

W6OTX

W6ARA

PAARA NEWSLETTER

VOLUME 59, NUMBER 8, August 2009

K6OTA

K6YQT

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

Celebrating 72 years as an *active* amateur radio club—*Since 1937*



CALENDAR

August 7, PAARA Meeting, 7:00 p.m.
Menlo Park Recreation Center
700 Alma Street, Menlo Park

26 Board Meeting, 7:10 p.m.
Palo Alto Red Cross
400 Mitchell Lane

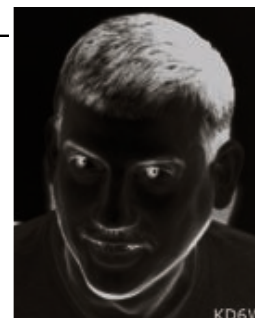


President's Corner Reflector

Joel Wilhite – KD6W

August 2009

This past month has been packed with ham radio activities and I hope everybody has had a chance to get out and enjoy the great weather and great ham radio activities like Field Day. We did it again and had another hoot this year and another great effort has paid off, but more on that later.



Going to the Hornet made me trip back through the decades in my mind. Yes, I had a great time running around the ship with my son Zack and the PAARATroupers. But I couldn't help but stop and think about the great history of the ship and when it all happened. Then I started to think about this time ten years ago when I married my wife and twenty years ago I was getting discharged from the Navy. Thirty years ago I changed my college career and moved to California from Cincinnati. Forty years ago my parents had all of us kids in pajamas down stairs in front of

(Continued on page 37) Pres Corner

The Low, Low, Low Bands

Leigh L. Klotz, Jr. WA5ZNU

Most of us are accustomed to operating on VHF (30-300 MHz or 6/2/1.25 meters) and UHF (70cm, 900 MHz, 1.2 GHz, 2.4GHz), and HF (3-30 MHz, or the 80/60/40/30/20/15/12/10 meter bands), and a few more are on MF (1.8-2.0 MHz, 160 meters). A smaller number are active in EHF (5 GHz, 10 GHz, and above).

Even fewer are active in the SWL and Part 15 operations afforded to us in the US on LF 30 KHz – 300 KHz range, or even the low end of MF, from 300 KHz to 545KHz where the AM broadcast band begins. Hams around the world are active in these bands, some of which have national primary or secondary ham allocations. In the US, the FCC allows unlicensed operations at low power levels and with restricted antennas on a



PLEASE JOIN US AT OUR
NEXT GENERAL MEETING ON
AUGUST 7, 2009
OUR SPEAKER WILL BE...

John Miller – K6MM

A 160m "No Excuses" Vertical

John designed a vertical for stations having a difficult time putting a decent signal on 160M from a small lot or one with CC&R restrictions. John's design for a shortened (25 ft.) vertical antenna was published in the June issue of QST, but John has agreed to give as an overview and an update and share with us his progress since the article was published.

John first became interested in Amateur Radio in the mid-50s as a teenager living in Syracuse, NY. He started short wave listening on a classic Hallicrafters S-38E receiver in 1956 and then obtained his Novice license, WV2BQJ, in 1958. He headed west to California in 1976, where he obtained his first "6 land" call sign, WA6OMA. In 1987 he upgraded to Advanced Class as KE6MI. In July of 2005, decided to go the "Extra Mile" and passed the Extra Class license exam. After meeting with the family of Silent Key, William Marcum, the original holder of the call sign K6MM, he applied for and was assigned the vanity call sign K6MM on July 8, 2005.

