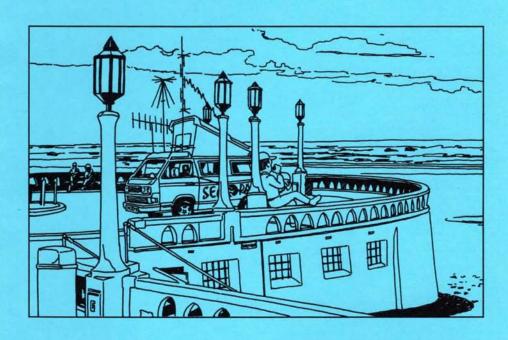


ARRL Northwest Division Ham Convention



Seaside Convention Center Seaside, Oregon

JUNE 1 & 2, 1996

Presented by Oregon Tualatin Valley Amateur Radio Club





*** Portland Ham Fair

September 21, 1996

9am -5pm

N.W. Collectors' Mkt. N. Vancouver & M.L.K. Blvd \$5 pre reg(\$6 at door) Tbls \$12(1st) \$10(2nd-5th) \$8(>6) hourly drawings over 350 tables of Flea Market available large clean facility with plenty of parking and on site resturant Grand prize VHF mobile tranceiver (need not be present to win) for info visit Hoodview booth or call Ed W7TWL (503) 257-482



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Welcome to SeaPac 1996

The SeaPac Ham Convention is sponsored by the Oregon Tualatin Valley Amateur Radio Club.

Co-Sponsors include Hoodview Amateur Radio Club, Sunset Empire Amateur Radio Club, and TEchnology RAC (formerly Tektronix Employees RAC).

The Sponsors wish to thank all volunteers for their assistance and contributions to the convention. We hope everyone will enjoy themselves to the fullest and be a part in making this event a success.

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VE Testing

Testing is at Our Saviour's Lutheran Church across from the Convention Center. One session only will be offered at 9:00AM on Saturday, June 1, 1996

Testing will be by pre-registration only. No walk-ins!

F.A.R.S. - AEA CW Contest

Test your CW skills! Sending, Receiving and Pileup Check it out. Dolphin Room 9:00AM to 1:00PM (Details page 9)

Kids Krayons & Kartoons

Sea Mist Room

Saturday, June 1 - 9:00 AM to 5:00 PM Sunday, June 2 - 9:00 AM to 2:00 PM

For children 5 - 12 years old. Separate arrangements can be made to care for younger children at a nominal cost.

Talk-in Station: 146.660 (-600) MHz

Convention Schedule

Friday, May 31

Registration	11:00AM- 8:00PM	
Exhibitor & Flea Maret Setup (SETUP ONLY) 11:00AM-9:00PM		
ARRL Antenna Design Workshop (Convention Cen	ter) 12:00N - 6:00PM	
Ladies Hospitality Suite (Aloha Inn, Room 125)	5:00PM - 8:30PM	
	•	
Saturday, June	$I_{}$	
Exhibitor & Flea Market Setup (SETUP ONLY)	7:30AM - 9:00AM	
Registration	8:00AM - 4:30PM	
Exhibits & Flea Market Open to Public	9:00AM - 4:30PM	
Snack Bar	9:00AM - 4:30PM	
Ladies Hospitality Suite (Aloha Inn Room 125)	9:00AM - 4:30PM	
Kids, Krayons & Kartoons (Sea Mist Room)	9:00AM - 5:00PM	
VE Exams (Pre-registered Only. Our Saviour's Lutheran Church)	9:00AM - 12:00N	
FARS-AEA CW Contest (Dolphin Room)	9:00AM - 1:00PM	
Seminars (Seaside & Riverview Rooms)	9:30AM - 5:00PM	
ARES Meeting (Town Center Mall)	10:00AM - 12:00N	
QCWA Luncheon & Program (Shilo Inn - Whale 2 & 3)	12:00N - 2:00PM	
ORRC Meeting (Town Center Mall)		
Banquet Happy Hour		

Sunday, June 2

图 4.4.4.4.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P
Registration	8:30AM - 12:00N
Ladies Hospitality Suite (Aloha Inn Room 125)	9:00AM - 12:00N
Exhibits & Flea Market	9:00AM - 1:30PM
Kids, Krayons & Kartoons (Sea Mist Room)	9:00AM - 2:00PM
Seminars (Seaside & Riverview Rooms)	9:30AM - 12:00N
Snack Bar	9:30AM - 2:00PM
Grand Awards	1:00PM - 2:00PM
Convention Closes	2:00PM

7:15PM - 9:30PM

Banquet

Exhibitor List

AEA

AES

Advantage Instruments

Alinco

Amateur Radio Supply

Amateur Radio Trader

Amateur Radio Relay Group

AMSAT

Antennas West

Antenna & Satellite Technology

B & B Instruments

Badge Boys

Badges "R" Us

Battery Tech

Bearcat Radio Club

Books Etc.

