



# SEA PAC



22nd Year

## ARRL Northwestern Division Convention

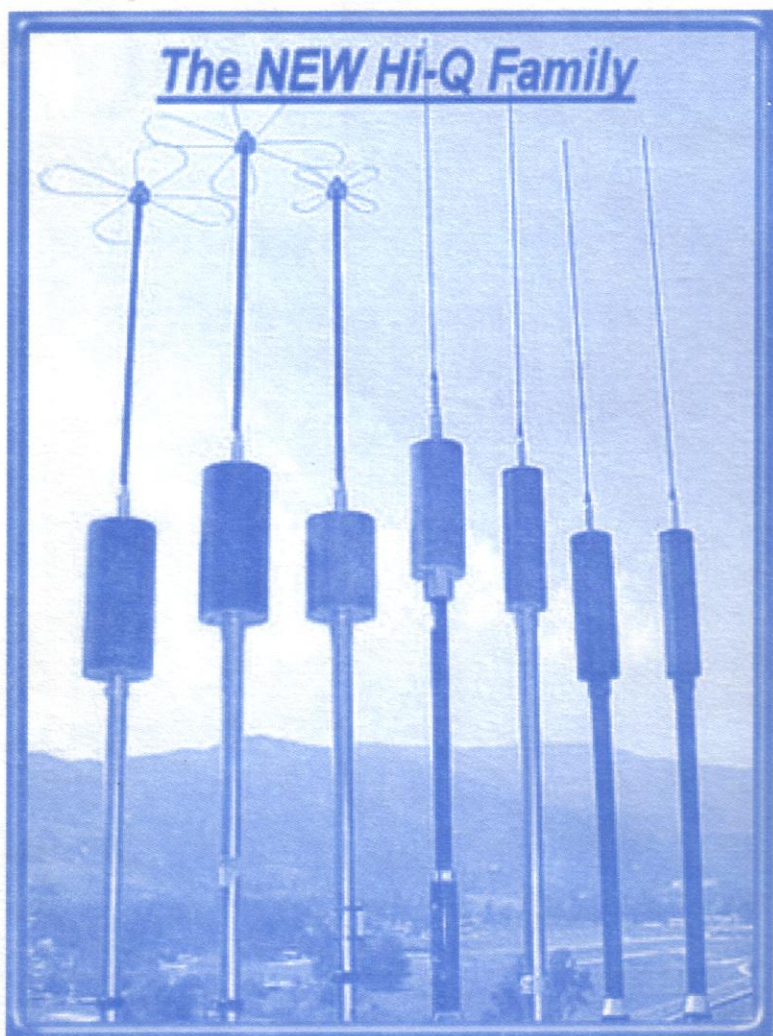


## Seaside Convention Center

June 18 - 20, 2004

Presented by  
Oregon Tualatin  
Valley Amateur  
Radio Club





**Visit the H-Q Antennas Booth  
at SEA-PAC**

## Welcome to SEA-PAC 2004

**S**EA-PAC, the ARRL Northwestern Division Convention, is sponsored by the Oregon Tualatin Valley Amateur Radio Club. Co-Sponsors include Clark County Amateur Radio Club; Sunset Empire Amateur Radio Club; and, Hoodview Amateur Radio Club.

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

# Contents

Exhibitors .....	4	RAGS Test Bench.....	16
Convention Banquet.....	5	Meetings at SEA-PAC .....	16
Chuck Mickley Scholarship ...	6	ARRL Friday Seminar .....	17
"Bored Spouses" .....	7	Committee Members .....	18
Grand Awards .....	8	SEA-PAC 2005 Info Form Back	
Seminar Schedule.....	9-10		
Seminar Descriptions .....	11-15		

## "A Hangout for Bored Spouses"

### Hospitality Suite

Our Saviour's Lutheran Church - West Parish Hall  
Stop by and have a cup of coffee, tea, or other beverage and relax.  
Ham License and registration at the Convention not required.

