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# ***Broadband Access Communication Technologies XIII***

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**Katsutoshi Tsukamoto**  
**Spiros Mikroulis**  
*Editors*

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# Introduction

Welcome to Photonics West OPTO 2019 conference on Broadband Access Communication Technologies XIII conference.

First, this year, our conference topics concentrated on two of the hottest topics in the industry namely; (i) the development in 5G Wireless Access, and (ii) Optical Wireless in Data Centers.

We assembled an array of excellent sessions dealing with 5G Photonics from Advanced Devices and Components, 5G Photonics: Enabling Transports and Silicon Photonics Devices; 5G Photonics: Systems and Optical Fiber. These great efforts were done by great session organizers headed by Dr. Spiros Mikroulis, Dr. Zhang Junwen, and Prof. Roberto Llorente.

We also organized special session on Optical Wireless in Data Centers which was organized by Prof. Shlomi Arnon. Well-known invited speakers make this special session very informative and interesting.

Second, we continue our tradition with the new Best Student Paper Award selected from the pool of student papers who submit from any of the following conferences

Broadband Access Communication Technologies,  
Metro and Data Center Optical Networks and Short-Haul Systems, and  
Next Generation Optical Communication: Components, Subsystems, and Systems

The awards are sponsored by Corning Inc. and NTT Electronics America and carry a \$500 prize.

Lastly, we are grateful to many excellent invited speakers and contributed authors for their time and contributions. We also acknowledge the valuable efforts from the technical program committee members, and the great assistance of the SPIE staffs that make this conference strong and successful.

**Benjamin Dingel**  
**Katsutoshi Tsukamoto**  
**Spiros Mikroulis**

