



PAARAgraphs

Celebrating 61 years as a *real* ham radio club -- Since 1937
Newsletter for the Palo Alto Amateur Radio Association, Inc.



CALENDAR

- May1, **PAARA Meeting, 7:30**
Menlo Park Recreation Center
700 Alma Street, Menlo Park 7:30-9:30 PM
- May6, **PAARA Board Meeting, 7:30**
Bakers Square Rest., 949 Veterans Blvd., Redwood City
(Temporary until Red Cross building repairs flood damage)
- June.....5, **PAARA Meeting, 7:30**
- June....10, **PAARA Board Meeting, 7:30**
- July.....10, **PAARA Meeting, 7:30**
- July.....15, **PAARA Board Meeting, 7:30**



PROGRAM

May 1, 1998
7:30 P.M.

Speaker:

Dennis Franklin (K6DF)

"Pampanito Amateur Radio Club"
On the USS Pampanito

PAARA Radio NET every Monday evening at 8:30 P.M., local time
on the 145.230 -600 MHz repeater, PL tone off

MESSAGE FROM THE VEEP

A Message From the Veep

The April 3 meeting was Homebrew Night. Several people brought projects that they built, and during the break, we cast ballots for our favorite projects. First place went to Jack (W6EBY), who brought and demonstrated a transponder. Second place went to Andreas (KF6NEB), who brought his Pixie QRPP rig. There was a three-way tie for third place: John (N6WBP) and his 70-cm antenna, Bill (AA6PA) and his 6-meter transverter and amplifier, and Bob (W6NBI) and his universal transistor tester. Congratulations to our winners and thanks to all who participated to make the evening a success. Also,



(Continued on page 39) VEEP



PAARA PONDERINGS

PAARA Daly City member George Londero KE6FFU/AG has upgraded to General Class. Listen for him on 20 meters. Congratulations, George! Also congratulations to Kit Kohlmoos W6ISO for his all-time best effort during the ARRL International DX Contest with 170 countries worked in one weekend! Kit used low power, a tri-bander beam and the hunt and pounce technique since he didn't have the power to dominate a frequency and "run" the contacts. Dave Rice W6NUC reports that he worked over 90 DXCC countries during the contest from his MOBILE station parked at a "secret" 800 foot elevation Redwood City QTH (I was once told that there's more RF at higher elevations, hi, hi). Great work, Dave!

You heard strange sounding special event and contest

(Continued on page 38) Ponderings

Miscellaneous Dates

Flea Market at Foothill (info at: <http://joslin.com/FleaMarket>)

Mar. 14 Silicon Valley Emergency Communications Society (SVECS)
Apr. 11 West Valley Amateur Radio Association (WVARA)
May 9 Palo Alto Red Cross
Jun. 13 Palo Alto Amateur Radio Association (PAARA)
Jul. 11 San Jose Red Cross
Aug. 8 Santa Clara County Amateur Radio Association (SCCARA)
Sep. 12 Southern Peninsula Emergency Communications Society (SPECS)
Oct. 10 Electronics Museum Amateur Radio Club (EMARC)

PAARA Palo Alto Amateur Radio Association

meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
contact: Dave Bailey, WS6W 408 730 5215

EMARC Electronics Museum Amateur Radio Club

meets 4th Friday 7:30 each month,
contact: Sheldon Edelman 650-858-2176, Edelman@richochet.net

NCDXC Northern California DX Club

meets 2nd Friday 7:30 each month, repeater for member info 147.360, Thur
8:00PM, contact: Bob Mammarella KB6FEC 408 729 1544.

NorCalQRP Northern California QRP Club

meets 1st Sunday each month,
contact: Jim Cates 3241 Eastwood Rd., Sacramento, CA 95821.

Perham Foundation,

contact: Jerry Tucker WA6LNV 650-961-3266

SPECS Southern Peninsula Emergency Communication System

meets each Monday 8:00PM on Net 145.27, 224.36, 440.80 MHz
contact: Mike Hastings KB6LCJ, 408-243-6745 or 408-249-6909.

