

## CONFERENCE SCHEDULE

Date	Time	Event	Venue
10 August 2015 Monday	7.30 am – 8.30 am	Registration	
	8.30 am – 9.30 am	<b>Keynote 1 : Satellites, Boats, and Planes, Trains, and Automobiles: Wireless Mobile Channel Characteristics Across the Vehicle-Scape</b> Prof. Dr. David Matolak <i>University of South Carolina, USA</i> <b>Chair : Dr. Mohammad Rashed Iqbal Faruque</b>	Kencana A
	9.45 am – 10.00 am	<b>Tea Break</b>	
	10.00 am – 1.00 pm	Session 1 – SCT 1 <b>Chair : Dr. Gan Kok Beng &amp; Dr. Selami Sahin</b>	Kencana B
		Session 1 – GRS 1 <b>Chair : Sr. Dr. Khairul Nizam Abdul Maulud &amp; Dr. Khairul Nizam Tahar</b>	Kencana 2
		Session 1 - AS1 <b>Chair : Dr. Sabirin Abdullah &amp; Dr. Karthigesu Nagarajoo</b>	Kencana 3
	1.00 pm – 2.00 pm	<b>Lunch</b>	
	2.00 pm – 3.00 pm	<b>Keynote 2 : Nano-satellite Reliability and Standardization: Introduction of Lean Satellite Concept</b> Prof. Dr. Mengu Cho <i>Kyushu Institute of Technology, Japan</i> <b>Chair : Prof. Dr. Mohammad Tariqul Islam</b>	Kencana A
	3.00 pm – 6.00 pm	Session 1- SCT 2 <b>Chair : Prof. Dr. Mohammad Tariqul Islam &amp; Dr. Mahmoud A. M. Albreem</b>	Kencana B
		Session 1 - GRS 2 <b>Chair : Assoc. Prof. Ir. Dr. Mandeep Singh &amp; Assoc. Prof. Dr. Omotosho Temidayo Victor</b>	Kencana 2
		Session 1 - AS 2 <b>Chair : Dr. Teh Wai Leong &amp; Dr. Nurul Shazana Abdul Hamid</b>	Kencana 3
7.45 pm – 10.30 pm	<b>Conference Dinner</b>		

Date	Time	Event	Venue
11 August 2015 Tuesday	7.45 am – 8.30 am	Registration Day 2	
	8.30 am – 9.30 am	<b>Keynote 3 : Solving Problems Through Space Solutions</b> Datuk Dr. Mazlan Othman <i>Academy of Sciences Malaysia, Malaysia</i> <b>Chair : Mr. Mhd Fairos Asillam</b>	<b>Kencana A</b>
	9.30 am – 9.45 am	<b>Tea Break</b>	
	9.45 am – 12.45 pm	Session 2 - AA <b>Chair : Assoc. Prof. Dr. Zamri Zainal Abidin &amp; Mr. Mhd Fairos Asillam</b>	Kencana B
		Session 2 – GRS 3 <b>Chair : Assoc. Prof. Dr. Wayan Suparta &amp; Assoc. Prof. Dr. Tien Sze Lim</b>	Kencana 2
		Session 2 – SCT 3 <b>Chair : Dr. Mohammad Rashed Iqbal Faruque &amp; Dr. Huda Adibah Mohd Ramli</b>	Kencana 3
	12.45 pm – 2.00 pm	<b>Lunch</b>	
	2.00 pm – 3.00 pm	<b>Keynote 4 : Location Determination Techniques: From Large to Small Cells</b> Prof. Dr. Mahamod Ismail <i>Universiti Kebangsaan Malaysia, Malaysia</i> <b>Chair : Assoc. Prof. Ir. Dr. Mandeep Singh</b>	<b>Kencana A</b>
	3.00 pm – 5.00 pm	Session 2 – SCT 4 & DM <b>Chair : Dr. Rezaul Azim &amp; Dr. Selami Şahin</b>	Kencana B
		Session 2– GRS 4 & AS 3 <b>Chair : Dr. Dinesh Sathyamoorthy &amp; Assoc. Prof. Dr. Badariah Bais</b>	Kencana 2
		Session 2 – SCC <b>Chair : Mr. Ling Leong Kwok</b>	Kencana 3
	5.00 pm – 6.00 pm	<b>Forum</b> <i>Understanding the Equatorial Environment: In and from Space</i>	<b>Kencana A</b>
<b>End of Conference</b>			

<b>Acronym</b>	<b>Track</b>
AA	Astrophysics and Astronomy
AS 1	Atmospheric Sciences 1
AS 2	Atmospheric Sciences 2
AS 3	Atmospheric Sciences 3
DM	Disaster Management
GRS 1	Geosciences and Remote Sensing 1
GRS 2	Geosciences and Remote Sensing 2
GRS 3	Geosciences and Remote Sensing 3
GRS 4	Geosciences and Remote Sensing 4
SCC	Space and Climate Change & Others
SCT 1	Satellite and Communication Technology 1
SCT 2	Satellite and Communication Technology 2
SCT 3	Satellite and Communication Technology 3
SCT 4	Satellite and Communication Technology 4

## TUTORIAL SCHEDULE

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Date	Time	Event
<b>12 August 2015 Wednesday</b>	8:00 -9:00am	Registration
	9.00 -9.15 am	Welcoming Remarks Assoc. Prof. Dr. Wayan Suparta Chair of Tutorial on STK for Space Applications
	9:15-9.45 am	Overview on STK Applications
	<b>9.45 am – 10.00 am</b>	<b>Tea Break</b>
	10.00 am -11.30 am	Introduction to STK for Space Applications
	11.30 am – 1.00 pm	STK Hands-On & Technical Overview Part I
	<b>1:00 pm – 2:00 pm</b>	<b>Break &amp; Lunch</b>
	2:00 - 4:00pm	STK Hands-On & Technical Overview Part II
	4.00 - 5.00pm	STK Hands-On Part II ( <i>Continue</i> )
<b>End of Tutorial</b>		

