3rd URSI-Regional Conference on Radio Science 2017, Tirupati

Programme Schedule

TIME	1 March 2017		
0830-0915	Registration		
0915-1000	**Inaugural Function** *(Venue: Ball room - Hotel Fortune Select Grand Ridge)*		
1000-1100	GL1: Study of the Coupled Solar-Earth System with Large Atmospheric Radars, Ground-based Observation Network and Satellite Data - **Toshitaka Tsuda** *(Venue: Ball room)*		
1100-1115	**TEA BREAK**		
	Commissions A, E, J, K *(Venue: Nexus Hall)*	**Commissions B,C,D** *(Venue: Senate Hall)*	**Commissions F, G, H** *(Venue: Ball room)*
	Oral Session I	**Oral Session I**	**Oral Session I**
1115-1300	IA1: Indian Regional Navigation Satellite System Network Timing - **T Subramanya Ganesh** IA2: Importance and Evaluation of Measurement Uncertainty in Metrology - **Vijay Narain Ojha** OA1: Indian Standard Time Synchronization over Public Telephone Network - **A Aishik Acharya** *et al* OA2: Tropical Lower Stratospheric Water Vapour over India- A Seasonal Picture from In situ and Satellite Observations - **Maria Emmanuel** *et al*	IC1: Design and Development of Indian MST Radar- **KP Ray** IC2 : Signal Analysis Techniques Applied to RISAT-1 during On-Ground Performance Evaluation - **Rakesh Bhan** *et al* OC1: Octave Error Reduction in Pitch Detection Algorithms using fourier series approximation method - **Balachandra Kumaraswamy** *et al* OC2: Performance Assessment of Morphological based Medical Image Reconstruction by varying SEs and Edge Filters - **Vijaya Kishore V** *et al* OC3: 53 MHz active phased array radar for Atmospheric remote sensing: A pre- cursor to active phased array MST radar - **P Yasodha** *et al* OC4: Wind Velocity Measurements in MST Radar Using Compressed Sensing - **Vaishnavi Subramanian** *et al*	IG1: Issues to be considered in forecasting low latitude scintillations due to equatorial plasma bubbles - **Archana Bhattacharyya** IG2:Multi-frequency GNSS amplitude and phase scintillation observations from the anomaly crest region - **A Paul** *et al* OG1: Spatial distribution of GNSS scintillations around the EIA at 95° E - **B Dutta** *et al* OG2 : Ionospheric scintillation parameter measurement with Synthetic Aperture Radar (SAR) data - **Shradha Mohanty** *et al* OG3: GNSS Ionospheric Amplitude Scintillations over a sub-tropical location, Waltair (17.7°N, 83.3°E) in the Indian sector - **VKD Srinivasu** *et al* OG4: Study of the effects of adverse ionospheric conditions on relative performance of different navigational satellite constellations - **Samiddha Goswami** *et al*
1300-1400	**LUNCH BREAK**		
1400-1600	**YOUNG SCIENTIST AWARD COMPETITION** *(Venue: Ball room)* YSA1: Microwave based, non-invasive, diagnosis technique for analyzing skin burn depth - **Sujith Raman** *et al* YSA2: Development of High Performance Microwave On-board Diplexing Network for ASTROSAT Telemetry Tracking & Command Application - **Vamsi Krishna Velidi** *et al* YSA3: Enactment of Metamaterials and Genetic Algorithm for the Performance Improvement in Printed Antennas - **Bikash Ranjan Behera** *et al* YSA4: Planetary boundary layer anomalies during convective rain - **R Chakraborty** *et al* YSA5: Radiation Diversity of Monopole-DRA over Wide Bandwidth Using Curved FSS - **Ayan Chatterjee** *et al* YSA6: Optical and radio observations of electrified medium scale traveling ionospheric disturbances observed near the Indian dip equatorial region - **VL Narayanan** *et al* YSA7 :Atmospheric boundary layer top climatology from GPS Radio Occultation measurements - **Ghouse Basha** *et al* YSA8: The impact of the 17 March 2015- St. Patrick's Day storm on the evolutionary pattern of Equatorial Ionization Anomaly over the Indian longitudes using high resolution spatio-temporal TEC maps - New insights - **Sneha Yadav** *et al*		
