



SEA PAC.



ARRL Northwest Division Ham Convention



Seaside Convention Center Seaside, Oregon

JUNE 3 & 4, 2000

**Presented by
Oregon Tualatin
Valley Amateur
Radio Club**



Welcome to SeaPac 2000

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

Co-Sponsors include Clark County Amateur Radio Club, 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 3, 2000.

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

Ladies Program

"A HANGOUT FOR BORED SPOUSES"

For Details See Page 7

Kids Krayons & Kartoos

Sea Mist Room

Saturday, June 3 - 9:00 AM to 5:00 PM

Sunday, June 4 - 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, June 2

Registration.....	11:00AM - 8:00PM
Exhibitor & Flea Market Setup (SETUP ONLY)	11:00AM - 9:00PM
Special Friday Technical Session (Riverside Room)	12:30PM - 5:00PM
Special Friday ARRL Workshop (Seaside Room)	1:00PM - 5:00PM
Ladies Hospitality Suite (Convention Center Inn Room 125) ..	5:00PM - 8:00PM

Saturday, June 3

Registration	8:00AM - 4:30PM
Exhibits & Flea Market	9:00AM - 4:30PM
Snack Bar	9:00AM - 4:30PM
Ladies Hospitality Suite (Convention Center Inn Room 125) ...	9:00AM - 5:00PM
Kids, Krayons & Kartoons (Seamist Room)	9:00AM - 4:30PM
VE Exams (Preregistered Only) (Our Saviour's Lutheran Church)	9:00AM - 12:00N
Seminars (Seaside & Riverview Rooms)	9:30AM - 5:00PM
YLRL Luncheon & Program. (Oceanview Fireplace Room) ..	11:30AM - 1:30PM
QCWA Luncheon (Oceanview Sandpiper Room)	11:30AM - 1:30PM
Pre-Banquet Happy Hour (Convention Center Lobby)	6:30PM - 7:15PM
Banquet (Convention Center)	7:15PM - 9:30PM

Sunday, June 4

Registration.....	8:30AM - 12:00PM
Exhibits & Flea Market	9:00AM - 12:00PM
Ladies Hospitality Suite (Convention Center Inn Room 125) ..	9:00AM - 12:00PM
Kids, Krayons & Kartoons (Sea Mist Room).....	9:00AM - 2:00PM
Seminars (Seaside & Riverview Rooms)	9:15AM - 12:00PM
Snack Bar.....	9:30AM - 2:00PM
Grand Awards.....	1:00PM - 2:00PM
Convention Closes	2:00PM

Seaside Convention Center is a No Smoking Facility
ORS 433.839 and 433.875

Exhibitor List

ADI/Premier Communications

Alinco

AM-Com

Amateur Radio Trader

Amateur Radio Relay Group

American Radio Relay League

ALF Enterprises

Ava Lasater Bead & Design

Badge Boys

Battery Tech

Bearcat Radio Club

Books Etc.

Cascade Sales

CGA Enterprises

Computer Nut

Cynthia Wall

DC Power

Dave's Radios

Diversified Unlimited

E. E. Industries

Emergency Communications Supply

EMTECH

Friendship Amateur Radio Society

Ham ID'ers

H. Stewart Designs

Ham Radio Outlet

Hoodview ARC

Ideal Sales

ICOM of America

J & K Enterprises

Kenwood USA

Maha Communications

NCG

Mr. Nicad / E H Yost

Navy/Marine Corps MARS

NW Vintage Radio Society

OCEM (ARES)

Omnitec R & D

Pacific Research Solutions

Portland Amateur Radio Club

QCWA

The Radio Depot

Rad-Com

Radio Amateurs of the Gorge

Safe-T-Tek

Sciesis Scientific Systems

Sign Peddler

Smiley Antennas

Starfire Tec

Startek International

Western Case Co.

Willamette Valley DX Club

Yaesu USA

Young Ladies Radio League (YLRL)

Due to publication deadlines we apologize for any changes.

Get your SEAPAC 2000 Souvenir Pin

A real beauty for your vest or hat in striking blue and yellow

This will become a real collectors item.

