

# ATSC *Digital* Television

8-VSB Transmission System

*Fundamentals & Measurement* Seminar

Hosted by:

The **SBE Chapters in Oregon**



**Friday & Saturday, March 14 & 15, 2008**

**10 am – Finished (6-7 pm) on 3/14/08; 10 am - finished (3-4 pm) on 3/15/08**

**KLSR-DT Studios**

**2940 Chad Drive, Eugene, OR 97408**

**[VSB\\_Seminar@SBE76.org](mailto:VSB_Seminar@SBE76.org)**

*Presented by*

**Gary Sgrignoli**

DTV Transmission Engineer



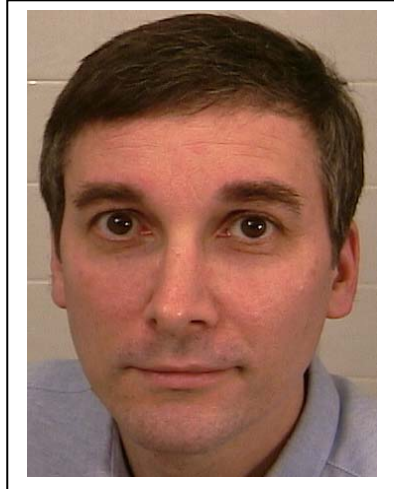
Meintel, Sgrignoli, & Wallace

Phone: 847-259-3352

E-mail: [gary.sgrignoli@IEEE.org](mailto:gary.sgrignoli@IEEE.org)

Sponsors:

**TBD**



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 8-VSB *Specialist Certification* exam.

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: **Larry Bloomfield**  
Bloomfield Enterprises, Inc  
Phone: (541) 902-2424  
E-mail: [VSB\\_Seminar@SBE76.org](mailto:VSB_Seminar@SBE76.org)

Contact: **Gary Sgrignoli**  
Meintel, Sgrignoli, & Wallace  
Phone: (847) 259-3352  
Email: [Gary.Sgrignoli@IEEE.org](mailto: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 (800+ pages) will be handed out to all attendees to take home. **Lunch** will be provided on both **Friday 3/14/08** and **Saturday 3/15/08**. Dress will be *casual*. Information for overnight visitors will be posted soon about reduced rates if this VSB seminar is mentioned.

**Enrollment is limited, so please RSVP soon.**

Cost is **\$65** when pre-registered; \$75 at the door

**This seminar is open to the public**

**Hurry! Enrollment is LIMITED!**

## Registration Form

Contact name

Company

Address

City

State

Zip

Phone

Fax

E-mail Address

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

Please enclose \$65 for *each* registrant; Checks or money orders must be received no later than Friday 3/7/08.

List names below:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_

Method of payment:

Total enclosed

Mail enclosed check *payable* to: **SBE Chapter 76** \$ \_\_\_\_\_

### Mail Payment To:

**Larry Bloomfield**  
**VSB Seminar**  
**1980 25th Street**  
**Florence, OR 97439-9717**

Phone:

**(541) 902-2424**

E-mail:

[VSB\\_Seminar@SBE76.org](mailto:VSB_Seminar@SBE76.org)

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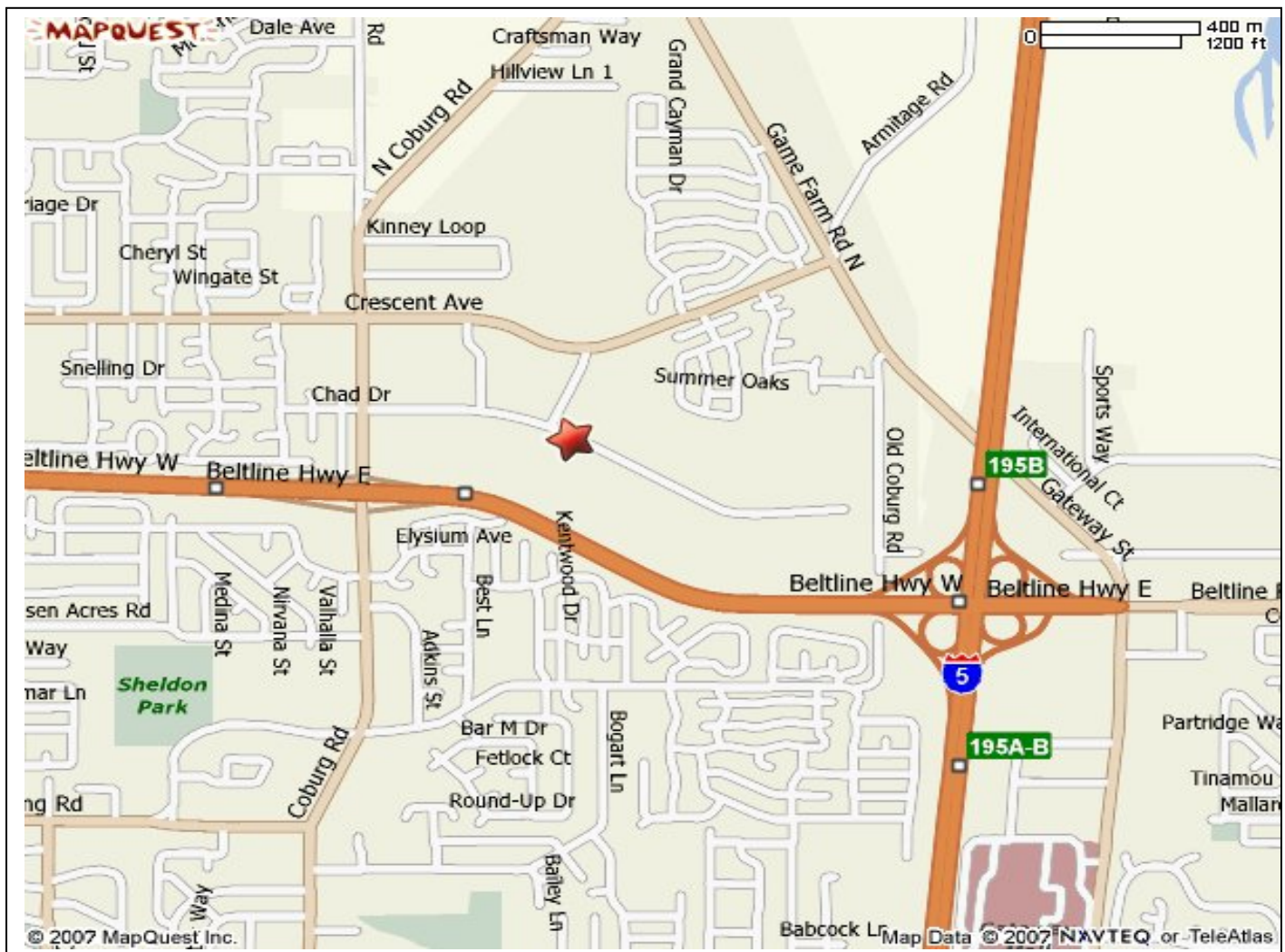
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KLSR sits back from the road, behind Grainger across from KEZI

Free Parking available on site

**KLSR Phone Number: (541) 683-3434**