

# Remote Sensing Satellite Technology Workshop

## - FORMOSAT-5 Users Conference

### 2015 遙測衛星前瞻技術研討會暨福衛五號使用者說明會

NDL International Convention Center  
 No. 26, Prosperity Road I, Hsinchu Science Park, Hsinchu, Taiwan  
 新竹科學園區展業一路 26 號 國家奈米元件實驗室國際會議中心  
 Friday November 20, 2015

#### Draft

Time	Topics
9:00-9:30	Registration
9:30~9:40	Opening Remarks Dr. Guey-Shin Chang (張桂祥主任) Director General, NSPO
9:40-10:10	Area Based Solution Dr. Anond Snidvongs Executive Director/Geo-Informatics and Space Technology Development Agency, Thailand
10:10~10:30	Coffee Break/Group Photo
10:30~11:00	Reosc Space Optics Development – From Zerodur to SiC Roland GEYL REOSC, France
11:00~11:30	MRF/SSI Technologies for Ultra-Precision Optics Manufacturing Mike DeMarco & James Lin QED Technologies International Inc., USA
11:30-11:45	FORMOSAT-5 Program Achievements (福衛五號成果報告) Dr. Ho-Pen Chang (張和本計畫主持人) FORMOSAT-5 Project Director, NSPO
11:45-12:00	Development of Made-in-Taiwan Remote Sensing Instrument (國製遙測酬載的誕生) Dr. Jer Ling (林喆組長) Director, Systems Engineering Division, NSPO
12:00~13:00	Lunch
13:00~14:00	Information for FORMOSAT-5 Image Users (福衛五號使用者說明) Dr. Shiann-Jeng Yu/Ms. Shian-Jing Liu /Dr. Nai-Yu Chen (余憲政副主任/劉小菁組長/陳乃宇博士) Deputy Director General/Division Director/Researcher, NSPO
14:00~14:20	Coffee Break
14:20~14:35	Design and Analysis of a TMA Telescope Structure (次世代酬載系統 TMA 光機結構設計與分析) Mr. Yu-Chuan Lin (林育全先生) Instrument Technology Research Center (ITRC)

Time	Topics
14:35~14:50	Study on Image De-blurring (影像去模糊方法研究) Dr. Kuo-Hsien Hsu (許國賢博士) National Space Organization (NSPO)
14:50~15:05	Optimum Design of the Lightweighting Structure and Flexure Mounts for a 550 mm Mirror (反射鏡減重與撓性支撐結構最佳化設計) Mr. Bo-Kai Huang (黃柏愷先生) National Space Organization (NSPO)
15:05~15:20	FS5 RSI Thermal Model Correlation (福衛五號遙測酬載熱分析模型校驗) Dr. Cheng-En Ho (何承恩博士) National Space Organization (NSPO)
15:20~15:35	Single Bit Error Correction and Damage Restoration for Satellite Images (衛星影像單一位元錯誤更正及修補) Prof. Shen-Chuan Tai (戴顯權教授) Department of Electrical Engineering, National Cheng Kung University (NCKU)
15:35~15:50	Multiscale Images for Disaster Reduction (多元時空影像於災害防救之應用) Dr. Tzu-Yin Chang (張子瑩組長) National Science and Technology Center for Disaster Reduction (NCDR)
15:50~16:05	Investigation of Cross Calibration Scheme for FORMOSAT-5 Remote Sensing Instrument (福衛五號遙測儀之交互校正方法之研究與開發) Prof. Tang-Huang Lin (林唐煌教授) Graduate Institute of Space Science, National Central University (NCU)
16:05~16:20	The Study of Semantic Mechanism on FORMOSAT-2 Historical Imagery Metadata (福衛二號歷史影像詮釋資料語意機制之研究) Prof. Feng-Cheng Lin (林峰正教授) Geographic Information System Research Center, Feng Chia University (FCU)
16:20~16:30	Wrap-up

#### Poster

Title	Author
Investigation of Vicarious Calibration Scheme for FORMOSAT-5 Remote Sensing Instrument (福衛五號遙測儀之特定目標校正方法之研究與開發)	Sheng-Kai Zeng, Tang-Huang Lin, Meng-Yue Lin, Kuo-Hsien Hsu, Nai-Yu Chen, An-Ming Wu, and Gin-Rong Liu (曾聖凱、林唐煌、林孟岳、許國賢、陳乃宇、吳岸明、劉振榮)
Investigation of FORMOSAT-5 Global Gain MAP Generation (福衛五號全球電子增益值之研究與開發)	Meng-Yue Lin, Kuo-Hsien Hsu, Sheng-Kai Zeng, Tang-Huang Lin, Nai-Yu Chen, An-Ming Wu, and Gin-Rong Liu (林孟岳、許國賢、曾聖凱、林唐)

Title	Author
	煌、陳乃宇、吳岸明、劉振榮)
Development of Relative Radiometric Calibration Method for FORMOSAT-5 Remote Sensing Instrument (福衛五號遙測儀之相對輻射校正方法之研究與開發)	Tun-Yu Liao, Tang-Huang Lin, Kuo-Hsien Hsu, Nai-Yu Chen, An-Ming Wu, Meng-Yue Lin, Gin-Rong Liu, Chian-Yi Liu, and Ming-Quey Chen (廖敦佑、林唐煌、許國賢、陳乃宇、吳岸明、林孟岳、劉振榮、劉千義、陳明桂)
Possible Power Storage Approaches Study for HALE UAV (HALE UAV 可能的儲能系統架構之探討)	Ming-Yuan Yeh and Jer Ling (葉銘源、林喆)
Structure Assembly for FORMOSAT-5 Remote Sensing Instrument (福衛五號光學遙測酬載結構體精密組裝)	Heng-Chuan Hung, Jen-Chueh Kuo, Mei-Yi Yang, and Chi-Chieh Chin (洪珩瑒、郭人爵、楊美怡、秦奇傑)
A Survey of Synthetic Aperture Radar Raw Data Compression Algorithms (合成孔徑雷達原始資料壓縮演算法概論)	Si-Yuan Lee, Li-Mei Chen, Ching-Horng Lee, Pei-Yun Tsai, and Yu-Liang Tsai (李思源、陳麗美、李清宏、蔡佩芸、蔡譽良)
SAR Raw Data Compression – BAQ Algorithm & Its Implementation (合成孔徑雷達原始資料壓縮-BAQ 演算法及其實現)	Li-Mei Chen, Si-Yuan Lee, Ching-Horng Lee, Pei-Yun Tsai, and Yu-Liang Tsai (陳麗美、李思源、李清宏、蔡佩芸、蔡譽良)
High Power Combining Technique Based on GaN Device for SAR Application (適用於合成孔徑雷達的氮化鎵元件功率整合技術)	Yun-Jui Lee, Chi-Yang Chang, Young-Huang Chou, I-Young Tarn, James Yu-Chen Yaung, and Shyh-Jong Chung (李昫叡、張志揚、周詠晃、譚怡陽、楊育群、鍾世忠)