We have a limited supply – they'll go fast

Get yours early at the Registration Desk

ONLY \$5.00 EACH

We also have a few left from previous years

Prize Drawing Information

Must be present

ALINCO DX-70TH HF Transceiver
KENWOOD TM-G707A Dual Band Mobile
ICOM IC-207H Dual Band Mobile
YAESU VX-5R Tri-Band HT
ALINCO DM-330MV Power Supply
(NONE BY PROXY - YOU MUST BE PRESENT)

Need Not Be Present

KENWOOD TS-50S HF Transceiver
ICOM IC-2800 H Dual Band Mobile
YAESU FT-3000M Dual-Band Mobile
ALINCO DR-605T Dual-Band Mobile
ICOM IC-W32A Dual Band HT

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

Early Bird Awards

KENWOOD VC-H1
SSTV HT

ICOM IC-T8A-HP
Tri-Band HT

Banquet Program

Misadventures in a Communications Jungle

Terry Stone



Terry Stone WVØG

Terry chronicles the remarkable story of International Health Service and how amateur radio became instrumental in providing over \$500,000 in medical and dental services to the people of Honduras.

Tagging along with a medical group in 1988 as a communications engineer, Terry rose within the organization to become its president. As a licensed Amateur Extra, Terry cultivated the amateur radio operators within the group, recruited new amateurs and ultimately set a policy to never send a medical team into the jungle without amateur radio equipment. Radio equipment was standardized, operators were trained and a repeater was eventually

installed in Honduras to serve the group's needs.

With 100 medical people including over 20 amateur operators, International Health Service heads for Honduras each February. After a few days of organizing supplies, they load into a C-130 military transport and head for the Mosquitia—the eastern third of Honduras with no infrastructure as we know it. This is an area with no power grid, no roads, no telephones and no water systems. Military helicopters rendezvous with the C-130 and drop teams into remote areas where they perform various medical and dental specialties throughout the mission.

During the missions, amateur radio is the only communications link for patient transfers, medical resupply, contact with the U.S. and health and welfare traffic for all medical people.

This is an amazing story told in a humorous light. You'll hear about stranded medical teams using amateur radio. You'll hear about the time amateur radio saved the day when a rented train derailed in the jungle. You'll hear about remarkable feats of communications to obtain emergency medicines where jungle teams a few miles apart (but couldn't hear each other because of band conditions) relayed through stations in the U.S.

This should be an entertaining banquet for both technically and non-technically knowledgeable attendees.

Master of Ceremonies

Greg Milnes, W7OZ

ARRL Northwest Division Director

aka "The Wiz"

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 FCC in Washington, DC. He returned to 7-land in 1967. Greg became a Judge in 1969 and recently retired as Circuit Court Judge for Washington County, Oregon.

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

2000 Chuck Mickley Memorial Scholarship



Jack Loflin, KC7CGK

The OTVARC Scholarship Committee will present the 2000 Chuck Mickley Memorial Scholarship at the Banquet. They are pleased to announce the selection of Jack Loflin, KC7CGK as this year's recipient - again! Jack also won the scholarship last year.

Jack is currently attending Oregon State majoring in Biology with an option in genetics, and minoring in Chemistry.

Jack graduated from McMinnville High School in 1999, was first licensed in 1994 and has been an active ham ever since. He was awarded his Extra Class license in 1995.

Jack is a past Vice President of the McMinnville Amateur Radio Club, and has been an avid participant in their transmitter hunting activities. He has pursued

his interest in Amateur Radio Direction Finding (ARDF) much further, representing the United States in ARDF world championship competitions in Japan and Hungary. (You'll see him on page 29 of the May 1999 QST, running across the finish line of the 80 meter competition in Hungary). He is planning on attending the 10th ARDF World Championships in China this fall.

Jack stays active with ARES and was instrumental in setting up amateur radio communications at the Yamhill County Emergency Operations Center and managed operations at that station during the storms of '95 and '96. This, plus his other work as a cadet commander with the Yamhill County Sheriffs office has earned him a position of respect and trust in the department.

He is extremely active in public service activities, being a certified Rescue Diver, Marine Cadet on boater safety patrol, permanent team leader for Yamhill County search & rescue, and a cadet commander in the Civil Air Patrol. He has also taught computer classes, set up computer networks for the school district, and taught several Amateur Radio classes. He is employed by the Yamhill Education Service District as a technician in Electronic Services.

Jack has earned recognition for his strong academic standing, receiving several academic awards and being named to the National Honor Society. He will major in Biology at Oregon State University in the fall, where he plans to learn a lot about DNA fingerprinting. He looks forward to a career in law enforcement, and has his sights set on working in a forensics laboratory.

