





Satellite Communications

Sponsored by ITSO

10th –11th July 2014, Bujumbura, Burundi

PROGRAMME

DAY 1 (July 10)		
Session 1:	9.00 AM- 10.30 AM	Satellite technology, Satellite communications systems
		1.1 Birth of satellite communications
		1.2 Development of satellite communications
		1.3 Configuration of a satellite communications service
		1.4 Types of orbits
		1.5 Orbital positions and radio interferences
		1.8 RF equipments
		1.9 Earth station measurements
		1.10 Services
		1.11 Technology trends
		HEALTH BREAK
Session 2:	11.00 AM- 12.30 PM	Policy and Regulatory Guidelines for Satellite Services
		2.1 Radio regulations organizations
		2.2 Satellite policy principles
		2.3 Legal framework of satellite communications
		2.4 Key regulatory and licensing trends
		2.5 Means of monitoring and controlling the spectrum
		LUNCH BREAK
Session 3:	2.00 PM- 5.00 PM	Network planning and link budget analysis
		3.1 VSAT Network topologies
		3.1.1 Point to point links
		3.1.2 Star networks
		3.1.3 Mesh networks
		3.1.4 Broadcast
		3.1.5 Hybrid networks

DAY 2 (July 11)		
Session 4:	9.00 AM- 10.30 AM	Network planning and link budget analysis (Cont'd)
		3.2 Access schemes : SCPC, TDMA, FDMA etc
		3.3 Frequency bands: C-Band, Ku- Band, Ka-Band
		3.4 Base band signals
		3.5 Digital communications techniques
		3.6 Modulation techniques
		3.7 Link budget Analysis
		HEALTH BREAK
Session 5:	11.00 AM -1.30 PM	VSAT installation and maintenance
		4.1 VSAT Installation
		4.2 VSAT Maintenance
		LUNCH BREAK
Session 6:	2.30 -5.00 PM	VSAT equipment and bandwidth procurement
		5.1 Define your needs
		5.2 Acquire the VSAT
END		

Facilitator: Eng. Edward