VE Exams, 3rd Saturday each month, 10:30AM, 145.23— PL=100Hz

Redwood City Main Library, Community Conference Room
 1044 Middlefield Road, Redwood City, CA
 contact: <http://amateur-radio.org/> or Al, WB6IMX@att.net

ELECTRONICS FLEA MARKET

Sponsorship by A.S.V.A.R.O.
 (Association of Silicon Valley Amateur Radio Organizations)
 Second Saturday of month, March-October, 6am-2pm
 Howard M. Krawetz, N6HM 650-856-9761
 Contact: <http://www.electronicfleamarket.com/>

LIVERMORE SWAP MEET. Now in Robertson Park, Livermore, every first Sunday of the month. 7 am to 11:30 am. Free admission for buyers. For further info, see: www.larkswap.com or contact Ian Parker, W6TCP at swapmeet@livermoreark.org

PAARA Palo Alto Amateur Radio Association

Meets 1st Friday 7:00pm each month at Menlo Park Rec. Center, Net 145.230 each Monday 8:30. See our website at <http://www.paara.org/> for more information.
 Or contact: Joel Wilhite KD6W, KD6W@ARRL.NET, 650-325-8239

FARS Foothills Amateur Radio Society

Meets 4th Friday each month at 7:30pm
 contact: <http://www.fars.k6ya.org/>

NCDXC Northern California DX Club

meets 2nd Friday 7:30pm each month,
 repeater for member info 147.360, Thursday 8:00PM
 contact: <http://nedxc.org/> or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

Northern California Quarter Century Wireless Association
 Meets third Wednesday monthly at Harry's Hofbrau in Redwood City @ 11:30 AM.
 Guests are welcome. Saturday morning net on 146.850 MHz, PL 114.8

NorCalQRP Northern California QRP Club

meets 1st Sunday each month
 contact: <http://www.norcalqrp.org/>

SPECS Southern Peninsula Emergency Communication System

meets each Monday 8:00pm on Net 145.27, 440.80 MHz
 contact: <http://specsnet.org/> or Tom Cascone, KF6LWZ, 650-688-0441

SCARES South County Amateur Radio Emergency Service

meets 3rd Thursday 7:30pm each month, San Carlos City Hall.
 Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings.
 contact: President Gary D. Aden, K6GDA 650-743-1265(D), 650- 595-5590 (N)
 Web: <http://k6mpn.org> E-mail: pres@k6mpn.org

SCCARA Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl
 Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 107.2) Thur.
 meets 2nd Mon each month @ 7:30 PM.
 contact: <http://www.qsl.net/sccara/> or Clark Murphy KE6KXO 408-262-9334
 ARRL/VEC license testing contact 408-507-4698

SVECS Silicon Valley Emergency Communications

Operates AA6BT repeater (146.115 MHz+)
 contact: <http://www.svecs.net/> or Lou Stierer WA6QYS 408 241 7999

TEARS The Elmer Amateur Radio Society

Dedicated to operational training, knowledge building &
 FCC exam testing. KV6R repeater under construction.
 Contact AA6T@ARRL.NET. Most members are Extra
 class or VE's. See QRZ dot com/kv6r for class info

WVARA West Valley Amateur Radio Association

W6PIY six-meter repeater on 52.58MHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked.
 VHF: 52.58 (-500) 151.4 ctcss UHF: 441.35 (+5.0 88.5) ctcss
 147.39 (+600) 151.4 ctcss 1286.20 (-12m) 100.0 ctcss
 223.96 (+1.6) 156.7 ctcss
 Meetings are 3rd Wednesday of every month.
 contact: <http://wvara.org/>, Bill Ashby N6FFC, 408-267-3118, N6FFC@Juno.com, or N6FFC@ARRL.NET

American Red Cross, SANTA CLARA VALLEY CHAPTER

contact: <http://santaclaravalley.redcross.org/> or Scott Hensley KB6UOO, (408) 967 7924
shenslev@Novell.com

(please send changes to PAARAgaphs editor: kd6w@arrl.net)

Please contact Rick Melrose for
 settling your 2009 membership dues so
 you can keep receiving your
 PAARAgaphs

Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

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	bob@rgktechsales.com	
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	dteter@wawi.com	

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Ron Chester W6AZ	Peter Sheerin K6WEB