CommSystems Intermountain

Computer Nut

Cynthia Wall

DC Power

Dilley's Enterprises

Electronic Rainbow

E. H. Yost/Mr. Nicad

FARS

Force 12 Antennas

H. Stewart Designs

Ham & Electronics

Ham Radio Outlet

Handcrafted Wood Products

Hats for Hams

Hoodview ARC

Hutton Communications

ICOM America

Ideal Industrial Supplies

Index Laboratories

Kenwood Communications

KLM Antennas

Larsen

Molen Distributing

Motron

Navy/Marine Corps MARS

NCG Company

Nuts & Volts Magazine

O.P.E.N.

Orcom

Portland ARC

Premier Communications

QCWA

Radio Shack

Ramsey Electronics

ScanWare Associates

Sciesis

Smiley Antennas

Solder-It Company

Somerset Electronics

Standard Radio

Star Fire Tec

Startek International

T. J. Antenna Company

The Radio Place

The Wireman Inc.

Willamette Valley DX Club

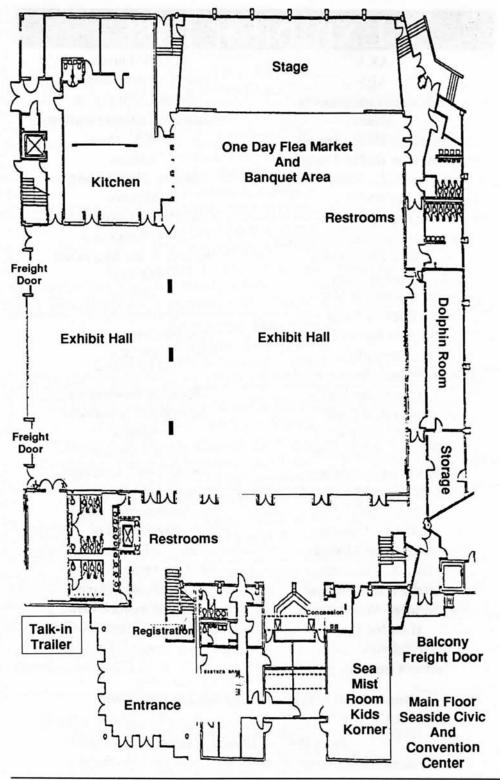
Yaesu USA

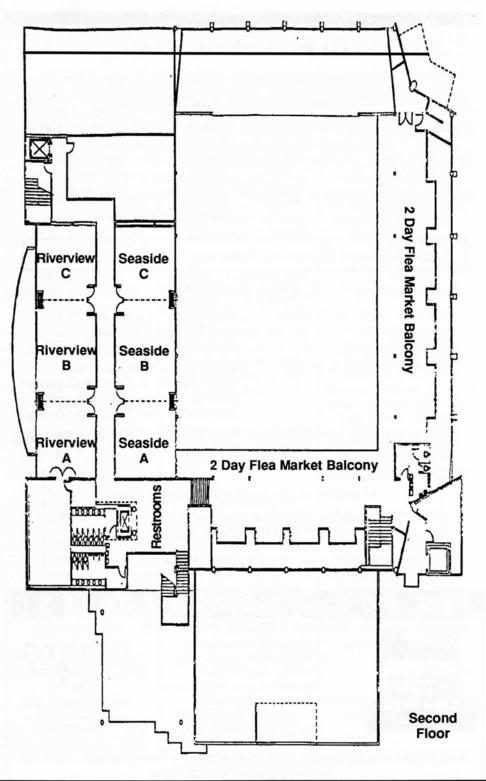
YLRL

Non-exhibitor Prize Donor: Borsch Electronics

Prize Donors shown in Bold

Due to publication deadlines we apologize for any changes.