Listen for the latest Convention Information and Updates on 88.1 MHz

# VE Testing

Testing at Our Saviour's Lutheran Church - East Parish Hall  
[north - across from the Convention Center]  
One Session - Saturday at 9:00 AM

Pre-registration requested. Walk-ins — Space Available

Talk-in Station: 146.660 (-600) MHz

# Convention Schedule

## *Friday, June 18*

Registration.....	11:00 AM – 8:00 PM
Exhibitor & Flea Market (Setup Only) .....	11:00 AM – 8:00 PM
Workshop: <i>Slopers &amp; Sloper Arrays</i> (Riverview ABC) ...	12:30 PM – 5:00 PM
ARRL Workshop: <i>EMCOMM</i> (Seaside A&B).....	1:00 PM - 5:00 PM
“Bored Spouses” Hospitality (Our Saviour’s West Parish Hall)....	6:00 PM – 8:00 PM

## *Saturday, June 19*

Registration.....	8:00 AM – 4:30 PM
Exhibits & Flea Market .....	9:00 AM – 4:30 PM
Snack Bar.....	9:00 AM – 4:30 PM
“Bored Spouses” Hospitality (Our Saviour’s West Parish Hall)...	9:00 AM – 5:00 PM
VE Exams (Our Saviour’s East Parish Hall) .....	9:00 AM – NOON
Seminars (Seaside & Riverview Rooms).....	9:30 AM – 5:00 PM
Hourly Awards.....	10:00 AM - 3:00 PM
YLRL Luncheon & Program (Oceanview Fireplace Room) ....	11:30 AM – 1:30 PM
QCWA Luncheon (Oceanview Tillamook Room) .....	11:30 AM – 1:30 PM
ARRL Forum (Seaside A&B).....	12:30 - 2:15 PM
Special SEA-PAC Award .....	2:30 PM
Pre-Banquet Happy Hour (Convention Center Lobby) .....	6:30 PM – 7:15 PM
SEA-PAC Banquet (Convention Center).....	7:15 PM – 9:30 PM

## *Sunday, June 20*

Registration.....	8:30 AM – 12:00 PM
Exhibits & Flea Market .....	9:00 AM – 1:00 PM
Snack Bar.....	9:30 AM – 12:30 PM
Seminars (Seaside & Riverview Rooms).....	9:15 AM – 11:30 PM
Hourly Awards.....	10:00 AM - 11:00 AM
Special SEA-PAC Award .....	10:30 AM
Grand Awards .....	1:00 PM – 2:00 PM
SEA-PAC Closes .....	2:00 PM

# SEA-PAC Exhibitors

**AJ's Custom Embroidery**

**American Red Cross**

**Arcom Communications**

**ARRG, Inc.**

**Aventrade**

**B&B Safe-T-Tek**

**Badge Boys**

**Battery Tech Inc.**

**Books Etc.**

**Cascade Pacific Radio Scouting**

**Communication Outfitters, USA**

**Dave's Radios LLC**

**DC Power**

**Discovery Bay Computing**

**E.E. Industries**

**Elecraft Kits**

**Emergency Supply Center**

**EMCOMM**

**Fue Enterprises**

**Hamstop.com**

**Hi-Q Antennas**

**HiValue Radio**

**Hotpress Ham Hats**

**HRO - Ham Radio Outlet**

**ICOM**

**Inretech**

**J & K Enterprises**

**J.Poles.Com**

**Kenwood**

**Larry's Antennas LLC**

**Lightblasters.com**

**Navy Mars**

**Pacific Research**

**Portland ARC**

**StarFire Tec**

**Tigertronics**

**Ventenna Co.**

**W3FF Antennas**

**Western Case Sales**

**Willamette Valley DX Club**

**YLRL-Young Ladies**

**Radio League**

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



# Banquet Speaker

## Bill Pasternak WA6ITF



Bill Pasternak WA6ITF, is a broadcast engineer with Fox Television, Los Angeles. He is co-founder and managing editor of Amateur Radio Newsline™ bulletin service and created the ARNewsline™ Young Ham of the Year Award program that honors the a radio amateur 18 or younger with a trip to Spacecamp in Huntsville, Alabama.

