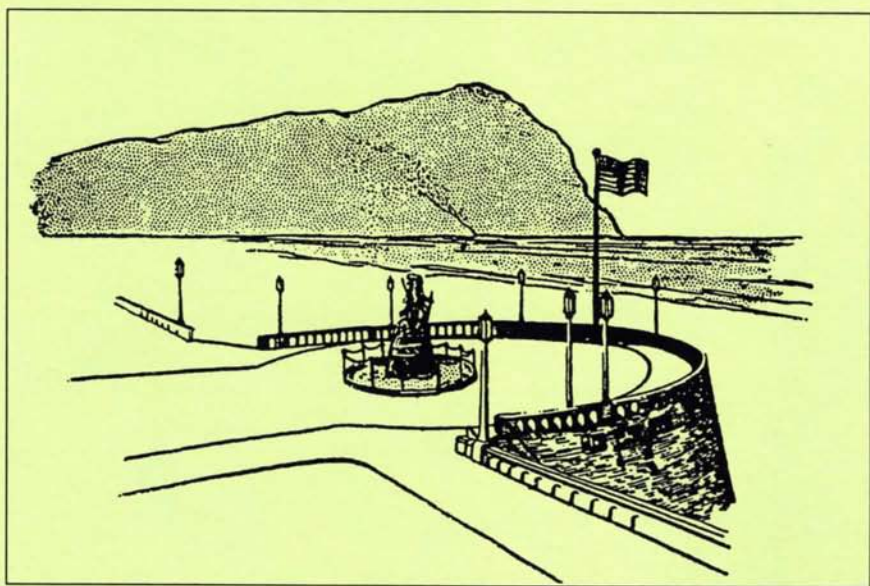




SEA PAC



ARRL Northwest Division Ham Convention



Seaside Convention Center Seaside, Oregon

June 5 & 6, 1993

Presented by
Oregon Tualatin
Valley Amateur
Radio Club



Welcome to SeaPac 1993

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, & Technology RAC (formerly Tektronix Employees RAC).

The Sponsors wish to thank all the 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.

FEMA and Air Force Emergency Communications Vans

As part of the SeaPac emergency preparedness seminars, two special emergency communications vehicles will be on display in the parking lot across 1st Street from the entrance to the Convention Center.

The FEMA MRV or Multi Radio Van is a 36-ft long vehicle with communications capabilities that telephone, voice and data radio (HF through Ku bands), and satellite link. It has its own generators totaling 27KW and fuel to operate several days. It will be on display with a crew of technicians Saturday until 3:00 pm.

Air Force 621 is a Jeep CJ-5 and utility trailer equipped for frequency coverage similar to the MRV but on a smaller scale. It will be manned and displayed throughout most of SeaPac hours Saturday and Sunday.

We urge everyone to take advantage of this opportunity to observe the government and military approach to emergency communications.

For
Convention
Information
&
Announcements
Listen On:
146.660(-600) MHz

Kids, Krayons &
Kartoons

Seamist Room

Saturday, June 5
9:00 AM to 4:30 PM

Sunday, June 6
9:00 AM to 1:30 PM

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Special Events

VE Testing - Pre-Registration Only

Testing will be at the Ocean View Tillamook Head Room. The first session 9:00 AM and the second session is at 2:00 PM, Saturday, June 5, 1992.

Testing will be by preregistration only. No Walk-ins!

← FEMA and Air Force Emergency Vans

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

Town Center Mall Upstairs Meeting Room

DX Pile-up Competition..... 9:00 AM - 3:00 PM

CW Sending

9:00 AM - 10:00 AM
1:00 PM - 2:00 PM

CW High-Speed Receiving

10:00 AM - 11:00 AM
2:00 PM - 3:00 PM

Drop-ins welcome as time allows - Medals will be awarded at banquet.

Convention Schedule

Friday, June 4

Registration	11:00 am-8:00 pm
Exhibit & Flea Market (Setup Only)	11:00 am-9:00 pm
Evergreen AirVenture Musm & Spruce Goose (Seaside H.S.)	7:30 pm-10:30 pm
Ladies Hospitality Suite (Huntley, Rm 125)	5:00 pm-8:00 pm