SCARES South County Amateur Radio Emergency Service

meets 3rd Thursday 7:30 each month, San Carlos City Hall.
Net is on 144.45 & 444.50 (PL-100) 7:30 Monday evenings.
contact: Dick Collins K6ANN 650-593-8952

SCCARA Santa Clara County Amateur Radio Association

Operates W6UU repeater 146.385+ Nets: 2m, W6UU, 7:30 Mon; 10m,
28.385, 8:00 Thur. meets 2nd Mon each month.
contact: Jack Ruckman AC6FU

SVECS Silicon Valley Emergency Communications

Operates WB6ADZ repeater (146.115 MHz+)
contact: Lou Stierer WA6QYS 408 241 7999

WVARA West Valley Amateur Radio Association

operates W6PIY repeater 147.39+, 223.96, 441.875, 1286.2
meets 3rd Wed every month.
contact: Glen Lokke Jr. KE6NBO at 408 971 8626, or gllokke@pacbell.net

Disaster Services,

PALO ALTO CHAPTER, American Red Cross

Meets 3rd Wed. each month 7:30PM,
HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite,
contact: Alan Ball 650-688-0423.

SAN JOSE CHAPTER, American Red Cross

contact: Scott Hensley KB6UOO, 408 249 7093, fsh@richochet.net

VE Exams, 3rd Saturday each month, 11AM, 145.23- PL=100Hz

American Legion Hall, 651 El Camino Real, R.C.
contact: Joe KB6OWG.

Grow angry slowly—there's plenty of time

—Ralph Waldo Emerson

PAARA MONDAY NIGHT NET

8:30 PM 145.230-600 MHz repeater

PL tone off

Latest news between monthly issues of PAARAgaph

Palo Alto Amateur Radio Association, Inc.

PO Box 911

Menlo Park, CA 94026

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Vice President.....Dave Bailey, WS6W.....(408) 730 5215
Secretary.....Andreas Junge KF6NEB.....(650) 233 0843
Treasurer.....Doug Schliebus, W6HXL.....(650) 851 0727
Trustee/Property/Badges..Fred Canham, K6YT(650) 948 9238
ARES Officer.....Lily Anne Hillis, N6PGM(650) 325 5484
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Advertising.....Bob Korte, KD6KYT.....(650) 595 1842
Webmaster Andreas Junge KF6NEB(650) 233 0843

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Terry Conboy, N6RY	(510) 944 5388 99
Steve Stuntz, K6FS	(650) 322 4952 '99
Vic Black, AB6SO,	(650) 366 0636 Past Pres

(see "Calendar" for Board meeting times, visitors welcome)

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Submit material for PAARAgaphs by the 15th

PAARA Website <http://www.qsl.net/paara/index.html/>

(Continued from page 37) Ponderings

callsigns during the DX Contest. These stations often issue colorful certificates for contacts and can help you achieve a WPX (Worked All Prefixes) Award. Look for Canadian special calls this year. June 24 - July 24, CZ1SSB will commemorate the 100th anniversary of the Newfoundland to Nova Scotia Gulf Ferry Service. The 150th anniversary of Kincardine, Ontario will see use of XK3K July 26 - August 8. CF3FHG will celebrate the 125th anniversary of the Fergus Highland Games on August 8&9. Expect CF3SRF from the 25th anniversary of the Flesherton, Ontario Split Rail Festival September 25-27.

April CQ lists Vic Black AB6SO and Mike Leland KD6PIW as winners for all of California in the July 12-13, 1997 CQ World Wide VHF Contest as a Multi-Op, Class II, Portable entry. A low score from Mount Diablo on 6 & 2 meters SSB and 1-1/4 meters & 70 cm FM was good enough since very few people took the time to submit entries. There was a light turnout for the contest because the fine weather competed for everyone's time. The view compensated for the lack of action. Isolated Mount Diablo has the greatest horizon of any mountain in the world except Kenya's Mount Kilimanjaro. It's only 3,849 feet high, but the view is unobstructed by nearby hills. On a clear day, you can see parts of 44 of California's 58 counties from Diablo.