## TECHNICAL PROGRAMME

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**Monday, 10 August 2015**

**SESSION 1 : Satellite and Communication Technology (SCT1)**  
 Venue : Kencana B  
 Session Chair : Dr. Gan Kok Beng & **Dr. Selami Sahin**  
 Time : 10.00 am – 1.00 pm

SCT 1.1	<p><b>The Physics of the Sheath Effects in Monopole Plasma Antenna or Helix Plasma Antenna</b>  <i>Moses Emeteri; Uno U. E.; Akinyemi, M. L. (Covenant University, Nigeria)</i></p>
SCT 1.2	<p><b>Design of a Large Aperture Space-based Proton and Electron Energy Detector as Payload of IITMSAT</b>  <i>Athreya Shankar; Ananth Saran Yalamarthy; Tirth Shah; Varun Kelkar; Abhishikth Mallampalli; A Amit Vikram; Rewanth Ravindran; Harishankar Ramachandran; David Koilpillai (Indian Institute of Technology Madras, India)</i></p>
SCT 1.3	<p><b>Omnidirectional Dielectric Resonator Antenna for LTE Femtocell Base Stations</b>  <i>Aymen Dheyaa Khaleel; Mohd Fais Mansor; Norbahiah Misran; Mohammad Tariqul Islam (Universiti Kebangsaan Malaysia)</i></p>
SCT 1.4	<p><b>Design of Command and Data Management System for IITMSAT</b>  <i>Suresh Venkata Sanyas Susurla; Saiteja Chiranjeevi Dommeti; Green Rosh Kumbalaparambil Sreedharan; Gopa Kumar Kollengode Chakkungal; Viswa Vanapalli; Akshay K Gulati; Nitin Chandrchoodan; Harishankar Ramachandran; David Koilpillai (Indian Institute of Technology Madras, India)</i></p>
SCT 1.5	<p><b>External Antenna Design for GPS Signal Reception Enhancement</b>  <i>Ibrahim Abba; Thelaha Masri; Wan Azlan Wan Zainal Abidin; Kismet Anak Hong Ping; Voon Pai Bong; Nurliyana Binti Hussaini (Universiti Malaysia Sarawak); Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>

<p>SCT 1.6</p>	<p><b>Optimized Impulse Correlation Technique to Mitigate the MUI At UWB -TR Receiver</b>  <i>Mohammed Saeed; Mardina Abdullah; J. S. Mandeep Singh (Universiti Kebangsaan Malaysia)</i></p>
<p>SCT 1.7</p>	<p><b>Implementation of Three Scheduling Algorithms in the Smart Grid Communications Over 4G Networks</b>  <i>Ayman Hajjawi; Mahamod Ismail (Universiti Kebangsaan Malaysia); Tito Yuwono (Universitas Islam Indonesia, Indonesia)</i></p>
<p>SCT 1.8</p>	<p><b>Development of Mission Control Station Software for a CubeSat Mission</b>  <i>S. S. Yuhaniz; N. Hamzah (Universiti Teknologi Malaysia)</i></p>
<p>SCT 1.9</p>	<p><b>Multiband Dielectric Resonator Antenna for Long Term Evolution Advanced (LTE-A) Handheld Devices</b>  <i>Norlia Embong; Mohd Fais Mansor (Universiti Kebangsaan Malaysia)</i></p>
<p>SCT 1.10</p>	<p><b>Review of Rain Attenuation Measurements on Earth - Space Links in Nigeria</b>  <i>Temidayo Omotosho; O. O. Obiyemi; Alex Willoughby; Sayo A. Akinwumi (Covenant University, Nigeria); Oluwafumilayo Ometan; M. O. Adewusi (Lagos State University, Nigeria); J. S. Mandeep; Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>

**Monday, 10 August 2015**

**SESSION 1 : Geosciences and Remote Sensing (GRS 1)**

Venue : Kencana 2

Session Chair : Sr. Dr. Khairul Nizam Abdul Maulud &  
Dr. Khairul Nizam Tahar

Time : 10.00 am – 1.00 pm

GRS 1.1	<b>PALSAR Remote Sensing Data for Structural Geology Mapping in Tropical Environments</b> <i>Amin Beiranvand Pour; Mazlan Hashim (Universiti Teknologi Malaysia)</i>
GRS 1.2	<b>A Look At Oil Spill Detection and Identification Using SAR</b> <i>Su Wai Ng (National Space Agency (ANGKASA) Malaysia)</i>
GRS 1.3	<b>Radiological Assessment of Natural Radionuclide Contents in Soils From Omala, Kogi State, Nigeria</b> <i>M. R. Usikalu; A. B. Rabi; J. Solomon; J. A. Achuka; K.D. Oyeyemi; F. O. Olawole (Covenant University, Nigeria); O. Awe (Kogi State University)</i>
GRS 1.4	<b>Geologic Mapping and Rock Type Discrimination Using Geospatial Techniques</b> <i>Muhammad Akbar Khan; Muaaz Shoukat (SUPARCO, Pakistan)</i>
GRS 1.5	<b>Cloud Computing Providers for Satellite Image Processing Service. A Comparative Study</b> <i>Moataz Ahmed Abdel Ghaffar; Tuong Thuy Vu (University of Nottingham, Malaysia)</i>
GRS 1.6	<b>The Implementation of Mobile GIS for Fire Hydrant Mapping</b> <i>Khairul Nizam Tahar; Muhamad Syahir Shadin (Universiti Teknologi MARA)</i>
GRS 1.7	<b>Integration of ASTER and Landsat TM Satellite Data for Lithological Mapping and Chromite Prospecting</b> <i>Alireza Eslami, Majid Ghaderi, Amin Beiranvand Pour, Mazlan Hashim (Universiti Teknologi Malaysia)</i>

