



Watts News



Monthly Newsletter of the
Olympia Amateur Radio Society
P.O. Box 2861, Olympia, WA 98507

November 2007
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Edited by KB6LE (George Lanning) 360-866-2185
website: <http://olyham.org>



President's Message

As we approach the holiday season, I am wondering where the year went. This has been a very enjoyable year for me. Each year brings new experiences and opportunities. I am excited for the new

year. We have elected new officers. For those of you not able to attend, Klaus AC7MG was elected President, Ken K7VOX Vice President, Paul KC7LA Secretary, Ed N7WW Treasurer and Mark KE7JTU Member at Large. I

would like to thank those who served this last year on the board. We had a great year. The club is in great shape, we are poised for another successful year. Field day should be the best yet.

As we approach the winter weather it is important to get out there and check our connections, batteries etc. You never know when we will be called on to use our skills in radio.

Klaus has done an exceptional job running our tests and keeping all of the paper work straight. We could use some more VEs. Being a VE is a rewarding job. If any of you are interested in becoming a VE, contact Klaus on our

Olyham.org website. He will be more than happy to show you the ropes.

Be safe, be courteous, and get out there and get involved!

73

— AB7AX, Bart

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ARRL Course Registration

ARRL Continuing Education Course Registration: Registration remains open through Sunday, November 18 for these online courses beginning on Friday, December 7: Technician License Course (EC-010), Amateur Radio Emergency Communications Level 1 (EC-001), Radio Frequency Interference (EC-006), Antenna Design and Construction (EC-009), Analog Electronics (EC-012) and Digital Electronics (EC-013). To learn more, visit the CCE Course Listing page <http://www.arrl.org/cce/courses.html> or contact the Continuing Education Program Coordinator cce@arrl.org

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October Meeting Minutes

Minutes of the Olympia Amateur Radio Society meeting of Oct. 24, 2007: Meeting was called to order at 1910 hours by President Bart Tirrell and all were welcomed to the meeting.

Nominations were requested for club officers for 2008. The following members were nominated and elected to office by unanimous consent:

President: Klaus, AC7MG
 Vice-President: Ken, K7VOX
 Secretary: Paul, KC7LA
 Treasurer: Ed, N7WW
 Member-at-Large: Mark, KE7JTU

Tom, KA4VVA led a short discussion on operational procedures for emergency communications.

Duane, WB7ROZ gave an interesting presentation on packet radio and gave attendees a handout of good information regarding the subject, then followed with a question and answer session, and described his ROZNOD packet node which is available for use by those in this area who use packet.

Meeting was adjourned at 2117 hours.

— Paul Taylor, KC7LA, Secretary



License Exam Sessions
 6:00 pm before each monthly OARS meeting
 Walk-ins allowed
 To apply contact Klaus Neubert 753-1493
oars-ve@comcast.net

AARP Endorses Amateur Radio

Amateur Radio and the ARRL received a significant public relations boost from the AARP this week. Promoting life-long learning for their members, Susan Ayers Walker wrote "Finding Your Hobby Online" for the AARP Web site. What's the first and most prominent activity listed to keep the mind active and functional? Amateur Radio!

Here's what the article had to say: "Long before the internet was created, the Amateur Radio network was the way people from all over the world could connect. Amateur, or ham, Radio operators created vast social networks by talking long distances to other radio enthusiasts, making distant friends and exchanging calling cards. It is this linkage of radio enthusiasts that is ready to help communication flow in case of a disaster or weather emergency. The ARRL, the National Association for Amateur Radio, has an informative website with lots of news and information, plus info on getting started or finding a chapter in your area."

— from the ARRL Letter



The Mathematician

A football coach walked into the locker room before a big game, looked over to his star player and said, "I'm not supposed to let you play since you failed math, but we really need you in there. So, what I have to do is ask you a math question, and if you get it right, you can play."

The player agreed, so the coach looked into his eyes intently and asked "Okay, now concentrate hard and tell me the answer to this: What is two plus two?"

OARS OFFICERS FOR 2007

| | | | |
|-----------------|---------------|-------|----------|
| President | Bart Tirrell | AB7AX | 570-8949 |
| Vice President | Lee Chambers | KI7SS | 866-0236 |
| Secretary | Paul Taylor | KC7LA | 866-0683 |
| Treasurer | Ed Fitzgerald | N7WW | 491-2289 |
| Member at Large | Fred Baker | W7SIX | 357-2662 |