Andreas Junge KF6NEB/AG is now studying for Advanced Class. There has been a lot of talk about eliminating CW requirements for HF privileges in exchange for more technical testing. Andreas said, "The knowledge required for Advanced is about the same knowledge you need to pass the German technician test!" Are the "anti-coders" absolutely sure this is what we want here?

(Continued on page 40) Ponderings



WEB WANDERINGS

de Vic Black, AB6SO

From **Omri Serlin AA6TA** via **Andreas Junge, KF6NEB**: "You might be interested in the official Home Page of MIR Space Station <http://www.geocities.com/~ik1sld/mirex.htm>." The site provides MIR equipment and personnel updates as well as Keplerian elements for tracking and instructions for working the new Personal Message System.

The web page has a memo from MIREX CEO, **Dave Larsen N6CO**: "The new Personal Message System (PMS) on MIR supports a System Operator's mode. The special call sign K6MIR has been reserved for the System Operators. Only the System Operators are allowed to use the K6MIR call sign. NO stations should attempt to connect to this call".

The callsign K6MIR would have been originally issued to a California station about 1955 or 56. Who would have guessed at that time that a K6 vanity callsign would some day be used on a Russian space station? The world's first satellite hadn't gone up yet. This is truly an example of ham radio's mission to bring about international understanding and cooperation. Incidentally, MIR is "Peace" in Russian.

After you work a lot of DX in the coming months you may want to request QSL's. Where do you send the cards if you don't want to wait for the buro? Try <http://www.qsl.net/swlham/info.htm>. You'll find a box to fill in with the DX station's callsign. The page will then give you both direct and routing information for QSLing.

For a general interest page, try the Ultimate Radio Page of **Jim Bates W8ERV (ex-KB8TNQ)** at <http://www.qsl.net/kb8tnq>. He has links to both individual hams and clubs. One of the links is to the Buy, Sell and Trade page of **John Lee KC0BID** at <http://members.aol.com/LTJLee/ham.html>. Another great set of links is **Mark Downing WM7MD's** page at <http://www.wm7md.net/hamradio/index.html>.

Rex Aller KK6MK maintains a microwave communications web page at <http://www.dnai.com/~rexa>. You'll find a very nice chart showing mountaintop locations that have been used for California VHF/UHF/Microwave contacts and contests. The chart lists more than 35 location names along with longitude, latitude, Maidenhead grid and altitude for each.

Rex is President of the **50 MHz and UP Group of Northern California**, which meets in Palo Alto. Their web site is located at <http://www.nitehawk.com/rasmit/50UP.html>. Club newsletters are available on-line at this site along with club meeting and activity announcements.

Brian Yee W6BY is an active member of the group and has his page at http://reality.sgi.com/employees/byee_mti/W6BY.html. There are links to other microwave pages available here. Brian lists sources for supplies and parts as well as articles on construction, testing and operation.

Microwave news is available from <http://nitehawk.com/rasmit/nekiosk.html>, The Weak Signal News Kiosk at the web

site of **Reindert Smit PA0ZN**. There is a special emphasis on Earth-Moon-Earth (EME) news. Incidentally, EME has been worked with as little as 25 watts on 1.2 GHz when driving a proper antenna.

The 432 and Above EME Society Newsletter from **Dr. Allen Katz K2UYH** is at <http://www.nitehawk.com/rasmit/em70cm.html>. You'll find archived newsletters for the past four years as well as photos of more than fifty EME antenna arrays from around the world. **Allen's** own 28 foot moonbounce dish is shown.

The San Bernardino Microwave Society web page <http://www.ham-radio.com/sbms> contains information about contests, technical information, 3 years of newsletter archives and a listing Southern California microwave beacons.

Recently **Bill Rausch AA6PA** gave a show and tell presentation.
(Continued on page 41) Wanderings

(Continued from page 37) **VEEP** censures during the break.

