

The *E-VOX*

The Official *On-Line* Newsletter of the



Lehigh Valley Amateur Radio Club - W3OI



Allentown, Pennsylvania (Lehigh County) - **USA**

Officers

President: **Mark S. Miller - AK3M** (AK3M@rcn.com or AK3M@arrl.net)

Vice President: **Walt Snyder - KE3SP** (SBWALLY@aol.com)

Secretary: **Rod Wolfe, Jr. - N3XG** (rjwolfe@rcn.com)

Treasurer: **Paul Ryan - N0KIA** (n0kia@arrl.net)

Board of Governors

Chris Kelly - N3RPV (ckelly@ckelly.tv)

Larry Miller - NR3R (milla@enter.net)

Carl Seier - AA3IX (aa3ix@ptd.net)

Robin Gable - N3XG (kb3gzw@arrl.net)

Jim Kelly - KA3UQP (kellyj6@ptd.net)

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Repeaters

146.340/146.940 (PL 71.9)

147.735/147.135 (PL 167.9)

RACES NET

Every Monday at 7:30 (ET)

146.34 / 146.94 (PL 71.9)

All are welcome !

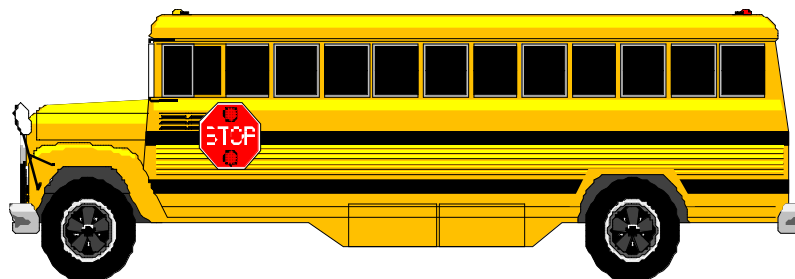


W3OI Home Page: <http://www.w3oi.org>



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BACK to 2XHOO!



The September Meeting will be held on
September 7, 2004 at the Red Cross Building at 7:30.

Program: **Geocaching**

Presenter: Phil (KB3HMK)



LVARC / RACES NET

Don't forget to check into the Monday Night
LC/LVARC/RACES Net on 146.94 (PL 71.9) with an
alternate frequency of 147.735/147.135 (PL 167.9)
The Net begins at 7:30 pm local time (ET).

Many club announcements
will be heard there !

Monday Night RACES/ARES Check In Summary 2004

| <u>Month</u> | <u>Number of Check-In's</u> | <u>Number of Mondays</u> |
|--------------|---------------------------------|------------------------------|
| January | 86 | 4 |
| February | 100 | 4 |
| March | 134 | 5 |
| April | 71 | 3 |
| May | 128 | 5 |
| June | 97 | 4 |
| July | 69 | 3 |



This Month In Ham Radio

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|-------------------------------------|-----------|----------|--|---|
| September  | | | | | | All Asian DX Phone Contest IARU Region 1 SSB Field Day |
| All Asian DX Phone Contest IARU Region 1 SSB Field Day | ARES RACES Net 7:30 NO NET (Holiday) | LVARC Meeting Red Cross 7:30 | 1 | 2 | 3 | 4 |
| All Asian DX Phone Contest IARU Region 1 SSB Field Day | ARES RACES Net 7:30 N3MFT | | 8 | 9 | 10 | WAE DX SSB Contest ARRL Sept. VHF QSO Party |
| WAE DX SSB Contest ARRL Sept. VHF QSO Party | ARES RACES Net 7:30 N3MFT | | 15 | 16 | LVARC VE Test Session 7:00 pm | SC QSO Party QCWA QSO Party |
| SC QSO Party QCWA QSO Party | ARES RACES Net 7:30 KA3UQP | | 22 | 23 | 24 | AK QSO Party TX QSO Party AGCW VHF/UHF Contest |
| AK QSO Party TX QSO Party AGCW VHF/UHF Contest | ARES RACES Net 7:30 KB3GZV KB3GZW | | 29 | 30 | 2004  | |

LVARC Meeting -Tuesday September 7, 2004
7:30 pm at the Red Cross Building

LVARC VE Test Session - Friday September 17, 2004



Minutes of the August 3, 2004 Meeting de Rod (N3XG), - Secretary - LVARC

Lehigh Valley Amateur Radio Club (W3OI) Meeting Minutes



Date: August 3, 2004

President Miller called the meeting to order at 1934 Hrs, EDST.

