JUNE 2 • 3 • 4, 1989



HAM CONVENTION

Seaside Convention Center Seaside, Oregon



Presented By
OREGON TUALATIN VALLEY AMATEUR RADIO CLUB
an ARRL Special Service Club







THE FUTURE OF AMATEUR COMMUNICATIONS

ICOM's pacesetting IC-781 combines futuristic designs and features of truly legendary proportions to create "The New Frontier." Whether DX'ing, contesting, pioneering new interests or enjoying unquestionable top-of-the-line performance, the IC-781 is indeed today's standard of excellence!

MULTI-FUNCTION FIVE INCH CRT. Displays frequencies, modes, memory contents, operating notes, RIT, two menu screens, plus a panoramic view of all signals in a selected range. Even displays data modes like RTTY, AMTOR and PACKET!

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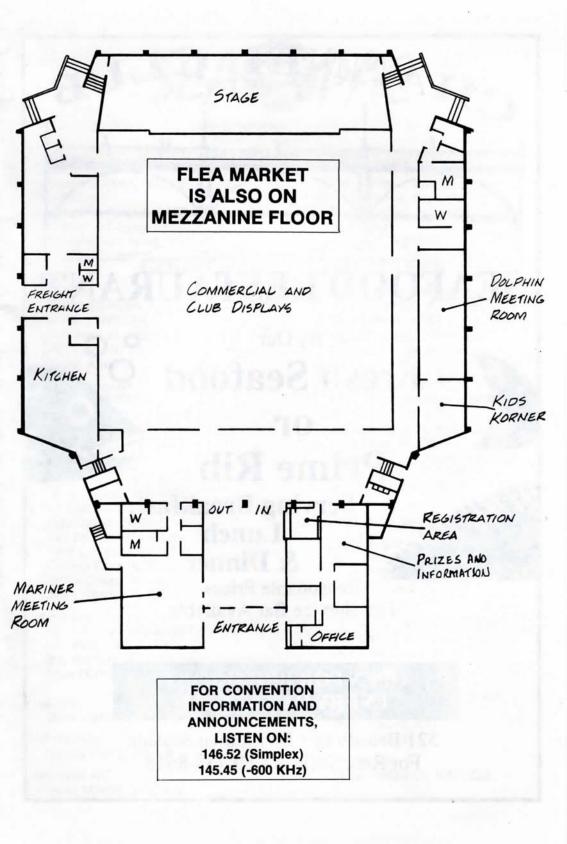
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Ladies' Programs

Saturday, June 3

9:30 a.m., Huntley Inn Meeting Room #125

Ladies' Hospitality Suite-Coffee, Treats and Friends, old and new.

10:00 a.m., Huntley Inn Meeting Room #125

Tips For Your Dilemmas With Medicare and Insurance Claims, presented by Peggy Till, KB7FZL. Question and Answer Session (come prepared with questions and writing materials).

11:30 - 2:30 p.m., Ladies Luncheon & Program - Shilo Inn Dolphin # 2 & 3

Featuring: Grace Cornutt and Barbara Olson, presenting

CONTEMPO FASHIONS - JEWELRY & SCARVES

Jewelry purchases and orders can be made all day long in the Ladies Hospitality Suite.

3:30 p.m., Huntley Inn Meeting Room # 125

Handwriting Analysis, presented by Hazel Billings. Hazel is a Scientific Graphic Analyst with 20 years experience.

All Day Saturday: Ladies' Treasure Hunt, Sponsored by the Seaside Chamber of Commerce

Sunday, June 4

9:30 a.m., Huntley Inn Meeting Room # 125 Ladies Hospitality Suite—Coffee, Treats and Friends

Prizes Furnished By:

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SPECIAL EVENTS WILD WEST CASINO NIGHT

Friday, 7:30 p.m.: Social Casino Night at the Seaside Elks Lodge. An evening of fun and exciting "No Stakes" gambling. Test your ability at Blackjack, Roulette and Craps. Snacks and no host bar also available.

VE TESTING

Saturday, 9:00 a.m.: Our Savior Lutheran Church. Right across the street from the Convention Center. Pre-registered only at this session.