LADIES PROGRAM

Ladies Hospitality Suite, Aloha Inn, Room 125
SCHEDULED HOURS

Friday, May 31 5 pm to 8:30 pm Coffee, Conversation and Cards

Surprise Movie at 6:30 pm

Saturday, June 1 9 am to 4:30 pm Coffee, Treats, Games, Cards,

Puzzles and Seminars

Sunday, June 2 9 am to 12 noon Coffee, Treats, Games, Cards,

Puzzles and Seminar

Blood Pressure Screening Saturday and Sunday All Day

Ladies Seminars

Saturday 10:00 to 11:30am Genealogy: Computerized

Family Tree Climbing

Chris Řumbaugh

Saturday 2:00 to 4:30 pm Birds of the Oregon Coast

Herb Wisner, Retired Professor of Biology, University of Oregon Member of The Audubon Society

Sunday 10:00 to 11:30 am The Romance of Bed & Breakfast

Rick Schouweiler, Travel Agent

Available at the Ladies Hospitality Suite

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and

Seaside Downtown Development Association Coupons

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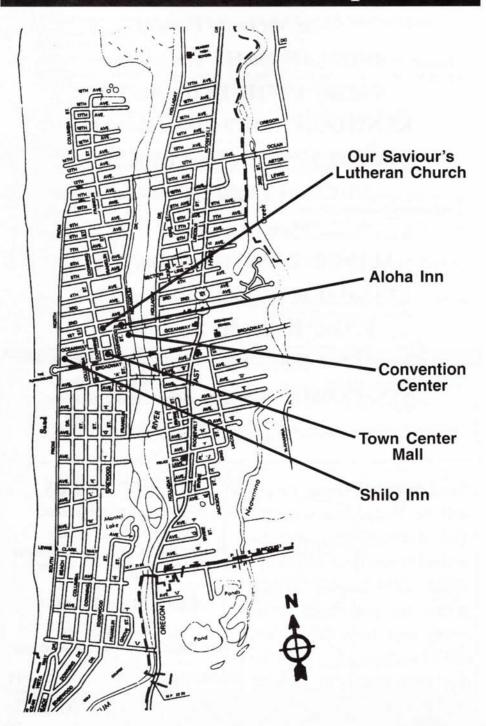
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Seaside Area Map



Prize Drawing Information

Need Not to Be Present
ICOM IC-706 HF Transceiver
YAESU FT51R Dual Band HT
KENWOOD TM-79A Dual Band HT
ICOM IC-W31A Dual Band HT
YAESU FT2200 2m Mobile

Must be present
ALINCO DJ-582T Dual Band HT
STANDARD C-508A Dual Band HT
ICOM IC-2000H 2m Mobile
KENWOOD TH22AT 2m HT
NCG COMET GP6 DB Base Antenna

(NONE BY PROXY - YOU MUST BE PRESENT)

Need Not Be Present Prizes will be shipped to winners. The drawing time will be limited to one hour between 1PM - 2PM Sunday. These prizes are purchased at or below cost from the dealers and manufacturers. We take this opportunity to express our appreciation. Good Luck.

HOURLY PRIZES

Posted in the lobby and on stage for 2 hours

Those unclaimed will be re-issued

SPECIAL Early Bird Prizes

H. Stewart Designs BIG DK-DX Mobile HF Antenna

Standard Radio C-108A Mini 2m HT

ICOM IC-T22A 2m HT

F.A.R.S. - AEA CW CONTEST

Test your CW Skills 0900-1300 in the Convention Center's Dolphin Room. The Friendship Amateur Radio Society (FARS) co-sponsored with AEA, will conduct the competition on Saturday, June 1st. This will be similar to the competition held in 1994.

Events will include CW sending, CW receiving at 4 speeds, pencil and paper copy only, and pileup receiving. The pileup tape is a simulation of Sweepstakes Weekend — try it! Medals will be awarded at the SeaPac Banquet on Saturday night for several outstanding competitors in these events. Polish your skills now and plan to join the fun.

Those interested in participation in FRG-97 in Tokyo Japan are invited to stop by the FARS, USA Booth on the exibit floor. Events at FRG-97 will include CW contests, DX Contest and International Rules RDF

FARS VICTORIA will join us at the Booth. Those interested in a demonstration on-foot T-hunt should talk with the Victorians early Saturday. They hope to demonstrate (5) Russian-style foxes and Russian Altai RDF Units



HAVE YOU HEARD ABOUT THE CASCADIA INTERTIE?