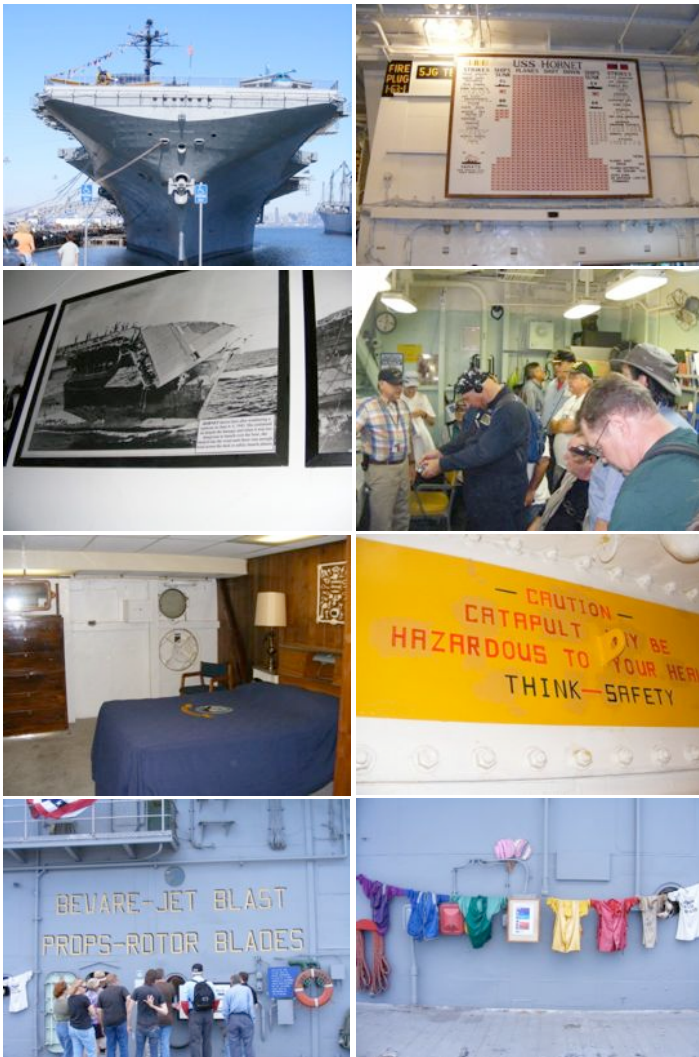
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A Picture Is Worth a Thousand Words



PAARA's 2009 Tour of the U.S.S. Hornet



(Continued from page 37)

were extremely different. I understand the mentality of the time as our neighbors did have a bomb shelter right across the street from our house when I was ten years old.

Now that I have turned fifty, I can say I have seen just about everything except for a launch from Florida (or Vandenberg, for that matter). The one thing I didn't think I would ever see is be a group hams turning their backs to innovation. I guess this is the place where the power of an idea whose time has come doesn't have a place to go; 2m D-Star will have nowhere to go in the Bay Area for 3 more years according to the resounding response of the membership. I would like to know your thoughts on this topic and invite you to send your comments to me at kd6w@arrl.net.

73 de KD6W—Joel Wilhite



Congratulations to the winners of the July 10th 2009 PAARA Raffle!

- 1st Prize: Bill Parsons / AF6AE / Yaesu FT-2800M / 2m / 65W / Mobile Rig
- 2nd Prize: Don Chambers / AE6WH / Icom IC-V8 / 2m / 5.5W / HT
- 3rd Prize: John Cameron / KG6MSM / Two 915MHz Wireless Evaluation Boards
- 4th Prize: not available / Iron Horse Stake Bed Antenna Mount
- 5th Prize: Orlando Huembes / KG6VXW / ARRL 2009-2010 Repeater Directory
- 6th Prize: Bob Shelton / K6TGR / Yaesu Log Book
- 7th Prize: Rebar / N6CCH / Sterling Deluxe Wire Stripper
- 8th Prize: Mark Meltzer / AF6IM / Icom Band Plan and Grid Square Map

THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles!

PAARA had a remarkable year in 2008! If you aren't a member, please join PAARA now, and experience fun 2009 events with the "friendliest club around."

