11h30 - 13h | Aug. 23, 2017– Wednesday | ROOM 11

TECHNOLOGY FOR TV AND RADIO

AM RADIO MIGRATION AND THE REVISION OF THE TECHNICAL REGULATION

Chair: Eduardo Cappia, EMC/SET Director

AM radio migration resulting in 300 new broadcasters in the extended range (76 to 88 MHz). New technical regulation applied. Universe of extended range receivers, equipment and FM modulation requirements.

- **PLANNING OF THE FM CHANNEL EXTENDED - MIGRATION BALANCE**

Speaker: Andre Ulhoa Cintra - Radio Diretor - ABERT

FM EXTENDED (76 to 88 MHz). Planning of the 12 MHz added to the FM band, criteria of interference and protection with the conventional channeling. Modifications suggested in the adoption in Metropolitan Regions. Technical Regulation and Migration Balance.

- **RECEIVERS EXTENDED RANGE, FROM EMBEDDED TO SMARTPHONES**

Speaker: Caue Franzon - Project Manager - RBSTV and Radios

Minimal characteristics of the receivers and Technical Standards for the industry to produce and increase the number of devices, enabling the operation of new stations after 2019.

- **ENERGY EFFICIENCY FM TRANSMITTERS - EFM CERTIFICATION - FM MODULATION PARAMETERS**

Speaker: José Mauro de Ávila - Technical Director - MEGASISTEMA - AESP/SET

The details of FM Modulation, its various parameters, will be displayed. The insertion RDS, PILOTO, MPX, their limits and the effects on the final result of the product "FM audio and its mass". Certification of eFM transmitters. Energy efficiency considerations in FM transmission.

Eduardo Cappia, EMC/SET Diretor

JOSE EDUARDO MARTI CAPPIA - Electrical Engineer since 1979. Director of EMC Company - SOLUTION IN TELECOMMUNICATIONS of 1991. EMC Performed Digital Radio tests at UFMG - Belo Horizonte and Technical Responsible for tests of HD Radio in Cordeirópolis - SP and DRM in Belo Horizonte. Evaluation and defense of thesis with the IBiquity in the USA, about the coexistence of digital broadcasters in the first adjacent FM channels. Deployment in 2014 of the testing station, in eFM - 84.7 MHz - Jovem Pan - São Paulo. At AESP - leader of the Technical Committee since 2011. Performance in the Radio SET Board - since 2011.

Andre Ulhoa Cintra – Radio Director – ABERT

Communications Engineer - Consultant specialized in the planning of broadcasting channels. Director of Radio Abert and currently working on the FM Channel, by ABERT to accommodate the migrant channels. Developed by SET work to accommodate the TV channeling in the process of planning the TV Digital TV channeling.

Caue Franzon - Project Manager – RBSTV e Rádios

Master's degree in Production Engineering, Federal University of Rio Grande do Sul UFRGS; MBA in Project Management, FGV - 2012; Infrastructure Manager - RBSTV from 2012 to 2017; Electrical Engineering - Emphasis Control and Automation - UNISINOS - 2004; Group coordinator of research of products and solutions in television - RBS TV from 2006 to 2009; Electronic Technician - Liberato Salzano Vieira da Cunha Foundation – 1996.

José Mauro de Ávila - Technical Director - MEGASISTEMA - AESP/SET

Electrical and Work Safety Engineer at Universidade Paulista 2008. Electronic Technician since 1982. Participates in the NAB - Broadcast Engineering Conference since 1992. Technical Seminars SET AESP. Technical Director Mega Communication System. Audiovault Automation Specialist - Broadcast Electronics. Vice Leader AESP Technical Committee since 2011.

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