VISIT THE ARRG BOOTH FOR MORE DETAILS...

			seminar	
	Riverview A	Riverview B	Riverview C	
	Friday Afternoon, May 31			
12:00 noon to 6:00 PM	SEE PAGES 12 - 18 FOR SEMINAR TOPIC DESCRIPTIONS		C DESCRIPTIONS	
	Satu	rday Morning,	June 1	
9:30 AM	(2) So You Want to be DX Bob Preston, W7TSQ	(3) Everybody's (Ante Tom Schil	nnas)	
11:00 AM	(6) E-M Fields and Your Health W. Overbeck, N6NB	(7) 2m NBS Yagis Hardwa Ken Kop		
	Satur	rday Afternoon,	June 1	
1:00 PM	(10) Youth and Amateur Radio Rosalie White, WA1STO	(11) Local Terrain and Launch Angle D. Straw, N6BV	(12) WW2END - On Board the USS Missouri T. Sanders, W6QJI S. Warburton, N7KMI	
2:30 PM	(15) Electronics Construction - Methods, Tools & Materials Emerson Hoyt, WX7E	(16) QRP SSB Transceiver Project John Liebenrood, K7RO	(17) ARRL Forum Mary Lou Brown, NM7N	
4:00 PM	(20) Hidden Trans- mitter Hunting Dale Hunt, WB6BYU	(21) DSP in Modern Amateur Radio Equipment Chip Margelli, K7JA	(22) Spectrum Management J. Kaplan, KG7FU C. Freinwald, K7CR	
	Sun	day Morning, .	Tune 2	
9:30 AM	(24) What's New for Newer Hams Rosalie White, WA1STO	(25) Wire and Cable for Radio Amateurs Press Jones, N8UG	(26) Hazardous Weather Reporting Dan Keaton, National Weather Service	
11:00 AM	(29) Getting it All Together M. L. Brown, NM7N	(30) Live Displays of Antenna Propagation and Lightning Protection Press Jones, N8UG	(31) "SPICE" Simulation Programs for Non-linear Circut Design C. Battjes, KC7lOY	

Seaside A	Seaside B	Seaside C	
Friday	Afternoon, Ma	y 31	
Computer-Aided An Includin	Technical Worksl atenna/System Design ing the Effect of Local Dean Straw, N6BV	of HF/VHF Stations Terrain	
Satura	lay Morning, Ju	ne I	
(4) Beginning Packet Radio Max Lindholm, KC7GFW		(5) New Missions for Amateur Radio Emer- gency Communications J. Cline, KI4EX	
(8) Intermediate Packet: Using Packet Bulletin Board Systems Evan Burroughs, N7IFJ		(9) Digital Modes for Emergency Comm- unications J. Cline, KI4EX	
Saturd	ay Afternoon, Ji	une 1	
(13) Overview of the HF Data Communications Modes Ray Petit, W7GHM		(14) Lessons Learned: Amateur Radio in 1995/96 Storms T. Burroughs, KB7HEK	
(18) Amateur Radio and the INTERNET Al Rovner, WA2TMP		(19) Pacific Northwest Disasters:Family	
(23) Advanced Ama TCP/IP and 9600 Steve Strol	Baud (and faster)	Preparedness Ron Kruml, KB7JCP	
Sund	ay Morning, Jun	ie 2	
Max Lindholm, KC7GFW Antenn and the l		(28) Amateur Radio Antennas and the Law W. Overbeck, N6NB	
(32) Intermediate Packet: Using Packet Bulletin Board Systems Evan Burroughs, N7IFJ (Repeat)		(33) Ham Radio Antennas for Sailboats R. Severns, N6LF	

The SeaPac '96 Seminar Program features 33 presentations on a wide range of subjects to meet the interests of convention attendees. Our goal is to provide talks that are both interesting and benficial to amateurs, and I think you'll agree that we've met that goal!

The program includes seminars in five topic "tracks". Four seminars are dedicated to Beginners, 5 to Emergency Preparedness, 6 to Packet and HF Digital Communications, 12 to Technical subjects not in one of the other tracks, and 6 to General Interest, Organizational, and Regulatory subjects. Beginning Packet and Intermediate Packet seminars are repeated on Sunday morning. I urge those of you who will be here on Sunday to attend the repeat sessions and allow more room for the Saturday-only attendees.

