

ATSC *Digital* Television

8-VSB Transmission System

Fundamentals & Measurement Seminar

Hosted by:



SBE Chapter 5



And:

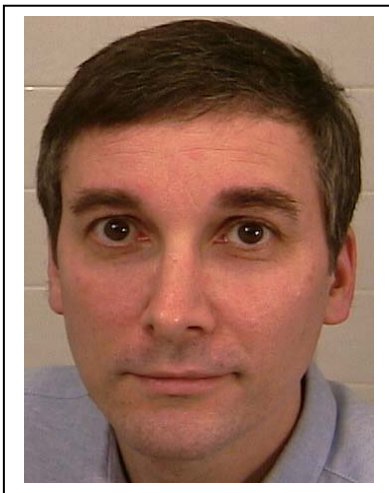
Georgia Public Broadcasting

Thursday & Friday, August 10 & 11, 2006

1:00 pm – 5:30 pm on 8/10/06; 8:30 a.m. to 5:30 p.m. on 8/11/06

Georgia Public Broadcasting Studios

260 14th Street NW
Atlanta, GA 30318



Presented by

Gary Sgrignoli

DTV Transmission Engineer



Meintel, Sgrignoli, & Wallace

Phone: 847-259-3352

E-mail: gary.sgrignoli@IEEE.org

A 1½-day seminar will be presented on the ATSC's digital television (DTV) vestigial sideband (VSB) transmission system *fundamental concepts & measurement methodologies*. This seminar, a combination of the *original* VSB Fundamentals seminar and the *new* VSB Measurements seminar, is aimed at broadcasters, broadcast consultants, equipment manufacturers (broadcast, consumer, & test), translator/LPTV operators, and cable operators. The seminar will help you develop a basic understanding of 8-VSB transmission system basics as well as measurement techniques in the *laboratory*, at a *transmitter* site, and at remote *field* test sites. Practical test equipment information such as features, options, specs, & other performance requirements will be covered. Attendance at this seminar earns one SBE credit towards re-certification, and it can facilitate preparation for the SBE *VSB Specialist Certification* exam.

Sponsors:



The seminar will focus on the following topics:

- **Basic data communication & modulation theory review**
- **8-VSB Transmission System Review**
- **Introduction to FCC channel allocation factors (OET 69)**
- **Basic Measurement Concepts**
 - Power meters
 - Spectrum analyzers
 - Clock frequency & jitter analyzers
- **VSB LABORATORY Measurement Methodologies**
Concepts, equipment requirements, specs, etc.
- **VSB TRANSMITTER Measurement Methodologies**
Concepts, equipment requirements, specs, etc.
- **VSB FIELD Measurement Methodologies**
Concepts, equipment requirements, specs, etc.

Questions?

Contact: **Bill Magliocco**
Turner Broadcasting / WTBS
Phone: 404-885-2178
E-mail: WMagliocco@earthlink.net

Contact: **Mark Fehlig**
Georgia Public Broadcasting
Phone: 404-685-2527
E-mail: mfehlig@gpb.org

Contact: **Gary Sgrignoli**
Meintel, Sgrignoli, & Wallace
Phone: 847-259-3352
Email: Gary.Sgrignoli@IEEE.org

Time for **Q and A** will not only be *allowed*, but **encouraged** throughout the all-day Power Point presentation. In-depth seminar notes and reference material will be handed out to all attendees to take home. **Dinner** (8/10/06) and **lunch** (8/11/06) will be provided. An *optional* measurement equipment demonstration at a VSB transmitter site is included. Dress will be *casual* and the discussion lively !!!

Cost is **\$75** when pre-registered; **\$85** at door

Make checks *payable* to: **SBE Chapter 5**

This seminar is open to the public

Hurry! Enrollment is LIMITED! RSVP soon !!!

Registration Form

Please enclose **\$75** for each registrant; Pre-registration through Thursday 8/3/06.

List names below:

Contact name

1) _____

2) _____

Company

3) _____

4) _____

Address

Method of payment:

Total enclosed

City

State

Zip

Check or money order enclosed *payable* to: **SBE Chapter 5** \$ _____

Phone

Fax

Mail Payment To:

Bill Magliocco (SBE Chapter 5)
P.O. Box 79421
Atlanta, GA 30357

FAX Registration Form To:

404-728-1456 (attn: Bill Magliocco)
WMagliocco@earthlink.net

E-mail Address

(Registration will be verified by e-mail, whenever possible, along with detailed campus map)

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Parking available on site at GPB (nominal charge)

For more information, <http://www.gpb.org/public/about/index.jsp?pcode=directions>

GPB Switchboard: 404-685-2400

FOR "OUT OF TOWN" VISITORS

We have made arrangements with the "[Courtyard by Marriott-Atlanta Midtown](#)" for a rate of \$105/night (plus taxes & fees) during the seminar.