The scholarship committee for 2000:

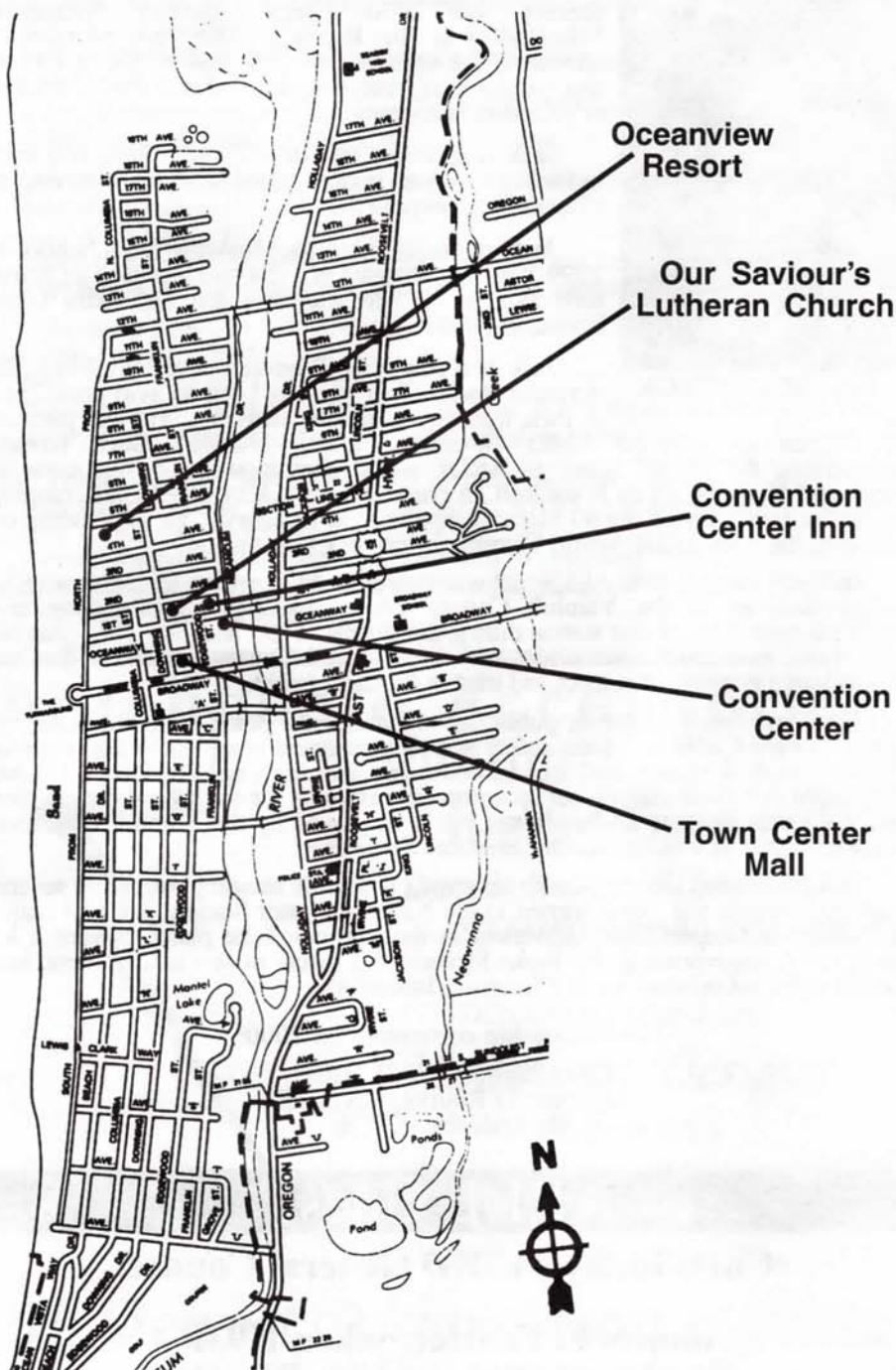
Carl Clawson, WS7L, Chair
Maureen O'Rourke, KA7LAP
Dale Mosby, K7FW

ARRL Guest

Chris Imlay, W3KD General Counsel

**James E. Fenstermaker, K9JF
Northwest Division Vice Director**

Seaside Area Map



SEAPAC LADIES HOSPITALITY SUITE

Convention Center Inn Room 125

"A HANGOUT FOR BORED SPOUSES"