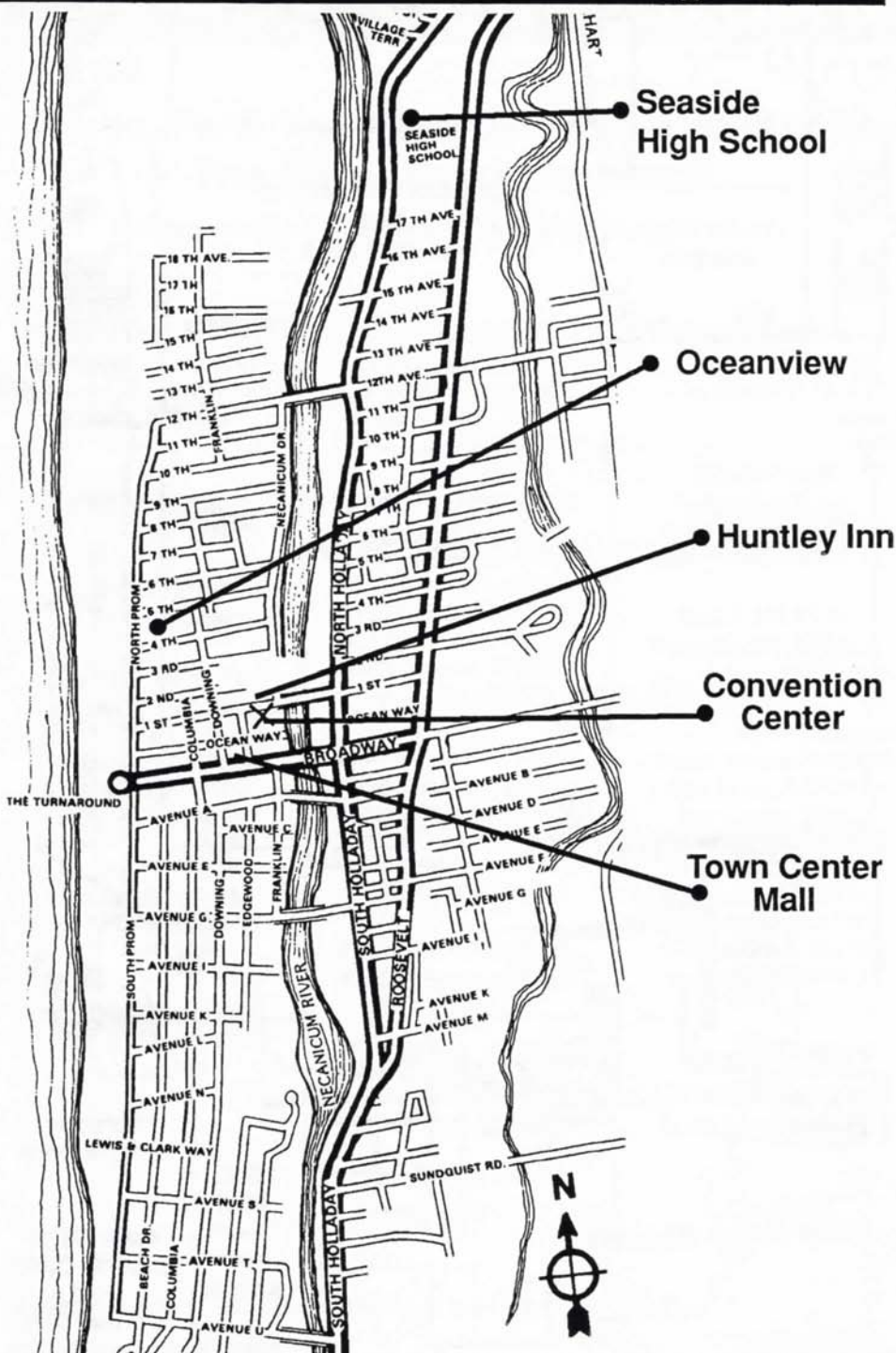
Saturday, June 5

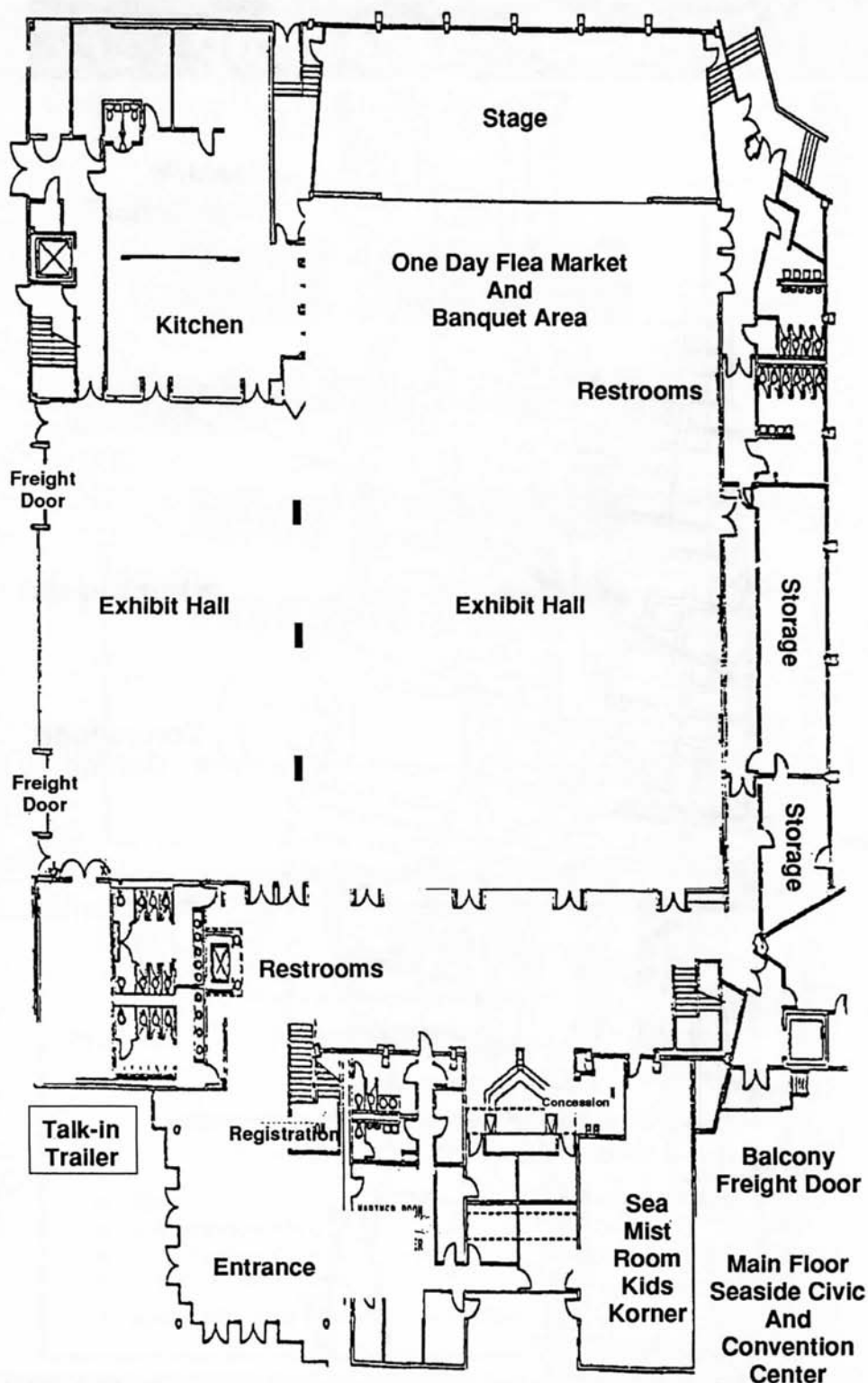
Registration	8:00 am-4:30 pm
Convention Hall Hours	9:00 am-4:30 pm
Ladies Treasure Hunt	All Day
Snack Bar	All Day
Kids, Krayons & Kartoons (Sea Mist Room)	9:00 am-4:30 pm
VE Exams (1st Session, Oceanview Tillamook Head Rm)	9:00 am-12 Noon
Seminars	9:30 am-5:00 pm
ORRC Meeting (Oceanview Ballroom 3)	1:00 pm-?
QCWA Luncheon (Oceanview Ballroom 1 & 2)	12 Noon-2:00 pm
Ladies Luncheon & Program (Oceanview Seaside Rm)	11:30 am-2:00 pm
VE Exams (2nd Session, Oceanview Tillamook Head Rm)	2:00 pm-5:00 pm
Banquet (Convention Center)	7:00 pm-9:30 pm
Ladies Hospitality Suite (Huntley, Rm 125)	9:00 am-5:00 pm

