

# Non-Ionizing Radiation (NIR) STANDARDS AT SITE



**Moderator: Vitor Chaves De Oliveira**

*Engineering - Coach IT Group Inc. / UNISAL / DeVry  
Metrocamp / SET*



**Tutorial de como atender a Legislação atual - Lei  
11.934/2009 – Resolução Anatel 303/2002**

**Speaker: Paulo Eduardo Dos Reis Cardoso**  
*Specialist in Regulatory at ANATEL*



**Desenvolvimento e Utilização de Equipamentos para  
Aferição de Medições em acordo com as Normas RNI**

**Speaker: Antonio Marini De Almeida**  
*Innovation Manager - Diretoria de Redes Convergentes / CPqD*



**Adequando a sua Empresa ao novo Regulatório de  
Radiação**

**Speaker: Valderez De Almeida Donzelli**  
*DIRECTOR - ADTHEC/ SET*



**Analog switch-off: Interference, Site Planning and Digital  
Dividend**

**Speaker: Milos Pavlovic**  
*Director for Broadcast / LS telcom AG - Germany*

16h30 – 18h00 | 31/08/2016 Wednesday | Room 13

## INFRASTRUCTURE

# Non-Ionizing Radiation (NIR) STANDARDS AT SITE

Moderator: **Vitor Chaves de Oliveira**

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Esta Sessão visa a apresentação do regulatório a respeito da RNI (Normas referentes à Radiação Não Ionizante – RNI – em sites). E a discussão sobre o dividendo difital com o desligamento analógico com o compartilhamento da experiência europeia no assunto (Questões de Interferência e LTE), seu entendimento, impactos, custos, mecanismos de fiscalização e adequação dos sites. Demonstrações de como devem ser feitas as avaliações teóricas e medições para sites de multiusuários.

- **Tutorial de como atender a Legislação atual - Lei 11.934/2009 – Resolução Anatel 303/2002**

Speaker: **Paulo Eduardo Dos Reis Cardoso**

*Specialist in Regulatory at ANATEL*

Tutorial de como atender a Legislação atual - Lei 11.934/2009 – Resolução Anatel 303/2002, discussão sobre a consulta pública em curso no ano de 2016 e procedimentos internos da Anatel sobre o tema.

- **Desenvolvimento e Utilização de Equipamentos para Aferição de Medições em acordo com as Normas RNI**

Speaker: **Antonio Marini De Almeida**

*Innovation Manager - Diretoria de Redes Convergentes / CPqD*

O objetivo da apresentação é apresentar a pesquisa, o desenvolvimento e aplicação de sistemas de medição em campo para atender o regulatório atual.

- **Adequando a sua Empresa ao novo Regulatório de Radiação**

Speaker: **Valderez De Almeida Donzelli**

*DIRECTOR - ADTHEC/ SETA*

A palestra visa a apresentar a perspectiva do mercado em atendimento ao regulatório da Radiação Não Ionizante.

- **Analog switch-off: Interference, Site Planning and Digital Dividend**

Speaker: **Milos Pavlovic**

*Director for Broadcast / LS telcom AG – Germany*

Transition to Digital Terrestrial Television Broadcasting and Digital Dividend in Europe.



### VITOR CHAVES DE OLIVEIRA

*Engineering – Coach IT Group Inc. / UNISAL / DeVry Metrocamp / SET*

Vitor is a Brazilian Professor, Consultant and Researcher. PhD student in Electrical Engineering (Mackenzie), Master (MSc) in Electrical Engineering (PUCC), Specialist (MBA) in Electrotechnical Engineering and Power Systems (UNISAL), has a Bachelor's (BSc) Degree in Computer Science (UNISAL) and is an Informatics Technician (SENAI). College Professor working in the areas of Electrical Engineering and Computing at the Salesian University Center of São Paulo (UNISAL) and at the Metropolitan Integrated College of Campinas (DeVry Metrocamp); Magazines Editor (in Broadcast Engineering ) / Chair & Manager for the SET EXPO Technology Conference for the Brazilian Society of Television Engineering (SET); Member of Engineering – Infrastructure/Broadcast/Cloud/ERP/Web/Mobile for the 'Coach IT Group Inc.'. Is a book author in Cloud Computing area and has published dozens of articles in Scientific Journals and at National and International Conferences. His research interests are focused on Telecommunications: IP Networks, Radio Broadcasting (Digital TV), Electromagnetic Theory, Control Algorithms, Mathematical Systems Modeling, Virtualization and Energy Efficiency.



