

# SEA PAC



**ARRL NW Division Ham Convention**

**May 31st, June 1st & 2nd, 1991**

**Seaside Convention Center**

**Seaside, Oregon**

**SPONSORED BY:**

**Oregon Tualatin Valley  
Amateur Radio Club**



# O TVARC And ICOM

AMERICA, INC.

## Present: The Winning Team At Wild West Casino Night

Friday May 31, 1991, 7:30-10:30PM.

Seaside Elks Lodge—3 Blocks South Of Convention Center

**Blackjack♣Roulette♠Craps**

O TVARC  
and

ICOM will be co-sponsoring Casino Night this year. There will be food, lots of prizes and a no host bar for those who wish a strong libation.



*Good Luck To All*

*Fun Games & Prizes  
Room Still Available  
You Can Register  
At The Door  
Friday Night.*



# Contents

Page

Convention Schedule -----	2
Special Events -----	3
VE Testing -----	3
Seaside Area Map -----	4
Convention Map -----	10-11
Schedule Of Seminars -----	12-14
Seminar Topic Information -----	15-18
Exhibitors -----	23
Banquet Program -----	24-25
SEA  PAC Ham And Clubs Of The Year Awards -----	26
OTVARC Scholarship -----	27
Prize Donors/Contributors -----	28
Prize Drawing Information -----	29
Convention Committee Chairmen -----	30
Convention Committee Members -----	31
Ladies Programs -----	32
Bus Schedule -----	35
RAGs Test Bench -----	35
Index Of Advertisers -----	38
SEA  PAC 1992 Registration Form -----	40

For Convention  
Information And  
Announcements

Listen On:

145.450<sub>MHz</sub>

(-600)

Don't Miss The  
Transmitter  
Hunt.  
Sunday, 1PM  
See Seminars Page 16

Ladies Treasure  
Hunt See Page 32.



# Convention Schedule

## Friday, May 31

Registration -----	11AM-8PM
Exhibit & Flea Market Setup -----	11AM-9PM
Social Casino Night (Elks Lodge) -----	7:30-10:30PM

## Saturday, June 1

Registration -----	8AM-4:30PM
<b>Convention Hall Hours</b> -----	<b>9AM-4:30PM</b>
Ladies Treasure Hunt -----	All Day
Snack Bar -----	All Day
Kids Krayons & Kartoons (Mariner Room) -----	9AM-4:30PM
VE Exams (Pre-Registration)(Our Saviour Church) -----	9AM-12N
Seminars (Pages 15-18) -----	9:30AM-5PM
Ladies Luncheon (Dolphin Rm 2&3, Shilo Inn) -----	11:30AM-200PM
QCWA Luncheon (Oceanview Resort Motel) -----	12N-2PM
VE Exams (Walk-Ins, See Page 3 For Details) -----	1PM-4PM
ORRC Meeting (Town Center Mall Meeting Room) -----	1PM-???
TOPS Meeting (Riverview A&B) -----	4PM-???
Banquet (Convention Center) -----	7PM-9:30PM

## Sunday, June 2

Registration -----	8:30AM-12N
<b>Convention Hall Hours</b> -----	<b>9:30AM-2PM</b>
Seminars (Pages 15-18) -----	9:30AM-12N
Snack Bar -----	9:30AM-2PM
Kids Krayons & Kartoons (Mariner Room) -----	9:30AM-12N
Grand Awards (Convention Center) -----	1PM-2PM
<b>Convention Closes</b> -----	<b>2PM</b>

# Special Events

## ICOM Wild West Casino Night

**Friday-7:30PM** - 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. Free hors d'oeuvres and no host bar available.

### VE Testing-Two Sessions:

#### 9AM

Although this session is set aside for preregistered candidates, we may be able to accommodate a few walk-ins on a space-available basis. To preregister, send a completed FCC Form 610, photocopy of your current license (if applicable) and check or money order for \$5.25 payable to ARRL/VEC. Mail these by April 30 to Sea-Pac VE Team, c/o R. Mayer, 6115 S.E. 13th Ave., Portland, OR 97202. We can seat 60 people at a session, so applications will be taken on a first-come, first served basis.

#### 1PM

Although we accept pre-registrations who specifically request an exam at the afternoon session, we anticipate that the greater number of candidates will be walk-ins. If there are applicants for the morning session we cannot seat, they will have preference for admission to the afternoon session. Candidates will need to present the same items as for the morning session: A photocopy of your current license (if applicable) completed FCC Form 610 and check for \$5.25 payable to ARRL/VEC.

#### Remember

All candidates must present 2 pieces of I.D. at the test session: Their original ham license (if applicable) and valid photo-I.D., either a driver's license or DMV I.D. will satisfy this FCC requirement.

Testing is conducted at Our Saviour's Lutheran Church (across from the Convention Center). Please be prompt!!! Late arrivals will not be guaranteed a seat in the test session. If you have any questions, call H. Lea T. Ball, AL7W, at (503) 777-1032.

### Ladies Luncheon

**Saturday-11:30AM** - Shilo Inn-Dolphin Rooms 2 & 3. "Travel Today In The USSR" presented by Mary Lou Brown, NW Div. Vice Director.

### QCWA Luncheon

**Saturday-12N** - Oceanview Resort Motel..

### TOPS Meeting

**Saturday-4PM** - Convention Center, Riverview A&B Rooms.

### ORRC Meeting

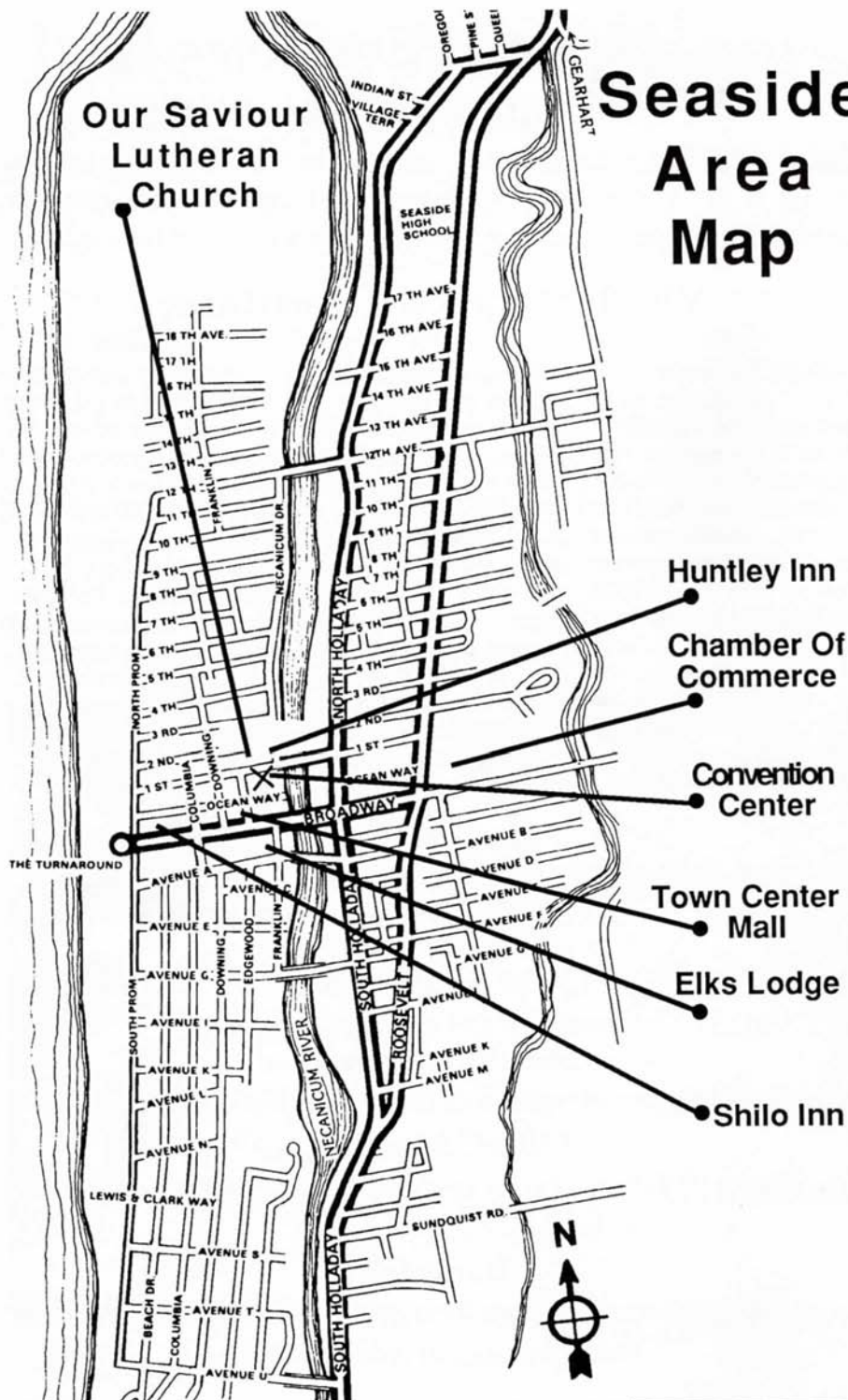
**Saturday-1PM** - TownCenter Mall (Broadway & Edgewood), upstairs meeting room.