The meeting opened with the Pledge of Allegiance, then a moment of silence was observed for Silent Keys.

There were a total of 20 members and 2 guests in attendance. The following Board Members were present at the meeting: President Miller, Treasurer Ryan, Secretary Wolfe, Board Member Gable, Board Member James Kelly, and Board Member Larry Miller.

Corrections Additions to the minutes: There were no corrections or additions to the minutes of the July meeting. Treasurer's Report (Paul - N0KIA)

Paul reported the ending balance for July was \$725.02.

Committee Reports:

Repeater

Jeff N3MFT reports that the county has approved adding voting to the 94 machine and is waiting for the bid for the installation contract. Rod N3XG reported that 135 is up and running, and other than some down-time due to what is believed to have been malicious jamming, there are no other problems at this time.

Program

Phil KB3HMK reports that this month the topic is Echo Link by Bob N3QZR, and next month Phil will be presenting Geocaching.

Volunteer Examiners

Mark AK3M reported that the VE team tested 2 in July. Lou KF2WO tested for Extra Class and has upgraded, Lou is also currently awaiting the official notice from the FCC to indicate his call sign change from KF2WO to N3OL. Additionally, Ken Maskall passed his entry-level technician test and is now licensed as KB3LJE. Congratulations to both Lou and Ken.

Field Day

Lou KF2WO has submitted the final paperwork to the ARRL.

Web Site

Web site is up and running. A new member / first time guest, Jeff WD3V, reported to the club that he used the web site to find us and join.

Education

Rod N3XG reports that he was in contact with two of the three instructors for the entry Technician class. He will be running the fall weekend class on October 15, 16, and 17. Rod made a request for any member that wishes to help with the class, either in a support role or as an instructor to contact him.

OLD Business

1. Rod N3XG was able to meet with past President Check and retrieve some archived records from the club, to include the original certificate of organization issued by the County of Lehigh. The records are now in the hands of Paul N0KIA. Rod also received 3 mobile radios that Dennis had been collecting for club use. Rod will attempt to make a temporary repeater out of the 2 Syntor X mobiles. Rod will update the club on the success of the experiment.
2. President Miller reminded club members that this weekend (August 7) the club is hosting a fishing trip.
3. Rod N3XG reported that he has the reserve receive element for 135 and the new FM transmit element is in production.
4. Lou KF2WO reported that he has found that the supplier Davis RF will give us the best price on RG-8x. Lou states that he can purchase 300 foot of the coaxial cable and 6 PL-259's and 6 UG176 reducers, with delivery for \$56.34. The club approved the purchase.

(Minutes - continued on page 6)



(Minutes - continued from page 5)

New Business

1. President Miller is taking nominations for the Pres Schuler award. President Miller explained that the Pres Schuler Award should be presented to the club member that has made the biggest contribution to the club and to the Amateur Radio Service. The award is presented at the December meeting, so nominations for the award close in November.
2. The Club has been approached by the National Weather Service to use one of our repeaters for the Sky-Warn Wide Area BEARS link system. NWS will pay for the link radio, tower work, antenna and all equipment needed for the link. After some discussion the membership agreed that this is a win-win situation for the club and it will bring back some use to the repeater. We look forward to this capability. President Miller will draft a letter of agreement to the NWS giving the permission to start the program.
3. President Miller announced an EMCOM seminar on October 23, in Selinsgrove PA. Jeff N3MFT is asking for any photos of amateur operators at work during activations for the seminar. Jeff would forward the photos to Eric WB3FPL for use in a presentation at the EMCOM seminar.
4. President Miller announced a pizza night to be held prior to the meeting on September 7. The pizza will be served around 7 pm.
5. President Miller reminded club members that nominations for 2005 officers would be held in November. President Miller also announced that he will not seek re-elections and will decline any nomination for the office of President.
6. Jeff N3MFT reported that the County of Lehigh has purchased a new 80-meter vertical antenna for the communications vehicle. They have also purchased a new satellite uplink system. Jeff hopes to bring the vehicle for membership familiarization to October's meeting, providing the new items have been installed.
7. Erik AI3D, a past club member, has donated two spools of 12 gauge wire. Erik will be leaving the area to pursue graduate school and has expressed interest in running some SKEDs. We wish Erik continued success and thank him for the donation.

