

Alster/News

Alster Communications,
LLC

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ACES Salem/Issaquah/Anchorage

The Alster Communications Electronics Showcase for 2009 will be held on Tuesday, Wednesday and Thursday, October 6/7/8, 2009. We have been providing technical training for our customers with the ACES program for over 25 years. We are grateful for the nearly 5,000 customers who have come by!

Technical seminars begin at 8:00 AM and the exhibit area opens at 9:30 AM - ACES concludes about 3:00 PM each day.

Two Technical Tracks

We will present a total of eight technical presentations at ACES this year. Please see pages two and three for a full description.

Salem - Oct 6

We will be at the Red Lion Hotel, 3301 Market Street NE, Salem, OR 97301, 503-370-7888.

Issaquah - Oct 7

We will be at the Issaquah Holiday Inn, 1801 12th Avenue NW, Issaquah, WA 98027, 425-392-6421.



2007 Relm Seminar

Anchorage - Oct 8

We will be at the Embassy Suites, 600 E. Benson Blvd, Anchorage, AK 99503 (907) 332-7000

Free Lunch/Door Prizes

As usual, we will provide a free lunch about noon with a door prize drawing afterward.

Mark Your Calendars

Please take a minute and mark your calendars for either Tuesday, October 6 in Salem, Wednesday, October 7 in Issaquah or Thursday, October 8 in Anchorage.

We look forward to see you at our annual ACES Show. Ω

Wireless Tactical OTAR - Relm

Wireless Tactical OTAR (WTO) capable KNG Series radios provide end users the flexibility to update encryption keys without ancillary equipment, infrastructure or Key Management Facilities. WTO operates radio-to-radio and is

completely contained in the KNG radio units, no additional equipment is required beyond initialization. Users in the field benefit through simple and secure transfer of encryption keys to other authorized units. WTO provides the lowest cost of

entry for OTAR and is ideal for task group operations and as a cost effective solution for small agencies. WTO is compatible with existing repeater networks and is fully complimentary with fielded OTAR/KMF Infrastructure systems. Ω

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ACES Seminar Room A

As usual, we will have three seminars in Room A.

Auto-Tune P25

Our 8:00 AM presentation will be Auto-Tuning P25 portable radios using the Aeroflex 3920. This hands on presentation will go through the process of identifying both analog and digital issues and using the Auto-Tune to fix them.

Live demonstrations will illustrate the process and time involved.

Cloning Radios

Our 10:30 AM seminar will discuss radio cloning using King/BK/Relm LPH, EPH, GPH, DPH, CMD and KNG products.

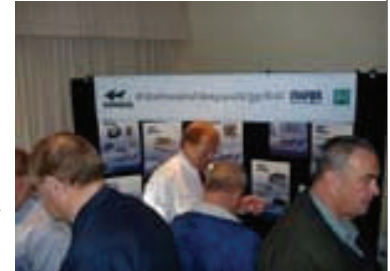
A general overview will review cloning, past, present and future.

Live demonstrations will help answer questions regarding channel and group structure and what does and does not come across when cloning.

Portables

Our 12:45 PM session will be an overview of quick deployment transportable base station and repeater.

Daniels will discuss the general function of a transportable base station and repeater, then describe the four different type and sized transportable products they offer. They begin with a body-wire booster up to a full mountain top search and rescue. Ω



**Bird/TXRX Systems
Booth 2007**

Daniels - Low Current Wins Again

Daniels Transportable Repeater packages are low current too. Here's a comparison between the ET-6 and the Motorola PDR-3500, with the same output power.

Daniels draws .2 amps on standby compared to 3.5 amps for the PDR-3500.

Daniels draws 6.2 amps

on transmit compared to 6.9 amps for the 3500.

At a 10% duty cycle Daniels needs 19.2 AmpHours per day compared to 92.16 for the 3500.

You Choose

Which would you choose for a solar power and battery site?

The choice is pretty simple - the Daniels site would need a 55 watt panel and a 39 A/H battery string. The 3500 would need a 260 watt solar array and 184 A/H battery string.

If I were hiking in, I would certainly buy the Daniels, wouldn't you? Call me with questions. Ω

*Daniels new ET-6
Transportable
Repeater - low
current, low solar
power needs, low
battery needs, low
price - what would
you buy?*

Relm Introduces Vote Scan

The KNG portables by Relm, available in VHF, UHF and 700/800, now offer Multicast Vote Scan.

Vote Scan

Multicast Vote Scan capable KNG Series radios automatically select the best site to operate from in a wide area system. Chan-

nels in the multicast conventional system are added to the scan list and designated as "voted" channels.

The KNG radio scans all voted channels and selects the channel with the best signal. This frees the radio user to focus on the mission at hand, and not radio communication issues as

they roam through the wide area coverage.