Bill Pasternak WA6ITF

Bill is recipient of the prestigious Dayton Amateur Radio Association's "Specific Achievement" and "Radio Amateur of the Year" awards. He received the ARRL National Certificate of Merit in recognition of his contributions to the furtherance of the Amateur Radio Service. Welcome, Bill to SEA-PAC '04.

### *Master of Ceremonies*

Greg Milnes, W7OZ

ARRL Northwestern Division Director

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## **SERVING HAMS SINCE 1994**

# 2004 Chuck Mickley Memorial Scholarship



**Jacob Brunson KD7UPN**

Jacob Brunson, KD7UPN, is a native of Hillsboro, Oregon was selected to receive the 2004 Chuck Mickley Memorial Scholarship. He was in a tough competition with his sister, Sarah, who is a previous recipient.

Jacob was licensed at age 12 as a novice with the call sign, KB7PNN, and shortly thereafter he upgraded to the technician plus class license. He enjoyed working CW and 10 meter SSB with his fathers Icom IC-735 rig, often times operating mobile from the family car.

Jacob graduated with honors from Glencoe High School in 1999. While at Glencoe, he worked as the school's first student webmaster. He was

captain of the school's science bowl team that placed 4th in the northwest, and participated with the Key Club service club. He enrolled in the Engineering Prep course at the Capital Center Regional High School, giving him a head start at learning engineering while still in high school. Jacob has traveled and lived in Romania for two-years where he served a mission for The Church of Jesus Christ of Latter-day Saints and became fluent in the language.

Jacob attends Brigham Young University. He is a junior majoring in computer engineering. During his freshman year he joined the university's amateur radio club where is still active. Jacob served as webmaster and vice-president and will be president for the 2004-05 school year.

As a member of the amateur radio club, Jacob helped coordinate communications for campus parades, races, and security events. He organized the club's first involvement with the Brigham Young University club roundup contest.

Jacob is an eagle scout, and earned the radio merit badge.

## ARRL Representatives



**David Sumner, K1ZZ Executive Vice President**

**Greg Milnes, W7OZ, Director, Northwestern Division**

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

**Dan Miller, K3UFG, Emergency Communications Course, ARRL**

# SEA-PAC HOSPITALITY ROOM

*Our Saviour's Lutheran Church - West Parish Hall*

## "A HANGOUT FOR BORED SPOUSES"

**FRIDAY, June 18th**

*Open 6:00 pm to 8:00 pm*

Stop in, have a cup of coffee, tea or other beverage.

Bring in books and recipes for the exchange and take some with you when you leave.

**SATURDAY, June 19th**

*Open 9:00 am to 5:00 pm*



Crafts  
Refreshments  
Book Exchange  
Recipe Swap

**10:00 am**

**Learn A New Craft**  
**Pat Ackenhead WA2ZZZ**

Come in and try your hand at a new craft project.

**Coffee, tea,**

**and other beverages.**

**Popcorn, donuts and bagels**  
**(while they last)**

Pick up copies of the recipes shared, take a book from the book exchange, complete a craft. You don't need to bring a book or recipe to take one home.

**SUNDAY, June 20th**

**No Sunday Hospitality Room**

**Volunteers who helped**  
**this year**

Julie Landers, KD7GQW

Teresa Mathia

Pat Ackenhead, WA2ZZZ

Mary Berg, N7TRW

Jeff Mathia, KF6CXD

Linda Sutton, KC7YTD

Sarah Nycz

Amanda Nycz

### **QCWA LUNCHEON**

All QCWA Members Invited



*Saturday, June 19th at 11:30 AM*

**Oceanview Resort - Tillamook Room**

### **YLRL LUNCHEON**

All Ladies Invited

"YLRL exists to encourage and assist YLs throughout the world to enter into the Amateur Radio Service."