GRS 1.8	<b>Height Retrieval and Vertical Accuracy for Quantifying Biomass and Carbon Stock</b> <i>Rosnaini Che Hasan; Zulkiflee Abd Latif; Mohammad Halmi Kamaruddin (Universiti Teknologi MARA)</i>
GRS 1.9	<b>Monitoring of Offshore Platform Deformation with Stanford Method of Persistent Scatterer (StaMPS)</b> <i>Amir Sharifuddin Ab Latip; Abdul Nasir Matori (Universiti Teknologi PETRONAS); Anuphao Aobpaet (Geo-Informatics and Space Technology Development Agency, Thailand); Ami Hassan Md Din (Universiti Teknologi Malaysia)</i>
GRS 1.10	<b>Design of the Remote Sensing Circuit for Water Conductivity</b> <i>Tito Yuwono (Universitas Islam Indonesia); Mahamod Ismail (Universiti Kebangsaan Malaysia)</i>



**Monday, 10 August 2015**

**SESSION 1 : Atmospheric Sciences (AS1)**

Venue : Kencana 3

Session Chair : Dr. Sabirin Abdullah & Dr. Karthigesu Nagarajoo

Time : 10.00 am – 1.00 pm

AS 1.1	<p><b>GPS Signal Strength Due to Ionospheric Scintillation: Preliminary Models Over Sarawak</b>  <i>Voon Pai Bong; Wan Azlan Wan Zainal Abidin Kismet Anak Hong Ping; Thelaha Masri; Ibrahim Abba (Universiti Malaysia Sarawak, Malaysia); Mardina Abdullah; Siti Aminah Bahari (Universiti Kebangsaan Malaysia)</i></p>
AS 1.2	<p><b>A Review of Ionospheric Studies in Malaysia using GPS</b>  <i>Siti Aminah Bahari; Alina Marie Hasbi; Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>
AS 1.3	<p><b>Climatology of Equatorial Plasma Bubble Observed by MyRTKnet Over the Years 2008 - 2013</b>  <i>Suhaila M Buhari; Mardina Abdullah; Siti Aminah Bahari; Alina Marie Hasbi ((Universiti Kebangsaan Malaysia); Tatsuhiro Yokoyama; Michi Nishioka; Takuya Tsugawa (National Institute of Information and Communications Technology, Japan); Yuichi Otsuka (Nagoya University, Japan)</i></p>
AS 1.4	<p><b>Seasonal Variation of Surface Radio Refractivity and Water Vapour Density for 48 Stations in Nigeria</b>  <i>S. A. Akinwumi; T. V. Omotosho; A. A. Willoughby (Covenant University, Nigeria); J. S. Mandeep; M. Abdullah (Universiti Kebangsaan Malaysia)</i></p>
AS 1.5	<p><b>Mathematical Investigations of Gas Flare Constituents in Oil Producing Regions of Malaysia</b>  <i>T. V. Omotosho; M.E. Emetere; M.L. Akinyemi (Covenant University, Nigeria); M. Abdullah; J. S., Mandeep (Universiti Kebangsaan Malaysia)</i></p>
AS 1.6	<p><b>Comparing IRI and Regional Ionospheric Model with ionosonde foF2 Measurements in Pakistan</b>  <i>Madeeha Talha; Ghulam Murtaza; Muhammad Ayyaz Ameen (SUPARCO, Pakistan)</i></p>

AS 1.7	<p><b>The Relation Between Solar Radio Burst Types II, III and IV Due to Solar Activities</b>  <i>Nabilah Ramlı; Zamri Zainal Abidin; Siti Nurhanis Shahari (Universiti Malaya); Zety Sharizat Hamidi (Universiti Teknologi MARA)</i></p>
AS 1.8	<p><b>Investigations Into the Occurrence of Elevated Ducts in Lower Atmosphere Near Arabian Sea</b>  <i>Asadullah Khan; Saeed Rehman; Naveed Mufti (University of Engineering &amp; Technology Peshawar, Mardan Campus, Pakistan)</i></p>
AS 1.9	<p><b>Forecasting Ionospheric Delay During Quiet and Disturbed Days Using the Holt-Winter Method</b>  <i>N.A.Elmunim; M.Abdullah; A.M.Hasbi; A.Zaharim (Universiti Kebangsaan Malaysia)</i></p>
AS 1.10	<p><b>First Kind Plume Analysis of Volcanic Blast: Application of an Indigenous Model</b>  <i>Emetere, Moses; Marvel Akinyemi (Covenant University, Nigeria)</i></p>