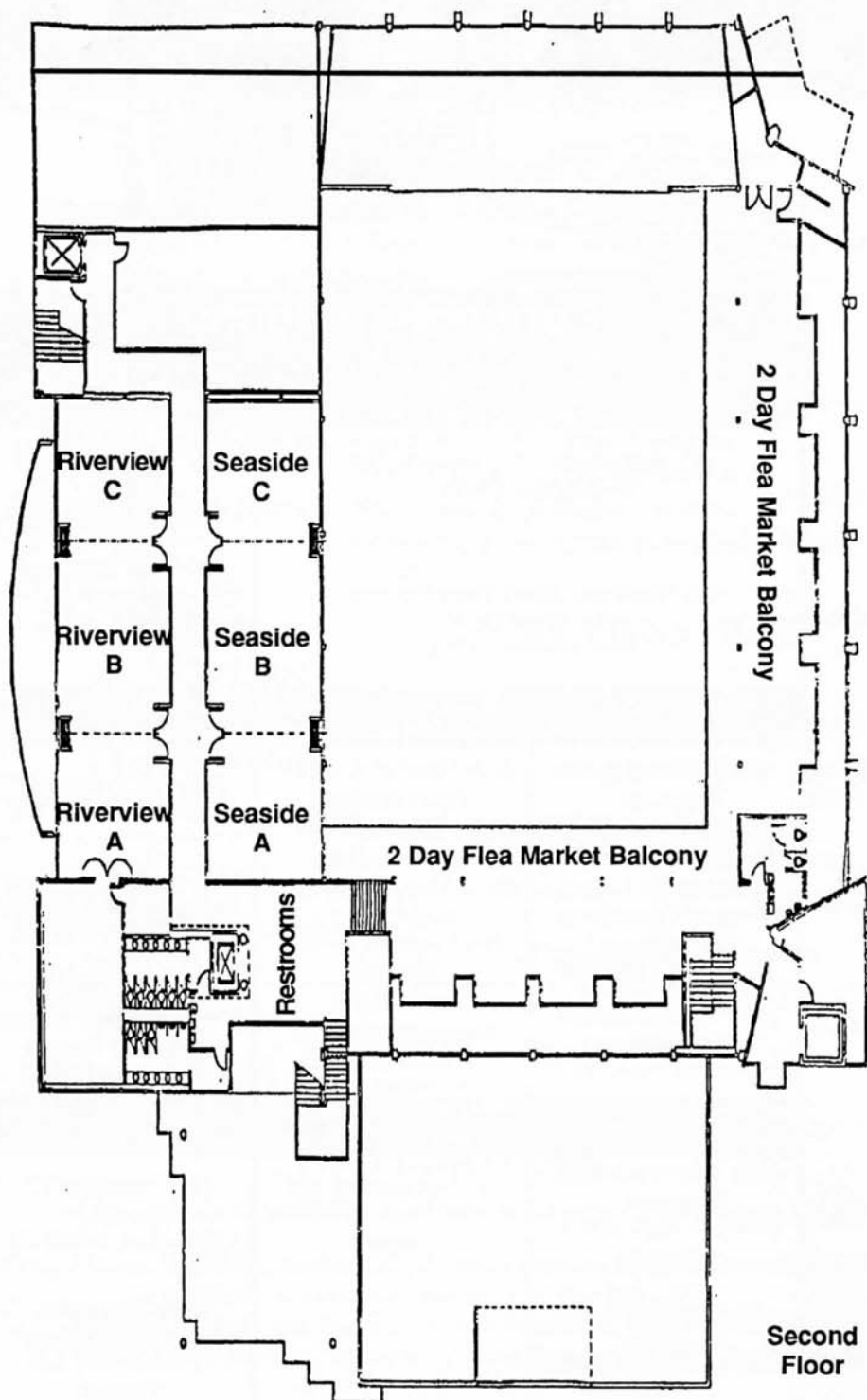
Sunday, June 6

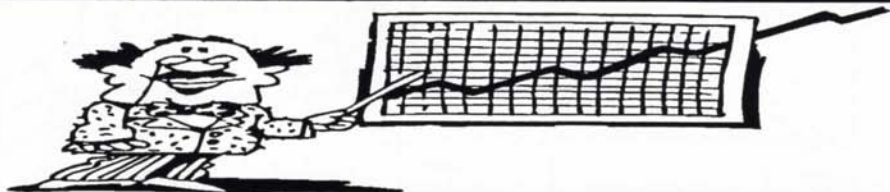
Registration	8:30 am-12 Noon
Seminars	9:30 am-12 Noon
Convention Hall Hours	9:30 am-12 Noon
Snack Bar	9:30 am-2:00 pm
Kids, Krayons & Kartoons (Sea Mist Room)	9:30 am-12 Noon
Grand Awards (Convention Center)	1:00 pm-2:00 pm
Convention Closes	2:00 pm
Ladies Hospitality Suite (Huntley, Rm 125)	9:00 am-12 Noon

Seaside Area Map









Convention Center

Riverview A

Riverview B

Riverview C

Morning, Saturday, June 5

9:30

- (1) "Antennas 101: Beyond the Mail-order G5RV"
Ken Kopp, KØPP

- (2) "Challenge of QRP"
B. Todd, N7MFB

11:00

- (5) "Baluns: What They Do and How They Do It"
Roy Lewallen, W7EL

- (6) "The Status of DXCC"
B. Moore, NC1L

Afternoon, Saturday, June 5

1:00

- (9) "Getting it all Together"
Mary Lou Brown, NM7N

- (10) "Better Audio - Techniques"
Ken Glanzer, K7GCO

- (11) "FCC Forum"
John Johnston, W3BE

2:30

- (14) "Communicating Effectively Using Proper Operating Techniques"
Doug Stroh, WA7EJP

- (5) "BALUNS What They Do & How They Do It"
Roy Lewallen, W7EL
(Repeat)

- (15) "ARRL Forum"
George Wilson, W4OYI
Mary Lewis, W7QGP

4:00

- (18) "Construction Methods"
Emerson M. Hoyt, WX7E

- (A) "RDF & Fingerprinting of Transmitters"
Mark Walker, W7CLU

- ARRL Section Officer Training Forum
Rick Palm K1CE

Sunday, June 6

9:30

- (18) "Construction Methods"
Emerson Hoyt, WX7E
(Repeat)