1600-1615	**TEA BREAK**		
1615-1915	**25 years of Indian MST Radar - Special Session** *(Venue: Ball room)*		
1930	**DINNER**		

I_ _: Invited talk- 20 minutes duration; O_ _: Contributed Oral talk; YSA_; SPC_- 15 minutes duration

2 March 2017

Accompanying Persons tour: 0900-1830

TIME			
0915-1000	GL2: A Globally Significant Weather and Climate Mission - **T Misra** *(Venue: Ball room)*		
	Commissions A, E, J, K *(Venue: Nexus Hall)*	**Commissions B,C,D** *(Venue: Senate Hall)*	**Commissions F, G, H** *(Venue: Ball room)*
	Oral Session II	**Oral Session II**	**Oral Session II**
1000-1100	IJ1 : The Indian Sky Watch Array Network (SWAN) - **Avinash A Deshpande** OJ1: Simulations and Tests of Prototype Antenna Receiver System for Low Frequency Radio Experiment (LORE) Space Payload for Space Weather Observations - **Jayashree Roy** *et al* OJ2 : Signal Processing Requirements and Challenges for the Expanded GMRT - **Kaushal D Buch** *et al* OJ3 : The Physical Environment around IRAS 17599−2148: Infrared Dark Cloud and Bipolar Nebula - **LK Dewangan** *et al*	ID1 : Quantum optomechanics with nano-optical systems: ground state cooling and entanglement - **Amarendra K Sarma** *et al* OD1: Angle-dependent suppression of spontaneous emission in 3D photonic crystals - **Priya** *et al*	IF1: Deep Convective Cloud Cores Identification from Megha-Tropiques SAPHIR Tb Data - **Suresh Raju *et al*** OF1 : Radar Remote Sensing of Clear Air & Precipitation - Progress in India - **Viswanathan Gouravaram** OF2: Rain attenuation studies from different methods at a tropical location - **Tuhina Halder** *et al* OF3 : Impact of Spheroidal Rain Drops on Rain-induced Propagation Impairments of Microwave Signal - **Arpita Adhikari** *et al*
1100-1115	**TEA BREAK**		
1115-1300	**Oral Session III** IA3: Time Synchronization of Geographically Distributed Systems - **S Sudha Rani** *et al* IA4: Applications of Sagnac Interferometer - **M Sree Ramana** IA5: Single Trapped Ion based frequency standard in the Optical region - **S Panja** *et al* OA3: NAVIC Time Scale Software: Design and Implementation - **Rajath Sadasivan** *et al*	**Oral Session III** IB1: Plane Wave Diffraction by a Finite Sinusoidal Grating - T Eizawa *et al* (**Kazuya Kobayashi**) IB2: Recent Advances in Multifunctional Printed Antennas for Modern Wireless Applications - **Jawad Y Siddiqui** *et al* OB1: A Hybrid Stepped Impedance - Ring Resonator Loaded Waveguide Bandpass Filter with Dual Pole and Four Transmission Zeros - **A Bage** *et al* OB2: Radiation Pattern and Scattering Analysis of a Microstrip Patch Antenna Array - **R Manohar** *et al* OB3: Design of dual band-notched printed monopole antenna for super wideband applications - **M Manohar** *et al* OB4: Analysis of Directivity Enhance Circular Microstrip Antenna with Shorting Post - **SM Rathod** *et al*	**Oral Session III** OF4 : Moupfouma rain rate model for conversion of longer integration time rain rate distributions - **Chandrika Panigrahi** *et al* OF5 : New insights into the cloud structure and dynamics over the Indian summer monsoon region using space based remote sensing techniques - **Kandula V Subrahmanyam** *et al* OF6 : Atmospheric Electric Field Observations at a Tropical Location - **Soumyajyoti Jana** *et al* OG5 : Long Term Radio Investigation of Equatorial Ionosphere - A comprehensive study of additional stratification in equatorial F-region ionosphere - **Tarun Kumar Pant** *et al* OG6 : Preliminary measurements of Ionogram using the indigenously developed SAMEER Digital Ionosonde - **Ajay Khandare** *et al* OG7: Ionospheric and middle atmospheric long term trends and changes over India - **Som Sharma** *et al* OG8 : Statistical investigation of sporadic E and spread F over Dibrugarh in low-midlatitude transition region - **BR Kalita** *et al*