**Monday, 10 August 2015**

**SESSION 2 : Satellite and Communication Technology (SCT2)**

Venue : Kencana B

Session Chair : Prof. Dr. Mohammad Tariqul Islam &

Dr. Mahmoud A. M. Albreem

Time : 3.00 pm – 6.00 pm

SCT 2.1	<p><b>A Mathematical Model for Improving the Mechanism of Satellite Antenna</b>  <i>Emetere Moses Eterigho; Dilip De; Temidayo Omotosho; Muhammad Bakeko (Covenant University, Nigeria)</i></p>
SCT 2.2	<p><b>Investigation of Low Clouds Attenuation on Earth Space Path for Some West-Africa Stations</b>  <i>Mustapha O. Adewusi; Temidayo V. Omotosho; Sayo A Akinwumi (Covenant University, Nigeria); Oluwafumilayo O. Ometan (Lagos State University, Nigeria)</i></p>
SCT 2.3	<p><b>Modeling of Magnetic Loop Antenna for an Improved Rockets/Spacecraft Communication Operation</b>  <i>Emetere Moses Eterigho; Temidayo V Omotosho (Covenant University, Nigeria); Mandeep Jit Singh; Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>
SCT 2.4	<p><b>Positioning and Navigation Toolkit (PoiNT) - A Tool for Industry and Academia</b>  <i>Arif Iqba; Faisal Ahmed Khan; Syed Zahid Jamal; Iftikhar Khan (National Space Agency, Pakistan)</i></p>
SCT 2.5	<p><b>Design Challenges in VELOX-I Nanosatellite Development</b>  <i>Lip San Lim; Tran Duy Vu Bui; Zirui Lau; Mihindukulasooriya Sheral Tissera; Jing Jun Soon; Jia Min Lew; Htet Aung; Chuang Ye; Kay Soon Low; Shu Ting Goh; Chen Shoushun (Nanyang Technological University, Singapore)</i></p>
SCT 2.6	<p><b>Design and Implementation of a Robust Downlink Communication System for Nanosatellites</b>  <i>Jagdish Mevada; Joseph Samuel; Sourbh Bhadane; Akshay K Gulati; Ravinder D Koilpillai (Indian Institute of Technology Madras, India)</i></p>

SCT 2.7	<p><b>Amplitude Estimate of the Ultra Wide Band Quasi Radio Signal with Unknown Initial Phase and Duration</b>  <i>Yury E Korchagin (Voronezh State University, Russia); Oleg V. Chernoyarov; Alexander A Makarov (National Research University, Russia); Alexandra Salnikova (Voronezh State University of Architecture and Civil Engineering, Russia)</i></p>
SCT 2.8	<p><b>Design of Electrical Power Subsystem for IITMSAT</b>  <i>Sooraj Gopakumar; Saisree Eega; Suresh Venkata Sanyas Susurla; Madadi Sai Sriram Reddy; Anand Antony; Harishankar Ramachandran; David Koilpillai (Indian Institute of Technology Madras, India)</i></p>
SCT 2.9	<p><b>Design of Nuclear Instrumentation for Space-based Proton-Electron Energy Detector (SPEED)</b>  <i>Sai Surya Teja, S; Varsha Subramanyan; Reena Elangovan; Lithin Reddy Marla; Dhinesh Ramachandran; Harshavardhan Murali; Sivaram SR; Suparna S; Sayali Raut; Nitin Prasad; Harishankar Ramachandran; Ravinder David Koilpillai (Indian Institute of Technology Madras, India)</i></p>
SCT 2.10	<p><b>Design of Flight Computer Module for IITMSAT</b>  <i>Suresh Venkata Sanyas Susurla; Green Rosh Kumbalaparambil Sreedharan; Gopa Kumar Kollengode Chakkungal; Shruti Penumatsa; Kumar Mridul; Shubham Chavan; Nathanael Koilpillai; Akshay K Gulati; Sooraj Gopakumar; Nitin Chandrachoodan; Harishankar Ramachandran; David Koilpillai (Indian Institute of Technology Madras, India)</i></p>

**Monday, 10 August 2015**

**SESSION 2 : Geosciences and Remote Sensing (GRS2)**

Venue : Kencana 2

Session Chair : Assoc. Prof. Ir. Dr. Mandeep Singh &  
Assoc. Prof. Dr. Omotosho Temidayo Victor

Time : 3.00 pm – 6.00 pm

GRS 2.1	<p><b>Utilizing Landsat Imageries for Land Surface Temperature (LST) Analysis of the Penang Island</b> <i>Nor Aizam Adnan; Nur Fatin Fakhira Noralam; Siti Aekbal Salleh; Zulkiflee Abd Latif (Universiti Teknologi MARA)</i></p>
GRS 2.2	<p><b>Regional Hydrothermal Alteration Mapping Using Landsat-8 Data</b> <i>Amin Beiranvand Pour; Mazlan Hashim (Universiti Teknologi Malaysia)</i></p>
GRS 2.3	<p><b>Comparison of Digital Elevation Models Based on High Resolution Satellite Stereo Imagery</b> <i>Abdul Qayyum; Aamir Saeed Malik; Muhammad Naufal Mohamad Saad (Universiti Teknologi PETRONAS)</i></p>
GRS 2.4	<p><b>Towards Operational Forest Monitoring Using Satellite Synthetic Aperture Radar</b> <i>Mark L Williams (Horizon Geoscience Consulting Sydney, Australia); Anthony K Milne; Anthea L Mitchell (The University of New South Wales Sydney, Australia)</i></p>
GRS 2.5	<p><b>Application of NIR to Determine Effects of Hydrocarbon Microseepage in Oil Palm Vegetation Stress</b> <i>Muhammad Ikhwan Jamaludin; Abdul Nasir Matori; Khin Cho Myint (Universiti Teknologi PETRONAS)</i></p>
GRS 2.6	<p><b>Evaluating the Trade-Off between Global Positioning System (GPS) Accuracy and Power Saving from Reduction of Number of GPS Receiver Channels</b> <i>Dinesh Sathyamoorthy; Shalini Shafii, Zainal Fityr M Amin; Asmariah Jusoh; Siti Zainun Ali (Science And Technology Research Institute For Defense (STRIDE), Malaysia)</i></p>