Saturday, 1:00 p.m.: Same Location. Walk-ins, as space is available. Fee for either session is \$4.75 payable to ARRL/VEC. Be sure to bring your original license, a photocopy of your license and a completed FCC Form 610.

LADIES' LUNCHEON

Saturday, 11:30 a.m. Shilo Inn Dolphin Rooms 2 & 3. Cost is \$7.00. Due to limited space, this luncheon may be sold out.

QCWA LUNCHEON

Saturday, 12:00 Noon: Shilo Inn Whale Rooms 1 & 2. Cost is \$7.00. Due to limited space, this luncheon may be sold out.

ORRC MEETING

Saturday, 1:00 p.m.: Town Center Mall (Broadway & Edgewood), Upstairs Meeting Room.

BANQUET

Saturday, 7:00 p.m.: Convention Center Main Floor. Doors open at 6:45. Featuring: E. E. Van Valkenberg, Chief Communicator on Air Force One and the Honorable Greg Milnes, W7AGQ, Master of Ceremonies. Due to limited seating this function is sold out.

NO-HOST BREAKFAST

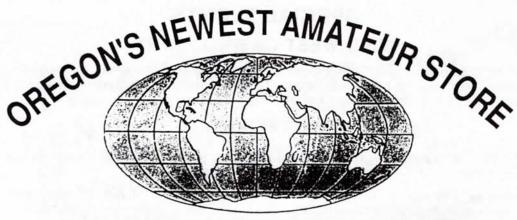
Sunday, 7:30 a.m.: Convention Center Main Floor. This is a sit-down, catered meal. Cost is \$5.00. Latecomers may not be served, as the room must be cleared by 8:45.

KIDS, KRAYONS AND KARTOONS

Saturday 9:00 a.m. - 4:30 p.m. • Sunday 9:30 a.m. - 12:00 Noon.

Supervised entertainment for children at the Kids Korner (Sea Mist Meeting Room).

We apologize, but the food catering services do not offer a child's portion for any of the meal functions.



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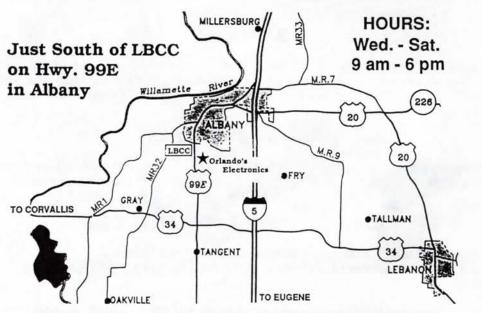
Seaside 6/2, 3, 4/1989

8/19, 20/1989





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MONITOR STANDS





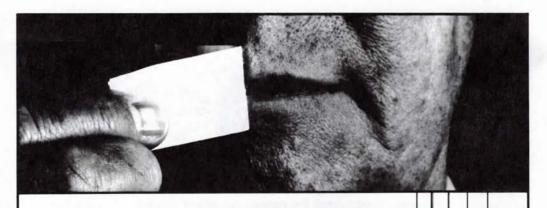
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Speaker Topic Information

Amateur Radio and Astronomy. Sandy Mikalow, K7OOZ, will outline the use of radio (remote) control of an astronomical telescope and digital imaging equipment. Using these techniques and equipment astronomical images can be made remotely from the home of a radio amateur. He will discuss equipment, technique, and operation. He will also show some very interesting astronomical scenes.

Integration of RACES/ARES into Government. Jan Smith, KB6WJZ, is an administrative assistant in the Office of Emergency Services for Ventura County, California. She will speak on "The Integration of RACES/ARES into Government." She will share ideas to begin and maintain relationships between radio volunteers and government.

DXing: Beginning and Intermediate. The Hon. Greg Milnes, W7AGQ, will speak on beginning and intermediate "DXing." Greg is an experienced and resourceful DX chaser.

QRP Field Day. Roy Lewallen, W7EL, will share his "QRP Field Day" secrets on antennas, power sources, operating techniques and many other related topics. "Backpackable" gear will be emphasized, but there will be plenty of good tips for QRP field day operators. Roy has been licensed since 1957 and has made electronics his career. He has also published technical articles in *QST* and other ARRL publications.