1300-1400	**LUNCH BREAK**		
1400-1600	**STUDENT PAPER COMPETITION** *(Venue: Ball room)* SPC1: Fading characteristics of multi-frequency scintillations near the EIA crest - **D Jana** *et al* SPC2 : Low Cost X-Band Electromagnetic Wave Absorbers using Electromagnetic Band Gap Structures - **Rahul Pelluri** *et al* SPC3 : Observation of Tropical Cyclone Formation, Growth and Dissipation by SAPHIR Sensor - **MP Vasudha** SPC4 : A Simple Frequency Reconfigurable Monopole Antenna for Ultra- Wideband Applications - **Anamiya Bhattacharya** *et al* SPC5 : Gravity Wave Studies During Intense Tropical Cyclone Phailin over the Indian Region - **Gargi Rakshit** *et al* SPC6 : Coplanar Waveguide Fed Tapered Slot Antenna with Multi-Functional Characteristics - **Latheef A Shaik** *et al* SPC7 : Wavelength selective dual-band mid-infrared metamaterial absorber/emitter - **Jitendra K Pradhan** *et al* SPC8: Long-Baseline Interferometric observations of sub-arc minute structures in the Solar Corona - **Mugundhan V** *et al*		
1600-1615	**TEA BREAK**		
1615-1645	SPC9 : Evolution of Electrostatic Solitary Waves in the Lunar Wake - **R Rubia** *et al* SPC10 : Fluid simulation of the effects of superthermal electrons on the wave processes in space plasmas - **Ajay Lotekar** *et al*		
1645-1915	**POSTER SESSION I** *(Venue: Poster Hall)* **PA1:** Instrumentation for Cesium Atomic Fountain Frequency Standards - **P Arora** *et al* **PA2:** Electromagnetically Induced Transparency In presence of RF exposure - **Harish Singh Rawat** *et al* **PA3:** System Engineering of an In-house Time Scale for NavIC - **Anu Arora** *et al*		

PA4: A clock ensemble development using artificial neural network - **Shikha Maharana** *et al*
PA5: Design and simulation of TE111 mode microwave cavity for rubidium frequency standard - **Bikash Ghosal** *et al*
PA6: Current Status of National Time Scale – **Ashish Agarwal** *et al*
PB1: Frequency-Agile Bandpass Filter for the lower LTE Band Applications - **Ajay Kochar** *et al*
PB2: Implementation of Metamaterials and Genetic Algorithm for the Performance Improvement in Printed Antennas - **Bikash Ranjan Behera** *et al*
PB3: A Quad-Band Frequency Reconfigurable monopole Antenna with Shorted Stubs for Microwave Applications - **Indra Bhooshan Sharma** *et al*
PB4: Design of UHF RFID Antenna with dual layer EBG structures - **JC Narayana Swamy** *et al*
PB5: Investigations on tapered perspex dielectric rod antenna - **MVS Prasad** *et al*
PC1: Design of Efficient Channel Estimation Method for MIMO-OFDM System - **Dinesh B Bhoyar** *et al*
PC2: Design,Development and validation of Optical Control Signal Network for 1024 Element Active Phased Array MST Radar - **Kamaraj** *et al*
PC3: Detecting deficits of visual security metrics for images - **R Rajeswari** *et al*
PC4:EMD De-noising of MST Radar Echoes using Soft Thresholding - **N Padmaja** *et al*
PC5: Automated Nautical Border Alert system - **Pooja Sarwade** *et al*
PC6: The Atmospheric Boundary Layer FMCW (Frequency Modulated Continuous Wave) Radar – Design and simulations - **P Parvathi** *et al*
PC7: Development of software defined radio based Digital receiver using COTS board for atmospheric radar - **P Yasodha** *et al*
PC8: Multi-DSP and FPGA based Multi-channel Direct IF/RF Digital receiver for atmospheric radar - **P Yasodha** *et al*
PD1: All-Optical Cross-Bar Switching Network using Mach–Zehnder Interferometer - **Supriti Samanta** *et al*
PD2: APCVD grown patterned carbon nanotubes with metal filling: novel building blocks for magnetic recording - **Joydip Sengupta**
PD3: Structural investigation of enhanced optical characteristics of rare earth doped CZO perovskites - **Sadhana Agrawal** *et al*