A technical Workshop is being offered again on Friday from 12 noon to 6 PM. Senior Assistant Technical Editor R. Dean Straw N6BV will present "Computer-Aided Antenna and System Design of HF and VHF Stations, with Consideration of the Effect of Local Terrain on Launch Angle". Dean will give the Terrain and Launch Angle section also on Saturday afternoon.

As always, you will receive opinion survey cards in each seminar room. Please fill these out after you have attended all the sessions, and deposit them in the room or at the registration desk. We need your feedback - to all those who have filled them out over the years, a big thank you from the seminar committee!

Gene Single K7IUN, Seminar Chairman

Beginners Track: Seminars 10, 15, 24, and 29. Seminars Emergency Preparedness: 5, 9, 14, 19, and 26. By Digital: 4, 8, 13, 23, 27, 32. Type Technical: 1, 3, 7, 11, 16, 18, 20, 21, 25, 30, 31, and 33.

General Interest/ Organizational/Regulatory: 2, 6, 12, 17, 22, 28.

NOTE: PLEASE TURN OFF HAND-HELDS DURING SEMINARS

(1) Workshop: "Computer-Aided Antenna/System Design of HF/VHF Stations" • R. Dean Straw N6BV, Senior Assistant Technical Editor, ARRL FRI 12 NOON to 6 PM SEASIDE A, B, C

The main emphasis of this workshop will be HF systems, plus computer

modeling of VHF yagis and other gain antennas. We'll see the launch angles required for efficient HF propagation throughout the world, followed by computer modeling of antenna types. We'll explore the effect of local terrain and environment on elevation pattern for antennas.

(2) "So You Want to be DX" Bob Preston W7TSQ, Western Washington DX Club SAT 9:30 AM RIVERVIEW A

This seminar tells you how to do a DX vacation: selecting location, licensing, accommodations, equipment, timing, and travel arrangements.

(3) "Everybody's Favorite Subject (Antennas)" • Thomas H. Schiller N6BT, President, Force 12 Antennas & Systems

SAT 9:30 AM RIVERVIEW B & C

Tom discusses avoiding the usual traps in antenna technology. A fresh look at gain and antenna characteristics, in plain language, with no smoke and mirrors. There will be an open question & answer time.

(4) "Beginning Packet Radio" • Max Lindholm KC7GFW, AEC, State ARES SAT 9:30 AM SEASIDE A & B

An introduction on how to assemble your own packet station; how a computer, TNC, and radio allow you to explore and utilize data communication in a network.

- (5) "New Missions for Amateur Radio Emergency Communications" • John J. Cline KI4EX, State Director, Idaho Bureau of Disaster Services SAT 9:30 AM SEASIDE C John reviews the history of amateur radio emergency communications and explains why amateur radio assets are needed even more today than in the past.
- (6) "Electromagnetic Fields and Your Health" Wayne Overbeck N6NB, PhD, JD, Professor of Communications, California State University, Fullerton SAT 11:00 AM RIVERVIEW A

 There has been research by medical doctors showing that electro-magnetic fields are associated with certain kinds of cancer. But a group of Physicists has questioned that conclusion. Meanwhile, the FCC is drafting new rules to limit EMF exposure. This talk explains how radio amateurs are affected by all of this.
- (7) "Two-meter NBS Yagis From the Corner Hardware Store" Ken Kopp KØPP SAT 11:00 AM RIVERVIEW B & C Ken will show how to build 5-element NBS-designed 2m Yagi antennas using easily obtained materials. Includes slides, hands-on materials, and a discussion of related feedline and connector information. Lots of show-and-tell.
- (8) "Intermediate Packet: Using Packet Bulletin Board Systems" Evan Burroughs, N7IFJ, System Operator, Salem Reapeter Association BBS SAT 11:00 AM SEASIDE A & B
 An introduction to the WØRLI packet radio bulletin board software; the focus will be on basic bulletin board system usage.

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 (9) "Use of Digital Communication and Mailboxes for Disaster Information"
 • John J. Cline KI4EX, State Director, Idaho Bureau of Disaster Services SAT 11:00 AM SEASIDE C

A new approach to using packet and other modes of digital amateur radio communication for State and local emergency operation centers and on-scene multi-casualty response operations.