FRIDAY, JUNE 2, 2000

Open From 5:00PM To 8:00PM

SATURDAY, JUNE 3, 2000

Open From 9:00AM to 5:00PM

SUNDAY, JUNE 4, 2000

Open From 9:00AM to Noon

SATURDAY

9:30 to 10:30AM

**"AN ENVIRONMENTALLY
FRIENDLY ACTIVITY THAT IS
FREE WITH ALL MATERIALS
PROVIDED"**

Presented by Pat Aikenhead

Learn to make surprisingly beautiful, fun envelopes, matching note cards and bookmarks by using pictures from old calendars, catalogs, magazine, etc. Take home envelopes ready for mailing with lots of ideas on how and when to use them. You will get a template and instructions on how to make other sizes.

11:00 to Noon

**"LEARN TO MAKEA BOW
....A RIBBON ROSE"**

***Presented by Eileen McConnell
of Crafts Etc.***

A demonstration on how to make a rose out of ribbon or make fancy bows, big ones or small. There will be an assortment of designs available for sale or make you own.

1:00 to 2:00PM

BEADS ARE FUN

Presented by May Teck

Learn how to make earrings, etc. We will have materials available. Purchase prepackaged kits for \$2.00 or pick your own beads and earring style for 4 items for \$1.00

2:00 to 3:00 PM

"HOW TO LIVE WITH A HAM"

Presented by Julie Landers, May Teck and anyone who has some fun to share

Take part in a lively discussion that will show you how we keep your ham happy without them knowing it. You don't need to have a license to do this. Your only limit will be your imagination.

SUNDAY

10:00 to 11:00 AM

**"SAND ART BROWNIES/
COOKIES"**

Presented by Julie Landers

Make your own sand art brownies or cookies like you have seen in the store. Turn and recipe into an attractive gift from your kitchen – samples.

**Free Blood Pressure Check
Done by our own R. N.**

Carol Smithson

Seminar

Riverview A

Riverview B

Riverview C

Friday Afternoon, June 4

**12:30
PM
to
5:30
PM**

**(1) 12:30 to 5:00PM TECHNICAL SESSION:
"RF Pipelines – RF Propagation Understood Here"
Marshall Johnson KK7CW**

Saturday Morning, June 5

**9:30
AM**

(3) Antenna Computer Modeling
Roy Lewallen W7EL

**(4) Operating Your
Own Vintage Amateur
Radio Station**
D. Hackleman W7QH

**11:00
AM**

**(8) Antenna Hints & Kinks
(Everyone Has an Antenna That Doesn't Work)**
Marshall Johnson KK7CW

**(9) Alternate Energy
Sources**
Colin Lamb K7FM

Saturday Afternoon, June 5

**2:00
PM**

**(13) Basic Radio I
The New Technician
Class: How to Get Your
First Ham License**
Marshall Johnson,
KK7CW

**(14) Battery Technology and the New
Negative Flex Pulse Charging**
Robert Syms KO6ZL

**3:45
PM**

↓
to 5:00 PM

**(18) Communicating
When Everything Goes
Wrong**
Terry Stone WVØG

**(19) Electronic
Construction - Tools
Materials, and Methods**
Emerson Hoyt WX7E

Sunday Morning, June 6

**9:15
AM**

**(22) Basic Radio II:
The New General
Class License and
Beyond**

Marshall Johnson,
KK7CW

↓
to 11:30 AM

**(23) An Overview of
SSTV Using the
VC-H1**
Clifford Uyeda KJ6HC

**(24) QSLing: How,
When, Where, What**
Russ Fillinger W7LXR

**10:45
AM**

**(28) Outrageous
Antennas That
Actually Work!**
Chip Margelli K7JA

**(29) Electronic
Construction - Tools
Materials, and Methods**
Emerson Hoyt WX7E
(repeat)

Schedule

Seaside A

Seaside B

Seaside C

Friday Afternoon, June 4

(2) 1:00 to 5:00 PM ARRL WORKSHOP:

"Tower Siting: Land Use, Zoning, CC&Rs, PRB -1"