GRS 2.7	<p><b>Spatio-temporal Change Analysis of Perak River Basin Using Remote Sensing and GIS</b>  <i>Muhammad Faisal Hanif; Muhammad Raza Ul Mustafa; Ahmad Mustafa Hashim; Khamaruzaman Wan Yusof (Universiti Teknologi PETRONAS)</i></p>
GRS 2.8	<p><b>Morphometric Analysis for Delineation Flood Hazard Zone of Batang Padang Catchment, Perak, Peninsular Malaysia</b>  <i>Mohd Talha Anees; Abdullah K.; Nawawi M. N. M; Mohd. Omar Abd. Kadir (Universiti Sains Malaysia)</i></p>
GRS 2.9	<p><b>Individual Tree Crown (ITC) Delineation Using Watershed Transformation Algorithm For Tropical Lowland Dipterocarp</b>  <i>Nurul Ain Mohd Zaki; Zulkiflee Abd Latif; Mohd Zainee Zainal; Khairulazhar Zainuddin (Universiti Teknologi MARA)</i></p>
GRS 2.10	<p><b>Weather Research Forecast (WRF) Modification of Land Surface Albedo Simulations for Urban Near Surface Temperature</b>  <i>Siti Aekbal Salleh; Zulkiflee Abd Latif; Wan Mohd Naim Wan Mohd (Universiti Teknologi MARA), Kenobi Isima Morris; Maggie Chel Gee Ooi; Andy Chan; (University of Nottingham, Malaysia)</i></p>

**Monday, 10 August 2015**

**SESSION 2 : Atmospheric Sciences 2 (AS 2)**

Venue : Kencana 3

Session Chair : Dr. Teh Wai Leong & Dr. Nurul Shazana A. Hamid

Time : 3.00 pm – 6.00 pm

AS 2.1	<p><b>Refractivity Gradient in Lowest Layer of Atmosphere Near Arabian Sea</b>  <i>Saeed ur Rehman; Asad Ullah; Naveed Mufti (University of Engineering &amp; Technology Peshawar, Mardan Campus, Pakistan)</i></p>
AS 2.2	<p><b>Ionospheric Empirical Model: Initial Approach to MUF Modeling in the Malaysian Region</b>  <i>Rafidah Abd Malik; Mardina Abdullah; Sabirin Abdullah; Mariyam Jamilah Homam; Tatsuhiro Yokoyama; Michi Nishioka (Universiti Kebangsaan Malaysia)</i></p>
AS 2.3	<p><b>Variations of ULF and VLF During Moderate Geomagnetic Storm At Equatorial Region</b>  <i>Siti Noor Aisyah Ahmad; Mohamad Huzaimy Jusoh; Farah Adilah Mohd. Kasran (Universiti Teknologi MARA); Mardina Abdullah (Universiti Kebangsaan Malaysia); Bhaskara Veenadhari (New Panvel, India); Teiji Uozumi; Shuji Abe; Akimasa Yoshikawa; Maria Gracita Cardinal (Kyushu University, Japan)</i></p>
AS 2.4	<p><b>Longitudinal and Solar Activity Dependence of Equatorial Electrojet At Southeast Asian Sector</b>  <i>Nurul Shazana Abdul Hamid; Geri Kebi Gopir; Hanifa Ab Hadin (Universiti Kebangsaan Malaysia); Akimasa Yoshikawa; Huixin Liu; Teiji Uozumi (Kyushu University, Japan)</i></p>
AS 2.5	<p><b>Ray Tracing in Realistic 3D Ionospheric Model</b>  <i>Karthigesu Nagarajoo (Universiti Tun Hussein Onn Malaysia)</i></p>
AS 2.6	<p><b>Geomagnetic Disturbance During Quiet Period At Low-Latitude Stations</b>  <i>Farah Adilah Mohd. Kasran; Mohamad Huzaimy Jusoh; Siti Noor Aisyah Ahmad; Siti Nurbaiti Ibrahim (Universiti Teknologi MARA)</i></p>

AS 2.7	<p><b>The Relationship Between Total Electron Content (TEC), Tides Phenomena and the Position of Moon and Sun During the Full Moon and New Moon in Selangor</b>  <i>Nurul Syafiqah Mohamad; Kalaivani Chellappan (Universiti Kebangsaan Malaysia)</i></p>
AS 2.8	<p><b>Preliminary Vertical TEC Prediction Using Neural Network: Input Data Selection and Preparation</b>  <i>Rohaida Mat Akir; Mardina Abdullah; Kalaivani Chellappan; Alina Marie Hasbi (Universiti Kebangsaan Malaysia)</i></p>
AS 2.9	<p><b>Computational Analysis of Aerosol Dispersion Trends From Cement Factory</b>  <i>Moses Emetere; Marvel Akinyemi; Uno Uno (Covenant University, Nigeria)</i></p>
AS 2.10	<p><b>A Tropical Model for Analyzing Radio Refractivity: Selected Locations in North Central, Nigeria</b>  <i>Emetere Moses Eterigho; Sayo A Akinwumi; Temidayo Omotosho (Covenant University, Nigeria); Mandeep Jit Singh (Universiti Kebangsaan Malaysia)</i></p>