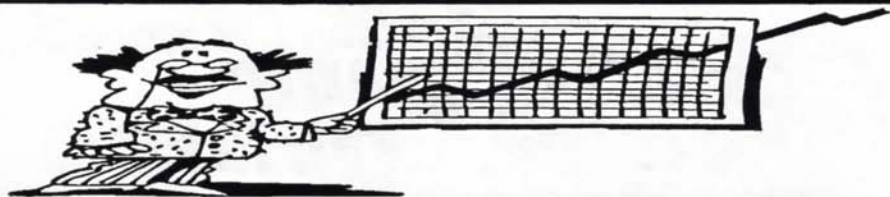
- (1) "Antennas 101"
Ken Kopp, KØPP
(Repeat)

- (22) "Hidden TX Hunting"
Dale Hunt, WB6BYU

11:00

- (9) "Getting It All Together"
Mary Lou Brown, NM7N

- (14) "Effective Communications"
D. Stroh, WA7EJP
(Repeat)



Convention Center

Seaside A

Seaside B

Seaside C

<p>(3) "Emergency Communications-ARES" Rick. Palm, K1CE</p>	<p>(4) "Data Communications from Morse to Pactor" Al Chandler, K6RFK</p>	<p>9:30</p>
<p>(7) "Red Cross & Amateur Radio" M. Riley, KX1B</p>	<p>(8) "Beginning Packet - Getting Started" Mike Dunlap, K7MYU</p>	<p>11:00</p>
<p>(12) "FEMA" Denny Jenkins, Gerald Farris, KA8EMW</p>	<p>(13) "Intermediate Packet" Evan Burroughs, WA7SHP</p>	<p>1:00</p>
<p>(16) "Emergency Response" Dale Hunt, WB6BYU</p>	<p>(17) "Advanced Packet Radio" Johan Reinalda, WG7J</p>	<p>2:30</p>
<p>(20) "Rescue 621" William Kratsch, WA6TUV</p>	<p>(22) "HF Digital Communications" Johan Forrer, KC7WW</p>	<p>4:00</p>
<p>(23) "Emergency Communications Plans" Russ Dedrickson, WA3FBU</p>	<p>(8) "Beginning Packet: Getting Started" Mike Dunlap, K7MYU (Repeat)</p>	<p>9:30</p>
	<p>(13) "Intermediate Packet RPT" Evan Burroughs, N7IFJ (Repeat)</p>	<p>11:00</p>

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Seminar Topic Information

Visitors to Seapac '93 will be able to select from an expanded seminar program, featuring outstanding presentations on a number of important subjects.

This year we've added a series on the subject of Emergency Preparedness, with speakers from ARRL, FEMA, the American Red Cross, and others.

We are again offering a Beginner's Track, seminars especially geared to the needs of the new or inexperienced ham. These seminars are presented twice, some of them on Sunday morning.

To reflect the increased interest in digital communication on the HF bands, the Packet Track is now the Digital Communication Track. An overview talk covering many digital modes is included, along with a seminar on High Frequency digital modes. To accommodate all who want to attend them, the beginner's and intermediate packet seminars are given twice.

Rounding out the program are the Organization & Regulatory Track and Technical & General Interest Track. Be sure to study the full list on these pages and attend the seminars of your choice.

1. "Antennas 101: Beyond the Mail-Order G5RV" • Ken Kopp, KØPP, SAT 9:30 AM Riverview A & B REPEATED SUN 9:30 AM Riverview
Primarily for the new ham, this is a brief discussion of the G5RV antenna, followed by a presentation of alternative simple antennas that work well. Includes coax cable application suggestions, and hands-on connector installation.
2. "The Challenge of QRP" • Bill Todd, N7MFB Pres., Northwest QRP Club SAT 9:30 AM Riverview C
A discussion of the theory and practice of low-power (QRP) operating. Includes technical tips on antenna design, solid state QRP design, and DX tips.
3. "Emergency Communications - The Nuts and Bolts of ARES" • Rick Palm, K1CE Field Services Mgr., ARRL Hq. SAT 9:30 AM Seaside A
This is a basic tutorial on the Amateur Radio Emergency Service - ARES.
4. "Data Communications - From Morse to Pactor" • Dr. Alan Chandler, K6RFK Dir. of Engrg., Kalmus Engineering SAT 9:30 AM Seaside B & C
A description of how amateur data communications got to where it is, and where it is.
5. "Baluns - What They Do and How They Do It" • Roy Lewallen, W7EL SAT 11:00 AM Riverview A & B REPEATED SAT 2:30 PM Riverview B
Besides learning how, when, and why to use baluns, you'll learn how they work and how to make them. For the beginner as well as old-timers.
6. "The Status of DXCC" • Bill Moore, NC1L, ARRL Sr. DXCC Awards Technician SAT 11:00 AM Riverview C
An update of the backlog and present status of the DX Century Club (DXCC), with a slide presentation of the DXCC desk and support personnel. There will be a question and answer session.