(10) "Youth and Amateur Radio" • Rosalie White WA1STO, ARRL Educational Activities Manager

SAT 1:00 PM RĪVERVIEW A

This seminar is for licensed and unlicensed youths. What amateur radio activities do youths like best? What are area youths doing on the air? How can you take part in these activities too? Door prizes will go to the lucky young people.

(11) "Local Terrain and its Effect on the Launch of HF Signals" • R. Dean Straw N6BV, Senior Assistant Technical Editor, ARRL SAT 1:00 PM RIVERVIEW B

DXers and contesters take note: hilltop or valley, swamp or desert, your local terrain will have a profound effect on the elevation pattern of your HF antenna. N6BV from ARRL HQ describes the latest in software to assess these effects.

- (12) "WW2END On Board the USS Missouri A Once-in-a-Lifetime Special Event Station" Tom Sanders W6QJI, Project Manager, Stan Warburton N7KMF, Project Photographer SAT 1:00 PM RIVERVIEW C
 This is a detailed account of the organization, installation, and operation of a 5-transmitter, all-band, all-mode special event station on board the battleship USS Missouri, using the special call WW2END, on the 50th anniversary of the end of World War II.
- (13) "Overview of the HF Data Communication Modes" Ray Petit W7GHM SAT 1:00 PM SEASIDE A & B
 Ray describes and compares the AMTOR, PACTOR, RTTY, Packet, and CLOVER data modes with respect to bandwidth, throughput, data integrity, ease of use, and radio requirements. Which one is for you?
- (14) "Lessons Learned: Amateur Radio Emergency Communications During the Winter Storms of '95-'96 (an open forum)" Tami Burroughs KB7HEK, Communications Specialist, Emergency Management Division, Oregon State Police

 SAT 1:00 PM SEASIDE C

*** Portland Ham Fair ***

September 21, 1996

9am -5pm

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An open forum for those who participated with and provided emergency communications to Emergency Management Agencies during the storms of winter '95-'96. Please come prepared to share what went well for your group and offer suggestions for the next disaster which may require amateur radio.

(15) "Electronic Construction for the Amateur - Methods, Tools, and Materials" •Emerson Hoyt WX7E, Director of Engineering, Hoyt Instrument Laboratory SAT 2:30 PM RIVERVIEW A Various electronic project construction methods are described as well as tools

various electronic project construction methods are described as well as tools and materials used. Numerous examples of these methods will be displayed and shown by color slides.

- (16) "QRP Single-Sideband Transceiver Project" John Liebenrood K7RO SAT 2:30 PM RIVERVIEW B QRP doesn't mean CW only! Learn about simple designs for single sideband. NORCAL's Cascade Project is the latest QRP kit. The Cascade is a compact 75m and 20m QRP SSB transceiver.
- (17) "ARRL Forum" Mary Lou Brown NM7N, Director, Northwest Division, ARRL SAT 2:30 PM RIVERVIEW C Mary Lou will report on recent news from ARRL, Congress, FCC, etc. on matters of concern to amateur radio. There will be opportunity to discuss issues with ARRL officials.
- (18) "Amateur Radio and the Internet" Al Rovner WA2TMP SAT 2:30 PM SEASIDE A & B This is an introduction to the Internet, and amateur radio resources available on the Internet. Topics covered include: World Wide Web, FTP, email, Telnet, and a visit to amateur related sites. This talk is intended for "newbies" (or newcomers) to the Internet.
- (19) "Pacific Northwest Disasters: Family Preparedness" Ron Kruml KB7JCP, Public Educator, City of Redmond, WA Emergency Preparedness Office SAT 2:30 PM SEASIDE C (This is a 2-hour session)

 This seminar is a motivational presentation that will give you the information and tools you will need to prepare for our next disaster. Are you really prepared? What's there to worry about? How bad could it be? Find out what you can do, and assemble a family disaster plan.



(20) "Hidden Transmitter Hunting" • Dale Hunt WB6BYU SAT 4:00 PM RIVERVIEW A

Transmitter hunting is a fun and potentially useful sport. We will discuss techniques, problems, simple equipment, and other topics for the beginning and intermediate hunter.

(21) "Digital Signal Processing in Modern Amateur Radio Equipment"
• Chip Margelli K7JA, Technical Support Manager, Yaesu USA
SAT 4:00 PM RIVERVIEW B

DSP! Advanced DSP!! Enhanced DSP!!! What does it all mean, and what can it do for you? This down-to-earth review of modern DSP-based gear will take the mystery - and the math - away so you can understand the latest designs.

