



## Society of Broadcast Engineers Chapter 103 Meeting Notice

Date: **Friday December 4th, 2008** --- Lunch at **11:30 AM** -- Meeting **12:00 Noon**

Location: **Hometown Buffet Meeting Room 2151 Gallatin RD (Rivergate)**

**Lunch Compliments of Rohde & Schwarz, but you need to tell the cashier your are with the SBE**

### Analysis of TV and Mobile TV signals

With the recent adoption of the ATSC II Mobile, Portable and Hand held (MPH) TV standard that utilizes the stations primary digital carrier and the CEA plan to incorporate MPH receiving capabilities into TV sets in 2009 will provide both additional delivery options and additional test and measurement requirements for TV stations.

Deployment of MPH services will necessitate TV stations verify performance of its ATSC II AVC coded signal in addition to its current OTA MPEG-2 8VSB and complimentary cable provider QAM signals. For TV stations this represents a large capital investment for individual test instruments in order to ensure regulatory compliance, address advertisers concerns and consumers complaints regarding signal quality for each of the stations viewing options.

Mr. Tom Jordan, Rohde & Schwarz Broadcast Test & Measurement division, will demonstrate their *new* Universal multi-standard platform solution for the analysis of terrestrial and mobile TV signals. The R&S ETL TV Analyzer has been mainly designed for the commissioning, installation and servicing of TV transmitters, for carrying out coverage measurements on terrestrial TV networks, and for performing measurements on cable systems & head ends.

The ETL includes a full-featured 500 KHz to 3 GHz Spectrum Analyzer with an internal Tracking Generator. The internal TV demodulators all operate in real-time providing baseband outputs and a wide range of TV signal analysis functions including shoulders, constellation, & MER/EVM. In addition to the analog & 8VSB TV standards, the ETL can be optioned to handle DVB-T/H, DTMB, DVB-C (J.83/A/C) digital standards. ATSC M/H measurements will be available once the final standard is available.

An option is also available for comprehensive MPEG analysis and monitoring for both MPEG-2 and H.264/AVC (MPEG-4, level 10).

Spectrum analyzer functions including channel power and adjacent-channel power, frequency counting, power measurement display and noise and phase noise markers make the R&S ETL truly an all-purpose instrument.

Tom will also discuss their just introduced line of broadcast signal generators that support both HD Radio technology and AM/FM/RDS.

**For those desiring a free site survey Tom Jordan will be available Thursday afternoon, Friday morning before the SBE meeting or Friday afternoon following the meeting. Contact Tom to set up a time and day at one of the following.**

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