

LORAL

S.P.A.R.K.

South Peninsula Amateur Radio Klub Newsletter

Vol. MCMXCIX No XI Rptr: W6APZ/R 145.230(-.600)MHz - Club Str: WA6NKK Tuesday, November 2, 1999

The November 1999 Meeting...

Where: SPACE SYSTEMS/LORAL
Bld 3 Auditorium

When: Thursday, 4 November 1999
High Noon

Subject: To be announced

REPEATER
REPEATER
REPEATER
REPEATER

No report this month
73 de, Rich, W6APZ, e-mail: w6apz@arrl.net

The Prez Sez...

No Report

73 de Jack

A Note From the Treasurer

10 meters is opening up. I've been going to the shack at lunch and lately the 10 meter band has been active. Though I haven't worked all that many stations, I've received 5-9 signals from Northern Ireland, Cuba, and Columbia to name a few. I've even heard some JA's. The eastern states and Canada are also coming in well. Come in to the shack and try your hand at it.

Also, the certificates on the wall in the shack, DX Century Club and Worked All States, were earned back in the late seventies. Maybe it's time to renew those accomplishments. Let me know what you think.

I've included an attachment to the newsletter, a sheet to help determine the day number of the year, sometimes called Julian day. It's helpful when trying to determine how up-to-date your satellite orbital elements are, for one. If you'd like an Excel file of the sheet, let me know and I'll e-mail it to you.

Now, on to the standard fare...

Dues are due. In fact, dues are always due, unless you've paid them. Even so, they'll be due again soon. However, they are still value priced at US\$10.00. Though I would be most happy to see you at the meetings, you may also send them in to me at:

Rolf Klibo
3825 Fabian Way, MS G-16
Palo Alto, CA 94303

The 1999 Northern California (repeater) Directory, compiled by NARCC, the Northern Amateur Relay Council of California is

available. It also includes Band Plans and a Coordination Policy Manual. These Directories are available for free to all paid up members of SPARK. I can send them through the company mail or you can pick them up at the meetings. Just let me know.

Do you know about, or are operating on:

APRS?

PSK31?

Let me know.

Thanks and 73 de Rolf, N6NFI

Home Computer Networks

I use 10-base-T and category 5 cables to network my home desktop computer to my laptop, so I found this interesting, and logged onto the WA7NBF site and listened to the interference recordings. I'll have to run some tests to see if I'm transmitting any interference, while on packet, when the network is running. If you (or your neighbor) are thinking of networking at home using existing power or phone lines, this may be of interest to you. [KE6FTO]

[From Ham Radio Online -

Home Computer Networking RFI

The use of personal computers in the home has created a demand for easy to install home computer networks. Vendors are shipping simple to install solutions that use existing wiring - telephone extensions and AC power line wiring - or wireless networking solutions. Systems that use existing wiring ("no new wires"), however, have been shown to cause significant interference to shortwave listeners and ham radio

operators. These systems are also highly susceptible to interference from nearby transmitters. These problems occur because they use HF radio frequencies to send computer data over unshielded in-home wiring.

An existing telephone wiring based computer network operates between 5.5 Mhz and 9.5 MHz and generates radio frequency interference across that spectrum. It is also extremely sensitive to Amateur transmissions in the 7 MHz band. A newer form of telephone networking is under development and will use a different set of HF frequencies. Major companies including AT&T, Intel, Microsoft, Lucent, Broadcom, 3Com and Compaq Computer are backing this technology. As of July 27, 1999, a version 2 specification has been reached. Version 2 (not yet published for the public) will, according to press releases, achieve 10 Mbps in late 1999 and 30 Mbps in late 2000. According to industry white papers, these higher speeds are made possible by modulating signals across the HF radio spectrum from 2 to 30 Mhz.

Power line networks operate in a similar fashion, modulating computer data signals between 2 to 30 MHz. Since the quality of a home's internal AC or telephone wiring is an unknown in any installation, these technologies may spew large amounts of noise into the radio spectrum. Recently, a well known telephone line extender (using AC power lines in a house for the link) generated very strong signals in the 3.5 MHz band; in some situations, signals were traced to units over 6 miles away!

This page is to provide links to resources and information regarding these technologies:

The original Ham Radio Online report that brought this issue to public attention:

Special Reports: The Death of HF Radio Operation?