The speaker for our May 1, meeting will be **Dennis Franklin (K6DF)**, who will speak on the Pampanito Amateur Radio Club on the USS Pampanito. For a preview, go to <http://www.qsl.net/nj6vt>. At our June 5 meeting, **Sam Vigil (WA6NGH)** will speak about his DX-pedition in the United Kingdom. I met Sam at the February NorCal QRP meeting. He is a professor at Cal Poly, San Luis Obispo, where I received my bachelor's degree.

The Board decided to have our picnic on May 23, 1998, at the QTH of **Ron (W6VG)** and **Helga Panton**. Mark that on your calendars and come for an afternoon of food and eyeball QSO's. Many thanks to **Ron and Helga** for hosting us.

We will be hosting the Foothill Flea Market on Saturday, June 13, and we need help with collecting money from the sellers, selling food and cleaning up. This is our big fundraiser for the year, so the more help we can get, the better. Please contact **Gerry (WA6LNV)** or me if you can make it.

Be sure to check into our net on Monday nights at 8:30 p.m. on 145.23 (**W6APZ**). Anyone who checks in at least 20 times during 1998 will receive an operating award. The net is a good way to find out what is happening between meetings.

For all you artists out there, we will be resurrecting the logo contest. Logos must be amateur-radio related and include the club name (Pale Alto Amateur Radio Association) and founding year (1937). Designs should be submitted to PAARA, P. O. Box 911, Menlo Park, CA 94026. The winning artist will receive a gift certificate to his/her choice of Ham Radio Outlet or Trader Joe's, and the winning logo will be featured in PAARAgaphs and on the club QSL cards made by **Andreas (KF6NEB)**.

On a personal note, I will be singing in a choir concert at Sunnyvale Presbyterian Church on Sunday evening, April 26, 7:30 p.m. The church is on the corner of Fremont and Hollenbeck in Sunnyvale. Also, I will be out of town for the May meeting, so I hope to see you all at the picnic on May 23 and at the general meeting on June 5. 73, **Dave (WS6W)**,

Vice-President and Program Chairperson

(Continued from page 38) Ponderings

Paul Harden NA5N, National Radio Astronomy Observatory technician in Socorro, NM, sent e-mail to explain the HF geomagnetic storm reports from National Institute of Science and Technology WWV broadcasts.

“The average solar wind is around 200 km/s (125 mi./sec), but can rise to over 500 km/s. The solar wind exerts pressure on our magnetic field. When the solar wind suddenly increases, this pressure squashes the magnetic field on the sun-facing side even further, wiggling it like Jello. This generates huge electric currents by the dynamo process of a moving magnetic field. These currents flow, along with some of the trapped particle radiation of the solar wind, and enter our poles where the magnetic field is the weakest. This flow ionizes the D-layer, which causes high absorption of HF signals. The currents themselves generate the static splashes and bursts you hear. A possible source of the activity is a high speed coronal streamer or sudden release of particle radiation that burrows through a hole in the sun’s magnetic field. Once it escapes the sun, it streams outward like a beam of light from a light house (with the motor stuck so it’s not rotating!). This finger of dense particles collides with the earth. These particles, riding along the enhanced solar wind exert extra pressure on the earth’s magnetic field, causing the geomagnetic storm.

The enhanced total field in the solar winds often argues for a contribution from a CME as well. A CME is a Coronal Mass Ejection, or a solar flare, where some of the solar mass (that is, gobs of particles) are flung out into space, again, serendipitously slapping into the earth. The ejected particles get caught in the outward solar wind flow along the sun’s open field lines. Some of the arrival times of these events and other observations can identify particle radiation from a CME, even though not directly observed. The effects of geomagnetic storms will worsen the higher in latitude you reside.”

Solar radiation reaches earth in about 8 minutes, but actual particles take about 24 hours to arrive after an observed solar flare. Because of the delay we can predict geomagnetic storms with greater accuracy than we can predict atmospheric weather. It takes about 27 days for the sun to rotate on its axis so what happens today has a good probability of repeating a month later if the flare is ongoing.