PD4: Imperative analysis of TL characteristics of rare earth activated Barium Zirconate Phosphor - **Shambhavi Katyayan** *et al*
PD5: A comparative analysis of graphene, CNT and copper dipole antenna - **Sasmita Dash** *et al*
PD6: Optical sensors for remote sensing the atmosphere - **Bhavani Kumar Yellapragada**
PD7: Design of L-Band Monopulse Comparator - **R Ramesh Krishnan** *et al*
PE1: Measurement and Analysis of Electromagnetic Compatibility on Ship - **Dipankar Dan**
PE2: Experimental Verification of High Voltage Transient Response of Bi-Cones and dipoles - **D Ratan Sanjay**
PF1: Radiometric Measurements of Attenuation in relation to Water Vapor at a Tropical Location - **Arundhuti Sengupta** *et al*
PF2: Complementing X- and Ka-band Scanning polarimetric Doppler Radars for stratiform clouds over Indian Western Ghats - **Hari Krishna Devisetty** *et al*
PF3: Removing uncertainties from the characteristics of Inertia Gravity Waves (IGW) extracted from wind profiles using hodograph method - **Gopa Dutta** *et al*
PF4: Development of web based Radar Control Software for future generation Active Phased Array Radars - **J Kamal Kumar** *et al*
PF5: Interaction of Gravity Waves and Planetary Waves during Mesospheric Inversion Layers over Low Latitudes - **K Ramesh** *et al*
PF6: The Impact Assessment of Diwali Firecrackers Emissions on the Air Quality of the Capital Region of India - **Nishant Kumar** *et al*
PF7: Multiangle lidar data analysis using inversion method - **Pawar Lalitkumar Prakash** *et al*
PF8: Identifying Onset date of Indian summer monsoon with VHF Radar and complementary data - **Manoj MG** *et al*
PG1: Ionospheric parameters response to moderate seismic activity at altitude of 500 km over the low latitude - **Ananna Bardhan** *et al*
PG2: Diurnal and Seasonal Variation of Total Ion Density of Topside Ionosphere with Solar Activity - **Bindu Mangla**
PG3: Effect of equatorial ionosphere on GPS carrier phase ambiguity estimation - **N Dashora** *et al*
PG4: Evaluating the role of solar wind dynamic pressure in generating prompt penetration electric field under northward IMF Bz condition - **Diptiranjan Rout** *et al*
PG5: Temporal evolution of the EIA along 95°E as obtained from GNSS TEC measurements and SAMI3 model - **G Kakoti** *et al*
PG6: Variability of ionospheric parameters during solar minimum and maximum activity and assessment of IRI model - **DK Sharma** *et al*
PG7: Local time dependence of occurrence frequency and depletion in TEC of ionospheric scintillation over an Indian equatorial crest station - **Malavika Unnikrishnan**
PG8: Modification of ionospheric irregularities during geomagnetic disturbances over an equatorial station Changanacherry-case studies - **K Unnikrishnan** *et al*
PG9: Estimation of nighttime current density and daytime zonal electric field over the dip-equatorial E-region - **Kuldeep Pandey** *et al*
PG10: Development of Gadanki Ionospheric Radar Interferometer for dedicated probing of ionosphere: System description, Capabilities and observations - **M Durga Rao** *et al*
PG11: Study of the propagation characteristics of Very Low Frequency Signal as observed from Indian Permanent stations Maitri and Bharati - **Sudipta Sasmal** *et al*
PG12: Effect of geomagnetic storm on the F2 region of Southern hemisphere - **P Peddi Naidu** *et al*
PG13: Evolutionary characteristics of equatorial plasma bubbles after their onset - **VL Narayanan** *et al*
PG14: Quality examination of COSMIC electron density profile product for use in Ionospheric Research - **N Dashora** *et al*
PH1: Effect of Radiation on coronal loop oscillations - **Aveek Sarkar** *et al*
PH2: Tsunami genic ionospheric disturbances ahead of Sumatra tsunami and offshore early warning - **EA Kherani**
PH3: Association of Solar Wind Plasma and IMF with Geomagnetic Storms during Solar Cycle 24 - **M Tiwari** *et al*