- (22) "Spectrum Management" James Kaplan KG7FU and Clay Freinwald K7CR, ARRL Spectrum Committee Members

 SAT 4:00 PM RIVERVIEW C

 This is a discussion of spectrum management issues: what do we do with our 50MHz and above bands?
- (23) "Advanced Amateur Packet Radio TCP/IP and 9600 Baud (& faster)"
 •Steve Stroh N8GNJ

SAT 4:00 PM SEASIDE A & B

A discussion of the Puget Sound amateur radio TCP/IP network, 9600 baud, and 56K baud. Steve will also discuss the upcoming ARRL and TAPR digital communications conference in Seattle on September. 20 - 22, 1996.

(24) "What's New for Newer Hams?" • Rosalie White WA1STO, ARRL Educational Activities Manager

SUN 9:30 AM RIVERVIEW A

Learn about new on-the-air operating activities that you'll love trying - - what you'll need in order to do them, and lots of background information to take home with you.

(25) "Wire and Cable for Radio Amateurs - Most Common Questions and Misconceptions" • Press Jones N8UG, "The Wireman" SUN 9:30 AM RIVERVIEW B

What's new, what's right and wrong. How to select, install, maintain, and troubleshoot cable, connectors, and accessories. Questions solicited before, during, and after the session.

Continuous Coverage HF Mobile Antennas DK (Don) Johnson W6AAO

The Inventor of the **DK**³ Screwdriver Antenna licensed H Stewart Designs to manufacture the THE BIG DK-DX See Henry's booth

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Antennas N7WMW Box 643 Oregon City OR 97045 (503) 654-3350

(26) "Hazardous Weather Reporting" • Dan Keeton et al, Meteorologists, National Weather Service

SUN 9:30 AM RIVERVIEW C

Learn to observe and report severe weather for emergency managers, Weather forecasters, and the media. You will be able to distinguish tornados and funnel clouds from non-hazardous phenomena, estimate wind speed, etc.

- (27) "Beginning Packet Radio" (REPEAT) Max Lindholm KC7GFW SUN 9:30 AM SEASIDE A & B See (4)
- (28) "Amateur Radio Antennas and the Law" Wayne Overbeck N6NB, PhD, JD, Professor of Communications at California State University. Fullerton SUN 9:30 AM SEASIDE C

In spite of PRB-1 (the "limited federal preemption" of local antenna restrictions) more and more cities, counties, and homeowner associations are cracking down on ham antennas - with the blessing of federal courts. Now the FCC proposes to curb local restrictions on TV antennas but not ham antennas. What to do?

(29) "Getting it All Together" • Mary Lou Brown NM7N, Director, Northwest Division, ARRL

SUN 11:00 AM RIVERVIEW A

Discussion of what is needed for a station; how to select, assemble the pieces, and test them out; getting on the air. Both HF and VHF/UHF stations are covered.

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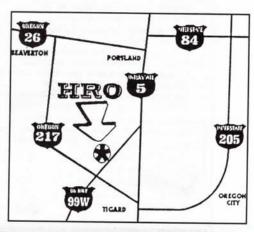
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(30) "Live Displays of Antenna Propagation and Lightning Protection" · Press Jones N8UG, "The Wireman"

SUN 11:00 AM RIVERVIEW B

A hands-on look at RF signal propagation from a variety of antennas showing pattern, gain, and the effect of surroundings. A second live demo illustrates the characteristics of lightning and related damage control.

(31) "Using "SPICE' Type Simulation Programs to Study Receiver non-Linear Parts" Carl Battjes KC7IOY, Engineering Consultant

SUN 11:00 AM RIVERVIEW C

Although two-port network programs are useful in the design of linear circuits, they are useless in the study and design of the non-linear parts. "SPICE" handles these non-linear design problems.

(32) "Intermediate Packet: Using Bulletin Board Systems" (REPEAT) Evan Burroughs N7IFJ, System Operator, Salem Repeater Association BBS SUN 11:00 AM SEASIDE A & B See (8)

(33) "Ham Radio Antennas for Sailboats" Rudy Severns N6LF SUN 11:00 AM SEASIDE C

There are many possible antennas for use on sailboats but because of the conductive standing and running rigging, good performance is not always easy. This seminar will review the problems and present solutions.