On March 29, PAARA board members **Charlie Grandjean WD6FAF** and **Vic Black AB6SO** talked themselves into rides on railroad motorcars, or “speeders”, on a portion of the original Trans Continental rail line through Niles Canyon, locale of early Charlie Chaplin and Keystone Cops movies. Motorcars, small 2 or 4 person cars formerly used to carry maintenance workers on the rails, replaced handcars and were themselves replaced by so-called “hy-railers”, modern pickup trucks with add-on hydraulically retractable flanged steel wheels. PAARA field day CW ace **Kim Robinson KM6OH** and **XYL Jenny KD6BTK** offered rides in their 4 seat Fairmont, driven by a 9 horsepower, single cylinder, 2-stroke engine and complete with non-standard issue Yaesu mobile 2 meter rig. **Mike Leland KD6PIW** and **Dad, Dave**, chased by 4 wheel drive truck to make photos and videos. Railroad mo-

bile operation was attempted, but the unmuffled engines mounted in steel cars running on steel wheels presented a very high noise level. For information and photos about this hobby which is frequented by radio hams, see the web page of **Grover Cleveland K7TP** at <http://www.jps.net/groverc/MOW.htm>.

Here are reminders concerning the ARES affiliated **W6APZ** repeater which graciously hosts the Monday night PAARA net. The repeater, sponsored by the South Peninsula Amateur Radio Club, is located near the radio astronomy dish antenna which is visible from I-280 in Palo Alto. Elevation is about 500 feet which provides surprising coverage.

Frequency is 145.230 MHz with a -600 kHz shift. The 100 Hz subaudible tone (PL) is turned off during the PAARA net to allow access by vintage rigs without PL capability. PAARA member **Rich Stiebel W6APZ** is the repeater trustee. For a copy of **W6APZ** autodial codes, send a copy of your Amateur Radio license, with a self addressed stamped envelope to: 523 Repeater, PO Box 391288, Mountain View, CA 94039-1288. Allow a few weeks for processing. Please do not share the codes or discuss them on the air.

Mike Leland KD6PIW reports that his aunt **Mary Garland WD6GGZ** became a Silent Key in March as a result of congestive heart failure. **Mary** lived in Los Altos with husband **David KA6FSM** and daughter **Charlotte KB6VOS**. **Mary** lost her sight to diabetes as a teenager, but never let that deter her enjoyment of ham radio. **Mary** was the younger sister of **Mike’s Dad, Dave Leland**. Our warm thoughts are extended to both the **Leland** and **Garland** families during this time of loss. ☺☺☺

—Vic AB6SO



PAARA WEB SITE

check it out
<http://www.qsl.net/paara/>
 webmaster: *Andreas Junge KF6NEB*

It is never too late to give up your prejudices. —Henry David Thoreau

VE April 18, 1998 was a beautiful day. Wx was good, and the volunteer examiners were plentiful. We had **Joe Horne Sr, Gordon Girton, Gene Irazarry, Bill Sooman, Dan Curry, Ron Panton**, and PAARA member from Sunnyvale, **Al Montoya**. We sincerely thank all of these volunteers, PAARA should be proud of these members. (and **Gene** from Fremont) Plentiful would-be hams also. One in particular aced the extra class, and complained that he had missed 2 questions on the CW. No pleasing some people. At any rate, it was a very satisfactory session, and we did feel sorry for those that did not pass.

—Ron, W6VG

(Continued from page 39) Wanderings

tion to PAARA about an inexpensive Television Receive Only (TVRO) 2.3 GHz downconverter, the Drake 2880 MMDS. These converters, about the size of a 3-1/2 inch diskette, are available for about \$35 in new, surplus condition. Originally, the downconverters allowed reception of 2.4 GHz signals at 120MHz. After conversion, they allow reception of 2.4 GHz at 420 MHz IF.

G3PHO has a page devoted to the downconverter mod for ham use at <http://www.Geocities.com/SiliconValley/Vista/7012/ghz.htm>. There is also a technical paper here from Larry Filby K1LPS on the specifications and mods of the downconverter. After conversion, you will be able to receive the new Phase 3-D satellite when it is launched. The converter was featured in the February, 1998 QST.