**Tuesday, 11 August 2015**

**SESSION 3 : Astrophysics and Astronomy (AA)**  
 Venue : Kencana B  
 Session Chair : Assoc. Prof. Dr. Zamri Zainal Abidin &  
 Mr. Mhd Fairos Asillam  
 Time : 9.45 am – 12.45 pm

AA 3.1	<p><b>Malaysian Students' Perception and Attitude Towards Space Science: A Pilot Study</b>  <i>Nor Syaidah Bahri; Rosadah Abd Majid; Badariah Bais; Alina Hasbi; Siti Aminah Bahari; Mardina Abdullah (Universiti Kebangsaan Malaysia); Mohd Hezri Mokhtar (Universiti Tun Hussein Onn Malaysia);</i></p>
AA 3.2	<p><b>Metallicity-Light Curve Relation for RR Lyrae in Kepler Field Based on the PTF Public Released Data</b>  <i>Chow-Choong Ngeow (National Central University, Taiwan)</i></p>
AA 3.3	<p><b>Physical Properties of NGC 3256 in Radio and Infrared Domain</b>  <i>Israa Mohammed Ali; Hwang Chorng-Yuan; Zamri Zainal Abidin (Universiti Malaya)</i></p>
AA 3.4	<p><b>Preliminary Study on the Near Equatorial Magnetic Field Model and South Atlantic Anomaly</b>  <i>Khairul Nasuddin; Mardina Abdullah; Nurul Shazana Abdul Hamid; Alina Marie Hasbi (Universiti Kebangsaan Malaysia)</i></p>
AA 3.5	<p><b>An Analysis of Digital Sunspot Counting for Determination of Sunspot Number From Langkawi National Observatory</b>  <i>Farahana Kamarudin; Mohammad Redzuan Tahar; Abdul Halim Abdul Aziz; Nor Rafidah Saibaka (National Space Agency (ANGKASA), Malaysia); Bambang Setiahadhi (LAPAN, Indonesia)</i></p>
AA 3.6	<p><b>MHD Reconstruction of a Magnetic Cloud in the Solar Wind</b>  <i>Wai-Leong Teh; Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>

AA 3.7	<p><b>Variation of Galactic Cosmic Rays Near Earth Equator Based on Selected Neutron Monitors</b></p> <p><i>Wayan Suparta; Siti Katrina Zulkeple (Universiti Kebangsaan Malaysia); Mhd Fairos Asillam (National Space Agency (ANGKASA), Malaysia)</i></p>
AA 3.8	<p><b>Constraining the Population of Compton-Thick AGN and <math>N_H</math> Distribution in the Local Universe</b></p> <p><i>Adlyka Annuar; Dave Alexander; George Lansbury (Durham University, UK); Poshak Gandhi ; Fiona Harrison (University of Southampton, UK); Daniel Stern (California Institute of Technology, USA)</i></p>
AA 3.9	<p><b>Rotation Curve and Dynamical Mass in the Inner Region of M100 with ALMA</b></p> <p><i>Jazeel H. Azeez; Zamri Zainal Abidin; Zainol Abidin Ibrahim (Universiti Malaya) Hwang C. Yuan (National Central University, Taiwan);</i></p>
AA 3.10	<p><b>Investigation on the Statistical Properties of Solar Radio Burst Type II and III</b></p> <p><i>Zety Sharizat Hamidi; Nur Nafhatun Md Shariff (Universiti Teknologi MARA); Nabilah Ramli; Zainol Abidin Ibrahim (Universiti Malaya)</i></p>
AA 3.11	<p><b>The Astronomical Seeing Measurements At Langkawi National Observatory</b></p> <p><i>Nazhatulshima Ahmad; Chin Wei Loon; Muhammad Shamin Shukor; Saedah Haron (University of Malaya); Mohd Zambri Zainuddin (International Islamic University of Malaysia); Mohammad Redzuan Tahar (Langkawi National Observatory)</i></p>
AA 3.12	<p><b>Helix Planetary Nebula (NGC 7293) Morphology From CCD Imaging and Spasiokinematic Model</b></p> <p><i>Geavani E. Ramadhania; Hakim L. Malasan (Institut Teknologi Bandung, Indonesia)</i></p>