Home Phone Networking Version 2 Spec Reached

Via link to C-Net News, 27 July 1999

Home phone networking vendors (See "RFI From Home Computer Networks" for more information) have reached agreement for a version 2 specification. Version 2 will raise home phone line computer network speeds to 10 Mbps and 30 Mbps expected by the end of the year 2000. According to this white paper, these networks will operate in the 2 to 30 Mhz HF spectrum.

Home Networking via Telephone Lines Becoming a Top Seller

Via link to C-net News, 16 July 1999

As of May 1999, sales of telephone wire based home computer networking kits have reached 22.1% marketshare, with just two vendors (Intel, Diamond) presently in the market and performance limited to 1 Mbps. These networks modulate data signals between 5.5 to 9.5 Mhz, producing tremendous amounts of RF interference to the HF radio spectrum. See "RFI From Home Computer Networks" for more information.

Still No Word on Amateur License Restructuring

There has been no new news since last month's report in the Pacific Division Update - An FCC staff member said the Commission staff is "diligently working" toward getting a Report and Order on Amateur Radio license restructuring out the door. But beyond that, the FCC staffer - who did not want to be identified by name - said it was impossible to predict when that would happen. Rumors aside, the FCC official said that Commission rules prevent "revealing any information about internal thinking or scheduling" on the restructuring question.

The proceeding - known formally as the 1998 Biennial Regulatory Review of Part 97 (WT Docket 98-143) - must jump through a number of hoops within the FCC bureaucracy.

For further details and the latest news on this topic visit the ARRL Web Extra for Members Only website at arrl.org.

Thanks, ARRL Letter; November QST, pages 77-80.

ULS Continues to Improve Service to the Amateur Radio Service

The FCC's new Universal Licensing System (ULS) continues to edge closer to resuming full-scale Amateur Radio Service call sign processing.

Based on several recent reports, new licenses are being issued, some vanity callsigns have been issued, and the overall backlog is being worked down. Unfortunately, there still appear to be problems of various kinds to resolve.

Because of comments and criticisms about the difficulty of having to configure a dial-up connection with a particular browser (Netscape version 4.5 or higher and version 4.61 preferred) to file an application, the ULS Task Force says it's planning to convert to electronic filing via the Internet. But a spokesperson said that it is not likely to happen for another six to nine months. In the meantime, some users have opted to file a paper Form 605 instead.

The latest official information from FCC/WTB about ULS can be found at <http://www.fcc.gov/wtb/uls/>.

In related good news, several callsign servers are now able to provide current callsign service once again after converting to a new FCC data format. A new callsign service has been added to the ARRL website at <http://www.arrl.org/fcc/fcclook.php3>. The bad news is that the University of Arkansas - Little Rock callsign server has announced it is closing down.

To keep up with the latest news on this topic visit the ARRL Web Extra for Members Only website at arrl.org.

Thanks, ARRL Bulletin; ARRL Letter; and November QST, pages 77-80.

Year 2000 Brings New Pacific Division Leadership

As announced publicly several weeks ago, I am retiring as ARRL Pacific Division Director at the end of this term on Dec. 31, 1999. Jim Maxwell, W6CF, the current ARRL Pacific Division Vice Director, was nominated for Director for the new term starting Jan. 1, 2000. As he was the only candidate nominated, he has now become the ARRL Pacific Division Director - Elect and will become the Director starting Jan. 1, 2000.

There are three nominees for the Vice Director position (in alphabetic order by last name): Jettie Hill, W6RFF, John Ronan, K3ZJJ, and Bob Vallio, W6RGG.

Full Members of the ARRL Pacific Division should be receiving ballots currently from HQ. To be valid, ballots must be received at HQ by noon Eastern Time Friday, Nov. 19, 1999. If you do not receive your ballot by Nov. 1, call HQ for a duplicate ballot.

Thanks, ARRL Letter.

Phase 3D Accepted for "First Suitable" Ariane 5 Launch

AMSAT-NA says the Phase 3D Amateur Radio satellite has been accepted as a payload for the "first suitable" Arianespace Ariane 5 vehicle launch. The announcement came recently from

ARRL Pacific Division Update

November 1999

by Brad Wyatt, K6WR, Director, Pacific Division, ARRL

18400 Overlook Rd. #5, Los Gates CA 95030-5850

(408) 395-2501 (Phone and FAX)

Packet: K6WR@N0ARY.#NOCAL.CA

E-mail: K6WR@arrl.org

Pacific Division Home Page: <http://www.pdarrl.org/>

Newly Licensed 10 Year Old Pacific Division Ham Key to Rescue

On August 28, Ricky Rothbart, KF6VSH, of San Rafael, a 10-year-old Pacific Division ham used Amateur Radio to help save the life of an injured fellow amateur. Rothbart, who earned his Technician class license in April this year, has received a Public Service Commendation from the ARRL. He also gained a new appreciation of Amateur Radio's emergency service potential.