A more complete mod page for the downconverter with excellent photos is found at <http://www.din.or.jp/~m-arai/sband/convmode.htm>. The home page for Mashiro Arai JN1GKZ is located at <http://www.din.or.jp/~m-arai/menue.htm> (yes, menu has an "e" after it). Masa warns us "Caution: This downconverter is just for receiver. Don't push PTT when the converter is attached to rig. It makes you unhappy".

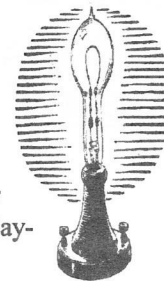
Joel Denison WA5CVM/1 from Strong, Maine counters with, "Ain't it nice when a project doesn't come out like you expected, but WORKS JUST RIGHT INSTEAD?! :-)". ☺☺☺

—Vic, AB6SO

THE WAY IT WAS

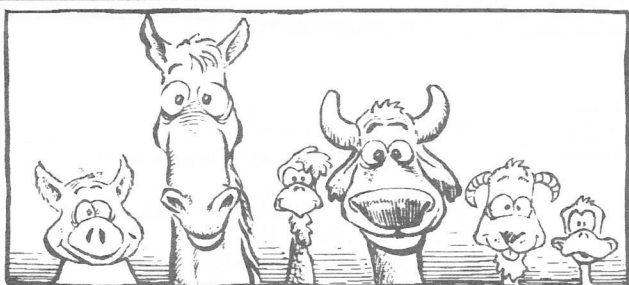
□ Charlie Grandjean, WD6FAF

About sixty-one years ago as a teenager, I was an avid short-wave listener (SWL) who discovered hams conversing on several bands. On seventy-five meter phone many locals and some out-of-the-Bay-area stations provided various topics that kept me listening while neglecting my high school homework and other obligations. Things heard included code practice sessions offered by Clyde Sunderland, W6CBF, who had a very pleasing voice delivered with broadcast studio quality from his Oakland ham station. Single sideband had not as yet become a mode that accomplished much for hamdom but did detract from the capability to transmit AM signals such as Clyde's. In those days in the thirties, excellent aerial photos seen in the Oakland Tribune carried the Sunderland credit line. Another exchange frequently heard late afternoon was that between Jack Harwood, whose call no longer comes to mind, a student at University of Santa Clara who maintained a schedule with his father (also a forgotten call) who lived in a citrus grove at Santa Paula, CA. Those contacts included talk of family events at home, Jack's college experiences, and word to his mother as to when she should expect to receive the case of soiled clothing he would be sending home for her TLC. If mention of the rigs and antennas used by them was ever made, nothing is recalled by me at this time. As a new listener I was impressed by the closeness to home that his ham radio at school provided to Jack Harwood and his family.



Editor note:

Charlie, WD6FAF, has offered to contribute a history article each month. The above being the first. Everyone could help by giving him a written story or a note about an event you remember. Any "Old" thing goes. K6URO



Join us for pre-meeting eyeball

QSO May 1st
gab & gobble

6 pm— at Su Hong Restaurant
1039 El Camino Real, Menlo Park
—across from Kepler's Book Store—

PAARA MONDAY NIGHT NET

8:30 PM 145.230-600 MHz repeater

PL tone off

Latest news between monthly issues of PAARAgaph

Bring a Show & Tell

to the next
PAARA meeting

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

Club meetings are on the first Friday of each month, 7:30pm at the Menlo Park Recreation Center, 700 Alma Street, Menlo Park, CA. • Radio NET every Monday evening, at 8:30pm, on the 145.230-600 MHz repeater, PL tone off. • Membership in PAARA is \$12.00 per calendar year which includes a subscription to PAARAgaphs, \$6 for additional family members (no newsletter). • Make payment to the Palo Alto Amateur Radio Association.

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PAARA
 Since 1937

PAARA 7:30 May 1st

PAARAgaphs Ad Rates


PAARAgaphs accepts paid advertisements from non-members.
 (short personal ads remain free for members in good standing).