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SEASPAC Committees

Thanks To All The Volunteers Who Helped Make This Convention A Success!!!

Due to publication deadlines, we apologize for any omissions

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Banquet Program



The Aliens

The Aliens Barbershop Quartet returns to SeaPac for an encore performance by popular demand - (they were with us in 1992). They have been singing and entertaining audiences for the past 28 years and are one of the top show quartets in the country. They have been finalists in international competition on a regular basis.

Jim Richards (Tenor), is employed by Service America, Inc. as head catering chef at Intel Corp. Bob Wiggins (lead) is retired from United Airlines. Chuck Olson (Baritone) is a retired school teacher and Jay Thornberry (Bass) is a salesman for Rodda Paint Company in Portland.

So don't sit back and relax (you won't be able to) and do fasten your seat belt because here are four guys who thoroughly enjoy entertaining an audience.

Master of Ceremonies Greg Milnes, W7AGQ

Greg was first licensed in 1955. In the mid-60s, he operated W7AGQ/4 from Virginia and was a staff attorney with the Broadcast Bureau of the F.C.C. in Washington, DC. He returned to 7-land in 1967. Greg became a Judge in 1969 and is currently a Circuit Court Judge for Washington County, Oregon.

Greg is ARRL Northwest Division Vice Director, a member of QCWA, DXCC, FARS, Willamette Valley DX Club and OTVARC (past President and Trustee).

ARRL Guests

Rodney Stafford, KB6ZV, President
Mary Lou Brown, NM7M, NW Division Director
Rosalie White, WA1STO, Educational Activities Manager
Dean Straw, N6BV, Senior Assistant Technical Editor



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RAGS Test Bench

As a service to flea market buyers, the Radio Amateurs of the Gorge (RAGS) will have a test bench on the west side of the exhibit area. Test equipment will include a power supply, speaker, voltmeter, frequency counter, oscilloscope and watt meters. Buyers and prospective buyers are encouraged to make use of this service to check out those flea market treasures and unbelievable bargains.

Neither RAGS nor SeaPac accepts any responsibility for the condition or operability of any equipment, nor can they be held culpable for any equipment damaged as a result of test gear usage.

Hamfest Calendar

Glacier-Waterton Hamfest July 19 - 21, 1996

ARRL Montana State Convention Three Forks Campground, East Glacier MT. Contact Bill Vodall, WA7NWP (406) 337-2222 INTERNET: hamfest@tlatech.com

Northwest DX Convention July 19-21, 1996 Portland, Oregon

Willamette Valley DX Club, Ron Hylton, AD7L (503) 538 7554

Southern Oregon Coast Hamfest July 19, 1996 Saturday 9:00AM-5:00PM

Community Center, Coquille, Oregon

Contact Coos County Radio Club, Info: (541) 396-4479 RT1 Box 199D #6, Coquille, OR 97423 Or (541) 396-5778

> Spokane Hamfest August 3-4, 1996

University High School Opens 9:00AM Info: (509) 928-1808 or (509) 448-8445 Fax (509) 921-6912

WIMU Rocky Mountain Division Convention August 2-4, 1996 • Park City Utah Olympia Park Hotel & Conference Center

(801) 288-1859 Contact: Duane Anderson, KJ7HO

INTERNET: kj7ho@utahinter.net

Tacoma Electronics Fleamarket August 10, 1996 9:00 AM - 3:00PM Charles Wright Academy

Info: Alan Hughes, 206-840-4947 or 206-596-7472(pager)

Longview Swap Meet August 17, 1996 9:00AM - 3:00 PM

Lower Columbia ARA Cowlitz County Fairgrounds

Portland Ham Fair September 21, 1996 9:00AM - 5:00 PM

Hoodview ARC • N.W. Collectors Mkt, N. Vancouver & MLK Blvd Info: Ed, W7TWL (503) 257-4822

50th Anniversary

Walla Walla Hamfest & EWA Section Convention September 27-29, 1996 8:00AM - 4:00PM Walla Walla National Guard Armory

Contact Dave Pence, KB7WRT (509) 525-2529

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Portland, Oregon 97225-9142

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503-657-1781

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For further information contact YLRL Membership Chairman
Phyllis Douglas, K7SEC — (520) 298-6450
701 N. Camino Del Cordorniz, Tucson, AZ 85748
or YLRL President

Marti Brutcher, N6XDS — (503) 590-YLRL

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