Operation of a QSL Bureau. James (Jim) Boland, W7GUR, is a member of the Willamette Valley DX Club. He is currently chairman of the District 7 QSL Bureau. He will discuss the operation of the Bureau.

ARES Forum. Bob Dorman, KV7F, Oregon's recently-appointed Section Emergency Coordinator, will lead a panel of three others on Amateur Radio Emergency Service (ARES). This is for Emergency Coordinators and Assistant Emergency Coordinators or those wanting to hold these positions.

Coaxial Cable and Feedline Hardware. Dave Phemister, WB7ESV, will speak to the topic of "Coax Wars—Don't Fight 'em!" He will shed some light on the mysteries of many of the popular types of feedlines. He will provide helpful tips on the types of coax to select for the frequencies and weather conditions encountered and the proper use of connectors and other feedline hardware.

The Latest on Packet Communications. Doug McMurdo, W7XI, will give a seminar on advanced packet radio communication. This will include the latest happenings in the Northwest.

AMSAT. Joseph (Joe) Holman, KA7LDN. Joe will speak on AMSAT, the amateur communications satellite organization.

Useful Homebrew Projects. Dr. Al Chandler, K6RFK, will share his expertise in the area of useful home brew projects for the radio amateur. He has a professional background in digital and analog circuits. He is also an experienced speaker.

Continued

Getting the Most for Your Service Dollar. Mark Allen is the service director for ICOM North America.

Digital Communication Modes. Ernie Austin, W7AXJ, will present a video entitled "What are Those Crazy Sounding Signals Saying?," followed by a question and answer period. Topics include computer generated and decoded slow and high speed CW, RTTY (radio teletype), AMTOR, ASCII, and packet modes. Ernie has been licensed since 1922 and worked in communications until 1970.

Antennas, Etc. Kenneth G. Kopp, KØPP, who was until recently ARRL Section Manager for Montana, will speak on an antenna related topic.

Antennas from Junk and Stuff. Mark Walker, W7CLU, will cover the general topic of low cost HF and VHF antenna construction. Grow your own antenna farm on a budget. Technical level spans NOVICE class through EXTRA class. Currently Mark is president of Amateur Radio Relay Group, a large local (Western Oregon) repeater organization. He is able to impart information and enthusiasm to new and old hams alike!

Fast-Scan TV Equipment and Operation. Charles (Chuck) W. Northcutt, W7SRZ, will give a seminar on fast scan TV (FSTV). He will discuss equipment, techniques and operation.

Basic SWR. Ken Glanzer, K7GCO, tackles one of those very useful, but often misunderstood, RF measurement techniques namely "Basic SWR." Attend this ses-sion and impress your friends with your sizable, newfound knowledge on the topic. Ken has made numerous technical contributions in the area of amateur radio antennas and continues sharing his experience via articles and presentations.

Homebrew Projects with Components Acquired at Flea Markets. Jeff Damm, WA7MLH, who is an electrical engineer and is employed as a microwave circuit designer, has had 15 years of experience building homebrew equipment. He will talk on dos and don'ts of initiating and completing a home brew project. His specialty is doing a project using materials picked up at (radio amateur) flea markets!

SHF Operation. Tom Hill, WA3RMX, will give a seminar on operation in the 47 GHz band. He, with others, holds a new world distance record for that frequency.

Fast Scan TV Spectrum Management. John White, K7RUN, will give a seminar on spectrum management of fast scan TV (FSTV).

A Primer on Packet Radio. Mike Dunlop, K7YMU, will discuss "An Introduction to Non-Wire Digital Communications Systems," (A primer on digital packet). This is a different perspective on packet radio.

Project Organization for Amateur Radio Clubs. Russ Dedrickson, WA3FBU, will speak on (amateur radio) clubs' project organization. His seminar has been developed to provide guidance for club project/program managers in the development of definition, purpose, resources, methodology, execution, and evaluation of club programs and projects.

Banquet Speaker:

Earl E. Van Valkenberg, CMSgt., USAF (Ret.)