### Banquet

**Saturday-7PM** - Convention Center main floor. Doors open at 6:45PM. Featuring Gordon West, WB6NOA.

**Our Saviour  
Lutheran  
Church**

# Seaside Area Map





# HAM RADIO OUTLET

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**JUNE 8th 1991**

**10:00 AM TO 5:30 PM**

**COME AND REGISTER TO WIN THE IC-W2A GRAND PRIZE !!  
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IDAHO:**

**1-800-854-6046**

**11**

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PORTLAND, OR - SALEM, NH - SAN DIEGO, CA - VAN NUYS, CA - WOODBRIDGE, VA**



BARBARA ROBERTS  
GOVERNOR



OFFICE OF THE GOVERNOR  
STATE CAPITOL  
SALEM, OREGON 97310-0370  
TELEPHONE: (503) 378-3111

May 31, 1991

GREETINGS:

I am very pleased to welcome members and guests of the Pacific Northwest Ham Radio Operators for the Northwest Divisional Convention in Seaside. Inviting Ham operators from the Soviet Union as part of the Friendship Amateur Radio Society will add further to the goodwill relationships that are being built between our two countries.

You will gain on a personal basis as well, for now you will have faces and smiles to associate with the information and laughter you have shared over your radios.

If this is your first trip to Oregon, I hope you will also have time to visit other areas of the state. We are proud to show off our scenic beauty, and I am confident you will enjoy the friendliness of our people.

Again, welcome to Oregon and my best wishes for a successful convention.

Sincerely,

Barbara Roberts  
Governor



## Welcome to SeaPac 91!

BE SURE TO STOP BY OUR BOOTH  
FOR YOUR FREE GIFT!!!



**cushcraft**  
CORPORATION



**AMERITRON**



**ROHN**  
TOWERS



**Larsen Antennas**  
The Amateur's Professional™

**KENWOOD**

**MFJ**

**rfconcepts**

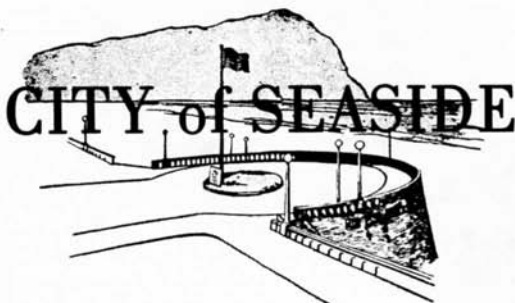


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989 BROADWAY  
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April 22, 1991

PACIFIC NORTHWEST HAM RADIO OPERATORS,

On behalf of the citizens of Seaside it is with great pleasure that I welcome you to the Northwest Divisional Convention.

For some of you this will be your first visit to our City..you are in for a really great weekend. To the rest of you, WELCOME BACK!

Seaside is still on a roll...we celebrated the first anniversary of our new City Hall/Fire Station complex and will soon complete a large addition to the Convention Center and Police Station. The Convention Center will be the finest in the country for a city of our size.

Please keep in mind, if it is fun to play in Seaside, and it is, it is fun to live and work in Seaside. Come on back and join us..we'll have a ball!

Sincerely,

Walter N. Johnson  
Mayor

WNJ:td

# FARS AND RADIO SPORT IN AMERICA, 1991

## FARS Wants You!



*You can become a member of the most exciting amateur radio organization under the sun - the Friendship Amateur Radio Society, Inc. (FARS).*

FARS is a non-profit, public benefit corporation dedicated to enhancing radiosports, friendship, travel exchanges, and cooperative ventures between hams across the globe. FARS is an outgrowth of the first US/USSR Friendship Radio Games held in Khabarovsk, USSR in 1989 (see March & May 1990 issues, **QST**).

## RADIO GAMES -- USA

In 1990 FARS invited two Soviet amateurs from Khabarovsk to attend SEA-PAC to engage in planning for the 1991 games you are now attending.

**NOW, in 1991**, FARS brings you the sister city Radio Sport Games, featuring teams from the US, Japan, and the Soviet Union. Your expertise, support and participation in the "91 games" and other FARS' programs is needed and welcomed! Associate members will receive a special, numbered, members' certificate and commemorative FARS lapel pin bearing the logo you see here, made in USSR.

All associate members are eligible to apply for US/USSR exchanges, and to participate in the 1991 radiosports games and awards programs. Those joining as Benefactors will be honored with a handsome wall plaque.

☐ **YES!** I want to become an associate member of FARS, and receive my special certificate. Enclosed is my \$10 annual membership donation.

☐ **YES!** I wish to receive monthly updates of FARS activities in the FARS newsletter. Enclosed is my \$15 annual newsletter donation.

☐ **YES!** I want to become a special member and be mentioned in FARS' annual report. Enclosed is my annual donation (includes basic membership) of:

☐ **CONTRIBUTING \$100** \* ☐ **SUPPORTING \$250** \*\* ☐ **BENEFACTOR \$1,000** \*\*

\* AVAILABLE TO INDIVIDUALS

\*\* AVAILABLE TO INDIVIDUALS OR ORGANIZATIONS.

☐ Please send me \_\_\_\_\_ FARS lapel pins (made in the USSR!). \$7.50 each enclosed.