Late on the afternoon, Ricky was in the family car heading home from a trip to LA. "Ricky was in the back seat monitoring his favorite repeater frequencies on his HT," his dad, George Rothbart, KF6VSG, relates. "Shortly after 6 PM, he suddenly said, 'Hey, Dad, there's a guy on the radio who is bleeding all over the place and needs help!'"

Apparently, the other ham had sliced his arm on plate glass and was bleeding profusely and asking on the air for medical help. The injured ham, Mike Lewis, KF6YDN, of Antioch, California, was mobile in a remote area of Pittsburg, California, at the time and his cell phone was not working.

Ricky quickly replied to the call, identifying himself and requesting the man's location and additional details.

Lewis asked that Ricky contact his father in law, and he gave the Rothbarts a number to call. George Rothbart got on his cell phone and left a message on the father-in-law's answering machine. Then, he dialed 911 and--with Ricky working the emergency on his ham radio--the Rothbarts were able to give the 911 dispatcher the necessary information to locate Lewis and provide medical assistance.

Both George and Ricky are ARRL members.

Thanks, ARRL Letter.

For more details on this great story visit the ARRL Web Extra for Members Only website at arrl.org.

Phase 3D Project Leader and AMSAT- Germany President Karl Meinzer, DJ4ZC, who said a launch opportunity could come during the first half of next year.

"As the primary agency responsible for securing a launch opportunity for Phase 3D, I am pleased to announce that AMSAT-Germany and Arianespace have now come to an agreement calling for the launch of P3D as a secondary payload aboard the 'first suitable' Ariane 5 flight," Meinzer said in a statement from Marburg, Germany. "From the very beginning of the Phase 3D project, we considered the Ariane 5 series our primary launch vehicle. Our long history of success and mutual cooperation with both the European Space Agency and Arianespace, coupled with our need to lift P3D into a high geostationary transfer orbit, made the Ariane 5 the unanimous choice by AMSAT."

Specific details of the launch agreement were not released. ARRL Executive Vice President David Sumner, K1ZZ, welcomed the AMSAT announcement. "Congratulations to AMSAT's Phase 3D team on moving another important step closer to launch," Sumner said. "For those who have been putting off getting their stations ready for Phase 3D, the time for procrastination is just about over." The League has been a major contributor to the Phase 3D project.

Based on its new 'standby' launch status, Phase 3D is slated to be delivered to the Guiana Space Center in Kourou, French Guiana, later this month to be ready once a specific Ariane 5 launch is identified.

The Phase 3D project has been an international effort that has worked with donated resources. In addition to AMSAT-DL and AMSAT-NA teams, AMSAT groups from Austria, Great Britain, Japan, Canada, Finland, Russia, Belgium, the Czech Republic, Slovenia, France, New Zealand and Hungary also have participated.

For more information, visit ARRL Web Extra for Members Only at arrl.org.

Thanks, ARRL Bulletin and ARRL Letter.

ARRL Task Force Seeks Future Technology Proposals

The ARRL Technology Task Force wants to hear from hams with ideas and proposals for new technology to carry Amateur Radio into the next century. The ARRL Board of Directors created the Task Force and the companion Technology Working Group last January, and ARRL President Rod Stafford, W6ROD, has appointed a number of leading amateurs to serve on both panels. The Task Force and the Working Group will work hand-in-hand to identify, evaluate, and promote the most promising 21st Century technologies for Amateur Radio.

The Task Force consists of members of the ARRL Board family and the Headquarters staff. Chairing the Task Force is ARRL First Vice President Steve Mendelsohn, W2ML. Other TTF members are Roanoke Vice Director Dennis Bodson, W4PWF; Hudson Director Frank Fallon, N2FF; New England Director Tom Frenaye, K1KI; Southwestern Vice Director Art Goddard, W6XD; Pacific Director-elect (and current Vice Director) Jim Maxwell, W6CF; International Affairs Vice President Larry Price, W4RA; and Rocky Mountain Director Walt Stinson, W0CP.

The Technology Working Group will evaluate technical proposals and make recommendations to the Technology Task Force, which, in turn, will make specific policy proposals to the ARRL Board of Directors.