**SESSION 3 : Geosciences and Remote Sensing (GRS3)**

Venue : Kencana 2

Session Chair : Assoc. Prof. Dr. Wayan Suparta &  
Assoc. Prof. Dr. Tien Sze Lim

Time : 9.45 am – 12.45 pm

GRS 3.1	<b>Three-Dimensional Urban Slum Reconstruction From ENVISAT ASAR Data</b> <i>Maged Marghany (Universiti Teknologi Malaysia)</i>
GRS 3.2	<b>Deforestation and Carbon Loss Estimation At Tropical Forest Using Multispectral Remote Sensing: Case Study of Besul Tambahan Permanent Forest Reserve</b> <i>Zulkiflee Abd Latif; Hud Mohamad Zaqwan; Mohamed Saufi; Nor Aizam Adnan (Universiti Teknologi MARA); Hamdan Omar (Forest Research Institute, Malaysia)</i>
GRS 3.3	<b>Determination the Impact of Sea Level Rise to Shoreline Changes Using GIS</b> <i>Khairul Nizam Abdul Maulud; Roshana Mat Rafar (Universiti Kebangsaan Malaysia)</i>
GRS 3.4	<b>Low Wind Speed Direction Extraction Using Wavelet Transform Technique</b> <i>Siti Noratiqah Mohamad Deros; Arnis Asmat (Universiti Teknologi MARA); Shattri Mansor (Universiti Putra Malaysia)</i>
GRS 3.5	<b>Development of Solar Efficiency Monitoring System by Using GSM Technology</b> <i>Nur Adilah Abd Rahman; Tengku Nadzlin Tengku Ibrahim; Muhammad Mahadi Abdul Jamil (Universiti Tun Hussein Onn Malaysia)</i>
GRS 3.6	<b>High Resolution DEM Generation Using Small Drone for Interferometry SAR</b> <i>Lim Tien Sze; Wen Guey Cheaw; Zahari Awang Ahmad; Choo Ai Ling; Koo Voon Chet (Multimedia University, Malaysia); Habibah Lateh (Universiti Sains Malaysia); Luhur Bayuaji (Universiti Malaysia Pahang)</i>
GRS 3.7	<b>Aerosol Optical Depth (AOD) Retrieval Method Using MODIS</b> <i>Khairunnisa Abd Jalal; Arnis Asmat (Universiti Teknologi MARA); Noordin Ahmad (National Space Agency(ANGKASA) Malaysia)</i>
GRS 3.8	<b>Future perspectives of SAR Polarimetry with applications to multi-parameter fully polarimetric POLSAR Remote Sensing &amp; Geophysical Stress-change monitoring within the equatorial/sub-equatorial belts by implementation of equatorially orbiting POLSAR single and tandem satellite sensors - focused on Malaysia and Indonesia-</b> <i>Wolfgang-M. Boerner (University of Illinois at Chicago, USA)</i>

**SESSION 3 : Satellite and Communication Technology (SCT3)**

Venue : Kencana 3

Session Chair : Dr. Mohammad Rashed Iqbal Faruque &  
Dr. Huda Adibah Mohd Ramli

Time : 9.45 am – 12.45 pm

SCT 3.1	<p><b>Octagonal Shaped Circular Polarized C-band Antenna for Small Satellite Communication</b> <i>Touhidul Alam; Mohammad Rashed Iqbal Faruque; Mohammad Tariqul Islam (Universiti Kebangsaan Malaysia)</i></p>
SCT 3.2	<p><b>Impact of Outdated CQI Report on Adapted Well-Known Packet Scheduling Algorithm When Streaming Video</b> <i>Huda Adibah Mohd Ramli; Farah Nadia Mohd Isa; Ahmad Fadzil Ismail; Mohammad Kamrul Hasan (International Islamic University of Malaysia); Wahidah Hashim (UNITEN, Malaysia)</i></p>
SCT 3.3	<p><b>Basic Algorithm for the Coherent Digital Processing of the Radio Signals</b> <i>Alexey Glushkov; Vladimir Litvinenko; Boris Matveev (Voronezh State Technical University, Russia); Oleg V. Chernoyarov (National Research University Moscow Power Engineering Institute, Russia); Alexandra Salnikova (Voronezh State University of Architecture and Civil Engineering, Russia)</i></p>
SCT 3.4	<p><b>Segmentation of Satellite Imagery Based on Pulse-Coupled Neural Network</b> <i>Abdul Qayyum; Aamir S. Malik; Mohammad Naufal Mohammad Saad; Mahboob Iqbal (Universiti Teknologi PETRONAS, Malaysia)</i></p>
SCT 3.5	<p><b>Improvement of Required SNR for Satellite-to-Ground Optical Communication Via Aperture Diversity</b> <i>Selami Şahin (TUBITAK-BILGEM-UEKAE, Turkey)</i></p>
SCT 3.6	<p><b>Antenna Analysis for Space Applications with the Electromagnetic Field Solver FEKO</b> <i>Andrés G. Aguilar; Ulrich Jakobus (Altair Engineering GmbH); Swapnil R. Kulkarni (Altair Engineering India)</i></p>

SCT 3.7	<p><b>Circularly Polarized Patch Antenna for S-band Satellite Applications</b>  <i>Md. Samsuzzaman; Touhidul Alam; Mohammad Rashed Iqbal Faruque; Mohammad Tariqul Islam; Md. Roknuzzaman; Md. Moinul Islam; Rezaul Azim (Universiti Kebangsaan Malaysia);</i></p>
SCT 3.8	<p><b>A Review of Thermal Vacuum Chamber Capability Performance At Acceptance Test Level</b>  <i>Hamid Salim; Nor'Asnilawati Salleh (National Space Agency (ANGKASA), Malaysia)</i></p>
SCT 3.9	<p><b>Developing a Proposed Satellite Reaction Wheel Model with Current Mode Control</b>  <i>Mohamad Fakhari Mehrjardi; Hilmi Sanusi; Mohd Alauddin Mohd Ali (Universiti Kebangsaan Malaysia)</i></p>
SCT 3.10	<p><b>Integrated Attitude and Orbit Model of an Earth Orbiting Satellite Using Three-axis Control</b>  <i>Mohamad Fakhari Mehrjardi; Hilmi Sanusi; Mohd Alauddin Mohd Ali (Universiti Kebangsaan Malaysia)</i></p>

