

## Symposium Speaker

Full Name	Kwang Yong Song
Affiliation	Chung-Ang University
Presentation Title	Advances of distributed fiber sensors based on Brillouin dynamic gratings
Biography	
<p>Kwang Yong Song is a specialist of the applications of Brillouin scattering and higher-order spatial modes in optical fibers, and his research topics include Brillouin slow light, distributed Brillouin sensors, Brillouin dynamic gratings, and active / passive mode multiplexers. Prof. Song received his Ph. D degree in physics at KAIST and worked as a post-doctoral researcher at EPFL in Switzerland and the University of Tokyo in Japan. Since 2007 He has been working as a professor in Dept. of Physics at Chung-Ang University in Korea.</p>	
200 words abstract	
<p>The Brillouin dynamic grating (BDG) represents a coherent acoustic wave generated in the process of Brillouin scattering of an optical wave (pump) which plays the role of a moving Bragg grating for another optical wave (probe) at different wavelength from the pump. This invited talk is going to present a brief review on the progress of distributed fiber sensors including the operation principle of the BDG for different optical media, the characteristics and performance of the BDG-sensors based on various polarization maintaining fibers, the intra- and inter-modal BDG operation based on a few-mode fiber. The limitations of the BDG technique and future challenges will be also discussed.</p>	