki(Panasonic), Yamada Yasushi(Daido Univ.)

Wed. Mar 17, 2021 1:30 PM - 6:10 PM Z04 (Z04)

 $\bigtriangleup$  : Presentation by Applicant for JSAP Young Scientists Presentation Award

▲ : English Presentation

▼ : Both of Above

No Mark : None of Above

4:35 PM - 5:05 PM

## [17p-Z04-6]WBG device module technology optimal for next-

## generation power electronics

OYoshikazu Takahashi<sup>1</sup>, Tetsuo Endoh<sup>1</sup> (1.Tohoku University)

Keywords:wide bandgap device, module technology, power electronics equipment

It is expected that the power electronics technology that applies the wide bandgap device (WBG) will be improved for the expansion of EV and renewable energy, which are effective for carbon neutrality. However, power electronics equipment cannot be expected to significantly improve performance or become smaller and lighter simply by replacing the WBG alone with existing devices.Great effects can be achieved by optimizing gate circuits and passive components, and applying module technology that integrates those components. In this presentation, we will report the research results on module technology that makes the best use of the excellent characteristics of WBG.