NAME \_\_\_\_\_ HAM CALL \_\_\_\_\_ CLASS \_\_\_\_\_

STREET \_\_\_\_\_ CITY \_\_\_\_\_

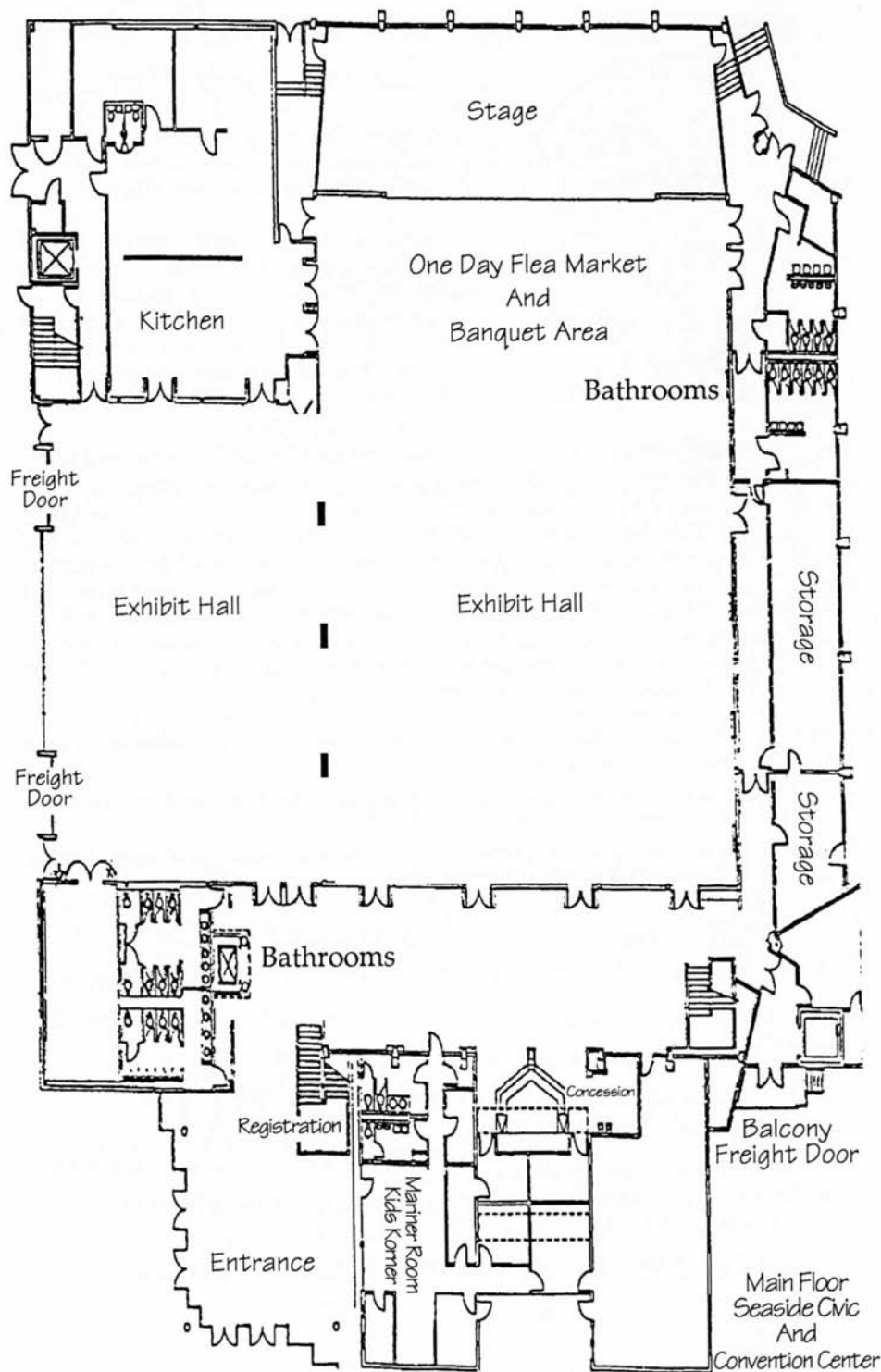
STATE \_\_\_\_\_ ZIP \_\_\_\_\_ ARE YOU AN ARRL MEMBER? ☐ YES ☐ NO

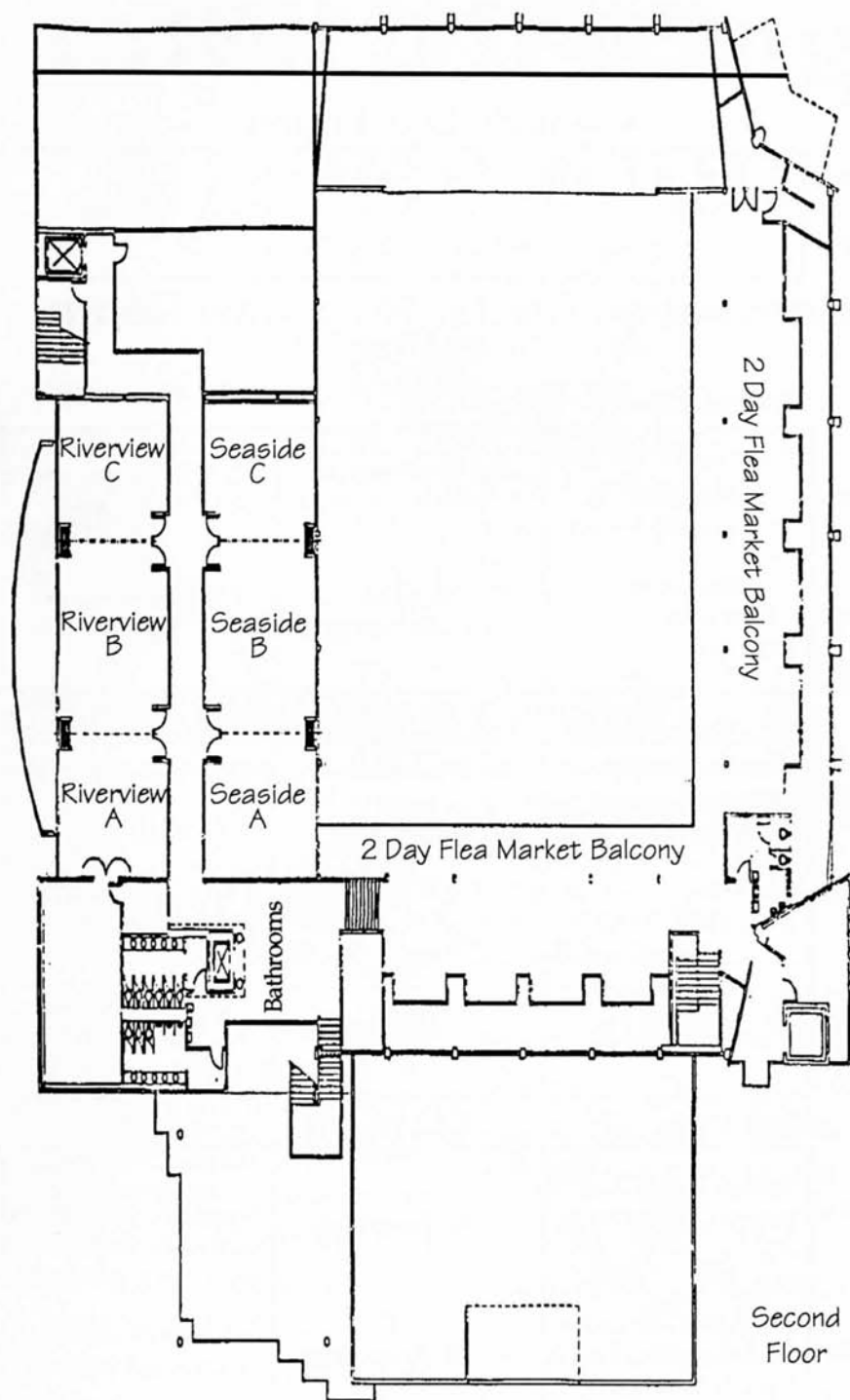
TELEPHONE (optional) \_\_\_\_\_

MAIL TO: FARS  
P.O. Box 13344  
Portland, OR 97213

**VISIT OUR BOOTH AT SEA-PAC  
ATTEND OUR SEA-PAC GAMES AWARDS PRESENTATION  
MEET MEMBERS OF THE SOVIET, US  
AND JAPANESE RADIO SPORT TEAMS**







Second  
Floor

# SEA PAC 1991

## Seaside Elks Lodge

Friday,  
May 31  
7:30PM

### WILD WEST CASINO NIGHT

An evening of fun "No Stakes" gambling. Snacks, excitement and prizes. No host bar.

## Convention Center

Saturday,  
June 1

### Mariner

### Seaside

### Riverview

9:30AM	<b>GETTING THE MOST FROM YOUR ANTENNA SYSTEM (2)</b> Ken Kopp, KØPP	<b>BUILDING A BIG BERTHA LINEAR AMPLIFIER (30)</b> Hon. Greg Milnes, W7AGQ	<b>CW RECEIVING (24)</b> FARS
11:00AM	<b>BUILDING AFFORDABLE HIGH PERFORMANCE YAGIS FOR HF (28)</b> Ken Glanzer, K7GCO	<b>PACKET RADIO FOR THE BEGINNER (20)</b> Jeff Freedman, K7JF	<b>CW RECEIVING (24)</b> FARS

### Afternoon, Saturday, June 1

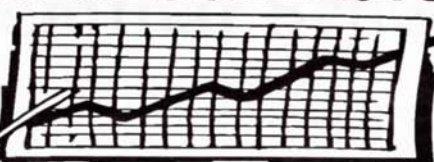
1:00PM	<b>AUTOMATIC REMOTE MOUNTED HF ANTENNA TUNERS (8)</b> Gordon West, WB6NOA	<b>INTERMEDIATE PACKET RADIO (21)</b> Jim Wagner, KA7EHK	<b>CW PILEUP RECEIVING (25)</b> FARS
2:30PM	<b>BALUNS—WHAT THEY DO AND HOW THEY DO IT (16)</b> Roy Lewallen, W7EL	<b>ADVANCED PACKET RADIO (22)</b> Jim Wagner, KA7EHK	<b>CW SENDING (26)</b> FARS
4:00PM	<b>THE MYSTIQUE OF GROUNDING (18)</b> Al Chandler, K6RFK	<b>TOPS</b>	<b>CW SENDING (26)</b> FARS

### Sunday, June 2

9:30AM	<b>AMSAT—DEDICATED TO KEEPING AMATEUR RADIO IN SPACE (32)</b> Doug Loughmiller, KO5I	<b>2 METER TROPO DUCTING FROM WEST COAST TO HAWAII (9)</b> Gordon West, WB6NOA	<b>SARES—THE SOVIET AMATEUR RADIO EMERGENCY SERVICES (17)</b> Eugene Stavitsky, UW6CA/KB7LJW Mike Zavarukhin, UW6CN/AA7CH
11:00AM	<b>SHERWOOD TO SHUTTLE—SAREX 1990 (19)</b> Jim Yohe, KF7KY	<b>OREGON ARES ANNUAL MEETING (5)</b> Bob Dorman, KV7F	<b>HAM RADIO IN JAPAN (31)</b> Yoshio Abe, KD7AM



# Schedule of Seminars



**Convention  
Center**

**Shilo Inn**

**Saturday,  
June 1**

**Dolphin**

**Whale 1&2**

**Dolphin 2&3**

<b>RESOLVING INTERFERENCE TO NEIGHBORS ELECTRONIC EQUIPMENT (12)</b> Larry Stuker	<b>HOW THE DX BULLETIN IS PRODUCED (3)</b> Chod Harris, VP2ML	<b>SEE PAGE 14 OF COVENTION BROCHURE</b>	9:30AM
<b>COMPUTER BASED UTILITY PROGRAMS FOR DXERS &amp; HF OPERATORS (4)</b> Al Rovner, WA2TMP	<b>EMERGENCY PREPAREDNESS (10)</b> Chet McCoy, W7LRB		11:00AM

**Afternoon, Saturday, June 1**

<b>THE AMATEUR AUXILIARY TO THE FCC'S FIELD OPERATION BUREAU (29)</b> Luck Hurder, KY1T	<b>AMATEUR RADIO MEETS AMATEUR ASTRONOMY (34)</b> Sandy Mikalow, K7OOZ		1:00PM
<b>THE ARRL FORUM (27)</b> Mary Lewis, W7QGP	<b>TRANSMITTER HUNTING IN SOUTHERN CALIFORNIA (13)</b> J. Scott Bovitz, N6MI Kevin Kelly, N6QAB/5 Joe Moel, K9OV		2:30PM
<b>THE CODELESS LICENSE (6)</b> Mary Lou Brown, NM7N	<b>WONDERFUL WORLD OF MF &amp; HF COMMUNICATIONS—WHAT TO EXPECT ON 160—10 METERS</b> Rush Drake, W7RM (15)		4:00PM

