| **ITU/ITSO WORKSHOP ON SATELLITE COMMUNICATIONS NAIROBI, KENYA, JULY 17-21, 2017Workshop Program** | | | | | |
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| Time | **Day 1 ( July 17)** | **Day 2 (July 18)** | **Day 3 (July 19)** | **Day 4 (July 20)** | **Day 5 ( July 21)** |
| 08.30-09.00 | **Opening Session** |  |  |  |  |
| 09.00-10.30 | **Basics of Satellite Communications**  **(ITSO)** | **Radio Regulations (Cont’d) (ITU)** | **Link Budget Analysis (Intelsat)** | **Radio Regulations (Cont’d)**  **(ITU)** | **Practical Exercises**  **(ITSO)** |
| * Birth of Satellite * Communication Links * Satellite Orbits * Orbital Positions and Radio Interference * Satellite Lifecycle Management | * Receivability of Space Notices * BR IFIC on DVD-ROM * Space Databases * Preface * Space Services Website |  | * Introduction to BR Space software * Notification and recording of assignments * Submission of Comments using Space Com |  |
| **10.30-11.00** | **Morning Health Break** | **Morning Health Break** |  | **Morning Health Break** | **Morning Health Break** |
| 11.00-12.30 | **Basics of Satellite Communications (Cont’d)**  **(ITSO)** | **Policy and Regulatory Guidelines for Satellite Services**  **(ITSO)** | **Link Budget Analysis (Intelsat)** | **Radio Regulations (Cont’d)**  **(ITU)** | **VSAT Equipment and Bandwidth Procurement**  **(ITSO)** |
| * The Space Segment * The Ground Segment * Services * Digital Video Broadcasting, * Digital Satellite News Gathering * Broadband Internet * Multicast Internet Services | * Legal Framework * Who's in charge? Telecom Coordination among agencies in charge of spectrum, licensing, competition, etc.; Regional harmonization of regulatory frameworks * Means of monitoring and controlling the spectrum * Key regulatory and licensing trends * Market entry (satellite systems, ground segments)- licensing types   Competition - Open access and International gateway liberalization |  | * Earth Station Coordination and Tools * Capture, Validation and Submission of Earth Stations | * Defining your needs: * Acquiring the VSAT |

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| **12.30-14.00** | **Lunch Break** | **Lunch Break** | **Lunch Break** | **Lunch Break** | **Lunch Break** |
| 14.00-15.30 | **(Intelsat)** | **Introduction to Network Planning**  **(ITSO)** | **Satellite services & Regulatory Issues: (Intelsat )** | **VSAT Installation and Maintenance**  **(ITSO)** | **Wrap Up Session**  **(ITU+ITSO+ Intelsat)** |
| * Introduction to Satellite Communications * Satellite Network Design * Technology Trends * Satellite Earth Station Equipment * Digital Communications Techniques * Modulation * Satellite Economics | Satellite Network Topologies and Applications: Star Topology, Mesh Topology for Multimedia | * Digital Video Broadcasting, * Digital Satellite News Gathering   Broadband Internet | * Site Survey * Antenna Alignment * Configuring the IDU * Satellite Dish Assembly * Satellite Pointing * Preventive Maintenance * Troubleshooting * Service Level Agreement   Escalation Procedure |  |
| **15.30-15.45** | **Aft ‘noon Health Break** | **Aft ‘noon Health Break** | **Aft ‘noon Health Break** | **Aft ‘noon Health Break** | **Afternoon Health Break** |
| 15.45-16.30 | **Radio Regulations**  **(ITU)** | **Introduction to Network Planning Cont’d**  **(ITSO)** | **WRC-Issues**  **(ITU+ Intelsat)** | **Practical Exercises**  **(ITU)** | **Closing Activities** |
| * Overview * Orbital Spectrum –International Regulatory Framework   Space FSS and BSS Plans  Non Planned Satellite Services (Coordination and Notification) | * Satellite Network Topologies and Applications: Star Topology, Mesh Topology for Multimedia | * WRC - 19 Preparations | * Comments API/A using SpaceCom * Cost Recovery |  |