All ad rates listed are per issue only.

1. Not for profit ads by association members for ham-related items and wants. No cost for business card size ads (additional space at \$2.50 per business card size).
2. For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover.

These fees may be reduced or waived in exchange for a valuable consideration that is given to the Association or its general membership. Such consideration must be in addition to any existing arrangements with the association.

The PAARAgaphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association. All fees are for "scanner-ready" copy or text-only ads.



PAARA PRIDE
 wear your
PAARA Badge
 to
 meetings, picnics, field days, winter parties, ham fests,
 flea markets, Pacificcons...
 (if you need one, contact Fred, K6YT)



PAARA SIG's (Special Interest Groups)

Listed are the SIG's signed up as the April meeting. One person is listed to give a contact. If you are interested in being part of a SIG and do not know the listed person, ask before the break at the next PAARA meeting. No reason you can't belong to many groups.

Amateur Radio Spectrum Protection Act

Introduced in House of Representatives:-

On March 27, Representatives Michael Bilirakis (R-FL-9th) and Ron Klink (D-PA-4th) introduced HR 3572, the Amateur Radio Spectrum Protection Act of 1998. The operational portion of the bill is Section 3 (see below), which, if passed, would require the FCC to provide "equivalent replacement spectrum" if the Commission reallocates any primary or secondary Amateur Radio frequencies.

You can look up the full text of the bill on the House THOMAS web site at: <http://thomas.loc.gov/cgi-bin/query/z?c105:H.R.3572>:

The bill has been referred to the House Commerce Committee. While it is too early to offer any prognosis, the House only has about fifty days left actually in-session before the proposed October adjournment. Our strategy must be very straightforward - a simple numbers game of gathering as many House cosponsors as we can.

Here is Section Three:

"SEC. 3. FEDERAL POLICY REGARDING REALLOCATION OF AMATEUR RADIO SPECTRUM.

Section 303 of the Communications Act of 1934 is amended by adding at the end the following new subsection:

(y) Notwithstanding subsection ©, after July 1, 1998--

- (1) make no reallocation of primary allocations of bands of frequencies of the amateur radio service;
- (2) not diminish the secondary allocations of bands of frequencies to the amateur radio service; and
- (3) make no additional allocations within such bands of frequencies that would substantially reduce the utility thereof to the amateur radio service; unless the Commission, at the same time, provides equivalent replacement spectrum to the amateur radio service."

Group	Your Name/Callsign
Packet/APRS	J. Price, KD6GM
Young Hams	Zack Nelson, KF6NCS
CW	Jon, KF6OLA
QRP	Ron, KQ6RS
Ham Internet	Dennis, KF6OHO
HF Mobile	Dan, WB6STW
Field Day	Fred, K6YT
Antenna Design	Dirk, KE6ZUY
PAARAgaphs	Wally, K6URO
Club Station	Andreas, KF6NEB
Flea Market	Dave, WS6W
Handicapped/Disabled Hams	Steve, K6FS
Wannabe's (hams)	Steve, K6FS
Homebrew	Matt, N2MJI
Other (specify)	

Here is a draft sample letter to send to your Congressman to enlist him/her as a cosponsor:

The Hon. (congressman name)
 Longworth House Office Building
 Washington, DC 20515

Dear Representative (congressman name):

As one of the nation's more than 650,000 licensed radio amateurs, I urge you to sign on as a cosponsor to HR 3572, the Amateur Radio Spectrum Protection Act of 1998.

This bill, introduced by Representatives Bilirakis and Klink on March 27, is a non-partisan, non-controversial measure designed to afford a measure of protection to Amateur Radio frequencies used by radio amateurs in (state name) and elsewhere to provide emergency communication, technical experimentation and recreation.

The bill would require the Federal Communications Commission to provide "equivalent replacement spectrum" in the event it becomes necessary to reallocate radio frequencies currently allocated to the Amateur Service.

This is a matter of fairness, and is in the national interest.

The bill would help ensure Amateur Radio's continued public service role to the people of the State of (state name).

Sincerely,

(your signature)