**Sunday, June 2**

<b>SMALL EFFICIENT ANTENNAS FOR 160 &amp; 80 METERS (1)</b> Ken Kopp, K0PP	<b>WOMEN IN HAM RADIO: WHAT'S IN IT FOR YOU (7)</b> Mary Lou Brown, NM7N		9:30AM
<b>TO BE ANNOUNCED</b>	<b>WHAT DID YOU LEARN IN SCHOOL TODAY? (11)</b> Cynthia Wall, KA7ITT	↓	11:00AM

# Schedule of Seminars Continued:

**Oceanview  
Resort  
Motel**

**Shilo Inn  
Dolphin**

**Town Center  
Conference Rm**

	LADIES LUNCHEON		11:30AM
QCWA LUNCHEON	LADIES LUNCHEON		12:00PM
Afternoon, Saturday, June 1			
QCWA LUNCHEON	LADIES LUNCHEON	ORRC MEETING	1:00PM
QCWA LUNCHEON	LADIES LUNCHEON	↓	2:00PM
		?	2:30PM
Sunday, June 2			
			9:30AM
			11:00AM

# SEMINAR TOPIC INFORMATION

## **1. Small, Efficient Antennas for 160 & 80 Meters**

**Ken Kopp, KØPP. SUNDAY 9:30 AM, Seaside B.**

Ken will discuss several approaches to making the most out of limited space for antennas on these two bands. He will also cover receiving loops and ground systems.

## **2. Getting the Most From Your Antenna System**

**Ken Kopp, KØPP. SATURDAY 9:30 AM, Seaside B.**

This seminar will discuss why some antennas work and others don't. Emphasis will be on open wire and coax feed lines, connectors and tuners. Will have materials for a "hands-on" display.

## **3. How the DX BULLETIN is Produced**

**Chod Harris, VP2ML. SATURDAY 9:30 AM, Riverview A.**

This is a slightly tongue-in-cheek look behind the scenes of a state-of-the-art publishing operation. For hams and non-hams alike.

## **4. Computer-Based Utility Programs for DXers and HF Operators**

**Al Rovner, WA2TMP. SATURDAY 9:30 AM, Seaside C.**

Several utility programs will be demonstrated representing logging, contesting, DX database statistics, propagation forecasting and others. The programs are specific to IBM and clone computers.

## **5. Oregon ARES Annual Meeting**

**Bob Dorman, KV7F. SUNDAY 11:00 AM, Seaside A.**

The present status, future aims and projects of the Oregon ARES will be discussed. This seminar is intended primarily for Emergency Coordinators and Assistant ECs but is open to all ARES members and those interested in emergency services.

## **6. The Codeless License**

**Mary Lou Brown, NM7M. SATURDAY 4:00 PM, Seaside B.**

Mary Lou will have the latest information on the new entry-level codeless license. She will discuss the background of the license, current FCC regulations and examination procedures.

## **7. Women in Ham Radio: What's In It for You**

**Mary Lou Brown, NM7N. SUNDAY 9:30 AM, Riverview A.**

Women have been involved in amateur radio since its beginning. Today there are many facets of the hobby in which women are active. Some of these will be discussed, with information on how to get started.

## **8. Automatic Remote-Mounted HF Antenna Tuners**

**Gordon West, WB6NOA. SATURDAY 9:30 AM, Seaside A.**

This is a demonstration of remote active-automatic antenna tuners. Discover which type of tuner may tune a "condo" or marine random long wire system.

Continued next page



# SEMINARS CONTINUED

**9. Two Meter Tropo Ducting from West Coast to Hawaii**  
**Gordon West, WB6NOA. SUNDAY 9:30 AM, Seaside A.**

We will hear recordings of contacts between Southern California and Hawaii on 2 meters, 220, 450, 1270 MHz, and even 10 GHz. The program will include a laser demonstration of how tropospheric ducting occurs in the atmosphere.

**10. Emergency Preparedness-WHEN, Not IF**  
**Chet "Lucky" McCoy, W7LRB. SATURDAY 11:00 AM, Riverview A.**

A seminar designed to minimize the mystery and maximize the interest of amateurs in the handling of emergency traffic.

**11. What Did You Learn in School Today?**  
**Amateur Radio in the Classroom**

**Cynthia Wall, KA7ITT. SUNDAY 11:00 AM, Riverview A.**

The author of ARRL's newest fiction series, 'Night Signals' and 'Hostage in the Woods' talks about using amateur radio as a cross-curriculum tool to teach everything from writing to science.

**12. Resolving Interference to Neighbors' Electronic**  
**Entertainment Equipment**

**Larry Stuker, FCC Public Affairs Specialist. SATURDAY 4:00 PM,**  
**Seaside A.**

Larry brings our regulatory agency's approach and viewpoint to this perennial problem.

**13. Transmitter Hunting in Southern California**

**J. Scott Bovitz, N6MI, Kevin Kelly, N6QAB/5, Joe Moell, K0OV.**  
**SATURDAY 2:30 PM, Seaside A.**

The greater L.A. and Orange county area has the most active transmitter hunting group in the country. Come see a unique slide show and hear the panelists discuss the Southern California style of T-hunting.

**14. The Great SeaPac Transmitter Hunt**

**J. Scott Bovitz, N6MI. SUNDAY 2:00 PM, Outside.**

A Southern California-style transmitter hunt will be held on 2 meters. Three spiffy certificates will be awarded to the first, second, and third place finishers. Winner will be based on the lowest elapsed mileage from start to finish.

**15. The Wonderful World of MF & HF Communications**  
**What to Expect on 160 through 10 Meters**

**Rush Drake, W7RM. SATURDAY 2:30 PM, Seaside C.**

A band by band analysis of openings from the Pacific Northwest to the world, with times, locations and bearings in chart form. Rush will discuss what to expect through the remainder of Cycle 22, and will show several low-budget antenna designs.

**16. Baluns - What They Do and How They Do It**  
**Roy Lewallen, W7EL. SATURDAY 1:00 PM, Seaside C.**

# SEMINARS CONTINUED

Roy will discuss the theory and application of the balun, with emphasis on HF applications.

## **17. SARES - The Soviet Amateur Radio Emergency Service**

**Eugene Stavitsky, UWØCA/KB7LJW and Mike Zavarukhin, UWØCN/AA7CH. SUNDAY 9:30 AM, Riverview C.**

Eugene and Mike will give an update on Emergency services development in the USSR, with recent information concerning planning, development and operations.

## **18. The Mystique of Grounding**

**Al Chandler, K6RFX. SATURDAY 4:00 PM, Seaside C.**

A discussion of the problems of getting a good RF ground as it applies to antennas, radios, towers and power mains.

## **19. Sherwood to Shuttle - SAREX 1990**

**Jim Yohe, KF7KY. SUNDAY 11:00 AM, Seaside C.**

A documentary of Sherwood's Hopkins Elementary School's SAREX contact with astronaut Ron Parise, WA4SIR on 9 December, 1990.

## **20. Packet Radio for the Beginner**

**Jeff Freedman, K7JF and Bob Knight, N7CLZ. SATURDAY 11:00 AM, Seaside B & C.**

Packet radio can be very confusing to the beginner. This seminar discusses the basics of station setup, including radios, antennas, modems or TNCs and terminals. Basic operating principles and use of bulletin boards will also be covered.

## **21. Intermediate Packet Radio**

**Jim Wagner, KA7EHK. SATURDAY 1:00 PM, Seaside B.**

Enjoyment of packet radio can be increased when you understand the basics of networks and bulletin boards. Efficient use of these resources will be outlined in this session.

## **22. Advanced Packet Radio**

**Jim Wagner, KA7EHK - Moderator. SATURDAY 2:30 PM, Seaside B.**

Several panelists will discuss a variety of topics including node parameter settings, TCP/IP and the "layer description" of AX.25.

## **23. CW Competition: Receiving, 'Pileup' Receiving and Sending**

**John White, K7RUN-Moderator. SATURDAY 9:00 AM to 5:00 PM.**

**24. CW Receiving 9:00 AM to 12 Noon, Riverview B & C.**

**25. CW "Pileup" Receiving 1:00 PM to 2:30 PM, Riverview B & C.**

**26. CW Sending 2:30 to 5:00 PM, Riverview C.**

Both team and individual contestants will compete. There will be opportunity for a limited number of interested persons to observe the competitions. Times are approximate.

# SEMINARS CONTINUED

## 27. The ARRL Forum

Mary Lewis, W7QGP. SATURDAY 2:30 PM, Riverview A & B.

This forum will cover recent laws restricting possession of receivers; spectrum preservation; license fees; volunteer examination procedures; amateur radio in the classroom and many other topics of current importance to amateurs.

## 28. Building Affordable High Performance Yagis for HF

Ken Glanzer, K7GCO. SUNDAY 11:00 AM, Seaside B.

Ken will explain how to build that dream antenna using low-cost materials and ingenuity.

## 29. The Amateur Auxiliary to the FCC's Field Operations Bureau Luck

Hurder, KY1T. SATURDAY 11:00 AM, Seaside A.