PH4: RF Blackout Study Probe for Space Re-entry Vehicle - **Puneet Kumar Mishra** *et al*
PJ 1: Study of Solar Indices During Solar Cycles 21 to 24 - **AC Pandey** *et al*
PJ2: Tests of Goniopolarimetry Technique for Direction Finding and Polarimetry with a Toy Test Set-Up - **Jayashree Roy** *et al*
PJ3: Multi-Wavelength Study of the Star-Formation in the S237 H II Region - **LK Dewangan** *et al*
PJ4: Study of Cosmic Ray Intensity with solar activity during Solar Cycles 22 -24 - **Prithvi Raj Singh** *et al*
PK 1: Combined effect of nanoparticle and 3G mobile phone frequency on male Wistar rats - **Sonali Pardhiya** *et al*
PK2: Effect of prolonged whole body mobile phone exposure on brain region resolved rat brain proteome and it's correlation with serum oxidative stress markers - **Kumari Vandana Singh** *et al*
PK3: Specific Absorption Rate Measurement of 3G Mobile Phone Frequency - **Jay Prakash Nirala** *et al*

1930 **DINNER**

3 March 2017

TIME			
0915-1000	GL3: High performance and miniature laser-pumped vapor-cell frequency standards - **Gaetano Mileti** *(Venue: Ball room)*		
	Commissions A, E, J, K *(Venue: Nexus Hall)*	**Commissions B,C, D** *(Venue: Senate Hall)*	**Commissions F, G, H** *(Venue: Ball room)*
	Oral Session IV	**Oral Session IV**	**Oral Session IV**
1000-1100	IJ2 : The Expanded Giant Metrewave Radio Telescope - **Narendra Nath Patra** OJ4 : Discovery of three episodes of AGN-jet activity in a radio galaxy and role of new radio telescopes - **Veeresh Singh** OJ5 : Effects of Ionosphere and Troposphere on Sensitive Radio Observations from 70 MHz to 24 GHz - **Abhirup Datta**	ID2 : Effect of resonator displacements in inductively coupled terahertz metamaterials - S Jagan Mohan Rao *et al*(**Dibakar Roy Chowdhury**) ID3: Sub-wavelength imaging in photonic crystals - KV Ummer *et al* (**R Vijaya**) OD2: Terahertz vacuum electronic devices for ultra-broadband high data rate wireless communication - **Vishnu Srivastava**	IH1 : Low frequency Electromagnetic waves and Instabilities in Earth's Magnetosphere -Theory and Observations - **RV Reddy** OH1:- Gravity wave control on ESF day-to-day variability: A quantitative approach - **Aswathy RP** *et al* OH2 : Study Of Dynamical Complexity In ΔH Time Series Using Non-Extensive Tsallis Entropy And Hurst Exponent - **Sajith Babu S** *et al*
1100-1115	**TEA BREAK**		
1115-1300	**Oral Session V**	**Oral Session V**	**Oral Session V**
	OE1 : Improving Signal-to-Noise Ratio of Radio Telescope Receiver through Real-time RFI Excision - **Kaushal D Buch** *et al* OE2: Implementing and Characterizing Real-time RFI Excision for the GMRT Wideband Backend- **Kaushal D Buch** *et al* OE3: Space Plasma Environment Effects on Spacecraft Systems **– B Karthikeyan** *et al* OK1: Specific Absorption Rate calculation in a typical bunch of Sapodilla fruits (Manilkarazapota) as per revised Indian RF exposure guidelines - **Ardhendu Kundu** *et al* OK2: Biochemical and biophysical changes on developing rat exposed to low level electromagnetic radiation - **Paulraj R** *et al*	IB3: Polarization Sensitive Ultrathin Carpet Cloak Based on Generalized Principles of Reflection - R Swain *et al* (**RK Mishra**) OB5: Four Element Koch Fractal MIMO Antenna for Wireless Application - **Sachin S Khade** *et al* OB6: Adaptive Single Null Placement in Broadside Linear Array using Edge Element Control - **Baisakhi Bandyopadhyay** *et al* OB7: Spurious Harmonic Suppression in a Compact Parallel-Coupled Microstrip Line Bandpass Filter using Square Shaped Corrugations - **Tarun Kumar Das** *et al* OB8: FDTD-based Modeling for RCS Estimation of Multilayered Dielectric Cube - **R Ganeshnath** *et al* OB9: Some Investigation on cross slot coupled Dielectric Resonator