K6AK Jim

PAARA Exemplary Service Award

- Gerry Tucker, N6NV 2005
- Rice Family 2006
- Jim K6AK, Lisa KG6KQS, Kyle KG6MSK
- Wally Porter, K6URO 2007
- Vic Black, AB6SO 2008
- ??? - 2009



PAARA “The Friendliest Club Around”

Palo Alto Amateur Radio Association Presents...

Friday, August 7th at 7 p.m.

Menlo Park Rec. Center, 700 Alma St., Menlo Park, CA.

August Raffle Prizes

FIRST PRIZE: Yaesu FT-1802M 2m / 50W / Mobile



- Extended Receiver Coverage
- Illuminated Microphone with Keyboard Frequency Entry
- 221 Memory Channels with Alpha-numeric Labeling
- Dedicated 10-Channel NOAA Weather Broadcast Channels
- Adjustable Mic Gain and Wide/Narrow Deviation and RX Bandwidth

**SECOND PRIZE: Yaesu VX-150 5 Watt 144 MHZ HT
w/Charger and Ni-MH Battery**

- 1400mAh Ni-MH Battery Pack
- VX-150 or Battery Pack Drops Into Charger
- Exceptional Receiver Performance
- Clear Transmit Audio
- Illuminated Keypad
- Die-Cast Aluminum Housing



**THIRD PRIZE: TWO Midland Two-Way Radios
w/Batteries & Charger**

FOURTH PRIZE: USB LED Light on 17-inch Ultra Flexible Arm

FIFTH PRIZE: Nine LED Flashlight/Super Bright LEDs/Incl. Batteries

SIXTH PRIZE: Three LED Push-Light/Push On/Off/Press to Adhere

SEVENTH PRIZE: Sterling Deluxe Wire Stripper

EIGHTH PRIZE: Yaesu Log Book

Since February 2003, 146 Radios, including TWO Elecraft K3's, a Yaesu FT-847, an Icom 706 MK II, a Yaesu FT-897D, and TWO Elecraft KX1's have gone to Fellow Hams.

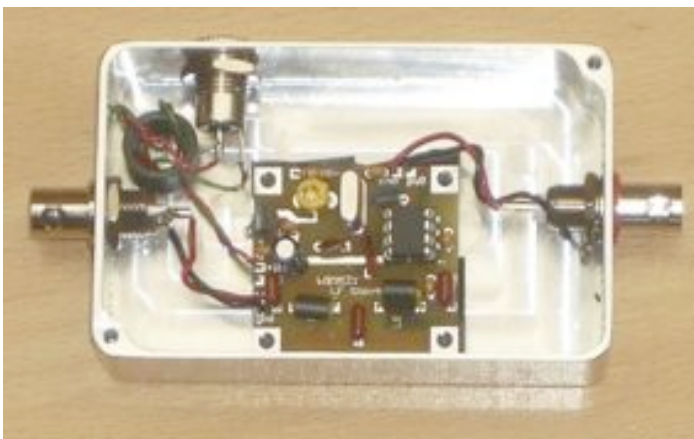
A special thanks to Bob, Howard, Dan, Mark, and everyone at HRO for their continued support!

number of LF and MF frequencies. The 1750 meter band extends from 160 KHz to 190 KHz, and there are a number of hams with “beacon” stations set up using QRSS (very slow speed CW) or other slow modulation types in the 180 KHz to 190 KHz range.

Transmitting on these bands requires a 40 foot antenna with a 10 foot ring on top, and a bucket-sized loading coil, plus a small transmitter with almost no feed line, as the FCC counts the feed line and ground as part of the 50ft antenna length limit. While it may be a bit of work to build such a station, and go through the effort to insure that it is of good engineering design in order to remain legal, SWL and DX listening operations in the 1750M LF band and other nearby frequencies is inexpensive and can be done with minimal new equipment.

First, check your radio to see if it tunes below 500 KHz, or below 455 KHz (two common low-end stopping points). If not, you can build a small kit from Jackson Harbor Press for \$15, the LF Converter. (See end of article for links.)