New members/Guests

The membership of W3OI was presented with new membership applications from the following amateurs: Fran Carey KB3HZB, Robert House WB3JSZ, Jack Seeger KC9DQV, and Jeff Spirko WD3V. A motion was made by Robin KB3GZV to accept the applicants as new members. Jeff N3MFT provided a second to the motion. President Miller called for a vote; and all present were in favor.

A motion to close the meeting was made by Jim KA3UQP and Mark N3ULR provided a second. All present were in favor and the motion to close carried.

The LVARC Monthly Business Meeting Closed at 2011 hrs, EDST.

Respectfully Submitted de N3XG, Secretary

| | | | |
|----------------------|----------------------|-----------------|---|
| \$\$\$ | W3OI Finances | \$\$\$ |  |
| Balance as of | July 31, 2004 | \$725.02 | |



Monday Night RACES/ARES Net Control Operators



| | | |
|-------|----|------------------|
| Sept. | 6 | No Net - Holiday |
| Sept. | 13 | N3MFT |
| Sept. | 20 | KA3UQP |
| Sept. | 27 | KB3GZV/KB3GZW |



Cryptoquote

(see page 10 for solution)

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**LVARC Activities/Events****Mark your Calendar****PRINT, CLIP and POST****Monday September 6-- RACES NET CANCELED (Holiday)****Tuesday September 7--- LVARC Meeting - 7:30 PM (Red Cross Bldg.)****Monday September 13 --- LC RACES/ARES Net - 7:30 pm (146.94)****Friday September 17 -- VE Test Session****Monday September 20 --- LC RACES/ARES Net - 7:30 pm (146.94)****Monday September 27 --- LC RACES/ARES Net - 7:30 pm (146.94)**

There will be additions and deletions to the above dates. Listen to the Monday Night Net, the newsletter and announcements at meetings for changes.

LVARC Program Schedule**de Phil (KB3HMK) - LVARC Program Chairman****September** - * Phil (KB3HMK) on geocaching**October** - * Frank (W3FTU) on old radio restoration**November** - * Lou (KF2WO) on home-brewed radio receivers
* Nominations for officers for 2005**December** - * Operation Ho-Ho
* Election of officers for 2005
* Presentation of the Pres Schuler Award
* Annual Holiday party**Want A FREE Radio!?!?** - Giga Parts

occasionally offers a sweepstakes where one could win a free radio.

Go to:

<http://www.gigaparts.com/sweepstakes/checkBonus.php>

for your daily registration and chance to win!

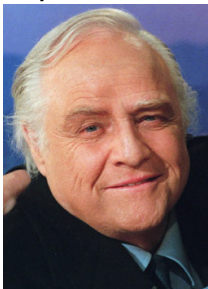
GigaParts[®]
Online Superstore!



Actor Marlon Brando (Martin Brandeaux), KE6PZH / FO5GJ, **SK**

One of the best-known names in cinematic as well as Amateur Radio circles, actor Marlon Brando,

died in Los Angeles July 1 at age 80. Known to hams worldwide as **KE6PZH** and **FO5GJ**, Brando is listed on the FCC database as Martin Brandeaux. He was on the air occasionally through the years with his FO5 call sign from his private island in French Polynesia.

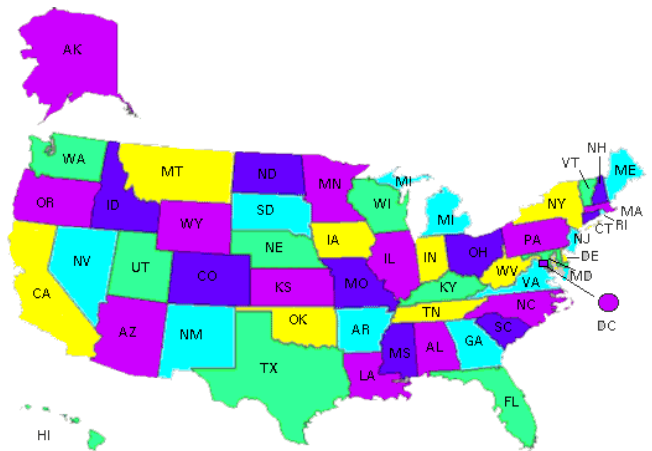


(Obituary from the ARRL website)



Are You A County Hunter?

