ZENITH ELECTRONICS CORPORATION

In conjunction with KNPB TV and the Nevada/Northern California chapters of the SBE and SMPTE present

ATSC'S *Digital* VSB TRANSMISSION SYSTEM SEMINAR

Monday, August 20, 2001

8:30 a.m. to 5:00 p.m. KNPB TV Studios

1670 North Virginia Street Reno. Nevada



Presented by

Gary Sgrignoli

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A one-day seminar will be presented on the ATSC's digital television (DTV) vestigial sideband (VSB) transmission system. This seminar is aimed at broadcasters, broadcast consultants, equipment manufacturers, translator/LPTV operators and cable operators. The seminar will develop a basic understanding of the digital VSB transmission system and it's performance attributes. There will be demonstrations of commercial and consumer DTV transmission and reception equipment throughout the seminar.



This seminar is open to the public

The seminar will open with a brief HDTV demonstration, followed by PowerPoint presentations in the morning and afternoon. The following topics will be covered: NTSC and DTV: Past, present and future Basic Data Communication and modulation theory review

Basic Data Communication and modulation theory review Brief ATSC system overview

ATSC VSB transmission system tutorial

VSB lab test plan, methodology and test results

VSB transmitter measurements, ATSC and FCC compliance

Introduction to the FCC channel allocation factors (OET 69)

ATSC cable carriage methodology

ATSC repeater technology (Translators and on-channel repeaters)

- VSB field test plan, methodology and test results
- **DTV receiver improvements**



VSB hardware demonstrations will include: Basic lab test methodology and results Transmitter site compliance and measurements Field test methodology and results DTV receiver improvements



Questions? Contact Fred Ihlow at KNPB TV Phone: 775-784-4555 Email: fred@knpb.org

Time for Q and A will be allowed and encouraged during the Power Point presentation and the hardware demo. Indepth seminar notes and reference material will be handed out to all attendees. A light lunch will be provided. **Enrollment is limited to 60 people, so please RSVP soon.** Cost is \$65 per person. Make checks payable to KNPB. Reno, Nevada has a wide variety of hotels that offer very attractive rates for Sundays through Tuesdays. Hurry! Registration deadline is August 10!

Registration Form			Please enclose \$65 for each participant in the seminar. List badge names below:	
Contact name			— 1)	
Company				
Address 1				
Address 2			 Method of payment Total enclosed: Check enclosed 	
City	State	Zip	Made out to KNPB Visa	
Phone	Fax		— ☐ MasterCard Card number ☐ Discover	Exp. date
D. A			American Express Signature	

Mail to: KNPB TV, 1670 North Virginia St., Reno, NV 89503