The Working group is an expert panel selected from among League members representing a broad spectrum of Amateur Radio interests and activities. Chairing the Working Group is CQ Editor Rich Moseson, W2VU. Other members are AMSAT-NA President Keith Baker, KB1SF; Peter Coffee, AC6EN, a computer industry analyst; Mike Cook, AF9Y, Engineering Director of Communications Systems Engineering, ITT Aerospace/Communications Division; Gene McGahey, NR0NR, Deputy Manager of Communications Technology, NLECTC (NIJ/DOJ); ARRL Technical Relations Manager Paul Rinaldo,

W4RI; Dennis Silage, K3DS, a Temple University professor involved in digital communications; and QEX Editor Doug Smith, KF6DX.

ARRL Laboratory Supervisor Ed Hare, W1RFI, will serve as ARRL HQ staff liaison to both committees.

The Task Force invites information and concepts on a wide range of technologies with the potential to improve Amateur Radio and to promote what the FCC calls "continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art." The Task Force invites the submission of ideas and proposals from all parts of the amateur community, and will use the input to help formulate League policy recommendations on a wide range of technical issues.

Amateurs are invited to complete the form on the ARRL Website at <http://www.arrl.org/news/ttf/>, send e-mail to the Task Force at ttfinput@arrl.org, or offer your ideas by mail to the ARRL Technology Task Force, c/o Ed Hare, W1RFI, 225 Main St, Newington, CT 06111. Suggestions are requested by November 30, 1999.

Thanks, ARRL Bulletin.

Brief Report on One Forum of the ARRL-TAPR Digital Communications Conference

Among the sessions at the 18th ARRL-TAPR Digital Communications Conference recently in Phoenix, AZ, Dewayne Hendricks, WA8DZP, a Pacific Division Assistant Director, offered a vision of Amateur Radio where bands become irrelevant and analog is an anachronism.

Hendricks told the session that the wave of the future could be ultra wide band -- or UWB. UWB is related to new methods of spectrum sharing among large numbers of users. During his Saturday forum session, Hendricks described UWB as akin to a group of people sharing a large house rather than each owning smaller, separate houses. In his DCC presentation, he suggested that the notion of individual Amateur Radio bands could become irrelevant in a UWB era, where software-driven equipment and spectrum sharing protocols would determine what frequency or frequencies best suit the desired communication at that particular moment.

Some 150 digital enthusiasts attended the weekend sessions September 24-26.

The FCC seems to be very interested in the technology as it initiated a Notice of Inquiry last year seeking comment on UWB issues. FCC Commissioner Ness announced at the UWB Conference that she hoped the FCC would be releasing an NPRM on this matter next year (see <http://www.fcc.gov/Speeches/Ness/spsn.html> for the text of Commissioner Ness, remarks).

For more information on UWB, visit the Ultra Wideband Working Group page, <http://www.uwb.org>.

For further details on the DCC, visit the ARRL Web Extra for Members Only website at arrl.org.

Also, to learn more about this year's DCC, see Stan Horzepa's (WA1LOU) "Digital Dimensions" column in the December issue of QST. Audio from all the conference presentations may be heard at <http://www.tapr.org>. The Conference Proceedings are available from the ARRL for \$15. Order Item No. 7679 online or call toll-free 888- 277-5289.

Rick Palm, K1CE, to Leave ARRL HQ Staff

It was recently announced that ARRL Field Services Manager Rick Palm, K1CE, will leave the Headquarters staff effective November 10.

Palm and his wife Joanne, W1GUN, are moving to Florida to be closer to her family. "I'm leaving League Headquarters with nothing but good feelings and memories," said Palm, who met his wife at the League in 1980 when she worked as a secretary in the former Communications Department.

Palm, 45, characterized his move south as "semi-retirement" and said he looks forward to continuing to serve the League as a volunteer.

A 20-year veteran staffer, Palm came aboard as a Membership Services Assistant in 1979, moving up the ranks of Assistant Manager and Deputy Manager before becoming Acting Manager of the old Membership Services Department. When the department was dissolved in 1985 as part of a sweeping HQ reorganization, Palm was tapped to head the new Field Services Department.

Palm managed Field Services for 14 years before the department was merged with the Educational Activities Department early this year to become Field and Educational Services.

"It has been a privilege and a pleasure to serve the Field Organization of volunteers who perform the vast majority of the League's work," Palm said. "That work is performed on a daily and largely unsung basis with dedication and excellence."

Palm said his mission over the years has been to try to avoid the pitfall of the "ivory tower syndrome" and to sympathize with the volunteer in the field in meeting his or her needs. "My goal has been to bring a good measure of respect for our volunteers by the rest of the ARRL, the amateur community at large and the public they serve," he added.