Multicast Vote Scan is a factory installed option.

Additionally, the scan list can include non-voted channels, allowing the user to monitor cooperating agencies while roaming. Please call me for more info. Ω



**Multicast Vote Scan
Option for KNG Portables**



ACES Seminar Room B

There will be three seminars in this room too.

RF Personal Safety

This 90-minute presentation begins at 8:00 AM and will cover FCC RF Safety Compliance. It will discuss limits and calculations, measurements and signage.

Using live demo equipment, Narda will show you how to protect yourself and your tower workers from over exposure to RF frequencies.

Spectrum Analysis

This 10:30 AM, 60-minute seminar will use the new, award winning SignalHawk by Bird to illustrate how a handheld spectrum analyzer can be used to ease your daily RF interference issues.

It will also demonstrate how to tune cavities, sweep transmission lines and check for distance to fault using one, handheld device.

Live demonstrations.

Copper/Fiber Testing

The 12:45 session is a 90-minute discussion of Ethernet and Fiber testing from a handheld viewpoint.

The discussion, lead by EXFO, will include in home or business testing back to the source. Problems discussed will include POTS testing, VDSL2 and ADSL2+ testing. Products will be on display in the exhibit area.

Seminar will not be given in Anchorage. Ω



Bird/TXRX Systems Seminar 2007

EXFO AX635 - Triple Play

Two exclusive EXFO AX635 features are Single Ended Testing which allows the loss of a circuit for all ADSL and VDSL2 frequencies to be measured from one end of the line.

It can be used as a provisioning test and for fault-finding to allow the technician to verify that a circuit will support the required

data rate. The attenuation measurement can be used to detect bridged taps and other problems on the loop that may cause poor frequency response in the operational bandwidth of the service.

Spectral Detective Troubleshooting is a test that measures noise from interferers on a live circuit with-

out disconnecting the user's modem.

It helps identify noise in the ADSL or VDSL2 bands causing lower than expected data rates. If the noise signature is identifiable as a specific service (TI, ADSL, etc), then it will be displayed with its level to aid the technician in locating it. Call for more info. Ω

EXFO has some distinct features which separates their handheld copper testing unit from the others

Larsen - Spots vs. Kulduckie

Do you know the difference between the Larsen SPOTS rubber duck and the Kulduckie? It has to do with frequency and the choice is yours.

SPOTS

SPOTS are a direct replacement for many OEM, broadband, rubber duck

antennas and broadband tuned. They are available in VHF, UHF and 800 MHz. You can actually ask for a color, for example, an Orange spot at the top of a SPOTS means 150 to 162 MHz. A Yellow dot means 432 to 468 MHz. They are available with 90 degree angle connection, SMA, Half

Wave, Helical Short, etc.

Kulduckie

The Kulduckie antennas are center frequency tuned. They are also available in VHF, UHF and 800 MHz with a variety of connectors.

Call if you need a sample antenna to play with. Ω



Rubber Duck Antennas by Larsen



Raytheon/JPS - Available Software

Be sure your ACU software is up to day by going to the Raytheon web site for free downloads.

<http://www.raytheon.com/>

[businesses/ncs/civilcomms/firmware/](http://www.raytheon.com/businesses/ncs/civilcomms/firmware/)

ACU Simulator (used with the ACU-2000 IP, ACU-1000, ACU-T products)

ACU Controller Software (ACU-2000 IP, ACU-1000, ACU-M, ACU-T)

ACU-M Software Upgrade (ACU-M)

ARA-1 Software Upgrade (ARA-1)

CPM-3 Module (SNV-12)

CPM-4 Module (ACU-1000, ACU-T)

CPM-6 Module (ACU-2000 IP)

DSP-2 Module (ACU-1000, ACU-T)

DSP-2 IP Module (ACU-2000 IP, ACU-T)

ETS-1 Software Upgrade (ETS-1)

MacNXU (ACU-2000 IP, ACU-1000, ACU-M, ACU-T, NXU-2A, NXU-2)

NXU Setup Utility (NXU-2A, NXU-2)

NXU-2 Software Upgrade (NXU-2)

NXU-2A Software Upgrade (NXU-2A)

PCNXU (ACU-2000 IP, ACU-1000, ACU-M, ACU-T, NXU-2A, NXU-2)

SCM-1 Module (ACU-2000 IP)

SCM-2 Module (ACU-2000 IP) Ω

ACES In October

Mark your calendars for October 6/7/8, 2009. Here are the dates and locations where we will hold ACES:

Tuesday - October 6

Salem, OR

Wednesday - October 7

Issaquah, WA

Thursday - October 8

Anchorage, AK

We will have technical seminars, new products in the exhibit area, a free lunch and lots of door prizes. So, come to learn and have a chance to win. You will enjoy yourself at ACES meeting your colleagues and learning something new. Ω



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