

Alster News

ACES – Boise-Helena-Spokane

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The Alster Communications Electronic Showcase (ACES) will travel from Boise, Idaho, to Helena, Montana then to Spokane, Washington on October 4, 6 and 7.

Our founder, Russ Ellsworth, started the ACES Show about 20 years ago using a motor home full of demonstration equipment and a seminar room at a hotel or government facility. Basing the show on technical seminars and demonstrations, ACES soon became a sought after venue for customers and factory people to meet and exchange ideas.

For the past 18 years, ACES has moved from the Westside of our territory (odd years) to the Eastside of our territory (even years). Next year we will have two ACES. In February, we will go to Hawaii for the first time and in October we will make our normal swing through Oregon, Washington and Alaska.



Acterna Seminar 2003

will have 30-minute seminars from Bird Electronics on line sweeping, Times Microwave on cables and connectors, Otto Communications on audio accessories for portable radios and DC AirCo on DC powered air conditioning for buildings and vehicles.

Exhibits

We will have antennas, antenna analyzers, audio accessories, base station radios, cables, cavities, DC air conditioners, duplexers, microwave antennas, mobile radios, multicouplers, outdoor warning sirens, pagers, portable radios, service monitors, signal boosters and T1 testers. Ω

Seminars

This year we will have 90-minute seminars from Aeroflox/IFR and Relm Wireless/BK. We will have 60-minute seminar from Gabriel regarding FCC Microwave Licensing issues and Peninsula Engineering on Microwave Repeaters. We

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Special Pricing and Discounts

As a thank you for attending ACES, several of our factories are providing special prices and discounts for orders placed at the show. Here are some examples:

Acterna - 5%

Bird - 5%

Concept Seating - Neck Roll

Multiplier - 5%

Survey Technology - 5%

These factories will apply these discounts to orders that are placed at ACES. They will also apply to orders placed as a result of ACES attendance and submitted through the end of October.

We are looking forward to seeing you at ACES in Boise - Helena - Spokane. Ω

Seminar Room A

The mainstay of ACES is technical seminars. These seminars are given by people who actually know how they work (not sales managers - in most cases).

Digital Programming

Our first seminar in Room A will begin at 8:00 AM and is the Relm Wireless/BK seminar on their digital portable and mobile product. Gary Kessler will provide technical secrets to programming and repair of the DPH portable. He will address the new 136 to 174 MHz version and field upgrades to DES and AES. He will discuss the upcoming P-25 trunking option and digital mobile.

Line Sweeping

Our next seminar in Room A will be held

at 10:30 AM. Peter Craven from Bird Electronics and Tony Fedor from Times Microwave will present line sweeping techniques for antenna match, distance to fault and power. They will also demonstrate test sweeps on cable with "cheap" connectors and compare them to "better" connectors. The results will impress you.

Digital Radio Repair

The final seminar in Room A will start about 1:15 PM. Mike Fortna from Aeroflex will discuss the actual Digital Waveform and what really happens when one radio talks to another. Then they will go through the testing process of digital base, mobile and portable radios. They will demonstrate the new auto test feature on the popular 2975. Ω



Aeroflex Table 2003

Times Microwave - Hi Spec SilverLine Jumpers

Times Microwave announces its new heavy-duty armored *SilverLine™* Test Cable series for field and production test applications. *SilverLine™* Test Cables offer better phase stability with flexing and greater ruggedness.

These durable cables employ a steel reinforced flexible outer armor covering to resist cut-through and abrasion, passivated stainless steel connectors, a rugged solder/clamp attachment and multiple-layer strain relief boots.

Armored *SilverLine™* Test Ca-



bles are available with SMA-male and female, N-male and female, 7-16 DIN male and female, SMA right angle, 7mm connector and QMA options for use up to either 6 GHz or 18 GHz.

Demonstrated at ACES

These cables will be part of the Line Sweeping seminar at the 2004 ACES. You can find these cables in stock for immediate shipment at Tessco. Frigid North, Hutton, Primus and Talley can also get them for you. Ω

Times Microwave has a competitive response to the Tensolite's Workhorse™ cables with SilverLine™

Multiplier Primary Lithium Batteries

Multiplier provides PRIMARY LITHIUM batteries for extended and emergency operations. They are ideal for extended use in the field when chargers aren't convenient. They are also great for critical emergency situations.

Multiplier uses only the highest performing Sanyo cells. These PRIMARY LITHIUM batteries are lighter, and maintain longer duty cycles than alkaline batteries.

Multiplier's non-rechargeable PRIMARY

LITHIUM batteries have a shelf life of 10 years and are proudly made in U.S.A.