*Saturday, June 19th at 11:30 AM*

**Oceanview Resort - Fireplace Room**



# SEA PAC

## Grand Awards

*You do not need to be present to win these awards*

*ICOM IC-706 MKIIG HF/VHF/UHF*

*Alinco DR-620T 2/440 Mobile*

*Kenwood TM-G707A 2/440 Mobile*

*ICOM IC-V8000 2 meter 75W Mobile*

*Yaesu FT 2800 2 Meter 65W Mobile*

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**YOU MUST BE PRESENT IN THE CONVENTION  
CENTER TO WIN THESE AWARDS**

-- NONE BY PROXY --

**Honda EU 1000i Generator**

**Alinco DR-605TQ 2/440 Mobile**

**Kenwood TM-271A 2 Meter 60W Mobile**

**ICOM IC-V8 2 Meter 5.5W Hand Held**

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### ***SPECIAL DAILY AWARDS***

Saturday 2:30 PM

Sunday 10:30 AM

Must be present to claim award

**Awards ceremony** is limited to one hour between 1:00 PM - 2:00 PM on Sunday. Awards are purchased at or below cost from manufacturers and dealers.

We take this opportunity to express our appreciation for their assistance.

### ***HOURLY AWARDS***

Posted in the lobby and  
on stage for 2 hours

*Unclaimed Awards are re-issued!*

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### **Early Bird Awards**

Registrations postmarked prior to  
May 15, 2004 eligible

ICOM IC-706 MKIIG  
Yaesu VX-5RS Hand Held

Award models subject to change  
depending on availability from the  
manufacturers and dealers.

# SEAPAC SEMINARS

## FRIDAY

- 12:30 PM**    **(1) FRIDAY WORKSHOP**    **Riverview A, B & C**  
"Slopers and Sloper Arrays for the Low Bands"  
Rudy Severns N6LF
- 1:00 PM**    **EMERGENCY COMMUNICATION**    **Seaside A&B**  
**COURSE SEMINAR**  
Dan Miller K3UFG ARRL Certification Specialist

## Saturday

- 9:30 AM**    **(7) Elements of Writelog**    **Seaside C**  
Al Rovner K7AR
- (10) "Incident Command System"**    **Riverview A**  
Perry Hopkins KD7EYM
- (12) "Radio Scouting"**    **Riverview B**  
Phil Westover WA7URV
- (22) Internet Radio Linking Project**    **Riverview C**  
Michael Bloom W7RAT
- 11:00 AM**    **(4) ICOM D-STAR**    **Seaside A&B**  
Matt Yellin KB7TSE
- (11) Family Preparedness**    **Seaside C**  
Patrice Goodman American Red Cross
- (20) "Two-fers – A DX Trip"**    **Riverview A**  
Tom Meier K7ZZ
- (19) NVIS Antennas –**    **Riverview B**  
**Theory & Applications**  
Tom Sanders W6QJI & Ed Bruette N7NVP