Chris Imlay W3KD Phil Kane K2ASP Greg Milnes W7OZ

Saturday Morning, June 5

**(5) Amateur Towers,
Wind Loads, Building
Codes and Permits**

Hank Lonberg KR7X

**(6) Introduction to
Packet Radio, with
Focus on ARES/RACES**

Ken Wilhelmi N7QQU

**(7) Basic Family and
Neighborhood
Perparedness**

Sharon Kennedy

**(10) The Lure and
Challenge of 160m**

Jim Fenstermaker K9JF

**(11) Security on the
Internet: What You Don't
Know Will Harm You**

David Aucsmith N7VKC

**(12) HF Transceiver
Technology:
Old Meets New**

Chip Margelli K7JA

Saturday Afternoon, June 6

(15) ARRL Forum

Greg Milnes, W7OZ
Jim Fenstermaker K9JF
Chris Imlay W3KD

(16) CW Proficiency

Bill Balzarini KL7BB

Harry Lewis W7JWJ



To 5:30 PM

**(17) Amateur
Communications
During Fire and
Flood Emergencies**

Mike Langrell AA7VR

**(20) The ARRL
Certification Initiative**

Chris Imlay W3KD

**(21) Operating the
Latest HF Digital
Modes on Your PC**

Johan Forrer KC7WW

Sunday Morning, June 6

**(25) Alternate Energy
Sources**

Colin Lamb K7FM

**(26) GMDSS
Global Maritime
Distress and Safety
Systems**

Dick Bass W7SMR

**(27) Amateur Radio
Response – Iowa Style**

Harold Landers
WAØBRU

**(30) APRS: The
Automatic Position
Reporting System**

Dave Dobbins K7GPS

**(31) Trunked
Scanning 101**

Norm Schrein KA8PGJ

**(32) The Home Hazard
Hunt**

Sharon Kennedy
KD7CWP

Seminar Topic Information

Once again we have an excellent lineup of seminars and workshops for the SeaPac 2000 program, from noon Friday to noon on Sunday!

This year we offer two Friday afternoon sessions: a workshop on the legal aspects of tower and antenna siting, and a technical session on transmission lines and RF propagation. The legal workshop, from 1 to 5 PM, is presented by the League's legal counsel Chris Imlay W3KD, professional engineer Phil Kane K2ASP, and NW Division Director Greg Milnes W7OZ. It offers Continuing Legal Education (CLE) credit for attorneys, but is also intended for non-lawyers as well, anyone who is considering installing an antenna tower.

The transmission Line & Propagation session is presented by Marshall Johnson KK7CW, owner/engineer of Aerials Int'l., and Ass't. SM of the Oregon section. It's really in the technical track, but starts at the beginner level, so everyone can benefit. Included is a clinic with experiments and construction of a transmission line.

Our seminars are divided into five topic tracks: **TECHNICAL**; **DIGITAL COMMUNICATION**, which is really technical but is separate because of its importance; **EMERGENCY PREPAREDNESS**; **BEGINNER** for those who haven't emphasized the technical aspects of the hobby, as well as newcomers; and **ORGANIZATIONAL & GENERAL INTEREST**.

TECHNICAL: 11 sessions: 1, 2, 4, 5, 8, 12, 14, 22, 23, 28, and 31.

DIGITAL: 3 sessions: 6, 21, 30.

EMERGENCY PREPAREDNESS: 5 sessions - #s 7, 17, 18, 27, 32.

BEGINNERS: 5 sessions: 1, 8, 13, 19, 29.

ORGANIZATIONAL & GENERAL INTEREST: 2, 4, 9, 10, 11, 15, 16, 20, 24, 25, and 26.

A description of each presentation is found on pages 12 to 19. A few are in 2 tracks, where that seemed appropriate.

There is one seminar not directly related to ham radio: #11, on Communication Security on the Internet. It's included in our program because of its importance to anyone with a computer.

NOTE: After each seminar title is a letter in brackets indicating which topic track it's in:

[T] = Technical [B] = Beginner [D] = Digital
[E] = Emergency Preparedness, [O/G] = Organizational/General Interest.

NOTE: PLEASE TURN OFF HAND-HELDS DURING SEMINARS

(1) TECHNICAL SESSION:

"RF Pipelines - RF Propagation Understood Here" [B], [T]

Marshall Johnson KK7CW, Owner/Engineer, Aerials Int'l.