If you are trying to work as many counties as you can (County Hunter), a good place to start is the URL below. It lists all the counties in all 50 states!



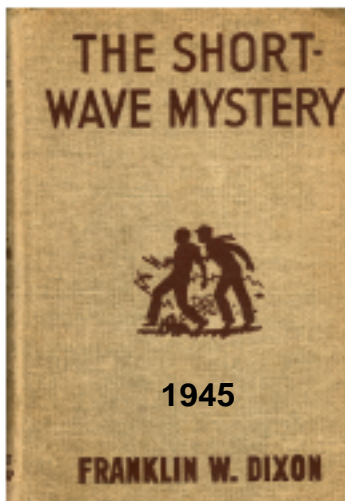
http://www.naco.org/Template.cfm?Section=Find_a_County



Cryptoquote Solution

(see page 7)

“Ten people who speak make more noise than ten thousand who are silent” --- Napoleon Bonaparte



Do you know the call **K2XEJ**?
That call belongs to:

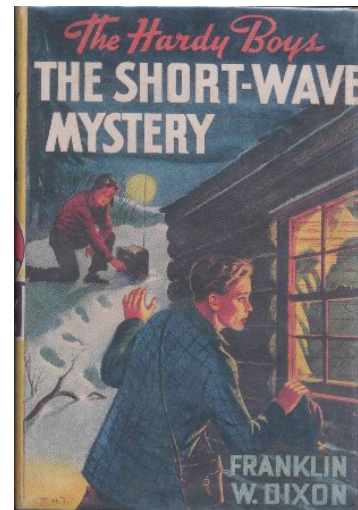
- (a) US VP Richard Chaney
- (b) The ARRL Chief Field Director
- (c) Frank Hardy (of the Hardy Boys)**
- (d) Albert Einstein

(see page 7)

ANSWER: (c) Frank Hardy of the Hardy Boys fame.

The call can be found in the 1945 story, “*The Short Wave Mystery*” by Franklin W. Dixon. By the way, the “other half” of the Hardy Boys was Frank’s brother, Joe Hardy. As an added bonus, the Hardy Boys had a friend Chet Morton, who held the amateur radio call K2XOB.

Note: Joe Hardy’s call was never revealed in the story. Also, Franklin W. Dixon never existed. The series was written by a group of writers.



Ken Maskall, who tested at the July 16, 2004 LVARC test session, received his Technician class license call on July 23, 2004. The LVARC welcomes **Ken** as **KB3LJE** to the air!



HAMS MUSTER IN WAKE OF FLORIDA CAPITAL BLACKOUT

Amateur Radio Emergency Service (ARES) teams and local amateurs in the Tallahassee, Florida, area volunteered to assist after electrical power went out in about half of the capital city July 13. The region was affected for about three hours before power was restored. More than a dozen amateurs participated in the blackout response.



"We have a very active ARES group here in the Capital District, and all the local hams as usual responded immediately," said Gadsden County Emergency Coordinator Bill Mapoles, KG4LFT. At the request of local authorities, hams helped during the blackout by reporting traffic difficulties, non-operating traffic signals and other power failure-related problems, he said. The 2 PM blackout during hot, humid weather, killed air conditioning, snarled traffic and led Florida A&M University to close for the rest of the afternoon.

Former Capital District EC Kent Hutchinson, KC4TOC, started up an informal Tallahassee blackout net, subsequently picked up by Paul Eakins, KJ4G. Amateurs staffed the local emergency operations center and also assisted the American Red Cross, which opened a shelter and three aid stations.

"I'm proud to be a part of our local ARES group," Mapoles said, "and I can say that we, in the Capital District, are prepared for anything."

From :
The ARRL Letter
Vol. 23, No. 29
July 23, 2004





Wireless Headphones for your Shack!

TNX to information from Frank (W3FTU)

Want to work DX late at night but don't want to disturb the family? Want to eliminate distracting noises from your shack while on the air? **You can, and all without being bothered by annoying wires?**

Frank (W3FTU) suggests these *wireless headphones* from Heartland America for only \$29.99 (plus S&H)!

You can see/order them from Heartland America at: <http://www.heartlandamerica.com>

A great addition to your shack!

Editor's note: I have a set and they are terrific!



0: \$129.95
Was: \$39.99
You Save: \$99.96
Now Only \$29.99
 Item No. WW22-97373

DON'T FORGET

The LVARC VE program. If you know someone who would like to become a ham or if you want to upgrade your license, the LVARC can help!