Chief Master Sergeant Earl E. Van Valkenberg has lived in the Northwest since 1942, and he currently makes his home in Vancouver, Washington. Van is recently retired after 37 years and 3 months of military service. His career in the military included enlistments in both the Navy and the Air Force and spanned a wide range of times and places, starting with nine months' service at the end of World War II. He also served 18 months in Korea in 1951 and 1952, the Santo Domingo uprising, and 27 months in Viet Nam between 1964 and 1966. His last duty assignment was on Air Force One, the Flying White House, as Chief Communicator. From this duty station, his call sign was AF40. Aeronautical Mobile.

As Chief Communicator, Van was responsible for all communications to and from Air Force One. This included such duties as ensuring that the President had at least one clear secure channel at all times, regardless of location or conditions. He flew with all of the U.S. Presidents, starting with Richard Nixon. He also flew with Vice Presidents, Secretaries of State, Cabinet officers, Congressmen, other heads of state and celebrities such as Bob Hope. His flights have taken him all over the world, including the People's Republic of China and the Soviet Union.

Van will discuss how he came to be Chief Communicator, his duties and experiences on Air Force One, and other 'behind the scenes' White House activities. Ample time will be available for questions. During his previous talks at other events, he's never had to not answer a question because of classification restrictions.



Although he is retired, Van has continued to consult with the designers and engineers preparing the new Boeing 747 Air Force One airplanes. His practical experience has resulted in several communications system design changes. His varied hobbies are as interesting as his military career. He is a sky diver, and he has made over 2041 free-falls. Nine of these have been from 40,000 feet. He has participated with the HALO Skydiving Team. His other interests include roller skating, water and snow skiing.

SEA • PAC 1989 Schedule

Friday, June 2 P.M. 7:30

SEASIDE ELKS LODGE

Wild West Casino Night

An evening of fun, "No Stakes" Gambling, snacks, excitement and prizes.

CONVENTION CENTER

Mariner Room **Dolphin Room** 9:30 Amateur Radio & Astronomy Sandy Mikalow, K700Z Saturday. June 3 A.M. 11:00 Operation of a QSL Bureau Jim Boland, W7GUR **ORP Field Day** Roy Lewallen, W7EL 12:00 Lunch Break 1:00 Latest on Packet Communication Doug McMurdo, W7XI Joe Holman, KA7LDN Saturday. June 3 P.M. 2:30 **Useful Homebrew Projects** Getting the Most for Your Service Dollar Dr. Alan Chandler, K6RFK Mark Allen, ICOM 4:00 Antennas from Junk & Stuff Mark Walker, W7CLU 4:30 Exhibits Close. Banquet room opens at 6:45; Banquet at 7:00 9:30 Home Brew Projects with Components SHF Operation Acquired at Flea Markets Tom Hill, WA3RMX Sunday. Jeff Damm, WA7MLH June 4 A.M. 11:00 Project Organization for Amateur Radio Clubs Russ Dedrickson, WA3FBU

1:00 Grand Awards, Main Exhibit Room. Convention Closes, 2:00 P.M.

of Seminars and Activities

Registration: Friday, 11:00 a.m.-8:00 p.m. Saturday 8:00 a.m.-4:30 p.m.

Sunday 8:30 a.m.-Noon

Exhibits & Flea Market: Saturday 9:00 a.m.-4:30 p.m. Sunday 9:30 a.m.-1:30 p.m.

Kids, Krayons & Kartoons: Saturday 9:00 a.m.-4:30 p.m. Sunday 9:30 a.m. - Noon

Our Savior Lutheran Church

(See Special Events page for details.)

SHILO INN

Whale 3

Dolphin 1

Integration of RACES/ARES into Government Jan Smith, KB6WJZ

DXing: Beginning and Intermediate Hon. Greg Milnes, W7AGQ

Coaxial Cable & Feedline Hardware Dave Phemister, WB7ESV

9:00 VE Exams. Preregistered only.