KEY CONTACTS

| | | | |
|----------------------|-----------------|--------|----------|
| RFI Committee | Ghery Pettit | N6TPT | 412-1340 |
| Repeater Committee | Larry Watkinson | KC7CKO | 943-4352 |
| Club License Trustee | Duane Braford | WB7ROZ | 412-1902 |
| Information Net | Duane Braford | WB7ROZ | 412-1902 |
| ARES Net | Tom Dennis | KA4VVA | 786-5500 |
| OLY Packet Node | Larry Ikenberry | K7APT | 943-7208 |
| | Rick Taylor | K7CAH | 943-6793 |
| Packet BBS | George Lanning | KB6LE | 866-2185 |
| Newsletter | George Lanning | KB6LE | 866-2185 |
| OARS Website | George Lanning | KB6LE | 866-2185 |
| Classes | Lee Chambers | KI7SS | 866-0236 |
| License Exams | Klaus Neubert | AC7MG | 753-1493 |
| Equip. Custodian | Larry Watkinson | KC7CKO | 943-4352 |

REPEATERS: 147.36 MHz 224.46 MHz 441.40 MHz

PACKET: 145.07 MHz OLY Node 441.40 BBS

Membership is open to all interested radio amateurs.
 Yearly dues are: \$20 for individual, \$25 for family.

The player thought for a moment and then answered, "4?"

"Did you say 4?" the coach exclaimed, excited that he had given the right answer.

Suddenly, all the other players on the team began screaming, "Come on coach, give him another chance!"

— from *ajokeaday* via Internet



Treasurer's Report

As of 10/31/07

GENERAL FUND (checking account)

| | |
|----------------------------|-------------|
| Previous balance | \$ 1,380.48 |
| Income | 0.31 |
| Expenses | 24.60 |
| Ending balance | 1,356.19 |

REPEATER / PACKET FUND (savings account)

| | |
|----------------------------|-------------|
| Previous balance | \$ 1,008.29 |
| Income | 0.00 |
| Expenses | 0.00 |
| Ending balance | 1,008.29 |

— Ed Fitzgerald, N7WW, Treasurer



Motorola buys Yaesu

Motorola USA has announced its intention to launch a tender offer to acquire a controlling interest in Vertex Standard Co, Ltd. Vertex Standard is the parent company of Yaesu. Motorola will own 80 percent of Vertex Standard; Tokogiken, a privately held Japanese company, controlled by current president and CEO of Vertex Standard Jun Hasegawa, will retain 20 percent, forming a joint venture. The total purchase price for 80 percent of

the outstanding shares on a fully diluted basis will be approximately US \$108 million.

— ARRL Bulletin ARLX007



OARS Net check-ins

The following stations checked in on the OARS General Information Net one or more times on the dates of October 2, 9, 16, or 23:

| | | | |
|--------|--------|--------|--------|
| AA7YD | AB7AX | AB7PS | AC7MG |
| AD7KC | AJ3N | K7CEX | K7MBB |
| K7TAG | K7VOX | KA7FRZ | KA7MRZ |
| KB6LE | KB7DFL | KC7CKO | KC7LA |
| KD7AED | KD7SQU | KD7TQW | KD7WXL |
| KE7EJJ | KE7JTU | KI7SS | N5MUR |
| N7IVM | N7JCK | N7JHJ | N7WW |
| NX6W | W7KRS | WB4LWQ | |

Net control stations reporting for the month were KE7JTU, KE7EJJ, and K7TAG. Thank you for your support!!

The net meets at 7:30 every Tuesday evening on the 3 linked OARS repeaters: 147.36, 224.46, and 441.40 MHz. All Hams are invited to check in.



ARRL and MFJ Team up to Offer 40 Meter Transceiver Kits

Earlier this fall, ARRL introduced the third edition of its "Low Power Communication" book, written by Rich Arland, W3OSS. This new edition includes the complete assembly manual for a 40 meter transceiver kit produced by MFJ Enterprises.

"ARRL has also bundled the book with the kit, giving readers a firsthand experience at project-building and operating," said ARRL Sales and Marketing Manager Bob Inderbitzen, NQ1R. This is the first time ARRL has offered a publication bundled with a radio kit. Inderbitzen said orders for the kit have

been brisk. "We're delighted that MFJ agreed to collaborate with us on this unique publication and product undertaking. The initial surge of interest exceeded our expectation, and we've already gone back to MFJ a couple of times for more units." With such a high demand for these kits, the ARRL has experienced a large number of orders and the League regrets any inconvenience with order delays.

The kit selected for this offering is the MFJ 40 Meter CW Cub Transceiver Kit. The project includes some pre-assembled parts such as surface mounted components. Kit builders get to solder on connectors, inductors, trimmer capacitors and potentiometers. It takes only a few hours to complete the kit and get it on the air. "Building the kit is a natural application for someone enjoying this book," said Inderbitzen. "ARRL is committed to developing active radio amateurs. I can't think of a better way to encourage more hams to experience low-power operating, and to help grow the community of active QRPers." Visit the ARRL on-line catalog <http://www.arrl.org/catalog> for more information about "ARRL's Low Power Communication — third edition," the Cub Transceiver Kit and other new publications.