Contact Mark (AK3M) for details
(610-865-9183 or AK3M@rcn.com)





Pres Schuler Award

de Mark (AK3M)

Suggestions for a recipient of the 2004 Pres Schuler award will be accepted no later than the November, 2004 meeting.

If you are not familiar with this award, I will explain. LVARC members suggest an LVARC member to receive the annual award. **Members are recommended based on their contribution to the club.**



Nominees will be accepted by me (Mark - AK3M) or any board member (see cover page of newsletter for list of BOG). The award will be **presented at the December, 2004 meeting.** We would like to **keep it as a surprise to the recipient until the presentation.** If you would like to suggest a candidate and do not want him to know, please contact me or any board member privately (phone or email). The recipient will be selected on the number of "votes" which are received as verified by the LVARC Board of Governors.

"A man cannot be comfortable without his own approval."

---- Mark Twain



As you know, the LVARC will be holding nominations for officers for the 2005 year in November, 2004.

It is with mixed feelings that I have decided not to seek the nomination for the office of president for 2005.

I have thought hard about this decision and have concluded that I

have accomplished what I had intended during the past three years and feel that someone with new ideas should step up and take the presidency.

I have enjoyed the office and feel the club has come a long way in the past three years and would like to see the progress continue.

Although no longer president, I intend to remain an active member and support the new administration as much as possible.

I wish to thank all the members for their support because without active members, there would be no LVARC regardless of the excellent caliber of its officers. It is because of **YOU**, the members, that we have seen the club progress!

I am including this in this newsletter in order to give members time to consider who they would like to nominate for president when asked in November, 2004.

Sincerely,

Mark (AK3M)



Lehigh County RACES Activated In July, 2004



A gasoline leak ignited at Buckeye Pipeline in Emmaus on Thursday July 22, 2004. Lehigh County RACES was activated about 9:00 am local time, due to a possible evacuation of nearby residents. Approximately six LC RACES members were available and checked into the net. The activation and net were eventually canceled.

Emergency Communications Conference Planned for October



There will be an Emergency Communications Seminar in Selinsgrove, PA on Saturday October 23, 2004. The program will begin at 9:00 am and conclude at 5:00 pm. The program is open to all amateurs interested in emergency communications. **See page 16 for agenda and page 17 for a registration form if you are interested in attending.**

Pizza at the September Meeting

Pizza will be served at the September 7, 2004 meeting. As usual, we will serve pizza at 7:00 pm, one half hour BEFORE the regular business meeting which is at 7:30 pm.





Inaugural ARRL EPA Section EmComm Conference

Date: Saturday – October 23, 2004

Time: 9:00 am to 5:00 pm

Location: PA Career Link Building
713 Bridge Street, Selinsgrove, PA 17870

**The Conference is open to all Amateur Radio Operators
interested in Amateur Radio Emergency
Communications.**

Speakers at the Conference will be:

- Bob Josuweit, WA3PZO – CQ Public Service Editor and ARRL EPA Asst. SM
- Anthony Camillocci, KA3BPN – PEMA Eastern Region Director
- John Rymell, N3PF – Lycoming County Emergency Coordinator
- Nicholas Meacher, N3WWE – Adams County Emergency Coordinator
- Bob Reynolds, WB3DYE – WNEP-TV CH16, Senior Correspondent
- Chris Snyder, NG3F – Snyder County Emergency Coordinator/RACES Officer

Multiple Emergency Communication Vehicles are currently scheduled to be on hand for all
to view, including:

National Red Cross Disaster Communications Plan
N3XJX's personal Communications Van
Harrisburg Area REACT Team Communications Van
Luzerne County Communications Vehicle
Lancaster County Communications Van

Registration Fee: \$5.00 if received on or before Oct 17th, or \$7.50 after.