Luck is Deputy Manager of ARRL Field Services. He will bring us up to date on the enhanced Official Observer program and the ARRL monitoring system and discuss how they relate to our day to day Amateur Radio operations.

## 30. Building a 'Big Bertha' Linear Amplifier

Hon. Greg Milnes, W7AGQ and Stan Griffiths, W7NI

SATURDAY 1:00 PM, Seaside A.

This seminar will discuss how to scrounge and apply surplus and flea-market parts for building a large HF linear power amplifier. Slides will be shown of the project's progress and the amplifier will be on display.

## 31. Ham Radio in Japan

Yoshio Abe, KD7AM - Moderator. SUNDAY 11:00 AM, Riverview C.

Several Japanese hams will give a short talk, interpreted by Yoshio, followed by opportunity for personal contact with the Japanese visitors.

## 32. AMSAT-Dedicated to Keeping Amateur Radio in Space

Doug Loughmiller, KO5L. SUNDAY 9:30 AM, Seaside C.

An illustrated talk on the future direction of the amateur satellite program.

## 33. ARRL Educational Workshop

Rosalie White, WA1STO. FRIDAY 4:00 to 8:00 PM, Seaside C.

Held on Friday from 4 to 8 PM, this seminar is especially for amateur radio volunteer evening instructors and school teachers who use ham radio in class, ham radio recruiters, or those who are interested in any of these activities.

## 34. Amateur Radio Meets Amateur Astronomy

Sandy Mikalow, K7OOZ. SATURDAY 1:00 PM, Riverview A.

This is a multimedia illustrated presentation on the melding of high-tech amateur astronomy with amateur packet radio. Sandy will talk about transmitting images and controlling an observatory by means of packet radio.





# FLYWEIGHT BODY with HEAVYWEIGHT FEATURES

Alinco's New DJ-F1/F4T Realized Super Compact Body and Plenty of Features including:

\*40 Memory Channels store Frequency, Shift direction, Split operation Setting, Tone encoder/Tone decoder setting (with optional Tone squelch unit), DSQ setting, Tone frequency and Offset frequency independently.

\*Digital Signal Display and Memory Function

The DJ-F1T/F4T has special memory channels for transmitting, receiving, and store "Two Digit" DTMF Tones, for communication messages. This feature allows for the DJ-F1T/F4T to receive a "Two Digit" message and display it at any later time, at the convenience of the operator.

\*Wide Band Receiving range

F1T:140-170MHz(AM Mode  
118-136MHz after modification)  
F4T:430-460MHz

- \*Battery Pack Lock
- \*Pager and Code Squelch
- \*Triple Stage Selective Power Output
- \*5W Output Power with Optional Battery Pack EBP-18N
- \*8 Scan Modes
- \*Programmable VFO Range Function
- \*Battery Save Function
- \*Six Channel Steps - 5, 10, 12.5, 15, 20, and 25KHz
- \*Priority Function (Dual Watch)
- \*Automatic Power Off (Programmable Timed)
- \*Automatic Dialer Function
- \*Illuminated DTMF Keypad
- \*Many Optional Accessories such as:  
EMS-8:Remote Control Speaker/Mic.  
EME-11:Earphone/Mic. with PTT/VOX  
EME-10:Headset with PTT/VOX  
EJ-2U:Tone squelch Unit  
EDC-33:Quick Charger (Compatible with standard battery pack)

and many more. . . .

DJ-S1T/S4T is Simple Type and Low-Price But Offers Features such as:

- \*5W Output Power with Optional Battery Pack EBP-18N
- \*Triple Stage Selective Power Output
- \*Dry Cell Battery Case Lock
- \*Programmable VFO Range Function
- \*Frequency Lock, PTT Lock Function
- \*One Touch Squelch De-Activation Function
- \*8 Scan Modes
- \*Wide Band Receiving Range
- Available Features with Optional DTMF Unit (DJ-10U) and DTMF Keypad (ESK-1) include:  
\*Pager and Code Squelch
- \*Digital Signal Display and Memory Function
- \*Automatic dialer Function
- \*Many Optional Accessories Available

\*Specifications  
Frequency Range:

DJ-F1T/S1T  
TX:144-148MHz  
RX:140-170MHz (AM Mode  
118-136MHz after Modification)  
DJ-F4T/S4T  
TX:440-450MHz  
RX:430-460MHz

Output Power:

\*with Battery Pack EBP-16N (Standard for F1T/F4T)  
Hi:2W(F1T/S1T) 1.5W(F4T/S4T)  
Mid:1W Low:0.1W  
\*with Optional Battery Pack EBP-18N  
Hi:5W Mid:1W Low:0.1W  
\*at 9V  
Hi:2.5W(F1T/S1T) 2W(F4T/S4T)  
Mid:1W Low:0.1W

Weight:

DJ-F1T/F4T Approx.:13.2 oz.:  
with Standard Battery Pack  
DJ-S1T/S4T Approx.:13 oz.:  
with Dry Battery case

Dimensions:

4.3(H) x 2.1(W) x 1.5(D) inch  
(Without Projections)

Specifications and features are guaranteed for amateur bands only and subject to change without notice.

**ALINCO ELECTRONICS INC.**  
438 AMAPOLA AVE. LOT 130  
TORRANCE, CALIFORNIA 90501  
Phone: 213-618-8616  
FAX : 213-618-8758

STAY TUNED with

# ALINCO

DJ-F1T

DJ-S4T



# KENWOOD

## Our new TS-850S just made the competition obsolete

**No competition class transceiver is even in the same ball park as the TS-850S.**

You'll find a superior inter-modulation dynamic range of 108 dB throughout the entire 100 kHz to 30 MHz range.

Kenwood's TS-850S is the only transceiver to feature Digital Signal Processing (DSP) — in both transmit and receive modes (with the optional DSP-100). This feature provides such greatly enhanced signal purity and richness that you'll want to experience it, to fully appreciate it.

Other advanced technology in the TS-850S includes 10 Hz step dual VFOs, multi-mode scanning, full and semi break-in CW, superior interference reduction, keyer, dual noise blanker, and RTT/XIT. 100 memory channels store, transmit, and receive frequencies independently. High boost for SSB signal "punch." Microphone supplied.

The Kenwood TS-850S. All band. All mode. One year warranty. In a class by itself!

**Key options**  
**DSP-100** Digital Signal Processor.

**AT-300** 160 - 10 m external antenna tuner.  
**AT-850** 160 - 10 m internal antenna tuner.  
**DRU-2** Internal digital recording unit.  
**IF-232C** Computer interface. **PG-2X** DC cable. **PS-52** Power supply. **SO-2** TCXO. **SP-31** Matching external speaker.  
**VS-2** Voice synthesizer. **YG-455C-1** 500 Hz CW filter for 455 kHz IF. **YG-455CN-1** 250 Hz CW filter for 455 kHz IF. **YK-88C-1** 500 Hz CW filter for 8.83 MHz IF.  
**YK-88CN-1** 270 Hz CW filter for 8.83 MHz IF. **YK-88SN-1** 1.8 kHz SSB filter for 8.83 MHz IF.

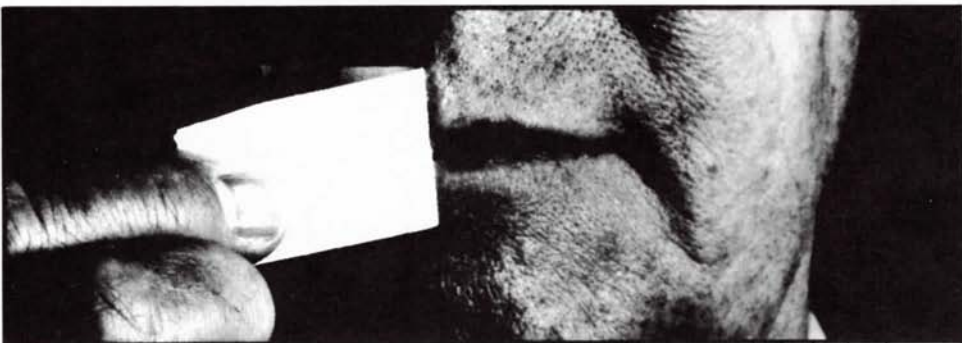
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Long Beach, CA 90801-5745  
**KENWOOD ELECTRONICS CANADA INC.**  
P.O. BOX 1075, 959 Gana Court  
Mississauga, Ontario, Canada L4T 4C2

# Grand Award

## ... pacesetter in Amateur Radio

Kenwood meets or exceeds all specifications. Contact your dealer for a complete listing of specifications and accessories. Specifications are subject to change without notice. Complete service manuals are available for all Kenwood transceivers and most accessories. \*One year warranty in the U.S.A. only.





# Now that you can speak, talk to Larsen.

We'll tell you how Larsen antennas can greatly improve your powers of communication. We'll also explain how Larsen 220 and 1296 MHz antennas are designed to give you the best performance.