Antenna fed with parallel standing strips- **Vipin Kumar** *et al* OB10: Design and Development of Ultra low Cross-pol C-band Circular Probe for Satellite Antenna Characterization - **Haindavi Manigilla** *et al*	IH2 : Electrostatic Solitary Waves in the Solar Wind Plasma - **SV Singh** *et al* OH3: Alfven wave detection at first Lagrangian point with magnetic field measurements - **Vipin K Yadav** *et al* IG3 : Imaging of Ionosphere using IRNSS/GNSS Receiver Ground Network - **N Dashora** OG9 : The impact of meridional circulation changes on the electron density distribution over the equatorial and low latitude region during a severe geomagnetic storm on 15 May 2005 - **K M Ambili** *et al* OG10 : Relative roles of Substorm Induced and Prompt Penetration Electric Fields over Equatorial Latitudes during Disturbed Time - **Debrup Hui** *et al* OG11 : On the definitive climatological response of Low Latitude Ionosphere during Space Weather Events and Quiet Periods - **N Dashora** *et al*
1300-1400	**LUNCH BREAK**		
1400-1445	GL4: Urban radar network for disaster mitigation: Observations and Warnings of Floods, Tornadoes, Hail and Lightning in the Dallas-Fort worth using X band radar network - **V Chandrasekar** *(Venue: Ball room)*		
1445-1600	**POSTER SESSION II** *(Venue: Poster Hall)* **PB6:** A Novel S Shaped Wide Band Patch Antenna for Digital Multimedia Broadcasting And LTE - **Nagabhushan H M** *et al* **PB7:** A 5.8 GHz Hexagonal Patch Harmonic Suppression Antenna for Wireless Energy Transmission - **Udayabhaskar Pattapu** *et al* **PB8:** A Study on Multiband and Compact Fractal Antennas for Wireless Communication Applications - **E Suresh** *et al* **PB9:** Simulation of Low-loss Permittivity Measurement for Xn-Band Waveguide System - **Naina Narang** *et al* **PB10:** Coplanar Multi-band Slotted Bowtie Antenna for Wireless Applications **– Rajesh Kumar** *et al* **PB11:** Neural Network Model for Target Classification of Aerospace Structures using RCS - **Hemasree** *et al* **PB12:** A Novel Microstrip Patch Antenna for Smart Phone Communication - **Aijaz Ahmed** *et al* **PC9:** Smart Healthcare Device for Remote Patient Monitoring - **Shauri Zanzaney** *et al* **PC10:** A survey on visual secret sharing schemes - **Javvaji VK Ratnam** *et al* **PC11:** Classification of Wind Profiler Power Spectra by Signature Matching using Wavelet Transform - **Swati Sinha** *et al* **PC12:** Doppler Profile Estimation Using Gaussian Wavelets - **Swati Sinha** *et al* **PC13:** On operation, maintenance and upgrade activities of Indian MST Radar- **T Rajendra Prasad** *et al* **PC14:** PAPR Reduction through Lossy Coding in BPSK OFDM - **M Vasantha Lakshmi** *et al* **PC15:** Performance Analysis of OQPSK on high data rate Inter-Satellite Communication Link - **Kishore Pasi** *et al* **PC16:** A Robust and reliable scheme for digital image transmission with security for medical applications - **G Aparna** **PF9:** Study of Rainfall Trend over Indian Subcontinent and Adjoining Regions - **Oiendrila Nath** *et al* **PF10:** Preliminary results on K Band Beacon Receiver used for propagation experimentation at NARL - **Parvathi P** *et al* **PF11:** Simultaneous brightening in 630 nm Airglow from thermosphere and mesopause - observations using Limb Viewing Hyper Spectral Imager (LiVHySI) onboard YOUTHSAT - **Tarun Kumar Pant** *et al* **PF12:** Anamalous MST Radar echoes at NARL, Gadanki during Convection - **TK Ramkumar** *et al* **PF13:** Effect of Solar Cycle on Earth's Climate - **Rajasri Sen Jaiswal** *et al*		