— from the ARRL Letter



Amateur Radio Service Named Volunteer Group of the Year by Marine Corps Marathon

On October 19, the Marine Corps Marathon announced that the Amateur Radio Service is its Volunteer Group of the Year in light of the 30 years of service and support hams have provided for the annual event. Amateur Radio volunteers began assisting with the Marine Corps Marathon in 1978 and have provided essential, mission critical communications to the medical staff on race day. The Volunteer Group of the Year Award will be presented today, October 26, as part of a special ceremony.

"The ham radio operators play a vital role in medical operations of the race. The knowledge and

expertise of their dedicated volunteers enables the Marine Corps Marathon to provide all participants the highest level of emergency care and I am deeply appreciative of the hams' continued support," said Rick Nealis, Director of the Marine Corps Marathon.

Initially, ham radio served as a simple means of communications at both aid stations and mile markers. In the early 1990s, this support expanded to include digital communications with the aid stations and tracking of the pace car. Eventually, the aid station support evolved to automated digital communications that includes 115 ham operations located at mile markers, water points, aid stations, two finish area medical locations and as shadows to the division commanders. More than 100 Amateur Radio operators volunteer for the Marine Corps Marathon.

The award also recognizes two specific individuals, Rick Bunn, N4ASX, and Tom Azlin, N4ZPT, for their contribution to Amateur Radio participation at the Marine Corps Marathon. Bunn was first licensed in 1971 while in high school. He began volunteering for the Marine Corps Marathon in 1983 and served as the Marine Corps Marathon Amateur Radio liaison from 1997-2001. From 2001-2005, he served as the lead Amateur Radio operator, coordinating all aspects of ham radio support to the marathon. Azlin has been licensed since 1990. He first volunteered with the Marine Corps Marathon in 2001 and, since 2004, has been the Amateur Radio operator responsible for coordinating all aspects of aid station ham radio support.

Voted "Best Marathon for Families," the Marine Corps Marathon continues a combined tradition of dedication, sportsmanship and patriotism. Runners from all walks of life have participated in the world's largest marathon to not offer prize money, deservedly earning the nickname "The People's Marathon." The 32nd Marine Corps Marathon was held on Sunday, October 28, 2007 in Arlington, Virginia and Washington, DC.

— from The ARRL Letter



Groaner

A tourist in Vienna goes through a graveyard and all of a sudden he hears some music. No one is around, so he starts searching for the source. He finally locates the origin and finds it is coming from a grave with a headstone that reads: "Ludwig van Beethoven, 1770-1827."

Then he realizes that the music is the Ninth Symphony, and it is being played backward! Puzzled, he leaves the graveyard and persuades a friend to return with him. By the time they arrive back at the grave, the music has changed. This time it is the Seventh Symphony, but like the previous piece, it is being played backward. Curious, the men agree to consult a music scholar.

When they return with the expert, the Fifth Symphony is playing, again backward. The expert notices that the symphonies are being played in the reverse order in which they were composed, the 9th, then the 7th, then the 5th.

By the next day the word has spread and a throng has gathered around the grave. They are all listening to the Second Symphony being played backward. Just then the graveyard's caretaker ambles up to the group. Someone in the group asks him if he has an explanation for the music.

"Don't you get it?" the caretaker says incredulously. "He's decomposing."

— from *ajokeaday*, via internet

— ... —

Heard any good ones lately? If you would like to share some humor, please send it along to KB6LE@arrl.net.

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2007 ARRL Field Day Results Now Online

The results from this year's Field Day are now available online. ARRL Field Day Manager Dan Henderson, N1ND, said, "I was most pleased to see the all-time record number of participants and reporting stations. Refarming of the bands and the elimination of the code requirements have helped renew on the air activity. Now the challenge for all of us in Amateur Radio is to keep the growth and momentum going."

You can find the results in the Members Only section of the ARRL Web site
<http://www.arrl.org/members-only/contests/results/2007/FD/>.