To Register contact Roger Dietz, N3CVQ – Snyder County Asst. EC
via

email: rdietz@ptd.net

Go to www.svemcomm.org and click on the link to get the Registration Form

Sponsored by: Susquehanna Valley EmComm
(Northumberland County ARES and Snyder County ARES/RACES)



Inaugural ARRL EPA Section EmComm Conference

Pre-Registration Form

Saturday October 23, 2004

PA Career Link Building

713 Bridge Street, Selinsgrove, PA 17870

NAME: _____ **CALL:** _____
STREET: _____
CITY: _____ **STATE:** _____ **ZIP:** _____
PHONE: _____
EMAIL: _____

***** Registration Fee: \$5.00 if fee is received on or before October 17 -
 \$7.00 after *****

Check or M.O. Only - Do not send cash

Affiliation: (Check all that apply)

☐ **ARES** ☐ **RACES** ☐ **SKYWARN**
☐ **AMATEUR RADIO CLUB** ☐ **NONE**
☐ **OTHER** _____

Appointments Held (Check all that apply)

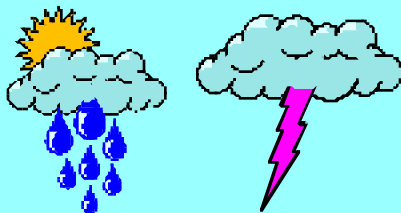
☐ **SM** ☐ **ASM** ☐ **SEC** ☐ **STM**
☐ **TC** ☐ **DOC** ☐ **DEC** ☐ **EC**
☐ **RO** ☐ **DRO**
☐ **OTHER** _____

Mail Registration and Fee to:

Roger Dietz, N3CVQ - Snyder County AEC Admin/Logistics
RD#2 Box 310
Mt. Pleasant Mills, PA 17853
 rdietz@ptd.net



Severe Weather Information



Lightning and Hurricanes

Submitted By Larry (NR3R)
Source:

"Topside"

A US Coast Guard Aux. pub.
5th Northern Dist..
Vol. 104, No. 2
Summer, 2004.

LIGHTNING MYTHS & TRUTHS

MYTH: If it is not raining, then there is no danger of lightning.

TRUTH: Lightning often strikes outside of heavy rain and may occur as far as 10 miles away from any rainfall.

MYTH: The rubber soles of shoes or rubber tires on a car will protect you from being struck by lightning.

TRUTH: Rubber soled shoes and rubber tires provide **NO** protection from lightning. The steel frame of a hard topped vehicle provides increased protection if you are not touching metal. Although you may be injured if lightning strikes your car, you are much safer inside a vehicle than outside.

MYTH: People struck by lightning carry a charge and should not be touched.

TRUTH: Lightning strike victims carry no electrical charge and should be attended to immediately.

MYTH: "Heat lightning" occurs after very hot summer day and poses no threat.

TRUTH: "Heat lightning" is a term used to describe lightning from a thunderstorm too far away to be heard.

Saffir-Simpson Hurricane Scale

| Scale Number (Category) | Sustained Winds (MPH) | Types of Damage | Hurricanes |
|-------------------------------|-----------------------------|--|------------------------------|
| 1 | 74-95 | Minimal: Damage primarily to shrubbery, trees, and unanchored mobile homes. No real damage to other structures. | Irene, 1999 |
| 2 | 96-110 | Moderate: Some trees blown down. Major damage to exposed mobile homes. Some damage to roofs, etc. | Georges, 1998 Floyd, 1999 |
| 3 | 111-130 | Extensive: Large trees blown down. Mobile homes destroyed. Some structural damage to small buildings. | Betsy, 1965 Alicia, 1983 |
| 4 | 131-155 | Extreme: Trees blown down. Complete destruction of mobile homes. Extensive damage to buildings. Complete failure of roofs on many small residences. | Hugo, 1989 |
| 5 | >155 | Catastrophic: Complete failure of roofs on many residences and industrial buildings. Extensive damage to windows and doors. Some complete building failure. | Andrew, 1992 |



LVARC Fall Technician Classes Planned

LVARC instructor, Rod (N3XG) has planned another weekend of Technician classes. **The classes are planned to be held the weekend of October 15, 16, and 17, 2004.**

The classes run Friday evening, all day Saturday and Sunday morning. The location is to be announced. There will be a break for lunch on Sunday, then Sunday afternoon, the VE Team will administer the Technician Exam. The first class in Spring, 2004 was 100% successful where all three students passed and received their Technician class license! **For more information, contact: Rod (N3XG) at rjwolfe@rcn.com or Mark, AK3M@rcn.com**

Lou Poli is now N3OL
CONGRATULATIONS on the upgrade to Extra Lou!

