61st Annual IEEE Broadcast Symposium Program – subject to change

19-21 October, 2011

Westin Alexandria Hotel, 400 Courthouse Square, Alexandria, VA 22314 All events in the Edison Ballroom unless otherwise noted

Wednesday, 19 October 2011

8-9AM

Continental breakfast

9AM - noon

Tutorial - Connected TV

Session co-chairs: Rich Chernock, Triveni Digital

Yiyan Wu, CRC

Papers include:

- Connected TV: The U.S. Broadcast Perspective Skip Pizzi (NAB)
- Emerging International Standards for Internet Television John Simmons (Microsoft)
- The Connected TV Technology Landscape Scott Lincke (Yahoo!)
- Dynamic Broadcast: Joint Optimization of Network Planning and Content Delivery Scheduling Junge Qi (Techincal University Braunschweigh), Javier Morgade (University of the Basque Country)

Noon – 12:30PM Box lunch

12:30-1PM
Keynote luncheon speaker
Bridging the Gap – New IEEE BTS Initiative

Speaker – John Luff Introduction by Ralph Hogan



John Luff
Television Technology Consultant
HD Consulting

1-5PM

Tutorial - HD Radio

Session chair: Bob Surette, Shively Labs

Papers include:

- A Method for Measuring Hybrid FM IBOC Signals on Transmission Systems with Independent Digital and Analog Transmission Lines Randy Mullinax (Clear Channel Radio)
- Power Measurement for HD and Analog FM Signals Lynn Strube (Bird Electronics)
- Auxiliary Data Services for HD Radio -The Artist Experience Allen Hartle, (Jump2Go)
- The Business Side of HD Radio Technology Rick Greenhut (iBiquity Digital)
- New FCC Part 74, 101 Rule Changes Affect Broadcast Link Design Larry Miller (Schwartz, Woods and Miller)
- A Brief Review and Update on Environmental Due-diligence Requirements for Tower Siting Kenneth Rosenbaum, Jr. (Environmental Resources Management)

6-8PM

Welcome reception (Wright room) Entertainment by Da Vinci Strings

Thursday, 20 October 2011

8-9AM

Continental breakfast

9-11:45AM

Radio Engineering & RF Infrastructure Session chair: Roz Clark, Cox Radio

9-9:30AM FM Transmitter Cooling Technologies and Tradeoffs

Gary Liebisch, Nautel

9:30-10AM Asymmetrical Sideband Broadcasting using FM HD Radio

Paul Shulins, Greater Media

10-10:30AM Report from Brazilian Association of Broadcasting about the Test Results in AM and FM

Stations that use the IBOC Standard

Ronald Siqueira Barbosa, Valderez Donzelli, ABERT

10:30-10:45AM Coffee break

10:45-11:15AM Efficiency Enhancement Technology for Linear RF Power Amplification

Geoff Mendenhall, Harris

11:15-11:45AM Tips and Tricks to make TIA-222-G Work for You

Adam Jones, Shively Labs

Noon - 2PM

Joint BTS/AFCCE Luncheon (Salon ABC room)

Keynote speaker:

Peter Doyle, Chief, Audio Division, Media Bureau, FCC

2-3PM

Network Distribution

Session chair: James O'Neal, TV Technology

Peter Doyle
Chief, Audio Division,
Media Bureau
FCC

2-2:30PM Pitch Blue™: A Real Time HDTV Store and Forward Program Delivery System

Robert P. Seidel, CBS Television Network

2:30-3PM CBC's Next Generation Converged Network

Pascal Marcoux, CBC

3-3:15PM Coffee break

3:15-5:15PM Mobile DTV

Session chair: James O'Neal, TV Technology

3:15-3:45PM Service Protection, Conditional Access and Digital Rights Management in Mobile DTV

Systems

Adam Goldberg and Robin Wilson, AGP, LLC

3:45-4:15PM Field trials for Advanced T-DMB Systems

Yun-Jeong Song, Young-su Kim, Hun-Hee Lee, Byungjun Bae, Kwang-Yong Kim, Joungil

Yun, ETRI

(Thursday continued)

4:15-4:45PM Parameters for Coverage Maps of ATSC Mobile/Handheld Digital Television

John Kean, NPR Labs

4:45-5:15PM Service Prediction Modeling for ATSC M/H

Bill Meintel, Meintel, Sgrignoli & Wallace

6-9PM

Manufacturer's reception (Wright room)

Friday, 21 October 2011

8-9AM

Continental breakfast

8:30-11:45AM

DTV Implementation

Session chair: Charles Einolf, Consultant

8:30-9AM Taming DTV Interference to Co-Sited Adjacent-Spectrum Users

S. Merrill Weiss, Merrill Weiss Group, and Greg Best, Greg Best Consulting

9-9:30AM Single Frequency Network (SFN) Experiences in NYC

Jerome David, Thomson Broadcast

9:30-10AM An Overview of the ISDB-T in Brazil

Laisa C. C. De Biase, Marceo G. De Biase, Marcelo K. Zuffo, University of Sao Paulo

10-10:15AM Coffee break

10:15-10:45AM New Results for ISDB-T_B in the VHF Band

Gunnar Bedicks Jr., Renato de Mendonça Maroja, Francisco Sukys, Edson Lemos Horta, Gustavo de Melo Valeira, and Cristiano Akamine, Mackenzie Presbyterian

University

10:45-11:15AM HDTV and 3DTV services over DVB-T2 using Multiple PLPs with SVC and MVC

Cornelius Hellge, Estibaliz Guinea Torre, David Gómez-Barquero, Thomas Schierl, and

Thomas Wiegand, Fraunhofer HHI/Technische Universität Berlin

11:15-11:45AM Update on FCC National Broadband Plan

Bill Meintel, Meintel, Sgrignoli & Wallace

Noon - 2PM

IEEE BTS Awards luncheon (Salon ABC room)

Keynote speaker: Sterling Davis,

Recently retired VP, Engineering, Cox Media Group

2-4:45PM Future of DTV

Session chair: Bill Hayes, Iowa Public TV

Sterling Davis
Recently retired VP,
Engineering
Cox Media Group

2-2:30PM Broadcasting – The Technology and the Medium

Mark Aitken, Sinclair Broadcasting

2:30-3PM Reassessing Short - term Requirements for New Mobile Broadband Spectrum

Steve Crowley, Steven J. Crowley, P.E.

(Friday continued)

3-3:15PM Coffee break

3:15-3:45PM Augmented Data Transmission for the ATSC Terrestrial DTV System

Sung Ik Park, Hyoungsoo Lim, and Heung Mook Kim, ETRI

3:45-4:15PM ATSC 2.0 – What's Next?

Rich Chernock, Triveni Digital

4:15-4:45PM ATSC 3.0 - Next Generation Broadcast Television

James A. Kutzner, PBS