A Forum on ARES Bob Dorman, KV7F

QCWA Luncheon: Whale #1 & 2; Ladies Luncheon: Shilo Inn Dolphin #2 & 3

Digital Communication Modes Ernie Austin, W7AXJ

Fast Scan TV Equipment and Operation Chuck Northcutt, W7SRZ

Antennas, Etc. Ken Kopp, KOPP

Basic SWR Ken Glanzer, K7GCO 1:00 VE Exams Walk-ins as space allows

1:00 ORRC Meeting. Town Center Mall (upstairs)

Fast Scan TV Spectrum Management John White, K7RUN

A Primer on Packet Radio Mike Dunlop, K7YMU

7:30 No-Host Breakfast Convention Center



7WWWW

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FSTV-430 Fast Scan Television Transceiver



The new FSTV-430 fast scan television transceiver from AEA makes getting on ATV easy and inexpensive. Almost any video camera (including camcorders with a video output jack) can be used. Plug the camera into the FSTV- 430, and connect to your 70 cm antenna. Use a standard television for displaying received signals, and you're on the air. Of course, using an amplifier will add range to your signal.

AEA engineering standards of high performance are evident in this new transceiver. The FSTV-430 has a sensitive UHF GaAsfet preamp with a crystal controlled, or variable tuning, downconverter and IF filter. Output is available on channel 3 or 4 for signal recep-

tion. The transmitter in the FSTV-430 uses a VSB (Vestigial Side Band) design to minimize adjacent channel interference. Two frequencies can be selected for transmission (one 434 Mhz crystal is included). Signal output is one watt p.e.p..

Any amateur with a technician class (or higher) license can join the fun of ATV. The FSTV-430 can transmit in either black and white or color. The portable, lightweight FSTV-430 trans-ceiver can be used for in station or on the go operation from any 12 VDC source. You can even connect your VCR for transmission of video tapes.

Contact your local AEA dealer today for more information about the AEA FSTV-430.

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P.O.Box C-2160 Lynnwood, Washington 98036 USA 206-775-7373

Exhibitors

Portland Computer Accessories, Portland, OR Smiley Antenna Co. Inc. El Cajon, CA EPO Software, Vancouver, WA Advanced Electronic Applications, Lynnwood, WA Amateur Radio Supply, Seattle, WA Amateur Radio School, Fullerton, CA Antenna Systems Inc. Tigard, OR C-COM. Seattle, WA Curley's Engraving, Portland, OR H. Stewart Designs, Oregon City, OR Hats For Hams, Pomona, CA IC Systems Northwest, Salem, OR ICOM of America, Bellevue, WA Portland Amateur Radio Club, Portland, OR Judy's Jewelry, Springfield, OR Multi-Band Antennas, Canoga Park, CA N7CTY Ham Programs, Cornelius, OR Nuts & Volts, Placentia, CA Orlando's Electronics, Tangent, OR Portland Radio Supply, Portland, OR Quarter Century Wireless Assn. Eugene, OR R&J Fail Enterprises, Riverside, CA The DX Magazine, Fulton, CA U.S. Army MARS, Portland, OR Young Ladies Radio League, Portland, OR American Radio Relay League, Newington, CT City Of Roses 10-10 International, Portland, OR Reno Radio, Reno, NV Larsen Electronics, Vancouver, WA Oregon Tualatin Valley Amateur Radio Club, Beaverton, OR Mr. Nicad, Sauk City, WI Alinco Electronics, Torrance, CA AMSAT, Seattle, WA Celwave/Rohn, West Linn, OR Gene Hansen Co., Corrales, NM William M. Nye Company, Bellevue, WA St. Helens Electronics, St. Helens, OR RLD Research, McCloud, CA Value Software, Portland, OR Falcon Communications, Newport, CA

Sunset Empire Amateur Radio Club, Astoria, OR

NOTE: Due to publication deadlines, we apologize if any of our exhibitors are not included in the above listing.