	PF14: Global distribution of Surface Refractivity, Initial Refractivity lapse rate and Earth Curvature Factor observed using GPS RO measurements - **G Manjula** *et al* **PF15:** Variability of surface radio refractivity over different stations of Western Himalaya - **N Narasimha Rao** *et al* **PF16:** A Comparative Study of Soft Computing Techniques for Hot Spot and Non-hot Spot Classification in Jharia Coal Field Region - **A Tasneem Ahmed** *et al* **PG15:** On the Local Time Difference in Scintillation On-set over Gadanki, Hyderabad and Visakhapatnam - **Dashora N** *et al* **PG16:** Investigation of GPS-TEC variations over equatorial and low latitude Indian region for the high solar activity year 2012 - **Nilesh C Patel** *et al* **PG17:** Equatorial F region irregularities during MiniMax and the onset conditions in the Indian sector - **P Pavan Chaitanya** *et al* **PG18:** Morphological Features Of Plasma Irregularities Estimated Using Geostationary Satellites - **V Pralay raj** *et al* **PG19:** Total electron content variations in the Brazilian region for the high solar activity period 2012-2014 - **Sagar P Pastagiya** *et al* **PG20:** The characteristics of dayside Venus ionosphere: a modeling approach - **Sneha Susan Babu** *et al* **PG21:** Analysis of Total Electron Content using GDF and Nakagami-m Distribution for Indian Regional Navigation Satellite system (IRNSS) signals at low latitude station, Surat, India - **Sonal Parmar** *et al* **PG22:** An electron hole formation in the equatorial ionization anomaly region of Indian sector using SAMI2 model - **SS Rao** *et al* **PG23:** Study of the effects of varying location of Lightning-induced Electron Precipitation (LEP) events over a chosen Very Low Frequency (VLF) propagation path on the signal amplitude - **Suman Chakraborty** *et al* **PG24:** Study of the observational signatures of pre-seismic activities on the ionosphere during the Nepal 2015 Earthquake - **Suman Chakraborty** *et al* **PG25:** New hypothesis for generation mechanism of equatorial plasma bubbles and blobs - **P Nade** *et al* **PG26:** Study of neutral winds over low latitude station Kolhapur using MF radar - **AK Sharma** *et al* **PG27:** Study of relative signal characteristics of NavIC and GNSS from a anomaly crest location - **P Banerjee** *et al* **PG28:** Study of the spatial and temporal characteristics of D-region electron density profile during annular solar eclipse from VLF etwork observations - **Tamal Basak** *et al*	
1600-1615	**TEA BREAK**	
	Commissions B,C, D *(Venue: Senate Hall)* **Oral Session VI**	**Commissions F, G, H** *(Venue: Ball room)* **Oral Session VI**
1615-1815	ID4: Omnipresent singularities: An electromagnetics perspective - **Nirmal K Viswanathan** IC3: Energy Efficient Sleep Period Optimization for Green Radio Communication - **Sainath** *et al* OC5: End-To-End Delay Optimization for VANETs using Stochastic Method - **Banoth Ravi** *et al* OC6: Design and FPGA Implementation of Efficient Channel Estimation Method for MIMO System - **Swati K Mohod** *et al* OC7:Radar Target Emulator For Naval Tracking Radar Using FPGA - **Nirbhay Kumar Singh** *et al*	IG4: Nighttime equatorial ionosphere as investigated using meridional chain of radio experiments in the India longitude sector - **S Sripathi** OG12 : Gravity waves in the ionosphere as derived from digisonde measurements at Ahmedabad, India - **Duggirala Pallamraju** *et al* OG13 : Impact of sudden stratospheric warming event of 2009 on the low-latitude ionosphere of the Indian zone - **Sneha Yadav** *et al* OG14 : On-linear interaction between tides and planetary waves during the SSW events of 2009 and 2013: Evidence from GPS TEC observations - **S Sridharan** OG15 : Ionospheric plasma response due to Mw 7.8 Nepal earthquake on April 25, 2015 and its numerical simulation - **CD Reddy** OG16: Directivity of Seismogenic Travelling Ionospheric Disturbances (STIDs) during the Nepal – Gorkha Earthquake on 25 April 2015 - **S Tulasi Ram** *et al* OG17 : Study of the Dependence of Sub-Ionospheric Very Low Frequency (VLF) Signal Propagation Characteristics on the Lower Ionospheric parameters During Nepal Earthquake on May, 2015 - **Sudipta Sasmal** *et al* OG18 : Ionospheric response to seismic events - **Gopi K Seemala** *et al*