FRI 12:30 - 5:00 PM RIVERVIEW A, B, C

This workshop will lead to the understanding of radio wave propagation, and the use of transmission lines to get your signal out there. It will include a clinic with experiments and measurements, and the opportunity to construct a resonant line. There will be handouts and lots of Q&A.

(2) ARRL WORKSHOP

"Tower Siting: Land Use, Zoning, CC&Rs, PRB-1." [O/G]

Chris Imlay W3KD, ARRL General Counsel; Phil Kane K2ASP, P.E.;

Greg Milnes W7OZ, ARRL NW Division Director

FRI 1:00 - 5:00 PM SEASIDE A, B, C

"All you ever wanted to know about tower siting" for lawyers, (CLE credit) and non-lawyers. PRB-1 interpretations, and how to get governmental approval will be discussed. A must for anyone who wants a tower.

Seminar Topic Information

(3) "Antenna Computer Modeling" [T]

Roy Lewallen W7EL

SAT 9:30 AM RIVERVIEW A & B

The author of the EZNEC antenna analysis program explains what you can - and can't - do with today's antenna software.

(4) "Owning and Operating Your Own Vintage Amateur Radio Station" [T], [O&G]

David Hackleman W7QH, Owner, Dave's Radios LLC

SAT 9:30 AM RIVERVIEW C

We will discuss older (vacuum tube) equipment, with examples of preferred and not-recommended rigs. We'll also cover RF exposure limits and FCC compliance guidelines with comparison to these rigs. Major differences between vacuum tube circuitry and state-of-the-art amateur radio equipment will be identified as time permits. Audience participation is encouraged.

(5) "Amateur Towers, Wind Loads, Building Codes, & Permits" [T]

Hank Lonberg KR7X, P.E.

SAT 9:30 AM SEASIDE A

A This is a primer on wind design of amateur radio towers and the acquiring of permits using the uniform building code.

(6) "Introduction to Packet Radio, with Focus on ARES/RACES" [D]

Ken Wilhelmi N7QQU, ASEC - SGL

SAT 9:30 AM SEASIDE B

Digital communication is getting more popular every day. This seminar explains the packet station, packet network, messages, bulletins, files, and how it all works. Emphasis is on ARES/RACES use of the system.

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Seminar Topic Information

- (7) "Basic Family and Neighborhood Preparedness" [E]
Sharon Kennedy KD7CWP, Emergency Manager, City of Hillsboro, OR
SAT 9:30 AM SEASIDE C
In a worst case scenario such as a major earthquake, professional responders may be too busy or unable to get to your neighborhood. Learn how to assemble a family disaster supplies kit, write a family disaster plan, and organize your neighbors to help each other get through the first 72 hrs of a disaster.
- (8) "Antenna Hints & Kinks - (Everyone Has Antennas that Don't Work)" [B], [T]
Marshall Johnson KK7CW, Owner/Engineer, Aerials, Int'l.
SAT 11:00 AM RIVERVIEW A & B
Learn to successfully design and build the right antenna for your station. Get antenna plans, design aids, and answers to your antenna questions.
- (9) "Alternate Energy - Wind, Solar, and Human" [O&G]
Colin Lamb K7FM
SAT 11:00 AM RIVERVIEW C
Build your own field day power source; how to recycle an old exercycle; cheap solar panels; getting the maximum from alkaline batteries.
- (10) "The Lure and Challenge of 160 meters" [O&G]
Jim Fenstermaker K9JF, Vice Director, ARRL NW Division
SAT 11:00 AM SEASIDE A
The challenges of 160 meter operation will be reviewed. Hints about propagation, antennas, and other factors influencing successful operation on "top band" will be presented.

Antennas & Accessories including

THE BIG DK-DX

Don Johnson, W6AAQ's
3.5 -- 30 MHz mobile antenna

manufactured by:

H. Stewart Designs

P.O. Box 643
Oregon City, OR 97045

See **Worldradio**, Oct 1994 issue

H. Stewart Designs (503) 654-3350

Seminar Topic Information

- (11) **"Security on the Internet: What You Don't Know Will Harm You" [O&G]**

David W. Aucsmith N7VKC, Chief Security Architect, Intel Corp.

SAT 11:00 AM SEASIDE B

This talk will cover current security risks and remedies for using the Internet. The talk will provide detailed examples of tools and techniques used by hackers, crackers, and others, and how to defend against them. This subject should be of interest to anyone with an Internet connection.