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GRAND PRIZE DRAWING

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ICOM IC-735 HF Txcvr.
KENWOOD TM-221A 2m. Mobile
AEA 10 METER Handy DX Talkie
AEA PAKRATT PK-232 TNC
ICOM u2-AT 2m. HT
KENWOOD TH25-AT 2m. HT

LARSEN Mobile Antenna of your Choice (2 Awarded)

SPECIAL "IRS" PRIZES

(all 3 awarded)

ASTRON RS20 Power Supply BEARCAT BC 50XL Scanner FLUKE 77 Multimeter

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Maximum Wind Speed and Direction Indicator

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Hourly Drawings

Winning numbers will be posted on the stage as well as in the lobby. The numbers will remain posted for two hours to enable those of you attending seminars the time to see if luck is with you. Prizes not claimed after two hours will be redrawn later. Winners, please collect your prizes in the Prize Room. The hourly prizes are donated at no cost to the convention. Please, express your personal thank you to the commercial exhibitors as you visit their booths.

Special "IRS" Prizes

"I Registered Speedy"

The "IRS" prizes are a courtesy in appreciation to those who have registered by April 15, 1989. Quite a large amount of money is required, early on, to pay the advertising printing and postage costs. Early registrants are benefactors to any event of this kind and a reward is fitting. Good luck to those who can say "I Registered Speedy."

Banquet Prize

These prizes are available to those who attend and pay for the dinner. The drawing is a special incentive provided by the convention. It is a fitting finale to an entertaining evening.

Grand Prize Drawing

You need not be present to win! If you are a winner, your prize will be shipped to you. We will attempt to keep the drawing time to one hour. These prizes are purchased at or below cost, from the dealers and manufacturers. We take this opportunity to express our appreciation.

GOOD LUCK TO YOU ALL!!

Contributors

E. E. Van Valkenberg, Banquet Speaker
Jim Walsh, W7LVN, QCWA Secretary
Doc McLendon, W7GWC
Randy Stimson, KZ7T, Oregon Section Mgr.
Greg Milnes, W7AGQ, Banquet M.C.
BS Typo-Graphics, Portland
Canyon Printing, Beaverton
Seaside School District, Seaside
Seaside Safeway, Seaside
Seaside Elks Lodge, Seaside
Seaside Chamber of Commerce, Seaside
Arnie Schumacher, Graphic Artist, Logo Design
Ron Mayer, K7BT, Printing

Seminar Speakers

Mark Allen, ICOM Ernie Austin, W7AXJ James Boland, W7GUR Dr. Alan Chandler, K6RFK Jeff Damm, WA7MLH Russ Dedrickson, WA3FBU Bob Dorman, KV7F Mike Dunlop, K7YMU Ken Glanzer, K7GCO Tom Hill, WA3RMX Joseph Holman, KA7LDN Ken Kopp, KØPP Roy Lewallen, W7EL Doug McMurdo, W7XI Sandy Mikalow, K7OOZ The Hon. Greg Milnes, W7AGQ Charles Northcutt, W7SRZ Dave Phemister, WB7ESV Jan Smith, KB6WJZ Mark Walker, W7CLU

John White K7RUN

REGISTRATION BADGES

Since all committee members are required to register, we also ask that everyone in attendance be registered. Please wear your registration badge while in the convention center. By doing so, you can help us avoid embarrassing situations at the entrance. Lost or forgotten badges are a source of grief to us and, worse, to you. We would like to see no problems and, quite surely, neither would you. Thanks in advance, for your cooperation!

WHO'S IN CHARGE?

If you have a question or a problem, look for one of the SEA•PAC committee members wearing the bright yellow SEA•PAC buttons. Remember, we are all volunteers. So, be patient with us and we will be glad to help you.

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Amateur Radio Supply

THANK YOU TO ALL WHO DONATED PRIZES!!!

NOTE: All registrants, including convention sponsors, are eligible for prize drawings and/or contest awards.

NOTE: Due to publication deadlines, we apologize if there are any prize donors not included in the above listing.