Put the converter in a small metal box or mint tin with a couple of BNC connectors and a 9V battery or an external 12V power cable, and hook it to your existing HF antenna. I recommend using the LF converter with your HF radio on 30 meters, so that you simply subtract 10 MHz from the dial signal to get the LF signal frequency. If you’re not an experienced kit-builder, find another ham who can help you work through the questions on the choices, as the instructions are not as clear as a Heathkit or Elecraft guide.



Tune down to the low end of MF at 300 KHz and start going up, looking for aircraft navigational aids called Non-Directional Beacons, or NDBs. An NDB may be considered by some obsolescent in these days of GPS navigation, but they’re still used by pilots around the world. An NDB is a fixed-location transmitter in the 200 – 530 KHz range transmitting a constant carrier signal with a “modulated CW” tone transmitted at 1020 Hz (400 Hz in Canada). An AM receiver will hear only the CW modulation, and its signal strength will register as strongest when your (or your plane’s) loop antenna is aligned broadside to the beacon, and null when it’s aligned with the beacon.

The CW identifier is sometimes the airport designator, but is often shorter. For example, here in the Bay Area, in the 355 KHz to 379 KHz range I can hear CC, PBT, AK, FCH, LV, and SF easily. At night, the ground-wave range extends (just like with the AM broadcast band) and I can hear ZP Dash (whose long dash tells me it’s Canadian). The CW signals are slow enough that pilots are able to copy them without ham experience, and will be an excellent intro to CW for hams who are interested in the thrill of a little on-air CW practice without the pressure of a QSO. Plus, they’re very patient, sending the same thing over and over.

You can pick up the signals here with your long wire antenna, but you won’t be able to do any direction finding. So if you’re inclined, investigate building a small multi-turn loop or ferrite stick antenna and pre-amp for under \$100 and have a rotatable, low-noise antenna with sharp directivity.

Once you’ve mastered the art of finding NDBs, tune down from MF to the 285-325 KHz range to enter the top end of LF territory. You’ll find a number of strong, continuous signals that look like 250 Hz or 500 Hz wide PSK signals. These are the US Coast Guard’s DGPS signals, used to give additional accuracy to GPS systems for navigation. I’ve picked up Pigeon Point, Chico, and Lincoln in the 287KHz - 318 KHz range. Consult Wikipedia for more technical info on DGPS, or keep tuning down to the next signal.

At 100 KHz, you will hear a very wide, raspy buzz of LORAN. Before GPS, LORAN was king of the sea for navigation. Some hams may remember when we lost 160 Meters to LORAN, but regained it later as the need for LORAN shrank. It still hangs on, though in LF. By the way, if you’re not using the FLDigi digital modes program to see these signals in addition to hearing them, download it for your Windows, Vista, Mac, or Linux computer. And once you’ve got it installed, send Dave WIHKJ a note with a quick thanks for the free software. Dave wrote LORAN software commercially for many years before retiring to keep bees and develop fine ham radio software, all free.

The screenshot at the bottom shows the sold line AM carriers and MCW signal pairs from the following NDBs, read left to right:

CC	355 KHz	Concord, CA
PBT	338 KHz	Red Bluff-Proberta, CA
AK	341 KHz	Oakland, CA
FCH	355 KHz	Fresno-Chandler
LV	372 KHz	Livermore, CA
SF	379 KHz	San Francisco, CA

Keep spinning the dial down to 60 KHz (that’s 10.060 on your thirty-meter dial) and look for a signal that looks and sounds like CW, but isn’t. That’s WWVB, the LF cousin of WWV, from Colorado. WWVB sends time data in binary to wrist-watches and MFJ clocks day and night by dimming its output power once a second from 60 KW to a more ham-like 1.4 KW. If it comes back up 0.2 seconds later, that’s a binary “0”, and if it

comes back up in 0.5s, it's a binary "1." Put these together over the course of a minute, and you'll eventually get the correct time.