Seminar Topic Info

Continued from page 9

7. **"The American Red Cross and Amateur Radio:
A Partnership Through the '90s and Beyond"**
Michael Riley, KX1B Associate, Disaster Communications, Amer. Red Cross
SAT 11:00 AM Seaside A
Learn of the newest technologies in Red Cross disaster communications, training programs in development, plus future plans - all resulting from lessons learned during recent major disasters.
8. **"Beginning Packet - Getting Started" • Mike Dunlap, K7MYU SAT 11:00 AM
Seaside B & C REPEATED SUN 9:30 AM Seaside B & C,**
This session covers the basics of packet: what is a TNC, how to connect your packet station, making connects, and the elements of BBS operation..
9. **"Getting It All Together" • Mary Lou Brown, NM7N Vice Dir., ARRL NW Div.,
SAT 1:00 PM Riverview A REPEATED SUN 11:00 AM in Riverview A,**
This seminar is especially for the beginning ham. Discusses the equipment needed for a station; how to assemble the pieces of equipment and test them out; getting on the air.
10. **"Better Audio Techniques for Transmitting and Receiving" • Ken Glanzer, K7GCO
SAT 1:00 PM Riverview B**
Clean, crisp, noise-free audio and effective transmit "punch" is the key to a very high percentage of returns to your calls under all conditions. DSP (digital signal processing) techniques enable clear communications when otherwise not possible.
11. **"The FCC Forum" • John B. Johnston, W3BE Chief, Personal Radio Branch, FCC
SAT 1:00 PM Riverview C**
A briefing on rule making at FCC related to the amateur services.
12. **"When Disaster Strikes - FEMA's Role in Disaster & Emergency Communications"
Denny Jenkins, Telecommunications Mgr., FEMA/MERS
Gerald Farris, KA8EMW Electronic Technician, FEMA/MERS
SAT 1:00 PM Seaside A**
This session will include a briefing on the Federal Response Plan and the National Plan for Telecommunications Support, and a discussion of the relationship between RACES and State or FEMA communications plans.
13. **"Intermediate Packet - Effective BBS Use" • Evan Burroughs, N7IFJ,
Chief Packet Engr., State ARES/RACES Unit, OR Sect.
SAT 1:00 PM Seaside B & C REPEATED SUN 11:00 AM Seaside B & C**
Discusses the use of helpful, less well-known commands of MSYS and W0RLI BBS.
14. **"Communicating Effectively Using Proper Operating Techniques" • Doug Stroh,
WA7EJP SAT 2:30 PM Riverview A REPEATED SUN 11:00 AM Riverview C**
Getting your message through is the bottom line! This workshop will show you proper procedures for all bands; includes what to say and what not; streamlining your communications; using autopatches, etc. We will answer your questions on operation. This is another seminar especially for new hams.
15. **"ARRL Forum" • George Wilson, W4OYI President, ARRL
Mary Lewis, W7QGP Director, ARRL NW Div.
SAT 2:30 PM Riverview C**
Discussion of issues currently facing amateur radio, Especially the selling of 200 MHz of amateur frequencies (HR707 and S335). The League officials will answer questions from the floor.

Information Continued

16. "Emergency Response - The Personal Side" • Dale Hunt, WB6BYU
SAT 2:30 PM Seaside A
Emergencies tend to be times of great stress and confusion. As hams, we want to help out without making things any worse. This is a practical discussion of what to do when responding to an emergency.
17. "Advanced Packet Radio" • Johan Reinalda, WG7J
SAT 2:30 PM Seaside B & C
Emergencies tend to be times of great stress and confusion. As hams, we want to help out without making things any worse. This is a practical discussion of what to do when responding to an emergency.
18. "Electronic Project Construction: Methods, Materials, & Tools"
Emerson M Hoyt, WX7E, Dir. of Engrg., Hoyt Instrument Laboratory
SAT 4:00 PM Riverview A REPEATED SUN 9:30 AM Riverview A
Intended for newcomer and old-timer alike, this seminar is a review of various electronic construction methods, of the materials used, and of the various tools required for each construction method.
19. "Direction-Finding and Fingerprinting of Transmitters - How It All Works"
Mark Walker, W7CLU
SAT 4:00 PM Riverview B
Discussion includes doppler, double-duckie and dual-dipole arrays, and transmitter fingerprinting systems. Both commercial and home-brew equipment will be covered.
20. "Rescue 621 and Emergency Communications"
Sr. MSgt. Wm. E. Kratsch, WA6TUV, Director of Communications,
939th Operations Group, 939th Rescue Wing, USAF Reserve
SAT 4:00 PM Seaside A
This is a discussion of Emergency Communications from a military point of view.
21. "HF Digital Communications" • Johan Forrer, KC7WW
SAT 4:00 PM Seaside B & C
HF digital communication modes including RTTY, AMTOR, PACTOR, and CLOVER will be discussed. Also covered will be modulation and bandwidth methods and requirements, analog and DSP-type modems, and coding for speed and reliability.
22. "Getting Started in Hidden Transmitter Hunting" • Dale Hunt, WB6BYU
SUN 9:30 AM Riverview A
Hidden Transmitter Hunting ("T-Hunting" or "Bunny Hunting") is a fun activity with some practical uses. We'll show you how you can get started with simple, effective equipment, and answer your questions.
23. "The Development of Emergency Communications Plans and Systems"
Russ Dedrickson, WA3FBU
SUN 9:30 AM Seaside A
This seminar is developed to provide guidance and examples for Emergency Management/Emergency Communication Group Managers in the development of emergency communications systems and plans.