- (12) **"HF Transceiver Technology: Old Meets New" [T]**

**Chip Margelli K7JA, Manager, Engineering/R&D Dept.
Amateur Products Division, Yaesu USA, Inc.**

SAT 11:00 AM SEASIDE C

Today's HF transceivers are a marvel of miniaturization and computerization. But is everything in a modern rig truly a product of the "computer age"? Chip looks at the most modern designs on the market, showing what's new and what's perhaps not-so-new about the technological wonders that help us work that rare DX!

- (13) **"Basic Radio I - The New Technician Class:**

How to Get Your First Ham License" [B]

Marshall Johnson KK7CW, Asst. ARRL Section Mgr.- Oregon

SAT 2:00 - 5:30 PM RIVERVIEW A

Radio theory, FCC Rules, and operating tips necessary to pass the exam and set up your station. This is what it takes to talk to the world. Attendees should bring #2 pencil and paper.

- (14) **"Battery Technology and the New Negative Flex Pulse Charging" [T]**

Robert Syms KO6ZL, Technical Representative, MAHA Corp.

SAT 2:00 PM RIVERVIEW B & C

A description of cells and how they differ from type to type. What charging system is best for your battery? How negative flex pulse charging can prolong the life of your NiCd and NiMH batteries.

- (15) **"The ARRL Forum" [O&G]**

Greg Milnes W7OZ, Director, ARRL NW Division;

Jim Fenstermaker K9JF, Vice Dir., ARRL NW Division;

Chris Imlay W3KD, ARRL General Counsel

SAT 2:00 PM SEASIDE A

Topics to be covered include: Restructuring And Beyond; What's New At ARRL; and What Can We Do For You?

- (16) **"CW Proficiency" [O&G]**

Bill Balzarini KL7BB

Harry Lewis W7JWJ, ARRL Section Mgr., Western Washington

SAT 2:00 - 5:30 PM SEASIDE B

KL7BB will teach the secrets to copying the morse code 5 to 13 wpm, to 20 wpm, to 30 wpm. This method can help you over most code hurdles. W7JWJ will talk on nutritional needs to go for a World Record, over 77 wpm at 100% accuracy. He will also show a video on high-speed copying. Q & A afterward.

- (17) **"Amateur Communications During Fire & Flood Emergencies" [E]**

Mike Langrell AA7VR, Idaho State RACES Officer

SAT 2:00 PM SEASIDE C

Learn what we learned from actual experiences when providing emergency communications during the 1995 - 1996 wildfires and floods in Ada County, ID.

Seminar Topic Information

(18) "Communicating When Everything Goes Wrong" [E]

Terry Stone WVØG

SAT 3:45 PM RIVERVIEW B

Most of your plans for emergency communications are useless - find out why. An interactive seminar based upon real-world experiences in critical communications. How our culture impedes readiness planning and practical solutions to this problem.

(19) "Electronics Construction - Tools, Methods, Materials" [B]

Emerson Hoyt WX7E, Director of Engineering, Hoyt Instrument Labs

SAT 3:45 PM RIVERVIEW C

Various methods of constructing electronic projects are discussed, including tools and materials. Slides and demonstration models are exhibited.

(20) "The ARRL Certification Initiative" [O&G]

Chris Inlay W3KD, ARRL General Counsel

SAT 3:45 PM SEASIDE A

Have you felt that being a good radio amateur should mean knowing more than the minimum to pass the test? Your board thinks so too, and has authorized the development of an initiative to help hams continually expand their knowledge and competence. Hear Chris explain this idea and compare it to similar programs in certain technical professions.

(21) "Operating the Latest HF Digital Modes on Your PC" [D]

Johan Forrer, PhD, KC7WW

SAT 3:45 PM SEASIDE C

Some of the most advanced HF digital modes could be operated on a PC with sound card and simple radio interfacing. There will be a discussion of PSK 31, HELL, and MT 63, with interface details.

(22) "Basic Radio II - The New General Class License and Beyond" [T]

Marshall Johnson KK7CW, Asst. ARRL Section Manager, Oregon

SUN 9:15 - 11:30 AM RIVERVIEW A

Radio theory, FCC rules and operating tips beyond entry level. How to pass your upgrade exam and not embarrass yourself on the air. Attendees should bring #2 pencil and paper.

(23) "An Overview of SSTV Using the VC-H1" [T]

Clifford Uyeda KJ6HC, Asst. Sales Manager,

Amateur Radio Group, Kenwood Corp.

