### [WeA2] Broadband and Multi-band Antennas Ⅰ

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| Session Chairs       | Johnson J. H. Wang (Wang Electro-Opto Corporation, USA)  
                       Young Joong Yoon (Yonsei University, Korea) |

#### WeA2-1 16:30-16:50
Broadband-Multiband Antennas Enabling Capacity & Security for Mobile Wireless 5G and Beyond
Johnson J. H. Wang  
*Wang Electro-Opto Corporation, USA*

#### WeA2-2 16:50-17:10
Study of Folded Bow-Tie Antenna with a Reflector
Jun Abiru, Naobumi Michishita, Hisashi Morishita, Kenji Kawabata, and Yasuhiro Murakami  
1 *National Defense Academy, Japan*, 2 *Fujitsu Limited, Japan*

#### WeA2-3 17:10-17:30
Design of Broadband Repeater Antenna with Firefighting Band for In-Building Mobile Communication
Kyeong-Sik Min, Kwang-Gun Lee, and Youngwook Kim  
1 *Korea Maritime and Ocean University, Korea*, 2 *California State University, USA*

#### WeA2-4 17:30-17:50
A Planar 3.4–9 GHz UWB Monopole Antenna
Md Nazmul Hasan and Munkyo Seo  
*Sungkyunkwan University, Korea*

#### WeA2-5 17:50-18:10
A Compact Modified E-Shaped Monopole Antenna for USB Dongle Applications
Suchitra Jeenawong, Patchadaporn Sangpet, Pichet Moeikham, and Prayoot Akkaraekthalin  
1 *Rajamangala University of Technology Lanna Chiang Rai, Thailand*, 2 *King Mongkut’s University of Technology North Bangkok, Thailand*

#### WeA2-6 18:10-18:30
Characteristic Modes Analysis to Integrate a Feeding Network in a Wideband Superdirective Array
Hussein Jaafar, Sylvain Collardey, and Ala Sharaiha  
*IETR, France*