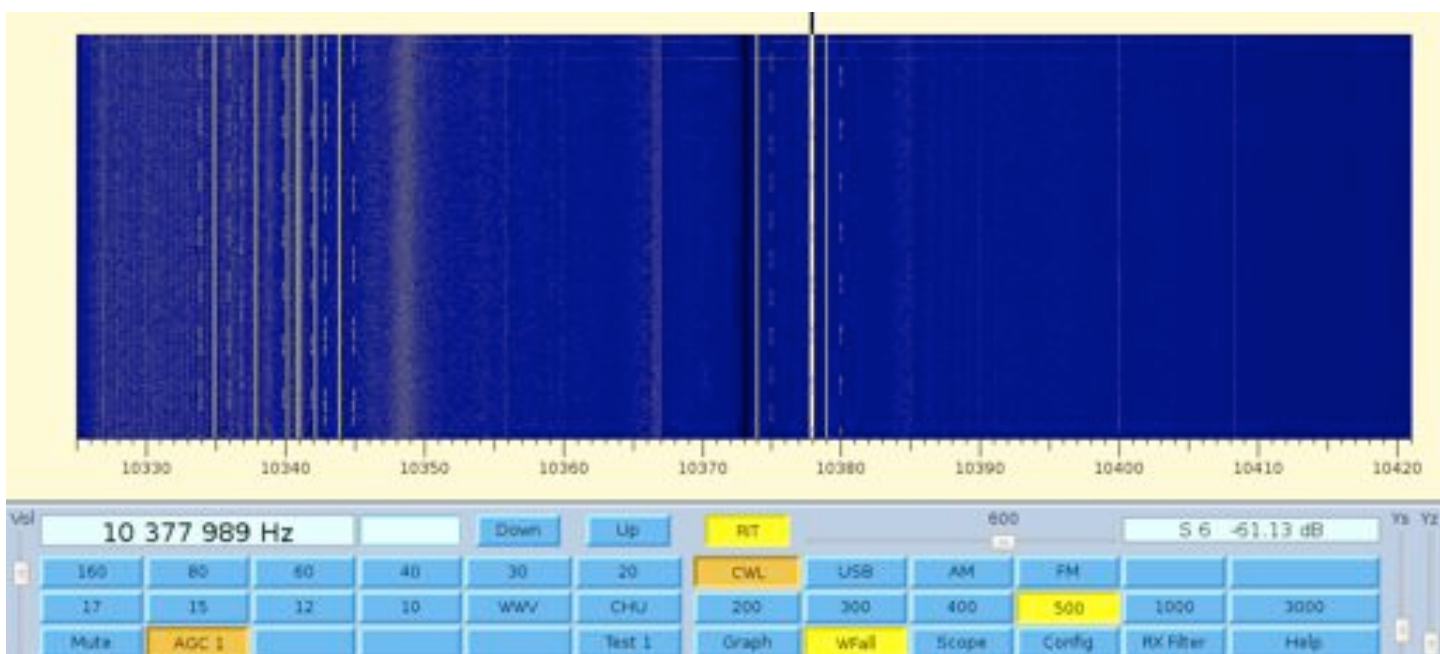
Just above and below 60 KHz, there are additional military stations and other stations down into the LF bands, going down to about 9 KHz. It may be more challenging receiving these stations amid the noise and QRN than the NDB, DGPS, and WWVB signals described above, so consult the Wikipedia VLF entry for a quick look, but spin the dial back up to the 1750 Meter band and start looking for fellow hams and Part 15 operators with their QRSS super-slow CW beacons. You'll need FLDigi or the Windows-only "Argo" software for finding these signals, but they'll prepare you for the challenge of DXing the low, low, low bands in search of atmospheric phenomena such as whistlers, or submarine communications such as the 24 KHz, two megawatt submarine station in Cutler, Maine.

Extra challenge: tune up the band to 500 KHz where you'll find some Part 5 experimental licensees operating CW and digital modes in an effort that the ARRL and IARU hope will lead to a

500Khz (and possible later a 1750 meter) ham allocation world-wide.