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Exhibitors

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| AEA | LJA (PC Power) |
| Alinco | Motron Electronics |
| Allantech | MARS |
| Amateur Radio Supply | Mr. Nicad (EH Yost) |
| American Red Cross | MFJ |
| Amateur Radio Relay Group | NCG/Comet |
| ANLI International | Nordlund Distributing |
| ARRL | Nuts And Volts |
| Antennas Northwest | OEM Services |
| B&B Instruments | Oregon Air Guard |
| Battery Tech | Oregon Tualatin Valley ARC |
| Bearcat Radio Club | Portland ARC |
| Bob's Publications | QCWA |
| C-COMM | QSL Art |
| City of Roses 10-10 | Ramsey Electronics |
| Charles Simmons | Reno Radio |
| Computer Nut | Rich Imaging |
| Curleys Engraving | RT Systems |
| DC Power | Scanware Associates |
| Dunestar Systems | Smiley Antennas |
| Falcon Communications | Sound Radio Products |
| Ham Radio Outlet | Swiech Communication Systtems |
| Handcrafted Wood Products | St Helens Electronics |
| Hats For Hams | Startek International |
| Hoodview ARC | Star Fire TEC |
| ICOM America | Sunset Empire ARC |
| IC Systems | 10-10 |
| Index Laboratories | The Radio Place |
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| K7QN Repeater | Yaesu |
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1993 SeaPac Ham of the Year

Rich Scoble, WA6NKQ

Rich holds an extra class license and is a resident of Whidbey Island, Washington. He is a retired teacher of math and electronics. He uses these skills as an instructor in classes for New Hams. He is Past President of the Island County Amateur Radio Club and currently is a member of the Board. Rich is an avid DX'er and makes his ham shack available to others for contesting. Besides putting together amateur activities, he participates in a variety of civic activities.

1993 Club of the Year

Portland Amateur Radio Club

PARC is an active and dedicated club focused on its continuing tradition of protection of the Amateur Service, development of new radio techniques, public service, international goodwill, contesting, emergency services, and camaraderie.

Founded in 1941, they were instrumental in the formations of F.A.R.S. PARC regularly teaches licensing classes and holds V.E. Testing. They maintain stations at Kelly Butte and a repeater at 146.74 MHz. When the City of Portland threatened the future of Ham towers they formed a defense fund and successfully negotiated a favorable antenna ordinance making Portland the most tower-friendly city in Oregon. Currently they assist other jurisdictions on the preparation of ordinances and have written a manual for Hams applying for tower licenses in the City of Portland.

PARC recognizes that the future health of amateur radio lies in its ability to serve, its relevance to society, and its attractiveness to youth. They are establishing a youth auxiliary. Their goal is to ensure the longevity of our favorite pursuit.

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All bands yet truly portable (5 1/2"W x 4"H x 6"D). Not only is the transceiver compact and rugged, but its low power drain means a weekend of use on a small battery.

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Banquet Program

George Wilson III, W4OYI

GUEST SPEAKER

New ARRL President George Wilson III, is no stranger to the ARRL official family, having worked his way up through the offices of vice director, director, vice president, and first vice president. His first term as League president will run through January, 1994.



George is senior partner in the law firm of Wilson, Wilson and Plain, in Owensboro, Kentucky. George received a B.A. and J.D. degrees from Washington and Lee University. He joined Wilson, Wilson and Plain following law school in 1956.

George, who was chairman of the Board's code-free license study committee in the mid-1980s, gives top priority to encouraging new code-free licensees to experience more facets of Amateur Radio. "In the committee's study," he says, "we found three countries with code-free licenses that had very high rates of upgrading. Those countries attributed their success to programs aimed at bringing the new licensees into their national organizations as members, and including them in traditional Amateur Radio activities."

George sees the code-free license as a "way point" in one's amateur career and is concerned about attracting more new licensees to ARRL membership. He proposes such operating activities as "CW operating event for code-free licensees" and other innovative ideas.

STANLEY HAMM IV

The 1993 banquet program is highlighted by a visit from Stanley Hamm, who has really done it now. The FCC is after him big time. For those of you who have seen past visits from Stanley you'll really enjoy this one.

ARRL GUESTS

Mary Lewis, W7QGP, NW Division Director
Richard K. Palm, K1CE, Field Service Manager
Bill Moore, NC1L, DXCC Manager

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 by 1967. Greg became Judge Milnes in 1969 and is currently a Circuit Court judge for Washington County.