<b>11:00 AM</b>	<b>(13) Emergency Hospital Communications</b> Duanne Mariotti WB9RER	<b>Riverview C</b>
<b>12:30 PM</b>	<b>(2) ARRL FORUM</b> David Sumner K1ZZ Greg Milnes W7OZ Jim Fenstermaker K9JF	<b>Seaside A&amp;B</b>
<b>1:00 PM</b>	<b>(5) "146.78 Upgrades Rev. 1.0"</b> David Hackleman W7QH	<b>Seaside C</b>
	<b>(15) "How to Build a 72 Hour Kit"</b> Dan Boothby SAFE-T-TEK	<b>Riverview A</b>
	<b>(16) Antenna Modelling</b> Terry Dettmann WX7S	<b>Riverview B</b>
	<b>(14) "RVing and Amateur Radio"</b> Karen W3KAT & Temp W4HZV Titus	<b>Riverview C</b>
<b>3:00 PM</b>	<b>(8) "Optimizing Your Signal On PSK31"</b> Clint Hurd KK7UQ	<b>Seaside A &amp; B</b>
	<b>(3) "Learning Morse Code"</b> Sam L. Sparks PhD KD7K	<b>Seaside C</b>
	<b>(18) "Ham Radio and the Law"</b> Phil Kane K2ASP	<b>Riverview A</b>
	<b>(17) Merchant Marine Communications</b> Dick Bass W7SMR	<b>Riverview B</b>
	<b>(6) "Near Vertical Incident Skywave"</b> Bert Younglove WA7HI	<b>Riverview C</b>

## Sunday

<b>9:15 AM</b>	<b>(21) "2 Element Break Through"</b> Ken Glazner K7GCO	<b>Seaside A &amp; B</b>
	<b>(9) "Sound Card Lab"</b> Hoodview Amateur Radio Club	<b>Riverview B &amp; C</b>

*Seminar Information on following pages*

# Seminar Topic Information

We hope that you find seminars to attend that catch your interest and open the doors to new ham radio adventures. The presenters below volunteer their time to share with you their knowledge and skills on the many facets of this great hobby. Whatever your interests are, you're sure to acquire a great deal of new knowledge to take home.

Listed below is an overview of the each seminar being presented this year. This will help you select the seminars of interest. When attending seminars be sure to thank the presenter when it is over.

**PLEASE SILENCE RADIOS AND PHONES DURING THE SEMINARS.**

**(1) FRIDAY WORKSHOP: "Slopers and Slopers Arrays for the Low Bands"**

**Rudy Severns N6LF, Engineering Consultant (retired)**

***Friday 12:30 to 5:00 PM Riverview A,B,& C***

The workshop will begin with a careful look at half and quarter-wave slopers and then go on to arrays of these antennas. There will be some theory, modeling and many practical examples.

**Limited to 100 participants**

**Fee (If seats available): \$15.00**

**(2) The ARRL Forum**

**David Sumner, K1ZZ, ARRL Executive Vice President**

**Greg Milnes W7OZ, ARRL Northwestern Division Director**

**Jim Fenstermaker K9JF, ARRL Northwestern Division Vice Director**

***Saturday 12:30 to 2:15 PM Seaside A & B***

An opportunity to meet Dave, Greg, and Jim and find out what the league's goals are, and to express your views and opinions on policy.

**(3) Learning Morse Code**

**Sam Sparks, KD7K**

***Saturday 3:00 PM Seaside C***

Sam has a rather unique and powerful way to help Hams to learn the code. He is a consultant specializing in matching people to jobs and vice versa. He shows people how they can best learn to gain mastery over subjects at work or for pleasure.

**(4) ICOM D-STAR**

**Matt Yellen KB7TSE**

**D-STAR ICOM AMERICA, Technical Sales Specialist,**

***Saturday 11:00 AM Seaside A & B***

Learn about the new technology from ICOM for the 21st Century.

**PLEASE SILENCE RADIOS AND PHONES DURING SEMINARS**

**PLEASE SILENCE RADIOS AND PHONES DURING THE SEMINARS.**

**• 5) 146.78 Upgrades, REV 1.0: Direction Finding, Weather, and more!**

**David Hackleman W7QH**

***Saturday 1:00 PM Seaside C***

Five engineering students at OSU were commissioned to develop and implement upgrades for the 146.78 repeater (Mary's Peak). In the process, three new ham radio operators were produced from the group! Included in this project was the complete replacement of the repeater system, the investigation and addition of a direction finding feature, the addition of a weather station, and some information on site monitoring work.