SUN 9:15 AM RIVERVIEW B

With today's emerging technologies there are more choices to communicate with than just voice and CW. Communicate visually with the Kenwood VC-H1.

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.

Seminar Topic Information

- (24) **"QSLing: How, When, Where, What" [O&G]**
Russ Fillingim W7LXR
SUN 9:15 AM RIVERVIEW C
Benefits from QSLing to you and the station you worked. How the QSL bureaus work. Designing QSL cards. Some personal results and a brief video of some DX friends.
- (25) **"Alternate Energy - Wind, Solar, & Human" (REPEAT) [O&G]**
Colin Lamb K7FM
SUN 9:15 AM SEASIDE A
[See seminar (9)]
- (26) **"GMDSS - Global Maritime Distress & Safety Systems" [O&G]**
Dick Bass W7SMR
SUN 9:15 AM SEASIDE B
A new look at radio operations on the high seas. What happened to the ship's radio officer?
- (27) **"Amateur Radio Response - Iowa Style" [E]**
Harold D. Landers WA0BRU
SUN 9:15 AM SEASIDE C
Harold will discuss the successes and failures of his ARES club's work in public service & emergency communications in his native Iowa. He will recount experiences with the Weather Service in thunderstorms, tornadoes, and floods, and other activities including parades and races.
- (28) **"Outrageous Antennas That Actually Work!" [T]**
**Chip Margelli K7JA, Manager, Engineering/R&D Dept.,
Amateur Products Division, Yaesu USA, Inc.**
SUN 10:45 AM RIVERVIEW B
Antennas that are funny-looking or unusual in design frequently provide surprisingly good performance. K7JA will discuss a number of these antennas in easy-to-understand terms. You can try them out on field day at the end of this month!
- (29) **"Electronics Construction - Tools, Methods, Materials" (REPEAT) [B]**
Emerson Hoyt WX7E, Director of Engineering, Hoyt Instrument Labs
SUN 10:45 AM RIVERVIEW C
[See seminar (19)]
- (30) **"APRS: the Automatic Position Reporting System" [D]**
Dave Dobbins K7GPS, NW APRS Coordinator
SUN 10:45 AM SEASIDE A
An overview of APRS and how it has been implemented in the Northwest. See [HTTP://NWAPRS.ORG](http://NWAPRS.ORG) for more information.
- (31) **"Trunked Scanning 101" [T]**
Norm Schrein KA8PGJ, President, Bearcat Radio Club
SUN 10:45 AM SEASIDE B
Why trunking? What's it all about? How does it work? What do I need to do to adapt to trunked scanning?
- (32) **"The Home Hazard Hunt" [E]**
Sharon Kennedy KD7CWP, City of Hillsboro, OR Emergency Mgr.
SUN 10:45 AM SEASIDE C
Do you believe that your home is a safe place to be? Statistics show that most fires, accidents, and injuries occur in the home. An important step in family preparedness is the identifying of hazards in your home. Learn some mitigation steps you can take to remove them, or at least lessen their potential impact.

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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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METROPOLITAN AMATEURS' PICNIC

for Grid Square CN85

**SEPTEMBER 9, 2000
SATURDAY, 11 AM TO 3 PM**

**RED SUNSET PARK
GRESHAM, OREGON**

TALK IN: 147.28+ Mhz

FOOD: The organizers will provide hamburgers and hot dogs etc. Attendees are requested to bring their own beverage (no alcohol) and either a **salad or dessert**. Plates and utensils will be provided. **Eat at noon.**

COST: The cost will be **\$1.00 per person**. Children age 11 and under are free. The maximum charge will be \$4.00 per family.

QUESTIONS: Call Gene Buell, KA7KBH
(503) 614-0563

DETAILS: The picnic is under two shelters so rain is not a worry. Please bring your family and non-ham friends but not your pets. Especially welcome are hams without a club. Non-club members please RSVP to Gene so we will have enough food.

DIRECTIONS: From I-84 Exit 16 Wood Village, turn right and go south 2 miles on NW 238th Dr / SE 242nd Dr / NE Hagan Dr (street changes name) to Red Sunset Dr, turn right and go west 1/2 block. From Division St and SE 242nd Drive, go north 0.6 miles to Red Sunset Dr.

Picnic Website: <http://www.parg.org/map>

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