Greg operates mostly HF DX. He currently runs an ICOM 751, Heath 201 and after a two-year building project with W7NI, now has the "son of Big Bertha" amplifier (2 x 4 1000As). Greg is a member of the ARRL (past Assistant Director), QCWA, DXCC, FARS, Willamette Valley DX Club and OTVARC (past president and director).

Prize Drawing Information

Need Not Be Present To Win

KenwoodTS 50S Mini HF
KenwoodTM 741A Tri-Band VHF/UHF
ICOM W21ATDual Band HT
Alinco DR600TDual Band Mobile
Yaesu 2400H2m Mobile

Must Be Present To Win

Yaesu FT411E2m Mobile
ICOM IC 2iA2m HT
Alinco DJ1802m HT
MFJ209 SWR Analyzer

(none given 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 1-2PM 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 AWARDS

Posted in the lobby and
on stage for 2 hours.

Those unclaimed will be re-issued.

SPECIAL

Early Bird Award

Startek Frequency Counter
IC Systems Dual Band Antenna
Kenwood TH28A 2m HT

LADIES PROGRAM

Ladies Hospitality Suite, Huntley Inn, Room 125

SCHEDULED HOURS

Friday, June 4	5 pm to 8 pm	Coffee, Cards and Conversation
Saturday, June 5	9 am to 5 pm	Coffee, Treats, Seminars, and Friends
Sunday, June 6	9 am to 12 noon	Coffee, Treats and a Seminar

SEMINARS

Saturday 9:30 to 11:00 am	Confessions of a Scrimshander by Randy Veenker, Toastmasters International
Saturday 2:30 to 5:00 pm	Creative Art of Rubber Stamping by Lela & Lori, of First Impression
Sunday 9:30 to 11:00 am	Northwest Coast Indian Cultures by Jim Burgeron, Sea Grant Extension Agent OSU

LADIES LUNCHEON

**Oceanview-Best Western
Seaside Room**

Sat: 11:30 am - 2:00 pm

"Mystique From the Sea"

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TREASURE HUNT

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Friday evening, Saturday and Sunday

Free Tickets
available in the Ladies Hospitality Suite,
Huntley Inn, Room 125

Participants must be 21 years
of age or older

Good Luck!

CONTRIBUTORS

Thanks to the following who have contributed to the Ladies Program

Craig Maxey, WB7RFA, Author, "Caribbean Licensing Guide", Beaverton, OR
Oriflame International, Karen Cole, Portland, OR
ReTree International, Frank Lockyear, President, Wilsonville, OR
State Farm Insurance, Agent Jerry Ross, Vancouver, Washington
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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 available 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.

Of course, neither RAGs nor **SEA-PAC** can accept any responsibility for the condition or operability of any equipment, nor can we be held culpable for any equipment damaged as a result of the use of this equipment.

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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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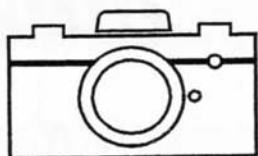
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Thank You.

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June 4 & 5, 1994

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Office Use Only

Valid Only When Presented At Registration Desk
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_____ Registrations at \$6.00 ea. -----	\$-----
_____ Teens Convention Registration at \$2.00 ea. (No Awards) -----	\$-----
_____ Children 12 and under FREE.	
_____ Flea Market Tables at \$10 per table per day or \$17 per table for 2 days	\$-----
_____ Saturday QCWA Lunch at \$10.00 -----	\$-----
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Note: All registrants, including convention sponsors, are eligible for prize drawings and/or contest awards.

NAMES (please print)

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NOTE: Flea Market Participants must be registered for the convention.

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The image shows the front panel of the ICOM IC-737 radio. It features a large LCD display showing '21.295.00' and '21.305.00'. The panel is filled with various controls including knobs for volume, tone, and speed, and numerous buttons for functions like TUNE, COMP, ATT, PRE AMP, RIT, DTX, and MEMORY. Callout lines point from descriptive text boxes to specific features on the radio.

Push FULL to activate full break-in (OSK) function.

Push ANT to select antenna (two antenna connections available).

Bright and large LCD shows modes, receive and transmit frequencies.

Using the KEYPAD, select a desired band or directly enter frequencies.

Push TUNE/TUNER to instantly activate the internal 160-10 meter automatic antenna tuner and match your rig to the selected antenna.

Push COMP to activate the built-in speech compressor increasing average talk power.

Push ATT or PRE AMP to reduce interference or improve weak signal reception.

Push RIT and/or DTX to change the transmit or receive frequency ± 2.5 KHz or ± 1.25 KHz (selectable).

Rotate MEMORY CHANNEL SELECTOR to select a channel from 101 available memories (memories store frequency, mode, antenna selection and tuner on/off condition).

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Press MP-W to automatically write the present operating frequency and mode to memo pad memory.

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Press NOTCH and adjust to eliminate annoying beat signals.

Adjust KEY SPEED to vary the speed of the internal electronic keyer.

Press SSB, CW/N, AM, or FM to select desired operating mode.

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