**• 6) NVIS-Near Vertical Incident Sky Wave**

**Bert Younglove WA7HI**

***Saturday 3:00 PM Riverview C***

VHF for emergency communications is OK for the flat lands or where repeaters are available. What do you do when you're in a deep valley and your signal needs to "leap tall mountains with a single bound?" Used by the military for a long time, NVIS may be the answer to your ARES communication needs. Learn how to determine what frequencies and antennas will do the job for you.

**• 7) Elements of Writelog**

**Al Rovner K7AR**

***Saturday 9:30 AM Seaside C***

Writelog is one of the most popular contest logging software programs ever for the diehard tester. Al has experience with setting up for rig control and RTTY interfacing. Learn how the Multi-Multis do it and maybe come away with some ideas for your own station.

**• 8) Optimizing Your Signal on PSK31**

**Clint Hurd KK7UQ**

***Saturday 3:00 PM Seaside A&B***

Clint returns with new information on how to get the most from the new digital modes. Included will be discussions on basic sound card operation and building your own sound card interface.

**• 9) Sound Card Lab**

**Hoodview Amateur Radio Club**

***Part 1 Sunday 9:15 — 10:15 AM Riverview B & C***

***Part 2 Sunday 11:00 AM — 12:00 PM Riverview B & C***

Computers equipped with sound cards have revolutionized the digital communication world. With the proper software two way communications for text, data and pictures are now possible that used to require special expensive peripherals. A discussion of software available and a "hands on demo" to get you started. If you bring your notebook/laptop, we'll help load the software and customize it.

**PLEASE SILENCE RADIOS AND PHONES DURING SEMINARS**



**PLEASE SILENCE RADIOS AND PHONES DURING THE SEMINARS.**

- (10) **Incident Command System**  
**Perry Hopkins KD7EYM**  
**Emergency Manager, Bureau of Water Works, City of Portland**  
*Saturday 9:30 AM Riverview A*  
Incident Command is a uniform system of resource management in times of civil emergencies. Those people involved with ARES/RACES communications should be familiar with the concepts and where they fit in the plan.
- (11) **Family Preparedness**  
**Patrice Goodman, American Red Cross**  
*Saturday 11:00 AM Seaside C*  
Fires, floods, and other natural or man-made disasters can strike without warning. Are you prepared to protect your home and family? Learn what steps to take now.
- (12) **Radio Scouting**  
**Phil Westover WA7URV**  
*Saturday 9:30 AM Riverview B*  
Come and learn about the new expanded radio program of the Boy Scouts of America. The Cascade Pacific Council, BSA has an educational and fun program with wireless communications.
- (13) **Emergency Hospital Communications**  
**Duane Mariotti WB9RER**  
*Saturday 11:00 AM Riverview C*  
This is a presentation on the expanding role of amateur radio in hospital and healthcare communications. It includes background on hospital communications systems as well as future systems being implemented in the Pacific NW as part of the post 9/11 funding packages. Duane is a frequent lecturer on hospital emergency preparedness activities.
- (14) **RVing and Amateur Radio**  
**Karen Titus W3KAT & Temp Titus W4HZV**  
*Saturday 1:00 PM Riverview C*  
Whether you are a full time or a weekend RVer you will enjoy meeting them and hearing how they, with their dog FLIP, combine Amateur Radio and full time RVing. Learn about the WinLink Radio E-Mail Team.
- (15) **How to Build a 72 Hour Kit**  
**Dan Boothby SAFE-T-TEK**  
*Saturday 1:00 PM Riverview A*  
If you might be called to help in an emergency or you just want to have a "grab and go" kit for survival. Learn what needs to be included in a package to help you survive the first 72 hours.