**SESSION 4 : Satellite and Communication Technology (SCT 4) & Disaster Management (DM)**

Venue : Kencana B

Session Chair : Dr. Rezaul Azim & Dr. Selami Şahin

Time : 3.00 pm – 5.00 pm

SCT 4.1	<p><b>Simplified Sphere Detection Algorithm for LTE Downlink</b>  <i>Mahmoud A. M. Albreem; Norhayati Mohamad Yusof; Fatin Nurafiqah Hamzah (Universiti Malaysia Perlis)</i></p>
SCT 4.2	<p><b>Design and Development of Motorized Adjustable Vertical Platform (MAVeP) for Satellite Test Facility</b>  <i>Elena Woo Lai Leng; Nor'asnilawati Salleh; Hamid Salim; Sharizal Fadlie Sabri; Maszlan Ismail (National Space Agency (ANGKASA), Malaysia)</i></p>
SCT 4.3	<p><b>Stability of Relative Equilibria of Three Connected Satellites</b>  <i>Hassan Asiri (King Abdulaziz University, Saudi Arabia)</i></p>
DM 1.1	<p><b>Efficiency and Cost Comparison UAV/Field Survey</b>  <i>Khairul Nizam Tahar (Universiti Teknologi MARA)</i></p>
DM 1.2	<p><b>Investigating Malaria Risk in the Northern Region of Nigeria Using Satellite Imagery</b>  <i>Moses Emetere; Bijan Nikouravan; Olugbenga Olawole (Covenant University, Nigeria)</i></p>
DM 1.3	<p><b>Urban Hazards Management: A Case Study of Langat River Basin, Peninsular Malaysia</b>  <i>Nurfashareena Muhamad; Choun-Sian Lim; Mohammad Imam Hasan Reza; Joy Jacqueline Pereira (Universiti Kebangsaan Malaysia)</i></p>

**SESSION 4 : Geosciences and Remote Sensing (GRS 4) & Atmospheric Sciences (AS 3)**

Venue : Kencana 2

Session Chair : Dr. Dinesh Sathyamoorthy & Assoc. Prof. Dr. Badariah Bais

Time : 3.00 pm – 5.00 pm

GRS 4.1	<p><b>Optimization of ASTER Elevation Data to Improve Watershed Delineation</b>  <i>Abolghasem Akbari; Fadzil Mat Yahya (Universiti Malaysia Pahang, Malaysia); Azizan Abu Samah (University of Malaya, Malaysia)</i></p>
GRS 4.2	<p><b>Predicting Column Averaged Dry-Air Mole Fractions of CO<sub>2</sub> in Peninsular Malaysia by Using GOSAT Data</b>  <i>Chong-Keat Sim; Hwee-San Lim; Mohd Zubir Mat Jafri (Universiti Sains Malaysia)</i></p>
AS 3.5	<p><b>Initial Observations of Cold Surge Frequency over Southeast Asia in Relation to ENSO-Induced Anomalies</b>  <i>Ahmad Ridzuan Mohammed Shariff; Mandeep Singh Jit Singh; Kalaivani Chellappan; Wayan Suparta; Fredolin T. Tangang; Ester Salimun; Maszidah Muhammad; Mardina Abdullah; Mohammad Tariqul Islam (Universiti Kebangsaan Malaysia)</i></p>
AS 3.1	<p><b>Temporal-Spatial Variability of Seasonal Aerosol Index and Visibility: A Case Study of Nigeria</b>  <i>Mukhtar Balarabe; Fuyi Tan; Khiruddin Abdullah; Mohd Nawawi Mohd Nordin (Universiti Sains Malaysia)</i></p>
AS 3.2	<p><b>Comparison of Hazy and Clear Atmospheric Conditions in Penang Using a Ground-based Lidar</b>  <i>Wei Ying Khor; Mohd Zubir Mat Jafri; Hwee-San Lim; Chun Ho Tan (Universiti Sains Malaysia)</i></p>
AS 3.3	<p><b>A Prediction Model for CO<sub>2</sub> Emission From Manufacturing Industry and Construction in Malaysia</b>  <i>Chun Ho Tan; Chong-Keat Sim; Mohd Zubir Mat Jafri; Hwee-San Lim; (Universiti Sains Malaysia)</i></p>
AS 3.4	<p><b>An Analysis of Aerosol Types in Southeast Asia</b>  <i>Fuyi Tan; Mukhtar Balarabe; Khiruddin Abdullah; Hwee-San Lim; Brent Holben (Universiti Sains Malaysia)</i></p>

**SESSION 4 : Space and Climate Change & Others (SCC)**

Venue : Kencana 3

Session Chair : Mr. Ling Leong Kwok

Time : 3.00 pm – 5.00 pm

SCC 1.1	<p><b>The Estimation of Rainfall and Precipitation Variation During 2011 Convective System Using an Artificial Neural Network Over Tawau - Sabah</b>  <i>Wayan Suparta; Wahyu Sasongko Putro; Mandeep Singh; Mhd Fairos Asillam (Universiti Kebangsaan Malaysia)</i></p>
SCC 1.2	<p><b>Development of Very Low Frequency (VLF) Data Acquisition System Using Raspberry Pi</b>  <i>Y.L. Soon; Kok Beng Gan; Mardina Abdullah (Universiti Kebangsaan Malaysia)</i></p>
SCC 1.3	<p><b>UKM GNSS Data Management Framework Using Client Site Data Processing Techniques</b>  <i>Selvakumar Atikan; Kalaivani Chellappan (Universiti Kebangsaan Malaysia)</i></p>
SCC 1.4	<p><b>Precipitation Analysis Using GPS Meteorology Over Antarctic Peninsula</b>  <i>Wayan Suparta; Siti Khalijah Zainudin (Universiti Kebangsaan Malaysia)</i></p>
SCC 1.5	<p><b>The Development of PWV Index for Air Pollution Concentration Detection in Banting, Malaysia</b>  <i>Wayan Suparta; Kemal Alhasa; Mandeep Singh; Mohd Talib Latif (Universiti Kebangsaan Malaysia)</i></p>
SCC 1.6	<p><b>Climate Change Creativity for Cirrus Clouds and Contrails Control</b>  <i>Harijono Djojodihardjo (Universiti Putra Malaysia)</i></p>