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	KA7GJT	KB7AYY	N7CEN	NB7M	WA5ZAY
	KA7IAY	KB7AZZ	N7CLQ	NK7E	WA7CBX
IL RUP	KA7ICV	KB7BAA	N7DWD	NM7N	WA7CGO
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AL7V	KA7KAX	KB7ETA	N7GQB	NU7D	WA7TFQ
HK3JAL	KA7KGL	KB7FIA	N7GSJ	W1PRT	WA7WEZ
K1 IIF	KA7KUG	KB7FMR	N7GWD	W7ACC	WA7YRC
K7CKK	KA7KZJ	KB7FTD	N7HGX	W7BGH	WA7ZMR
K7CLL	KA7LCB	KB7FUL	N7HHU	W7CCV	WB5AVH
K7MGD	KA7LJQ	KB7WA	N7HXS	W7CHI	WB7DTM
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K7ZN	KA7SLA	KE7JA	N7IPM	W7FHW	WB7FFQ
KA6INC	KA7TIA	KE7PB	N7JHN	W7FMJ	WB7NAU
KA7ADO	KA7TJG	KF7AO	N7JQD	W7GYH	WB7NDY
KA7CKH	KA7VHL	KF7RM	N7KGA	W7GZN	WB7PEI
KA7CRN	KA7WXY	KN7L	N7KGY	W7HDT	WB7QEU
From all of the Runners,					WB7SOF WB7UEU
Thank You!!!!					WI7R WM7G

DO NOT READ THIS:

Unless you really want a small, potent two-element beam with lots of rejection where needed.

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if you are the sort that chickens out readily. Unless, that is, you are willing and able to follow detailed, assembly/tuning instructions.

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The II-DX is a whole new ballgame. Two full-wave-loop elements, close-spaced and reshaped like -- well, reshaped! Broad-banded and needing no radials, no ground, no transformer balun (A choke coil or 1:1 current balun is necessary to cancel antenna currents on the line).

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- * Eight tuning adjustment points, plus radiator length, on each element.
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THINGS TO SEE & DO

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Columbia Lightship. Moored at the Coast Guard Pier at the foot of 16th, Astoria

Maritime Museum. 17th & Marine Dr., Astoria

Fort Astoria. 15th & Exchange, Astoria.

Astoria Bridge. A part of Hwy. 101. Joins Washington & Oregon.

Battery Russell, Fort Stevens State Park

Peter Iredale, Fort Stevens State Park

Fort Clatsop. Tour replica of Fort, museum, movie and ranger demonstration.

Salt Cairn. Lewis & Clark Way, Seaside

Seaside Aquarium. 2nd Ave. & Promenade, Seaside.

Turnaround. End of Lewis & Clark Trail, Broadway & Promenade, Seaside

Restored Merry-go-round. Town Center Mall, Seaside.

Tillamook Rock Lighthouse. Island off Tillamook Head, Best viewed from the point at Ecola State Park, Cannon Beach.

Haystack Rock. Third largest monolith, Cannon Beach

Ecola State Park. Beautiful 'postcard' ocean view, Cannon Beach

Oswald West State Park & Short Sand Beach. Hwy. 101 South.

Nehalem Winery. Hwy 101 South.

Tillamook Cheese Factory, Tillamook

Tillamook Museum, Tillamook

For more things to do and see in the area and current community activities, visit the Seaside Chamber of Commerce Information Center at 7 North Roosevelt Street (on the corner of Hwy. 101 & Broadway).

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The Oregon Tualatin Valley Amateur Radio Club

would like to take this opportunity to thank the many hard working individuals who have helped make SEA•PAC a success.

A special thanks to all of the clubs in the Pacific Northwest that were of great help in advertising the convention.

We are deeply grateful to our many exhibitors for showing us their products. Without them, this would not have been a successful convention.

See You Next Year!!!!

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• AT-440 internal auto. antenna tuner (80 m – 10 m) • AT-250 external auto. tuner (160 m – 10 m) • AT-130 compact mobile antenna tuner (160 m – 10 m) • IF-232C/IC-10 level translator and modem IC kit • PS-50 heavy duty power supply • PS-430/PS-30 DC power supply • PS-430 external speaker • MB-430 mobile mounting bracket • YK-88C/88CN 500 Hz/270 Hz CW filters • YK-88S-88SN 2.4 kHz/1.8 kHz SSB filters • MC-60A/80/85 desk microphones • MC-55 (8P) mobile microphone • HS-4/5/6/7 headphones • SP-41/50 mobile

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