**PLEASE SILENCE RADIOS AND PHONES DURING SEMINARS**

**PLEASE SILENCE RADIOS AND PHONES DURING THE SEMINARS.**

**• 16) Antenna Modeling**

**Terry Dettmann WX7S**

**Saturday 1:00 PM Riverview B**

The engrossing activity of building an antenna in a computer to see if it works is popular with many hams. Whether you are getting started or doing more complicated projects you should find this seminar valuable. Terry says he is playing with the new issue of EZNEC<sup>©</sup> and will have some things to relate.

**• 17) Merchant Marine Communications**

**Dick Bass W7SMR**

**Saturday 3:00 PM Riverview B**

The maritime mobile service conjures up images of a radio officer called "Sparks" pounding out messages from the radio shack. Today's merchant marine, however, uses modern sophisticated voice and data links to communicate and control the ships on the vast oceans. Join Dick in a discussion of this interesting field of communications.

**• 18) Ham Radio & the Law**

**Phil Kane K2ASP**

**Saturday 3:00 PM Riverview A**

Phil, a lawyer and an engineer, is an F.C.C. veteran of many years in the San Francisco office. He is ready to discuss the many legal aspects of our hobby such as part 97, CCR, and interference issues. Join him for a lively discussion of your rights and responsibilities as a licensed amateur radio operator.

**• 19) NVIS Antennas – Theory and Applications**

**Tom Sanders W6QJ1 & Ed Bruette N7NVP**

**Saturday 11:00AM Riverview B**

A short review of Near Vertical Incident Skywave (NVIS) theory and then discuss the computer modeling and construction of a 75/60/40 meter tri-band antenna. Tom has been active in EmComm for fifteen years, serving a one year term as Interim DEC. Ed is the WWA Section Manager and Washington State RACES Officer. Both are strong supporters of NVIS antennas for EMCOMM.

**• 20) "Two-fers" – A DX trip to Palau and Yap**

**Tom Meier K7ZZ**

**Saturday 11:00 AM Riverview A**

The story of a "shoestring" DX operation in the western Pacific last fall by hitch hiking on military aircraft. "You show up, set up, and start working the pile up" resulting in 16,000 contacts in the log from a single, low-power station. Tom, a retired Boeing engineer, actively pursues DX – including the K3J operation from Johnston Atoll and the V73E activation of Eniwetok.

**PLEASE SILENCE RADIOS AND PHONES DURING SEMINARS**

**PLEASE SILENCE RADIOS AND PHONES DURING THE SEMINARS.**

**(21) 2 Element Break Through**

**Ken Glanzer K7GCO**

*Part 1 Sunday 9:15 – 10:15 AM Seaside A & B*

*Part 2 Sunday 10:45 AM – 12:00 PM Seaside A & B*

Ken is back and has some new information concerning 2 element directional antennas. How would you like a 50 ohm antenna with a 50 dB front to back ratio? Grab a cup of coffee and join Ken for an interesting way to spend Sunday morning at Sea-Pac.

**(22) Internet Radio Linking Project**

**Michael Bloom W7RAT**

*Saturday 9:30 AM Riverview C*

The aim of the Internet Radio Linking Project (IRLP) is to provide a simple and easy system to link radio systems together using the Internet as the communications backbone. This will be a practical demonstration of its' capabilities.

**PLEASE SILENCE RADIOS AND PHONES DURING SEMINARS**



**Leon Hummel, W7AD, Manager**

**11705 SW Pacific Hwy [99W] Suite Z**

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PHOENIX, AZ ATLANTA, GA WOODBRIDGE, VA SALEM, NH

# RAGS Test Bench

As a service to flea market buyers, the Radio Amateurs of the Gorge (RAGS) provides a test bench on the west side of the exhibit area. Test equipment includes 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 flea market treasures and those unbelievable bargains.

Neither RAGS nor SEA-PAC accepts responsibility for the condition or operability of any equipment, nor can they be held responsible for equipment damage as a result of use of test gear.