— from *The ARRL Letter*

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W1AW 2007/2008 Winter Operating Schedule

Morning Schedule:

| Time | Mode | Days |
|---------------------|------|----------|
| 1400 UTC (9 AM EST) | CWw | Wed, Fri |
| 1400 UTC (9 AM EST) | CWf | Tue, Thu |

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)

1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)

(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

| | | |
|---------------------|-----|---------------|
| 2100 UTC (4 PM EST) | CWf | Mon, Wed, Fri |
| 2100 " " | CWs | Tue, Thu |

| | | | |
|--------|---------------|-------|---------------|
| 2200 " | (5 PM EST) | CWb | Daily |
| 2300 " | (6 PM EST) | RTTY | Daily |
| 0000 " | (7 PM EST) | CWs | Mon, Wed, Fri |
| 0000 " | " | CWf | Tue, Thu |
| 0100 " | (8 PM EST) | CWb | Daily |
| 0200 " | (9 PM EST) | RTTY | Daily |
| 0245 " | (9:45 PM EST) | VOICE | Daily |
| 0300 " | (10 PM EST) | CWf | Mon, Wed, Fri |
| 0300 " | " | CWs | Tue, Thu |
| 0400 " | (11 PM EST) | CWb | Daily |

Teleprinter at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 96 in the November 2007 issue of QST or on the web at <http://www.arrl.org/w1aw.html>.

— ARRL Bulletin ARLB025



Frequencies (MHz)



CW: 1.8175 3.5815 7.0475 14.0475 18.0975
21.0675 28.0675 147.555

RTTY: - 3.5975 7.095 14.095 18.1025 21.095
28.095 147.555

VOICE: 1.855 3.990 7.290 14.290 18.160
21.390 28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

RTTY = Teleprinter Bulletins = BAUDOT (45.45 baud) and AMTOR-FEC (100 Baud). ASCII (110 Baud) is sent only as time allows.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular teleprinter frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour,

Deductions

Little Billy wanted \$100 badly and prayed for two weeks but nothing happened.

Then he decided to write God a letter requesting the \$100. When the postal authorities received the letter addressed to God, USA, they decided to send it to President Bush.

The President was so impressed, touched, and amused that he instructed his secretary to send Billy a \$5.00 bill. President Bush thought this would appear to be a lot of money to a little boy.

Billy was delighted with the \$5.00 and sat down to write a thank you note to God, which read:

Dear God,

Thank you very much for sending the money. However, I noticed that for some reason you had to send it through Washington D.C. and, as usual, those crooks deducted \$95.00.

Thanks,

Billy

— from *ajokeaday* via Internet



December 2007

OARS Calendar

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | 1 <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 7:15 AM Breakfast at Nickelby's 600 Trooper Rd ARRL 160 Meter Contest CW </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 ARRL 160 Meter Contest CW | 3 | 4 7:00 PM ARES Net 7:00 PM OARS Net | 5 | 6 | 7 | 8 ARRL 10 Meter Contest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 ARRL 10 Meter Contest | 10 | 11 7:00 PM ARES Net 7:00 PM OARS Net | 12 | 13 N American Meteor Scatter Contest | 14 <div style="border: 1px solid black; padding: 2px; width: fit-content;"> Deadline for Watts News Inputs N American Meteor Scatter Contest </div> | 15 N American Meteor Scatter Contest PSK31 Death Match | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 N American Meteor Scatter Contest PSK31 Death Match Russian 160-Meter Contest CW/SSB | 17 N American Meteor Scatter Contest | 18 7:00 PM ARES Net 7:00 PM OARS Net | 19 | 20 | 21 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 24 | 25 7:00 PM ARES Net 7:00 PM OARS Net | 26 | 27 | 28 | 29 RAC Winter Contest CW/Phone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 31 | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> November 07 <table style="font-size: small; border-collapse: collapse;"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> January 08 <table style="font-size: small; border-collapse: collapse;"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr> </table> </div> </div> | | | | | S | M | T | W | T | F | S | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | S | M | T | W | T | F | S | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
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| 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OARS Membership Application

▪ New Date _____
▪ Renewal ARRL member ? _____
Call Sign _____ License class _____
Name _____
Address _____
City, St. _____ ZIP _____
Home phone _____
Day phone _____
Email _____
Newsletter by Email? (yes/no) _____

Annual Dues: \$20 (\$25 family) — first year prorated by number of months.

If family membership, please attach above information for each family member.

Send to: OARS
PO Box 2861
Olympia, WA 98507

O A R S Meeting
Wednesday, November 28, 7:30 p.m.

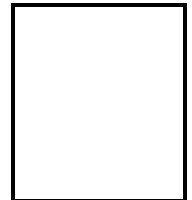
“Packet Practice”

South Bay Fire Station
3506 Shincke Road NE

An Invitation

If you are a Ham who has received this newsletter, but are not yet a member of OARS, you are cordially invited to join us. Submit the membership application at the left to OARS at PO Box 2861, Olympia WA 98507, or bring it to an OARS meeting and see Treasurer Ed Fitzgerald.

OARS
PO BOX 2861
OLYMPIA WA 98507



If the date on your address label is marked in red, it is time to renew!