Happy DXing!
73 Leigh WA5ZNU

Other sites to visit:
<http://wa5znu.org/2009/06/lfconv/> links to Google Maps of the NDB sites
<http://www.dxinfocentre.com/ndb.htm> for an extensive list of NDB stations
<http://en.wikipedia.org/wiki/VLF>
http://en.wikipedia.org/wiki/Low_Frequency
http://www.cliftonlaboratories.com/jackson_harbor_press_vlf_converter.htm for a technical review of VLF filtering
<http://home.att.net/~jacksonharbor/lfconv.htm> to order the LF Converter
<http://w1hkj.com/FLDigi.html> to download FLDigi
<http://www.sdrham.com/argo/> for Argo
<http://lwca.org/> for the Long wave Society of America



Those Good(?) Old Navy Days

This is the way it was. Every time I start missing old "haze gray & underway," I go through this list. Funny stuff and right on the nose. - Author unknown.

1. Buy a steel dumpster, paint it gray inside and out, and live in it for six months.
2. Run all the pipes and wires in your house exposed on the walls.
3. Repaint your entire house every month.
4. Renovate your bathroom. Build a wall across the middle of the bathtub and move the shower head to chest level. When you take showers, make sure you turn off the water while you soap down.
5. Put lube oil in your humidifier and set it on high.
6. Once a week, blow compressed air up your chimney, making sure the wind carries the soot onto your neighbor's house. Ignore his complaints.
7. Once a month, take all major appliances apart and then reassemble them.
8. Raise the thresholds and lower the headers of your front and back doors so that you either trip or bang your head every time you pass through them.
9. Disassemble and inspect your lawnmower every week.
10. On Mondays, Wednesdays and Fridays, turn your water heater temperature up to 200 degrees. On Tuesdays and Thursdays, turn the water heater off. On Saturdays and Sundays tell your family they use too much water during the week, so no bathing will be allowed.
11. Raise your bed to within 10 inches of the ceiling, so you can't turn over without getting out and then getting back in.
12. Sleep on the shelf in your closet. Replace the closet door with a curtain. Have your spouse whip open the curtain about 3 hours after you go to sleep, shine a flashlight in your eyes and say "Sorry, wrong rack."
13. Make your family qualify to operate each appliance in your house - dishwasher operator, blender technician, et cetera.
14. Have your neighbor come over each day at 5 AM, blow a whistle so loud Helen Keller could hear it, and shout "Reveille, reveille, all hands heave out and trice up."
15. Have your mother-in-law write down everything she's going to do the following day, then have her make you stand in your back yard at 6 AM while she reads it to you.
16. Submit a request chit to your father-in-law requesting permission to leave your house before 3 PM.
17. Empty all the garbage bins in your house and sweep the driveway three times a day, whether it needs it or not "Now sweepers, sweepers, man your brooms, give the ship a clean sweep down fore and aft, empty all trash cans over the fantail."
18. Have your neighbor collect all your mail for a month, read your magazines and randomly lose every 5th item before delivering it to you.
19. Watch no TV except for movies played in the middle of the night. Have your family vote on which movie to watch, and then show a different one.
20. When your children are in bed, run into their room with a megaphone shouting that your home is under attack and ordering them to their battle stations "Now general quarters, general quarters, all hands man your battle stations."
21. Make your family menu a week ahead of time without consulting the pantry or refrigerator.
22. Post a menu on the kitchen door informing your family that they are having steak for dinner. Then make them wait in line for an hour. When they finally get to the kitchen, tell them you are out of steak, but they can have dried ham or hot dogs. Repeat daily until they ignore the menu and just ask for hot dogs.
23. Bake a cake. Prop up one side of the pan so the cake bakes unevenly. Spread icing real thick to level it off.
24. Get up every night around midnight and have a peanut butter and jelly sandwich on stale bread. Amid the rats.
25. Set your alarm clock to go off at random during the night. At the alarm, jump up and dress as fast as you can, making sure to button your top shirt button and tuck your pants into your socks. Run out into the backyard and uncoil the garden hose.
26. Every week or so, throw your cat or dog in the pool and shout "Man overboard port side." Rate your family members on how fast they respond.
27. Put the headphones from your stereo on your head, but don't plug them in. Hang a paper cup around your neck on a string. Stand in front of the stove, and speak into the paper cup "Stove manned and ready." After an hour or so, speak into the cup again "Stove secured." Roll up the headphones and paper cup and stow them in a shoe box.
28. Place a podium at the end of your driveway. Have your family stand watches at the podium, rotating at 4 hour intervals. This is best done when the weather is worst. January

is a good time.