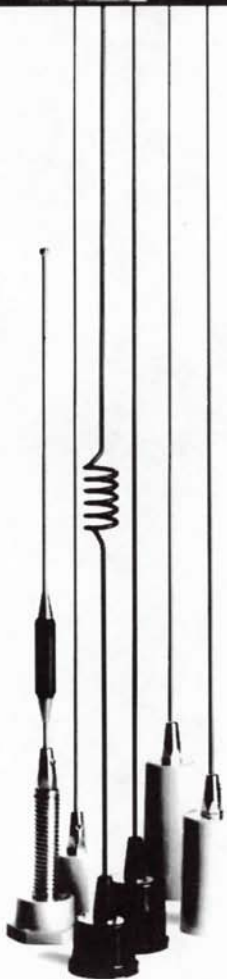
Talk to your Larsen amateur dealer today, and see if Larsen performance doesn't speak for itself.



## Larsen Antennas The Amateur's Professional™

See your favorite amateur dealer or write for a free amateur catalog.

IN USA: Larsen Electronics, Inc., 3611 N.E. 112th Avenue, P.O. Box 1799, Vancouver, WA 98668. 206-944-7551.  
IN CANADA: Canadian Larsen Electronics, Ltd., 149 West 6th Avenue, Vancouver, B.C. V5Y 1K3. 604-872-8517.





# EXHIBITORS

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Coos County Radio Club  
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Cynthia Wall, Author  
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Sunset Empire ARC  
Swiech Comm. Systems  
Yaesu  
YLRL  
Willamette Valley DX Club

*Due to publication deadlines we apologize for any omissions.*



# Banquet Program



**Gordon West, WB6NOA**

Gordon West, WB6NOA, has been a licensed ham for 25 years and holds a commercial general radiotelephone license with radar endorsement. In his numerous monthly articles in over 17 national magazines, Gordon makes the technical easy to read and fun to understand. His recent amateur radio licensing books, sold throughout the country by Radio Shack, have been a sellout. Everyone seems to enjoy his humorous style of writing.

Gordon West is a life member of the American Radio Relay League and a fellow with the Radio Club of America. All of this hard work has led to his recent nomination as ARRL Instructor of the Year.

Best of all, Gordo "live", allows us to take a humorous look at our amateur radio operating and some serious thoughts on where we are headed in the amateur radio service. He teaches radio classes almost 7 days a week so we are pleased to have "Gordo" for our banquet speaker.

## **Whoops, Did I Say That?**

A half-hour of hilarious recordings of hams making foul-ups on the air. Gordon West tunes into the lighter side of ham radio operators who will literally crack you up! Listen to a ham, on the air, when his tower blows down in the wind. Hear another ham fall completely asleep during a long-winded 160 meter QSO. Better yet,

listen to an old-time ham opening up the trap door of his Henry 3-K amplifier to see whether or not the tubes are glowing blue or red. (A snap that can be heard around the world!)

Finally, Gordon West works these hilarious recordings into a down-to-earth review of where we've been in the technology, what the future may hold for us in new operating modes and why we should have more.

## Master Of Ceremonies Jerry Dimmitt, WA6FCY/7

Jerry Dimmitt, WA6FCY/7, master of the subtle quip, has twenty-eight years of broadcasting experience. He has been a ham since 1958 and holds a general class license. Active on 2 to 75 meters he is a member of ARRL, QCWA and 10-10 #17418.

Jerry became a talk show host in Lancaster, California at the early age of 18. Since that time, he has worked in Eugene, Portland and Seattle. Jerry's talk

shows were the highest rated in both Seattle and Portland.

Catch Jerry "on the wrong side of a 20 year cycle with a full moon on the 3rd Tuesday" and "Gentle Jer becomes "Mad Dog Dimmitt!" Then listen for the fun as "Mad Dog" Dimmitt tells an unsuspecting caller who "ticks him off" to...."go leap!" It's hilarious. Jerry's listeners love both sides and they generally get both sides. 🐕

## 2 Raffles! -- 3 Prizes!

Raffle A

**icom** IC-24AT  
Dual-Band HT  
(sells for more than \$400)  
Tickets - \$1.50 each  
or 4 for \$5.00

Raffle B

First Prize  
**AEA** MM3  
Morse Machine  
(sells for about \$170)  
Tickets - \$1 each, or 6 for \$5

Second Prize  
**icom** GC5  
Station Clock  
(sells for about \$70)

## Hoodview Amateur Radio Club

*See you on the convention floor!*

A Non-Profit Organization



Presenting the second annual awards for an Amateur Radio Operator and two outstanding clubs at the banquet Saturday night, June 1, 1991.

## Ham Of The Year:

Nominations Are:

**Judith Shrader, KA7OFM**, is the Jackson County Emergency Coordinator for A.R.E.S. She has encouraged hams to work with search and rescue. Being a VEC Judith has helped countless people become hams through her teaching them code and theory. She is also secretary/treasurer of Rouge Valley ARC where she has been a member for 5 years. Judith is also active in public service.

**Roger McCoy, W7ADV**, has been active in public service for over 25 years most notably during the St. Helen's eruption. In addition he has assisted the Red Cross and several government agencies in emergency communications planning.

## Two Club Awards:

### Outstanding Achievement

At press time we have one nominee—Valley Radio Club of Eugene. The ham community has benefited most notably by the VRC's effort to secure a Lane County Amateur Radio Antenna Ordinance, a two year effort.

### Consistent Contribution

**Valley Radio Club of Eugene.** Their First ARRL charter was in 1932, over 50 years of service. They maintain a club station, are active contesters, donate equipment to new hams, have a Silent Key Assistance Program and are active in public service through ARES and the Red Cross plus much more.

**Tektronix Employees Radio Amateur Club.** By the nature of the membership, TERAC over the years has pushed the envelope of technical achievements from QRP to microwave to laser. They have also maintained emergency service readiness for Washington County.

**Portland Amateur Radio Club.** They've concluded an agreement with Portland to allow amateurs to provide tower engineering data, fielded a team to Khabarovsk Radiosport Games and are hosting international teams in 1991. They also are avid supporters of emergency communications for Portland.

**Olympia Amateur Radio Society.** This club conducts novice and tech classes twice a year, supplies "Elmers" for those who need assistance, operates repeaters, is active in public service, encourages QRP operation and hosted international teams for the Goodwill Games.



Susan Benson, N7EPE



# Oregon Tualatin Valley Amateur Radio Club Presents The 1991 Scholarship Winner

## JEFFREY ALAN BRYANT, KB7GCQ



OTVARC has chosen Jeff Bryant as the winner of the 1991 Scholarship. Jeff will receive \$1500.00 and has been accepted at Oregon State University.

In Jeff's own words, "I started out like many hams, on the C.B... I met a friend who was studying for his license and he got me very interested in amateur radio. After about four months of hard studying, I picked up my novice ticket and three weeks later my technician license.


"I've tried a little bit of everything in amateur radio, from contesting and homebrewing to public service like Artquake, though my favorite part is the technical aspect of amateur radio. I'm a very analytical person and like to know how things work.

"There's an infinite future for me in ham radio. Possibly this summer I'd like to go for my advanced class license and someday my extra class. I plan on joining the Oregon State Amateur Radio Club and participating in all their activities.

"I'm very active in school and have maintained a 3.40 GPA. A few of my achievements are: taking third in electronics from the Clackamas County Skills Contest, independent research in science projects, advancement in two science courses and academic achievement in year-book for three years.

"I plan on attending Oregon State University this fall and majoring in Engineering. After receiving a degree, I intend to be employed with the best engineers of the state and help with the development of Oregon's future electronic companies."

Good luck, Jeff, from all of us on the scholarship committee: Pat Griffiths, KA7UFG; Bob Orr, WF7Q; Don Branda, N7DDK; Wally Boleen, KC7TB.

If you are interested in finding out more about the 1992 OTVARC Scholarship come to the OTVARC Booth or write to: OTVARC Scholarship, PO Box 5132, Beaverton, OR 97006. 

Pat Griffiths, KA7UFG



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Multi-Band Antennas  
OEM Services  
Portland Radio Supply  
Reno Radio  
RF Parts  
Smiley Antennas  
Standard Radio  
The DX Bulletin  
Yaesu USA

*Due to publication deadlines we apologize for any omissions.  
Note: All registrants, including convention sponsors, are eligible for prize drawings and/or contest awards.*



THANKS YOU!!!

# Contributors

Alphabetical by last name & company.

