

# Asia Pacific Workshop on Time and Frequency 2019 (ATF2019)

ICC International Convention Centre, Sydney, Australia

November 30, 2019

<b>Opening (09:00-9:05)</b>	
Dr. Bruce Warrington, NMIA	
<b>Section-I National Time Scale, Time and Frequency Transfer</b>	
Chair: Dr. Michael Wouters, NMIA <span style="float: right;">(09:00~ 10:25)</span>	
09:05-09:25	<b>1. Generation and performance of atomic time scale UTC(NIM)</b> <i>A. Zhang, Y. Gao, Y. Wang, K. Liang, Z. Yang and W. Wang</i>
09:25-09:45	<b>2. Generation of UTC(k) with (UTC<sub>r</sub>-clock) data fitted to ARIMA model</b> Ho Seong Lee, Taeg Yong Kwon, Young Kyu Lee, Sung-hoon Yang, and Dai-Hyuk Yu
09:45-10:05	<b>3. Common-view with broadcast satellite signals</b> <i>Tadahiro Gotoh, Toshihiro Kubo'oka, and Jun Amagai</i>
10:05-10:25	<b>4. Development of a new digital TWSTFT modem</b> <i>Miho Fujieda, Ryo Tabuchi, and Tadahiro Gotoh</i>
<b>Coffee Break (10:25-10:55)</b>	
<b>Section-II Time and Frequency Measurement</b>	
Chair: Dr. Dai-Hyuk Yu, KRISS <span style="float: right;">(11:00~ 12:15)</span>	
10:55-11:15	<b>1. Evaluation of the TAI scale interval using an optical clock</b> <i>T. Ido, N. Nemitz, H. Hachisu, F. Nakagawa, T. Gotoh, and Y. Hanado</i>
11:15-11:35	<b>2. Microwave Frequency Generation Using Er-doped fiber optical frequency comb</b> Po-Cheng Chang and Chia-Shu Liao
11:35-11:55	<b>3. High-accuracy miniaturized optical frequency synthesizer for reliable frequency distribution</b> Jae Hoon Lee, Hyun-Gue Hong, Hansuek Lee, Jungwon Kim, Kyoungsik Yu, and Dai-Hyuk Yu
11:55-12:15	<b>4. Development of Er-doped fiber optical frequency comb with a narrow linewidth</b> <i>Shiyong Cao, Baike Lin, Fei Meng, Yige Lin, and Zhanjun Fang.</i>
<b>Lunch Break (12:15-13:30)</b>	
<b>Section-III Time and Frequency Standards</b>	
Chair: Dr. Tetsuya Ido, NICT <span style="float: right;">(13:30~ 15:10)</span>	
13:30-13:50	<b>1. Developments of a Cs fountain clock and an Yb optical clock at KRISS</b>

	<i>Dai-Hyuk Yu, Won-Kyu Lee, Huidong Kim, Myoung-Sun Heo, Chang Yong Park, Sang Eon Park, Sangmin Lee, Hyun-Gue Hong, Taeg Youg Kwon, Sang-Bum Lee, Young-Ho Park, and Kurt Gibble</i>
13:50-14:10	<b>2. Developing the Second Sr Optical Clock at NIM</b> <i>Tao Yang, Zhen Sun, Yige Lin, Qiang Wang, Ye Li, Baike Lin, Tianchu Li, and Zhanjun Fang</i>
14:10-14:30	<b>3. Progress Report of the Ytterbium Ion Clock in Thailand.</b> <i>Piyaphat Phoonthong, Thaned Pruttivarasin, and Tara Chalermongsak</i>
14:30-14:50	<b>4. Recent Progress of Optical Lattice Clocks at NMIJ</b> <i>D. Akamatsu, T. Kobayashi, Y. Hisai, T. Tanabe, H. Inaba, T. Suzuyama, F. -L Hong, K. Hosaka, and M. Yasuda</i>
14:50-15:10	<b>5. The research progress of NIM6 Cs atomic fountain clock</b> <i>Shaoyang Dai, Fang Fang, Chenwei Liang, Kun Liu, Nianfeng Liu, and T.Li</i>
<b>Coffee Break (15:10-15:30)</b>	
<b>Section-IV Time and Frequency Calibrations</b>	
Chair: Dr. Chia-Shu Liao, TL <span style="float: right;"><b>(15:30~ 17:10)</b></span>	
15:30-15:50	<b>1. Calibration method for GPS-disciplined oscillators</b> <i>L. Marais, S. Quigg, and M. Wouters</i>
15:50-16:10	<b>2. Verifying stopwatches with the NMIA WebTimer</b> <i>M. Wouters, L. Marais and S. Quigg,</i>
16:10-16:30	<b>3. Development of Multi-Channel Frequency Calibration System Based on Dual Mixer Time Difference Measurement</b> <i>Yue Zhang, Yuzhuo Wang, Aimin Zhang</i>
16:30-16:50	<b>4. Investigation of Differences in Calibration Results for Electronic Clocks using the Time Base Method and the Totalize Method</b> <i>Hau Wah Lai, Cho Man Tsui, Steven Shing Lung Yang, Kam Yuen Chan</i>
16:50-17:10	<b>5. An Operator Reaction Time-Free Stopwatch Calibrator</b> <i>Manuel M. RUIZ</i>
<b>Closing</b>	Dr. Huang-Tien Lin, TL