### PAULO EDUARDO DOS REIS CARDOSO

*Regulation Specialist – ANATEL*

He has an undergraduate degree and a Masters in Electrical Engineering from FEEC-Unicamp. He is currently reading for his doctorate at the LCV-DECOM-FEEC-Unicamp, researching Digital TV. He is on leave from the position of Regulation Specialist at Anatel, where he is involved with licensing broadcasting stations. Prior to this he was involved in Technical Inspection of broadcasting entities. He was responsible for the Technical Regulation of Frequency Modulated Sound Broadcasters and for analyzing technical feasibility processes for inclusion or change at PBFM. He worked as a Telecommunications Researcher at CPqD.



### ANTONIO MARINI DE ALMEIDA

*Innovation Manager – Convergent Networks Division – CPqD*

With a graduate degree in Telecommunications from the University of Campinas (UNICAMP), an MBA from the Superior School of Management and Marketing in Campinas (ESAMC) and a technologist from the Methodist University of Piracicaba (UNIMEP), Antonio has been with the CPqD (former Telebrás R&D Center) since 1985, having worked at laboratories that process RF integrated micro electronic devices for 15 years. From 2000 until 2010, he was responsible for measuring NIR radiation (laboratory and field measurements), including SAR measurements, in addition to having coordinate the R&D activities in CPqD laboratories in the field of RF and participating in Brazilian Regulation groups in the fields of RF and NIR. He is currently Manager for Product Innovation and Marketing in the Department of Laboratories and Corporate Network Infrastructure of the CPqD.



### VALDEREZ DE ALMEIDA DONZELLI

*DIRECTOR - ADTHEC/ SET*

She is a graduate in electronic engineering, power engineering and production from FEI – School of Industrial Engineering. She holds a Master's in electrical engineering from the Mackenzie University, defending the dissertation "Polarização Elíptica: Influência no desempenho de cobertura da TV Digital" (free translation, Elliptical Polarization: Its influence on the coverage performance of Digital TV". She has a specialization in IT from FESP and in information technology management from the FGV. She began her involvement with the bioengineering segment at the Heart Institute of the Clinics Hospital and has lectured in Radio and Television Technology at the FAAP – the Armando Álvares Penteado School. Between 1979 and 2006 she worked in different sectors of the Padre Anchieta Foundation (owners of the Cultura Radio and TV stations in São Paulo), and was also responsible for the technical projects division where she coordinated the drafting of projects and TV network planning of the radio broadcasters; testing of new technologies and relationships with city halls, broadcasters, the Ministry of Communications and Anatel. She was coordinator of the Abert/SET group for testing and measuring Digital TV systems and of the group that reviewed the regulations for sound and picture broadcasting services.

Today, she dedicates her time to ADTHEC – Engenharia & Sistemas – Riscos & Soluções, a company specializing in providing technical services, planning, projects, research, analyses and end-to-end solutions for radio and television broadcasters and communication and

telecommunications networks. She is a researcher at the Digital TV Laboratory of the Mackenzie University. She participates in working groups coordinated by Anatel, the Ministry of Communications, Universities, Associations and Research Centers, the Digital Radio Group of the SG6E of the ITU that deals with terrestrial broadcasting issues, as well as the Rapporteur Group on Radiocommunications 6 of CBC 2.

She is editorial director at SET, having already worked as publishing and education director.



**MILOS PAVLOVIC**

*Director for Broadcast - LS telcom AG – Germany*

MSc, Dipl.-Ing, Milos PAVLOVIC

Sales Director Broadcast LS telcom AG, Germany

Milos Pavlovic has a diploma in Electrical Engineering/Telecommunications. He received his Dipl. Ing and MSc degrees from University of Belgrade, Faculty for Electrical Engineering.

Milos has been in the Sales & Marketing department of LS telcom AG since 2012, with more than 10 years of experience working in the broadcast industry. After joining LS telcom, he has taken over the responsibility for its broadcast customers globally.

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