Bonnie Bell Cosmetics  
Mary Lou Brown, NM7L, NW Div. Vice Director  
Cedar Hills Baptist Church, Ptld.  
Hoodview A.R.C.  
Mary Lewis, W7QGP, NW Div. Director  
Imogene McConnell  
Neil Maine  
Fred Molesworth, AF7S, TOPS  
John Newman, KA7QFY, ORRC  
Our Saviour Lutheran Church, Seaside  
Jan Pahl, Clatsop County Extension Agent  
Portland ARC  
Seaside Chamber Of Commerce, Seaside  
Seaside Elks Lodge, Seaside  
Seaside Safeway, Seaside  
State Farm Insurance Agent, Jerry Ross  
Tektronix Employees ARC  
Toaby's Garden  
Touch Of Mink  
Jim Walsh, W7LVN, QCWA

# Prize Drawing Information

## Grand Awards

*Need Not Be Present To Win*

Kenwood ..... TS 850S HF Transceiver  
ICOM ..... IC 229A 2m Mobile  
Yaesu ..... FT 212RH 2m Mobile  
Standard ..... C168 Mini 2m HT  
Alinco ..... DR 110T 2m Mobile

*Must Be Present*

Kenwood ..... TM 731A 2 Bander VHF/UHF  
Kenwood ..... TH 26AT 2m HT  
MFJ ..... 949D HF Tuner  
RF Parts ..... X500NA Diamond Antenna  
Falcon ..... 100 Watt 2m Amplifier  
Multi-Band Ant. .. Spider HF Antenna  
Ham Pro Antennas .. 3 Element 10m Beam

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

**ICOM**  
**IC2 SAT 2m HT**

# SEA PAC

## Co-Chairmen:

Wes Allen, K7WWG; Al Berg, WB7SIC

Jim Schaeffer, KB7ADH; Randy Stimson, KZ7T

## Committee Chairmen

In Alphabetical Order:

Awards	Susan Benson, N7EPE
Casino Night	Ray Deeth, K7VDQ
Exhibit Setup	Neil McKie, WA6KLA
Exhibitor Hospitality	Bobbi Antons
Exhibitors	Al Berg, WB7SIC
Flea Market	Rick Doescher, KB7JF
Kids Korner	Portland A.R.C.
Ladies Program	Betty Mickley
Printing/Advertising	Brad Beach, N7NVC
Prizes	Bud Butterfield, KC7PS
Registration	Brad Beach, N7NVC
Security	Doug Brown, N7KEJ
Seminars	Gene Single, K7IUN
Talk-In Booth	John Klein, KA7ICV
Treasurer	Susan Benson, N7EPE
VE Testing	H. Lea T. Ball, AL7W



# THE COMMITTEES

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

Due to publication deadlines we apologize for any omissions.  
In alphabetical order:

### Casino Night:

Bobbi Antons  
Tony Antons, KA7ZDE  
Mary Berg  
Larry Cronenwett, KA7WXN

Pat Griffiths, KA7UFG

### Exhibit Set-Up:

Wes Allen, K7WWG  
Arnie Chase, WA7CRI  
Doc McClendon, W7GWC  
David Nelson, WB7REC  
Jack Root  
Brian Stevens

### Exhibitors:

Wes Allen, K7WWG  
Pat Griffiths, KA7UFG  
Randy Stimson, KZ7T

### Exhibitor Hospitality:

Glenda McClure  
Marvel Noyes, KA7IZT  
Roger Noyes, KA7RNN

### Flea Market:

Jeff Durr, KA7AKU  
Roger Noyes, K7RNN  
Jack Smithson, KA7HOJ  
Bill Vesser

### Ladies Program:

Sharon Coan, KA7NAN  
Katy Lapay, N7GCL  
Val Roel, KA7QEV  
Debbie Smith, N7KAE  
Cheryl Stimson

### Prizes:

Wally Boleen, KC7TB  
Dale Planer, KA7TZU  
Floyd Ragmer, W7ONQ  
Ron Remsen, W7YOW  
Rick Schouweiler, KA5OLH

### Registration:

Bobbi Antons  
Barbara Bailey, KA7WTF  
Lorna Campbell, KA7RFD  
Aaron Freedman, N7TBS  
Jeff Freedman, K7JF  
Randi Graffey  
Jim Schaeffer, KB7ADH

### Security:

Hoodview ARC  
Thank you all.

### Seminars:

Tektronix Employees RAC  
Dick Pooley, W7HUY

### Talk-In Booth:

Bob Burgert, K0PB  
Rex Danton, KA7YKR  
Carl Hokanan, KA7CRN  
Martha Hokanan, KA7CRO  
John Johnson, N7OGM  
Marque Marriott, N7LWQ  
David Olson, N7IBI  
Handford Van Ness, KE7BB  
Roland West, K7MCK

### VE Testing:

Portland ARC  
Mike Arevaivos, KV7Z  
Gil Brentley, N7DCS  
Rob Butt, N7MZR  
Alan Churchill, AA7CV  
Pat Donahue, W7UMZ  
John Fallon, N7EDP  
Frank Moorhead, W7DWW  
Rollie Nielsen, NE7S  
Ron Pitney, N7HZR  
Jim Yohe, KF7KY



# Ladies Programs

## Saturday, June 1

9:30AM-4:30PM, Huntley Inn-Room #125

Ladies hospitality suite. Coffee-treats-friends-old and new.

10:00 -11:00AM, Huntley Inn-Room #125

"Climbing Your Family Tree" presented by Imogene McConnell.

11:30-2:00PM, Ladies Luncheon & Pgm.-Shilo Inn-Dolphin #2&3

"Travel Today In The USSR, Presented By Mary Lou Brown, NM7N.

3:30-4:30PM, Huntley Inn-Room #125

"Balancing Act For Busy People" presented by Jan Pahl,

Clatsop County Extension Agent.

All Day Saturday

"Ladies Treasure Hunt" presented by Seaside Chamber Of Commerce.

Free-Must Be 21 Years or Older.

## Sunday, June 2

9:30AM-1:00PM, Huntley Inn-Room #125

Ladies hospitality suite. Coffee-treats-friends-old and new.

10:00-11:00AM, Huntley Inn-Room #125

"Ribbon Of Life: The North Oregon Coast" presented by Neil Maine.

Noon-1pm, Huntley Inn-Room #125

"Issues Of Patriotism" presented by Capt. Dennis Dutton.

## Prizes Furnished By:

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Preserves and Promotes Amateur Radio  
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WB7SIC



KB7ADH



KZ7T



If You Have  
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Or A Problem  
Look For A  
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A Bright  
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SEA PAC  
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Remember, We Are All  
Volunteers. So Be Patient  
With Us And We Will  
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# HENRY RADIO IS THE PLACE ...THE BEST PLACE to fill all your data communications needs



## The TEMPO MPP1 TNC/printer. . . \$249

A unique new mobile data printer. It incorporates a packet controller with a 40 column thermal printer that operates on 13.6 VDC and interfaces with any mobile radio. In a recent user test it proved to have about twice as much audio level range tolerance as other TNCs. It is also an ideal unit for emergency work and a commercial version is perfect for dispatching service, emergency and police vehicles.

## The FSTV-430A, AEA's newest

The exciting FSTV-430 fast scan television transceiver makes getting on ATV easy and inexpensive...live or taped. Almost any video camera can be used. Simply plug it into the FSTV-430, connect to your 70 cm antenna and you're on the air. Use a standard TV for receiving signals and, of course, an amplifier will extend your range. It's reliable, portable and light weight and can be used in-station or mobile from any 12 VDC source. The only license required is a technician or higher.



## The PK232/MBX by AEA

...the only controller offering Morse Code, Baudot, ASCII, AMTOR, Packet, and facsimile Transmission & Reception plus the ability to monitor the new Navtex marine weather and navigational system...7 modes in one controller. The PK-232 makes any RS-232 compatible computer or terminal the complete amateur digital operating position. All decoding, signal processing and protocol software is on ROM. Only a simple terminal program (like those used with telephone modems) is required to interface the PK-232 with your computer.



## Here's a value you can't beat. . .the basic 8088

- 101 Keyboard
- Monochrome monitor
- 640K of RAM
- 360K floppy
- 2 serial & 1 parallel port

An excellent starter for both packet and business at the incredibly low price of \$595. Or for anyone requiring an extremely high speed unit at a comparably low price ask us about the models 80286 and 80386. They are perfect for business or data communications and we can configure them to your requirements. And, of course, these systems are covered by a one year warranty.

If you have any questions concerning these units, or would like to discuss your requirements with a knowledgeable specialist, please call and ask for Fred, N6SFD. We also carry a large selection of excellent commercial products for data communications and emergency systems as well as a complete inventory of amateur equipment and linear power amplifiers.

Try our new 24 hour "Bulletin Board Service"  
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- Build it yourself with Ramsey Kits from AntennasWest
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## The No-Tune Windom Antennas

complete, assembled, ready to use

No pruning. TNT is No-Tune on 80 cw, 40, 20, 17, 12, 10. Work other bands w/ tuner. DX Ready to Use Now Includes Custom 99 ft. RG-8x feedline Plans, patterns, data: <b>WindomTechNote #126</b> \$6.95 ppd USA Tech Supt: 801-373-8425 <b>AntennasWest</b> Box 50062F, Provo, UT 84605	No tuning. Kink-Proof Wx-Sealed Low Noise Info S1	No knobs to twist. TNT/2 is No-tune on 40, 20, 10. Gain rise w/ frequency. No Traps or Resistors Insulated to 3000 V Rated 500 Watts <b>TNT</b> Windom \$89.95 +\$8 135 ft. long P&H <b>TNT/2</b> Windom \$79.95 +\$7 67 ft. long P&H Order Hotline <b>800-926-7373</b>	The TNT secret? Feed a resonant antenna off center at a constant impedance point. Result: broad, low SWR curves, & No-tune band-switching on harmonically related bands. <div>New: Custom 2KW TNTs--add \$70</div>
---	---	---	--

## Shuttle Bus

For your convenience a shuttle bus will run from 7AM until 5:30PM Saturday, June 1. This is provided as a service free of charge to attendees to help alleviate the parking congestion. Please wear your badge.

