

SSTDM 2014 (Final Program)

Time

Session

Sunday, 30 March, 2014

1400 - 1600

IISc Campus Tour

1600 - 1800

Early Registration

Monday, 31 March, 2014

End-Users Needs

0800 - 0900

Registration

Welcome & Opening Remarks

0900 - 0915

SSTDM CoChairs : Suraj Rawal, and G. Mohan Rao

0915 - 0930

P. Balaram, Director, IISc, Banaglore

0930 - 0945

Ray Johnson, Exec VP, Chief Technology Officer, Lockheed Martin Corp.,

0945 - 0950

Rajeev Sharma, Director IUSSTF, Delhi

0950 - 1000

Milind Pimprikar, President, CANEUS

1000 - 1005

Chair: Steven Jolly

1005 - 1030

Berrien Moore, Univ. of Oklahoma, The Global carbon Cycle and Climate: Science and policy Challenges

1030 - 1055

Vinod Gaur, Indian Institute of Astrophysics, Climate and Natural Hazards in India

1055 - 1115

Break

1115 - 1140

Anatoly Perminov, Russian Space Agency, IAA, Role of Small Satellites and IGMASS Project

1140 - 1205

R Navalgund, ISRO, History of Remote sensing Systems at ISRO

1205 - 1230

Vinay Dadhwal, National Remote Sensing Centre (ISRO), Use of Indian Electro-Optical Data for Disaster Management Support

1230 - 1345

Lunch

1345 - 1350

Session 1
Remote Sensing Systems for Disaster Monitoring:
Session Chair: A. E. Muthunayangam

1350 - 1410

Mukund Rao, International Consultant in EO, GIS and Space, Designing an Efficient Disaster Management Support System

1410 - 1430

Steven Jolly, Lockheed Martin Space Systems, GOES-R Features that Allow Near-Continuous Observation

1430 - 1450

Shibendu Ray, Mahalanobis National Crop Forecast Centre, Drought and Flood Impact Assessment on Agriculture

1450 - 1510

S. Bandyopadhyay, ISRO, Role of Earth Observation: Agriculture Risk Reduction

1510 - 1530

Anond Snidvongs, Geo-Informatics and Space Technology Development agency, Thailand, Overview of Disaster Mangement in Thailand

1530 - 1540

U. Chandrasekhar, The Institution of Engineers, Models of Successful Collaborative Projects in India

1540 - 1700	Posters and Networking Session (Tea and Snacks)
1700 - 1900	CubeSat Tutorial Roland Coelho, CubeSat Program, Cal Poly, SLO; and Marco Villa, Tyvak and CANEUS
1930 - 2100	Dinner and Concept Paper Awards at Hotel Atria
Tuesday, 1 April 2014	
0830 - 0900	Registration
0900 - 0905	Session 2 Natural Disasters: Session Chairs: Vinay Dadhwal and David Tratt
0905 - 0925	Hugh Christian, Univ. of Alabama, Using Space-based Lightning Observations to Monitor Severe Weather Development
0925 - 0945	Virendra Tiwari, CSIR-National Geophysical Research Institute, Monitoring of Flood/Drought Using Space Borne Measurements
0945 - 1005	S. Sudhakar, North Eastern Space Applications Centre NESAC, Flood Early Warning System FLEWS in Brahma Putra Basin, and Fire Modeling
1005 - 1025	Alys Thomas, Univ. of California, Irvine, Monitoring terrestrial hydrology with GRACE satellites
1025 - 1045	Break
1045 - 1105	Ramesh Singh, Chapman University, Dust and Anthropogenic Emissions-Threat to Environment and Human Health
1105 - 1125	Scott Gleason, South West Research Institute, CO, Hurricane Mission: The CYGNSS Satellite Mission
1125 - 1145	Satheesh Sheno, Indian National Centre for Ocean Information Services (INCOIS), Indian Tsunami Early Warning System
1145 - 1205	Tajdarul Hasan Syed, Indian School of Mines, Dhanbad, Monitoring Subsurface Coal Fires Using Satellite Based Observation
1205 - 1225	T.G. Sitharam, IISc, Earthquake Hazards in India and Mitigation Methods
1225 - 1340	Lunch
1340 - 1345	Session 3 Sensors and Instruments Technologies: Session Chair: Hugh Christian and Maneesha Sudheer
1345 - 1405	Mike McGrath, Univ. of Colorado, LASP, Challenges to Commercialization of Low Earth Orbit
1405 - 1425	Raju Garudachar, Jain University, Spaceborne Remote Sensing Techniques for Disaster Monitoring: Microwave Sensors
1425 - 1445	Tapan Misra, Space Applications Centre, Ahmedabad, Evolution of SAR Technology at ISRO
1445 - 1505	Saji Kuriakose, Space Applications Centre, Ahmedabad, ISRO's ElectroOptical Payloads for Earth and Planetary Observation
1505- 1520	Break
1520 - 1540	David Tratt, Aerospace Corp., CA, Thermal-Infrared Spectral Imaging for Assessment of Environmental Hazards in Post-Disaster Scenarios
1540 - 1600	George Studor, Ex NASA JSC, Wireless Sensor Technologies in Disaster Monitoring: Learning from how Nature does it