Amateur Radio Facilitates Dramatic Rescue at Sea

Radio operators in the US, French Polynesia and Australia played an vital role in the successful late-June rescue of a couple aboard a privately owned sailboat in the Pacific Ocean. The drama began July 25 after John Caine, VK4CEJ, in Queensland, Australia, checked into the Pacific Seafarers Net on 14.313 MHz with emergency traffic from the 47-foot sailing ketch *Fingolfin*, some 680 nautical miles north of Nuka Hiva--the largest of the Marquesas Islands in French Polynesia. A young Australian couple, John and Kelly Hallows, were on their way from Mexico to the Marquesas.



(continued on page 20)

(continued from page 19)

With the trip taking longer than anticipated, John Hallows had run out of a required medication and was experiencing debilitating pain.

Through Maritime Mobile Service Net (MMSN) member Bob Botik, K5SIV, in Austin, Texas, the US Coast Guard in Honolulu and a shipping firm, arrangements were made for the Greek container vessel *Irene Logos* to rendezvous with the *Fingolfin* and transfer the needed medication. Unfortunately, the larger vessel struck the ketch during the transfer, badly damaging it. To add insult to injury, the medication transferred turned out to be the wrong one. Eventually other Amateur Radio operators became part of the unfolding drama, and Botik found himself as a key player.

Read the rest of the story at the ARRL web site at :

<http://www.arrl.org/news/stories/2004/07/30/4/?nc=1>



Two Piece Gear Bag

ARRL Item #AR022

This two piece equipment/utility gear bag is essential for all radio operators. Heavy duty construction with 12 inside/9 outside pockets allows for easy storage of radios, batteries, tools, equipment and even clothes! The outside duffel features a large wide mouth opening for easy access. ARRL

logo embroidered on both bags. Personalization is available on large bag only. (Accessories not included) Duffle: 16 x 11.5 x 8.5, Tote: 12.75 x 7 x 6

\$33.75

Available from the ARRL - Go to:

<https://www.barkerspecialty.com/arrlnew/default.asp?action=showme+showme=105+custid=ARRL19853+referid=394016356-73020042144+cc=>



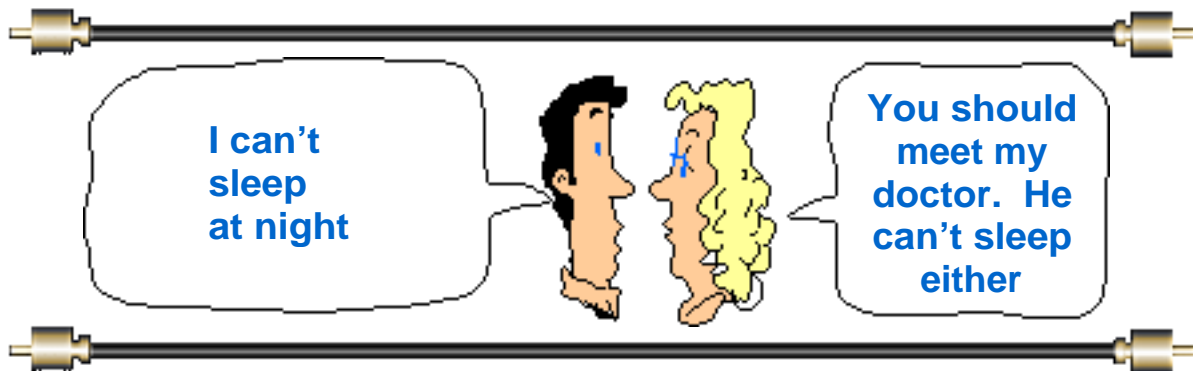
The LVARC Welcomes New Members



Four new applicants were approved for membership at the August 3, 2004 meeting. The LVARC welcomes:

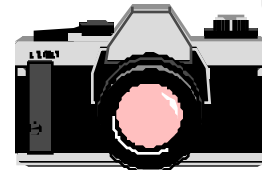
Bob House (WB3JSZ)
Fran Carey (KB3HZB)

Jeffrey Spirko (WD3V)
Jack Seeger (KC9DQV)



Want Your Picture On The LVARC Web Site?

de Mark (AK3M)



The LVARC member's section includes member's pictures which accompany their name. If you have not yet had your picture taken and would like to or if you are a new member and would like your picture beside your name and call, see me at the September meeting. I will have my camera at the September 7, 2004 meeting.



The LVARC will purchase 300 feet of coax cable and connectors for Field Day use.

The purchase will be made from Davis RF.

See their web site at davisrf.com. TNX to Lou (N3OL) for finding the best deal.