## Meetings at SEA-PAC

### Saturday

11:30 AM	QCWA Luncheon	Oceanview Resort/Tillamook Room
11:30 AM	YLRL Luncheon	Oceanview Resort/Fireplace Room
1:00 PM	ARES Meeting	Sea-Mist Room
3:00 PM	Oregon Section Cabinet Meeting	Sea-Mist Room

### Sunday

11:00 AM	ARRL NW Division Cabinet Meeting	Sea-Mist Room
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[Meetings are scheduled by, and the responsibility of, the organizations listed. SEA-PAC provides space for these sessions.]



## INRETECH



### LED (Light Emitting Diode) flashlight adapters

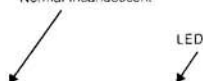
Adapter sizes  
AA, 3D, 6D

AA Adapter runtime comparison

- Longer operating time
- Better white color
- More even pattern
- More durable

Normal Incandescent

LED



• Red, Green, Blue, Deep-Blue, Cyan, Amber, IR, Near-UV  
• Some wavelengths not available in all sizes

sales@inretech.com  
www.inretech.com



## Thanks To Volunteers Who Make SEA-PAC '04 A Success!

[Due to publication deadlines, we apologize for omissions and changes]

### EXECUTIVE COMMITTEE

Al Berg, W7SIC  
Will Sheffield, N7THL  
JD Fort, K7JDF

### TREASURER

Linda Sutton, KC7YTD

### ADVERTISING & EXHIBITORS

Al Berg, W7SIC

### EXHIBITORS HOSPITALITY

Betty Mickley, N7REX  
Frances Adams, KB8PRL  
Scott Adams, KB8PRS  
Ann Boyd  
Joe Boyd, N7VZS  
Charley Mickley  
Molly Mickley  
Brad Wells, KD7RTD  
Dinah Wells

### EXHIBIT SET-UP

Neil McKie, WA6KLA  
Cindy Kenyon, KC7UJD  
Jerry Kenyon, KB7LNR  
Kevin Novak, K7KCN  
Carolyn Howells, WA7SVV  
Doug Leffert, KC6WZU  
Ivan Looch, N7PRM  
Wes Allen, K7WWG  
Jeff Apgar, W7JEZ  
Steve Brice, NA7T  
Chris Nelson, N7ELU  
Dave Stangland, KD7RTE  
Bill Morris, W7IH  
Andrew Jackman, KD7NYQ  
Ian Cameron Crowe KC7YRL  
Bill Johnson N7RGB

### LUNCH MEETINGS & BANQUET PROGRAM

Al Berg, W7SIC

### "BORED SPOUSES"

Julie Landers, KD7GQW

Teresa Mathia  
Pat Ackenhead, WA2ZZZ  
Mary Berg, N7TRW  
Jeff Mathia, KF6CXD  
Sarah Nycz  
Linda Sutton, KC7YTD  
Amanda Nycz

### FLEA MARKET

Lynn Hurd, WB7UNU

Tom Hill, WA3RMX  
Jack Smithson, KA7HOJ  
Stan Griffiths, W7NI  
John Bookout, K7JB

### AWARDS COMMITTEE

Darwin Durr, K7PSD

Tom Bailey, K7NAM  
Al Berg, W7SIC  
Everett Curry, W6ABM  
Jeff Durr, KA7AKU  
Mike Durr, KA7PWZ  
JD Fort, K7JDF

Chuck Samuel, K7NWM  
Jim Schaeffer, KB7ADH  
Mel Sutton, KB7PVW

### REGISTRATION

Will Sheffield, N7THL

Mary Berg, N7TRW  
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Jim Schoch KA7IUG  
Cory Schoch KA7IUG

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Wayne Schuler, AI9Q  
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### TALK IN STATION Sunset Empire A.R.C.

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Gordon Lange, N7GCA  
Scott Hulls, KC7OOH  
Diane Hankins, KC7OHH  
Emily Wolf, KB7L

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