Please contact Lauren Syrios (Senior Sales Manager of the hotel) directly at 404-607-1112 during business hours. This rate is not available on line or through normal reservation channels.

Mention "8-VSB seminar" to get the special rate.

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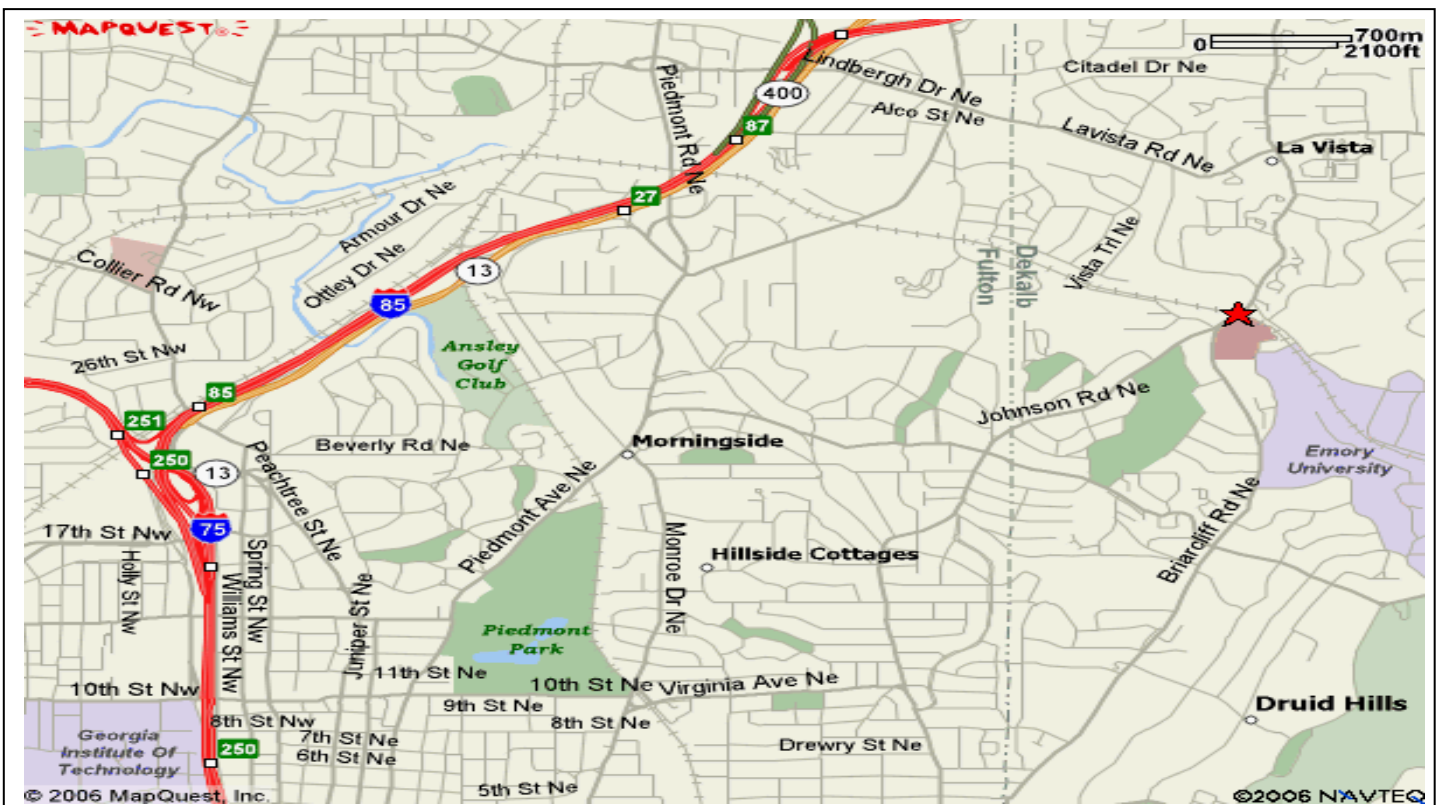
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Optional Transmitter Measurements Demonstration

**Dinner at Richland Tower Site on
Thursday night, August 10, 2006 at 7:00 pm**

**Followed by measurement equipment demonstrations using
live VSB transmitter signals.**

**Richland Atlanta Broadcast Transmission Facility
1800 Briarcliff Road NE
Atlanta, GA 30329**



Free Parking available at Transmitter site

Transmitter Phone #: 404-728-1474