CENTRE FOR REMOTE IMAGING, SENSING AND PROCESSING
NATIONAL UNIVERSITY OF SINGAPORE
Cordially invites you to attend

CRISP Workshop 2016
Remote Sensing of Land, Sea and Air

Wednesday, 20 April 2016, 09:00 – 17:30

Lecture Theatre 33, Blk S17 Level 2
National University of Singapore

CRISP was established in 1992 at the National University of Singapore with a mission to develop a capability for satellite remote sensing to meet the operational, business and scientific needs of Singapore and the region. CRISP operates a ground station for reception of remote sensing satellite data. CRISP receives data from sub-meter resolution WorldView-1 and WorldView-2 satellites, as well as other satellites such as SPOT, TERRA, AQUA and Suomi-NPP. CRISP also receives data from Singapore own XSAT and TeLEOS-1 satellites. CRISP develops and operates the ground reception and processing systems for TeLEOS-1, Singapore first high resolution commercial satellite.

CRISP has a strong research team conducting active research on applications of optical, infrared and synthetic aperture radar remote sensing. CRISP has established expertise in remote sensing data processing and regional environmental monitoring, with emphasis on forest/land fires detection, vegetation mapping, land cover change, climate change, water quality, atmospheric aerosol, natural hazards, hyperspectral imaging, 3D feature extraction and visualization.

In this seminar, CRISP scientists and collaborators will share their experience and research results with interested stakeholders, colleagues and partners. Participants are strongly encouraged to bring their applications that will benefit from remote sensing technology for discussion and share their ideas for potential collaborations during the workshop.

Lunch and refreshment will be served. Admission is free. Please RSVP by 13 April 2016. to: Joan at 6516 6396 (crslkf@nus.edu.sg) or Angel at 6516 4030 (crsckla@nus.edu.sg)

CRISP Workshop : Remote Sensing of Land, Sea and Air

Date: Wednesday, 20 April 2016 Venue: NUS Lecture Theatre 33, Blk S17 Level 2

08:30 – 09:00	**Registration**	
	Opening	
09:00 – 09:10	Welcome Address	Prof Bernard Tan Chairman, CRISP
09:10 – 09:30	Overview of CRISP Activities	Kwoh Leong Keong Director, CRISP
	Invited Session: TeLEOS-1 Satellite Updates	
09:30 – 10:15	Introduction to TeLEOS-1 Satellite System	Ong Kien Soo VP-GM, ST Electronics (SatSys)
10:15 – 10:35	Marketing & BD Journey: ST Electronics Space Business	Mah How Teck VP-Market Development, ST Electronics (SatComS)
10:35 – 11:10	**Coffee Break**	
	Remote Sensing Technology	
11:10 – 11:30	TeLEOS-1 Image Reception and Processing System: Overview of Design, Deployment and Payload Calibration	Tan Wee Juan, Moahan Murugappan
11:30 – 11:50	Camera Model Calibration for TeLEOS-1 Satellite	Huang Xiaojing
11:50 – 12:10	3D Building Extraction with Semi-Global Matching from High Resolution Satellite Stereo Pair Imageries	Li Min
12:10 – 12:30	Synthetic Aperture Radar Applications	Chua Ka Ming
12:30 – 13:30	**Lunch**	
	Fires and Haze	
13:30 – 13:50	Spatiotemporal Analysis of Biomass Burning in Southeast Asia	Liew Soo Chin
13:50 – 14:10	Characteristics of aerosols over Singapore: A view from AERONET and MPLNET	Tan Li, Daniel Kalbermatter
14:10 – 14:40	Transboundary Haze: Monitoring and Forecasting Aerosol Transport and Evolution	Santo Salinas
14:40 – 15:00	Online Research Mapping Tools, an Update	Chia Aik Song
15:00 – 15:35	**Coffee Break**	
	Remote Sensing of Environment	
15:35 – 16:05	Recent Development of Land Cover Monitoring Activities in CRISP	Jukka Miettinen
16:05 – 16:35	Remote Sensing of Shallow Coastal Waters	Liew Soo Chin
	Forum	
16:35 – 17:30	Advancing Capabilities in Remote Sensing to Meet the Scientific, Operational and Business Requirements of Singapore	
17:30	**End of Program**	