29. When a thunderstorm is in your area, get a wobbly rocking chair, sit in it and rock as hard as you can until you become nauseous. Make sure to have a supply of stale crackers in your shirt pocket.

30. For former engineers: Bring your lawn mower into the living room, and run it all day long.

31. Make coffee using eighteen scoops of budget priced coffee grounds per pot. Allow the pot to simmer 5 hours before drinking.

32. Have someone under the age of ten give you a haircut with sheep shears.

33. Sew the back pockets of your jeans on the front.

34. Every couple of weeks, dress up in your best clothes and go to the scummiest part of town. Find the most rundown trashiest bar. Drink beer until you are hammered. Walk all the way home.

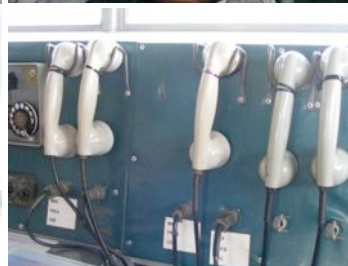
35. Lock yourself and your family in the house for six weeks. Tell them that at the end of the 6th week you are going to take them to Disney World for "liberty."


At the end of the 6th week, inform them the trip to Disney World has been canceled because they need to get ready for an inspection, and it will be another week before they can leave the house.

I sure do miss my time in the Navy



More Photos from the U.S.S. Hornet





James Farrey
 Sales Manager

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 Direct: 650•802•1511 jfarrey@jameco.com

www.jameco.com

YOUR AD HERE
 See the next
 page for details

Badges in hand as of 8/02/09

- KG6QKO, Kali, Palo Alto
- N6JCY, Joani, San Jose
- K4AZY, Mike, Palo Alto
- KI6GYG, Art, San Jose
- KG6QKN, Francis, Palo Alto
- K6TSR, George, Portola Valley
- N6MEF, Michael, Los Altos (2)
- KG6ZWO, Henri,
- KF6SRD, Chuck, Daly City
- K6FTF, Mark, SJ
- W6NEV, Marty

73 de Ed, KG6KKP, Badgemeister

PAARA Weekly Radio Net
 Info and Swap Session every Monday evening
 8:30pm on the N6NFI 145.230 MHz repeater.
 Control operators:


Week	Operator
1 st	Paul Petach KI6QXV
2 nd	Doug Teter KG6LWE
3 rd	Peter Sheerin K6WEB
4 th	Doña Kerns KI6DAR
5 th	Mike Bray N6MEB



Directions to PAARA meeting:
<http://paara.org/meetings/>

Join us for pre-meeting eyeball

**Eye Ball QSO
 gab & gobble**



Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own food order.

5:30 pm—at Su Hong Restaurant
 1039 El Camino Real
 Menlo Park

*across from Kepler's Book Store
 on El Camino Real
 Walking distance from Caltrain!*

Palo Alto Amateur Radio Association
 P.O. Box 911, Menlo Park, California 94026-0911

Club meetings are on the first Friday of each month, 7:00pm at the Menlo Park Rec Center, 700 Alma Street, Menlo Park, CA.

Radio NET & Swap Session every Monday evening, at 8:30pm, on the 145.230 –600 MHz repeater, PL tone off.

Membership in PAARA is \$20.00 per calendar year, which includes one subscription to PAARAgaphs \$6 for each additional family member (no newsletter).
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 at 8:30
 P.M. local
 time
 on the
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 repeater,
 PL tone
 not re-
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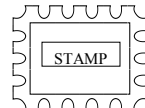
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