
Workshop on Applications of New Optical Fibers in Communication and Sensing

New Century Grand Hotel, Hangzhou,
26 October, 2018

INTRODUCTION

In the past few years, much research effort has been devoted to the development of new optical fibers for further enhancing the quality and the capacity of optical transmission, in particular, ultra-low loss fibers, large-effective-area fibers, few-mode fibers, multi-core fibers, and hollow-core fibers. Meanwhile, the applications of these new optical fibers have been attracting more and more research interest in communication and sensing. But how have they been going? This workshop will provide an overview of some of these application research and development not only in academia but also in industry.

For each invited presentation, the time is 25 min including 5 min for Q&A.

WORKSHOP PROGRAMME

- 13:30 – 13:35 **Welcome from the ACP2018 General Chair Prof. Perry Shum** (*Nanyang Technological University, Singapore*)
- 13:35 – 14:00 **(Invited) Research and Application of G.654.E Optical Fiber at China Unicom**
Xiongyan Tang, Network Technology Research Institute, China Unicom, China.
- 14:00 – 14:25 **(Invited) Application and Future Requirements for ROADM Technology**
Junjie Li, Jianjun Tang and Xiaoli Huo, China Telecom Beijing Research Institute (CTBRI), China.
- 14:25 – 14:50 **(Invited) New Fiber and Optical Requirements on 5G Transport Network**
Dechao Zhang, China Mobile Research Institute, China
- 14:50 – 15:15 **(Invited) The Recent Trends in Optical Transport Technology and Standards**

-
- Wenyu Zhao, China Academy of Information and Communications Technology (CAICT), China
- 15:15 – 15:40 **(Invited) Few-Mode Fibers for Transmission Capacity and Beyond**
Guifang Li, University of Central Florida, USA.
- 15:40 – 15:55 Coffee Break
- 15:55 – 16:20 **(Invited) Recent Progress in New or Specialty Fiber and Cable Technologies**
Liangming Xiong, State Key Laboratory of Optical Fiber and Cable Manufacture Technology, YOFC, China.
- 16:20 – 16:45 **(Invited) Optical Fiber Sensors and Applications**
Perry Shum, School of EEE, Nanyang Technological University, Singapore
- 16:45 – 17:10 **(Invited) Few Mode Fiber Long-Period Gratings for Mode Division Multiplexing Optical Communications and Optical Sensors**
Yunqi Liu, School of Communication and Information Engineering, Shanghai University, China
- 17:10 – 17:35 **(Invited) Few-Mode and Multicore Optical Fibers for High-Density and High-Speed Optical Interconnects Application**
Lin Ma, State Key Laboratory of Advanced Optical Communication Systems and Networks, Shanghai Jiao Tong University, China
- 17:35 – 17:50 **Closing Speech** *(by the ACP2018 TPC Chair Prof. Jie Luo, the Director of State Key Laboratory of Optical Fiber & Cable Manufacture Technology, CTO of YOFC, China)*
Taking a Photo of all the YOFC-Workshop organizers and speakers of ACP2018

WORKSHOP CHAIRS



Liangming (Anshun) Xiong

State Key Laboratory of Optical Fiber and Cable Manufacture Technology, YOFC, China

xiongliangming@yofc.com



Ping Perry Shum

*School of EEE
Nanyang Technological University, Singapore.*

shum@ieee.org