1600 - 1620	Maneesha Sudheer, Amrita Vishwa Vidyapeetham, Wireless Sensor Networks for Disaster Management
1620 - 1640	C.J.Jagadeesha, NDRF, The Institute of Engineers, Sustainable Small Satellite Systems and Sensor Networks for Environment and Disasters Management in India
1640 - 1700	G. Viswanathan, Nurul Islam University, "Small Satellite Constellation with Multifunction High Resolution CW Radar for Alerting Natural Disasters"
1700 - 1730	Break
1730 - 1830	Walking tour of IISC
1845 - 2000	Cultural Program – Yakshagana, Venue: Satish Dhawan auditorium, Followed by Dinner

Wednesday, 2 April 2014 Collaborative Project Concepts and Impelmentation

0800 - 0900	Registration
0900 - 0905	Session 4 Space Systems: Session Chair: V. S. Hegde
0905 - 0925	Wanda Sigur, Lockheed Martin Space Systems, Space Exploration Systems
0925 - 0945	Raghava Murthy, Earth Observations System, ISRO Head Quarters, Small and Micro satellite Busses of ISRO
0945 - 1005	C J Jagdeesha, NDRF, The Institute of Engineers, Sustainable Satellite Systems for Assessing Agricultural Productivity
1005 - 1025	Natalya Brikner, MIT, Boston, MA, Ionic Electrospray for Efficient Propulsion of Microspacecraft
1025 - 1055	S.K. Murali, Multiversal Technologies, Inertial Electrostatic Confinement (IEC) Devices for Propulsion of Satellites used for Disaster Monitoring
1055 - 1115	Narayan Prasad, Dhruv Space Pvt. Ltd , Capacity Building for Small Satellite Missions in India
1115 - 1135	Break
1135 - 1140	Session 5 Concept Papers Chair: Mike McGrath, U Chandrasekhar
1140 - 1150	Anoop Parthasarathy, Jain University, L-Band Ice-Penetrating Radar On Board A Small Satellite
1150 - 1200	Shajin Naegunam, NIU, Pollution Monitoring Using A Generic Nano Satellite And Wireless Sensor Networks
1200 - 1210	M. Krishnaswamy, NIU, Generic Nano-Satellite For Monitoring Floods, Land Slides And Forest Fires
1210 - 1220	Shwaran Ram, IIT Roorkee, A UAV Based Autonomous System for Surveillance and Proclamation of Warning During Disaster
1220 - 1230	S. Maurya, Veltech Technical University, Multifaceted Unmanned Vehicle for Disaster Management
1230 - 1240	Maneesha Ramesh, Amrita University, Participatory Wireless Sensor Network System for Effective Disaster Management
1240 - 1340	Lunch
1340 - 1350	M P Vasudha, Jain University, 90ghz Radiometer For Measuring/Monitoring Snow Ice Properties In Himalayas

1350 - 1400	V. Jyothi, Jain University, "etection of Forest Fire Using Sensors, GPS, and Antennas
1400 - 1410	Pham Thang, Space Technology Institute, Vietnam Academy of Science and Technology, Utilization of VNREDSat-1 sensor on forest fire protection
1410 - 1420	Manvi Dhavan, IIT Mumbai, Design of a Tsunami Warning System using Electron Count Data from Small Satellite
1420 - 1430	Saroj Kumar, Nitte Meenakshi Institute of Technology, Twin NanoSatellites with Nano Synthetic Aperture Radar
1430 - 1440	Raghav Parwal, BITS Pilani, Prediction Technology for El Nino, and La-Nina Using Bayesian Network
1440 - 1530	Panel Discussion: Challenges & Implementation of Collaborative Projects Chair: Raghava Murthy
Panelist	TBD
1530 - 1545	Collaborative Projects Reports,
1545 - 1555	Concluding Remarks, Path Forward: Suraj Rawal, and Mohan Rao