It will run between the following locations:

Buds Campground & Grocery  
Venice Trailer Park  
Circle Creek RV Park & Campground  
Riverside Lake Resort Trailer Park  
Shilo Inn  
Convention Center

And Selected Motels (Inquire At Registration Desk)

## RAGs Test Bench

As a service to flea market buyers the Radio Amateurs of the Gorge (RAGs) will have a test bench in the upstairs flea market. 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 damage as a result of the use of this equipment.

H. STEWART DESIGNS HAS CHANGED!  
(It's Designs, That Is)

For example, LAST YEAR our ads said:

"The II-DX is not for everyone" - That was right -  
Last Year!

THIS YEAR - There's a whole New II-DX Antenna

The new II-DX looks the same.

It performs better.

AND it's user friendly!



THE NEW II-DX IS FOR EVERYONE!

See our booth for details or write to:  
H. STEWART DESIGNS, P.O. BOX 643  
OREGON CITY, OR 97045

## Registration Badges

Since all committee members are required to register, we also ask that everyone in attendance be registered. Please wear your registration badge at all times while in the convention center.

**Thank you very much  
for your  
Cooperation!!!**

# MAIL ORDER

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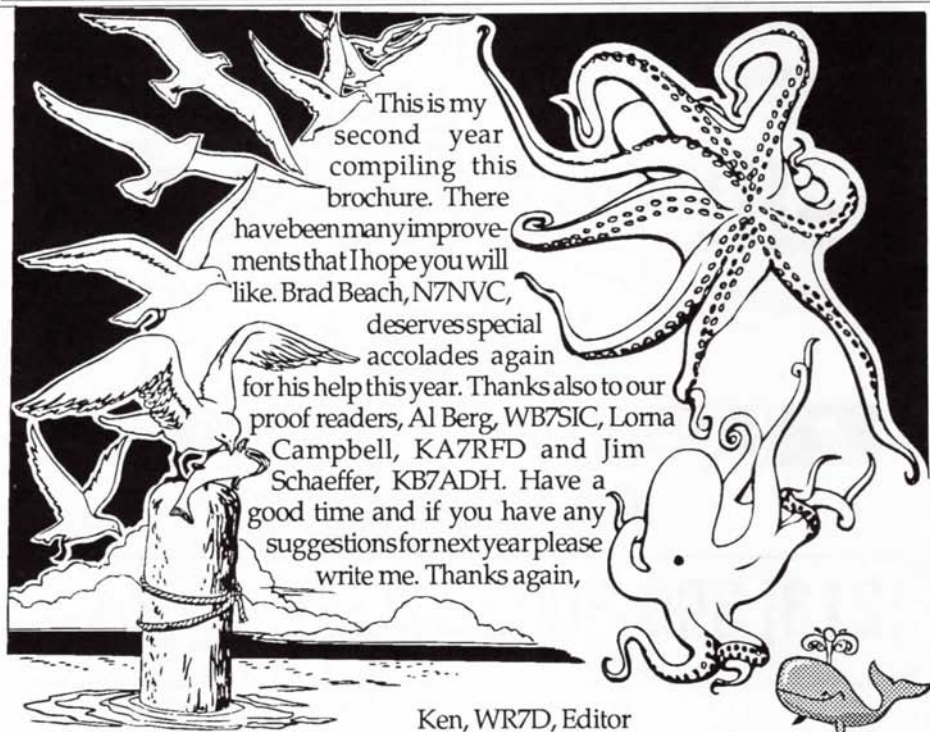
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# Index Of Advertisers

Alinco Electronics, Torrance, CA -----	19
Antennas West -----	35
FARS Portland, OR -----	9
Ham Radio Outlet -----	5
Henry Radio, Los Angeles, CA -----	34
H. Stewart Designs, Oregon City, OR -----	36
Hoodview ARC -----	25
ICOM America Inc., Bellevue, WA -----	Back Cover
Jun's Electronics, Culver City, CA -----	37
Kenwood USA -----	20-21
Larsen Electronics, Vancouver, WA -----	22
Portland Radio, Portland, OR -----	7
Quarter Century Wireless Assoc., Eugene, OR -----	33

The convention sponsors try to make certain all information in this brochure is accurate, however, we must be held harmless for any inaccuracies that may occur. Thank you.



# SEA PAC

## 1992

June 12, 13 & 14

WE HOPE TO SEE YOU AGAIN  
NEXT YEAR. MARK YOUR  
1992 CALENDAR NOW

REGISTER TODAY FOR 1992 AT 1991 PRICES.

Fill Out The Form On The Back Of This Page  
And Turn It In With Your Payment At The  
Registration Desk In The Main Lobby  
Of The Convention Center.

Thank You.

MAKE CHECKS  
PAYABLE TO:

SEA-PAC

# 1992 REGISTRATION

No. \_\_\_\_\_

Office Use Only

Valid Only When Presented At Registration Desk May 31, June 1&2, 1991

\_\_\_\_\_ Registrations at \$5.00 ea. (\$7.00 at the door) ----- \$ \_\_\_\_\_  
\_\_\_\_\_ 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 \$ \_\_\_\_\_  
\_\_\_\_\_ **Friday Social Casino Night at \$10.00 (300 person limit)** ----- \$ \_\_\_\_\_  
\_\_\_\_\_ Saturday QCWA Lunch at \$7.50 (150 person limit) ----- \$ \_\_\_\_\_  
\_\_\_\_\_ Saturday Ladies Luncheon at \$7.00 (80 person limit) ----- \$ \_\_\_\_\_  
\_\_\_\_\_ Saturday Banquet Halibut Dinner at \$17.00 ea ----- \$ \_\_\_\_\_  
\_\_\_\_\_ Saturday Banquet Prime Rib Dinner at 17.00 ea ----- \$ \_\_\_\_\_

Total \$ \_\_\_\_\_

NAMES (please print)

Calls

Check if ARRL  
Member

☐ ☐ ☐ ☐

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Phone(\_\_\_\_) - \_\_\_\_\_

Valid Only When Presented  
At Registration Desk  
May 31, June 1&2, 1991

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





## Замётка

ICOM

IC-24AT  
IC-32AT

# WE CHALLENGE YOU TO A DUAL.

## ICOM'S DUAL BAND HANDHELDS

ICOM's IC-24AT and IC-32AT call you to action with the most feature packed, power packed dual band handhelds available. Whether you prefer the convenience of a mini-handheld or the grasp of a full-size handheld, ICOM has the dual-band fit for you.

The IC-24AT mini-handheld and the IC-32AT give you full operation on the 2-meter and 440MHz amateur bands. Outstanding Performance!

### POWER PACKED HANDHELDS.

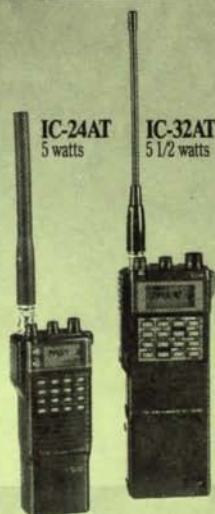
The IC-24AT provides up to 5 watts on 2-meters and 440MHz with a 12V battery while the IC-32AT is 5 1/2 watts on 2-meters and 5 watts on 440MHz.

**PLENTY OF MEMORIES.** Store any frequency. TX offset and subaudible tone in any memory. Total flexibility to meet your needs.

**PROGRAMMABLE SCANNING.** Both units scan band and memories plus offer easy memory lockout and instant memory recall.

**PRIORITY WATCH.** Monitor the call channel, a memory channel or all memory channels every five seconds while operating!

**ADDITIONAL FEATURES INCLUDE:** Battery saver, multi-function LCD readout, dial selectability and



DTMF pad for memory channel auto-patching. The compact light-weight IC-24AT also features a 24 hour clock with timer, and an autodialer. Access to multi-digit phone numbers at the touch of a button.

**ACCESSORIES:** The IC-24AT uses accessories from the "S" Series handhelds while the IC-32AT is compatible with all IC-2AT/32AT accessories. An optional UT-50 provides all subaudible tones while the optional UT-40 beeper silently monitors a busy channel for your calls.

When the preprogrammed subaudible tone is received, the unit beeps and the LCD flashes. The dual is over, ICOM's IC-24AT mini-dual bander and IC-32AT full-size dual bander give you maximum performance in the package best suited for your needs. Check your local ICOM dealer for the finest dual banders available today. The ICOM IC-24AT and IC-32AT.

ICOM

First in Communications.

ICOM America, Inc. 2380-118th Ave. N.E., Bellevue, WA 98004. Customer Service Hotline (206) 454-7619. 3150 Pioneer Drive, Suite 126, Irving, TX 75063. 1777 Phoenix Parkway, Suite 201, Atlanta, GA 30349. ICOM CANADA, A Division of ICOM America, Inc. 3071 - 81 Road, Unit 5, Richmond, B.C. V6X 2T4 Canada. All stated specifications are subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emission. 2447502Z 386.