4 March 2017

TIME		
0830-0915	Travel to NARL	
	Commissions B, C, D *(Venue: NARL Main Building)* **Oral Session VII**	**Commissions F, G, H** *(Venue: NARL Conference Hall)* **Oral Session VII**
1000-1100	ID5: Indigenously developed 320 x 256 focal plane arrays for thermal imaging applications using S-K grown In (Ga)As/GaAsnanoscale quantum dots as the active medium - **Subhananda Chakrabarti** OB11: Frequency Selective Surface Based Bowtie Antenna for Bandwidth Enhancement **– Sarika** *et al* OB12: A Compact Wideband Staircase-shaped Four-element MIMO Antenna for WLAN, L-band and S-band Applications - **Aastha Gupta** *et al* OB13: A Novel Shaped Dual Band Stop Frequency Selective Surface for the Wi-Max 2.5/3.5 GHz Applications - **Sushila Choudhary** *et al*	IF2: Active phased array MST radar system with multi receiver capability for high resolution atmospheric observations - **M Durga Rao** *et al* OF7: Characterization of tropical convection using ground based microwave radiometry - **R Renju** *et al* OF8: Water Vapor Sensing using Ground-Based Dual Frequency GPS Measurement over a Tropical Location - **Souvik Majumder** *et al* OF9: Study on Rain Induced Propagation Impairments at Ku-band frequency over Kolkata - **Arijit De** *et al*
1100-1115	**TEA BREAK**	
1115-1300	**Commissions F, G, H** *(Venue: NARL Conference Hall)* **Oral Session VIII** OF10: A concept for high resolution soil moisture extraction using Oceansat-2 data - **Deepak Murugan** *et al* OF11: Meteor radar observations of quasi two day waves in the mesosphere lower thermosphere over low and equatorial latitude - **Karanam Kishore Kumar** *et al* OF12: LIDAR observations of middle atmospheric gravity wave activity over Reunion Island (20.8°S, 55.5°E): Climatological study - **P Vishnu Prasanth** *et al* OF13: Classification of precipitating systems using Micro Rain Radar and disdrometer over Thumba (8.5°N, 76.9°E) - **Lavanya S** *et al* OG19: Magnetically controlled density structures in the topside ionosphere of Mars - **N Venkateswara Rao** *et al* OG20: Meteoric Activity and Counter Electrojet: An intriguing Connection - **C Vineeth** *et al* OG21: First systematic study on the daytime zonal drifts in the ionospheric150 km and E region estimated using EAR observations and comparison with C/NOFS F region drifts - **P Pavan Chaitanya** *et al*	
1300-1400	**LUNCH BREAK**	
1400-1600	**Commissions F, G, H** *(Venue: NARL Conference Hall)* **Oral Session IX** OG22: Traveling disturbances in the quiet time auroral ionosphere - **EA Kherani** *et al* OG23: Unusual post-noon enhancements in thermospheric dayglow over an equatorial station: A case study based on measurements using Optical and Radio techniques - **Md Mosarraf Hossain** *et al* OG24: Anomalous night time enhancement of ionospheric electron content over an equatorial station, Changanacherry **– K Unnikrishnan** *et al* OG25: Spatial variability and zonal movement of equatorial scintillation related irregularities in the perspective of SBAS operation near the EIA crest - **S Pal** *et al* OG26: Multi-instrument investigation of troposphere-ionosphere coupling and the role of gravity waves in the formation of equatorial plasma bubble - **M Sivakandan** *et al* OG27: Post Midnight to Early Morning Observation of Ionization Density Depletions from LEO CRABEX Measurements from Calcutta - **Sayani Ghosh** *et al*	
1600-1615	**TEA BREAK**	
1615-1700	**Valedictory Session** *(Venue: NARL Conference Hall)*	
1715	**Departure to Tirupati**	