Primary Batteries

MKNB-15LI - Kenwood TK-260, 1800 mA
M838P3-LP - MA/COM MRK, 3900 mA
M4595-LP - Motorola Saber, 4200 mA
M7144-LP - Motorola HT1000, 4200 mA
M8294-LP - Motorola XTS, 4200 mA
M9012-LP - Motorola HT750, 4200 mA

Please call your local dealer, your distributor or me for pricing. Ω



HT 750 Primary

Seminar Room B - Note New Schedule

We have had a change in Seminars for Room B. The Acterna T1/T3 seminar has been replaced by Peninsula Engineering.

Audio Accessories

Our first seminar in Room B will begin at 8:00 AM with a 30-minute presentation by Mark Skummer from Otto Communications. He will demonstrate a variety of audio accessories for portable radios.

DC Air Conditioning

The next seminar will start about 8:40 AM with a 30-minute seminar by Sue Merrill of DC AirCo on DC powered air conditioners for buildings and mobile applications.

FCC - Microwave

At 10:30 AM Colin Robinson of Gabriel will discuss FCC Licensing issues and provide a general discussion on how to choose a microwave antenna.

Microwave Repeaters

The final seminar in Room B will be at 1:15 PM. Ed Johnson from Peninsula Engineering will discuss AC, DC and Solar Powered Microwave Repeaters from and their applications.

This discussion will include the criteria and practical engineering used to determine the need for a repeater. Please call me with any questions you may have. Ω



Lunch ACES 2003

New WISP Antennas by Maxrad

Maxrad introduces a new sector panel antenna for the Wi-Fi and WiMAX unlicensed bands for WIPOP installations. The MSB2401690 shaped beam sector panel antenna - utilizes pattern shaping technology to allow contoured coverage and optimal signal performance within the desired propagation area with 16 dBi gain at 2.4 to 2.5 GHz and outstanding front-to-back ratio of more than 28 dB.

Also new, the WISP24017MBH is a 2.4 GHz horizontally polarized sector panel antenna that offers user selectable horizontal

beamwidth options of 45°, 60°, 90° or 120°, and up to 17 dBi gain. Its front-to-back ratio of over 30 dB at 120°, 90° or 60°, and over 26 dB at 45° ensures that the radiated energy is targeted towards the area of coverage, while a typical cross-polarization discrimination of over 26 dB ensures minimum interference from neighboring vertically polarized antennas.

The WISP28016MBH horizontal and WISP28016MBV vertical polarized sector antennas provide adjustable horizontal beamwidth options of 90° or 60°. Ω

*Maxrad Introduces
adjustable
beamwidth
antennas for Wi-Fi*

SunWest Delivers Skid and Trailer Mounted Shacks

SunWest Engineering custom manufactures cabinets and trailers to house wireless communications equipment. They specialize in the design and manufacture of either skid, truck or trailer mounted applications.

You can check them out on the web at www.sunwesteng.com where you will find 1-bay to 10-bay cabinet designs. All you need to do is tell them what you want. Do you want 120, 240 or 480 volt AC? How about - 48, 24 or 12 volt DC? They design and build

to your specifications.

What size back-up generator do you need? How about the brand of air conditioning (we hope you choose DC AirCo) you need or the size or equipment racks? They will build it for you.

They can even put their Cell-On-Wheels on a Ford F-650 with telescoping antenna and satellite dish. Please give me a call with your specifications and we'll develop a quotation just for you. Ω



SunWest Skid or Trailer Mounted Buildings

802.11 - Do You Know What It Means?

Wireless Internet is everywhere. You can get it at hotels, coffee houses and at work. But, do you have the slightest idea of what 802.11 means? Here is what I know.

802.11a

802.11a - the data speed is 54 Mbps on 5.8 GHz, it has 12 non-overlapping channels which may go to 20. This is designed for high-density applications and is not backward compatible with 802.11b. However, it has 5 times the throughput compared to 802.11b.

802.11b

802.11b - the data speed is 11 Mbps on 2.4 GHz, it has 3 non-overlapping channels. This is designed for low density applications such as local area private and public use, hot spots, universities, banks, etc. 802.11g - the data speed is 54 Mbps on 2.4 GHz, it has 3 non-overlapping channels and is back-

ward compatible with 802.11b.

802.11e

Newer technology will be coming with 802.11e (multimedia) and 802.11i (higher security). More information will be available at our ACES 2004 Show

ACES 2004

Boise, October 4 - Helena, October 6 and Spokane, October 7.

ACES Hawaii 2005

The "ACES Show" will be coming to Hawaii on February 3, 2005. It will be held at the Ala Moana Hotel and Convention Center. For more information on any ACES Show location, please call me. Ω

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