Before departing on November 10, Palm and Educational Services Manager Rosalie White, WA1STO, will make sure that everything is in place to ensure continuity of support for the Field Organization. White is a 17-year veteran of the Headquarters staff with a proven track record of working with ARRL volunteers and federal agencies, especially NASA on the SAREX and current International Space Station programs. In the late 1970s, White served as Club and Training Department Manager. "As our interim and long term plans develop to meet this challenge, we will keep the field informed," Palm and White said in a joint statement.

For more information on this story visit the ARRL Web Extra for Members Only website at arrrl.org.

Thanks, ARRL Bulletin and ARRL Letter.

California Hospital Y2K Test Went Well

There have been several reports that the California Hospital Y2K Test on Sept. 16 went very well. I was mobile in Crescent City, CA, at the time and was able to check in and listen to the test on two meters. Many thanks to all of you who participated.

FCC Amateur Radio Enforcement Log

The following is a representative listing of recent reports on Amateur Radio enforcement-related actions in the Pacific Division from the files of the FCC Compliance and Information Bureau:

NOTE: Enforcement actions taken by FCC outside the Pacific Division can be found at the ARRL website (http://www.arrrl.org/news/enforcement_logs/) and for the very latest news, visit the ARRL Web Extra for Members Only website (<http://www.arrrl.org/members-only/extra/>)

NOTE: Issuance by the FCC of a Warning Notice indicates that the FCC has what it believes to be reliable evidence of possible rules infractions and not necessarily that the recipient has violated FCC rules. The FCC has the authority, pursuant to Paragraph 97.519(d)(2) of the rules to re-administer any examination element previously administered by a volunteer examiner. This Enforcement Log is representative of recent Warning Notices, Notices of Violation, calls for retesting, and other FCC communications to licensees involving possible serious rules violations. It is not a comprehensive listing.

OAKLAND, CA - The FCC notified Chris D. Risher, formerly KD6INK, on October 5, that his Technician class Amateur Radio license was cancelled. The FCC had notified Risher on August 30 to retake his amateur examinations by September 30, 1999, under the supervision of FCC personnel at the San Francisco FCC office in Hayward, California. According to Riley Hollingsworth, FCC Legal

Adviser for Enforcement, Risher failed to appear for reexamination, and therefore his license has been cancelled. Risher was also warned against continued operation of radio transmitting equipment.

SAN FRANCISCO, CA - The FCC notified General Class licensee Danny A. Kenwood, WA6CNQ, on October 6, 1999, that his license had been modified to prohibit operation above 30 MHz for 90 days. According to Riley Hollingsworth, FCC Legal Adviser for Enforcement, the Commission had received "numerous complaints regarding profanity, obscenity, deliberate interference with the K7IJ repeater and failure to properly identify" during the week of August 29 and on September 6, 1999. The FCC said it would not initiate license revocation proceedings against Kenwood unless it has evidence of continued violations. The FCC gave Kenwood 30 days to protest the modification. Otherwise, the modification will expire January 5, 2000.

Thanks, WorldRadio.

FCC Enforcement Reorganization Approved

FCC Chairman William Kennard announced a reorganization of the enforcement function of the FCC in a speech at Georgetown University Law School on Oct. 5. He announced that Congressional oversight committees for the FCC have approved funding to create two new FCC bureaus--Enforcement and Public Information. Kennard said, "those bureaus will go into operation in the very near future." (The text of Kennard's speech is to be found at URL <http://www.fcc.gov/Speeches/Kennard/spwek934.html>).

Kennard had proposed the creation of the new bureaus earlier this year as a part of his "A New FCC for the 21st Century" initiative.

Amateur Radio enforcement--now under Riley Hollingsworth, K4ZDH, FCC/CIB Legal Adviser for Enforcement in the current Compliance and Information Bureau--will be consolidated under the new Enforcement Bureau. Heading the Enforcement Bureau will be FCC Deputy General Counsel David Solomon. Hollingsworth will receive a new title when the new bureau is established - he will become Special Counsel for Amateur Radio Enforcement.

Current Compliance and Information Bureau Chief Richard Lee will become the head of the new Public Information Bureau.

Hollingsworth said that he anticipates no changes in either the direction or momentum of amateur enforcement under the new Enforcement Bureau regime. "If anything, it will enhance it."

For more details on this topic visit the ARRL Web Extra for Members Only website at arrrl.org.

Thanks, ARRL Letter.

Latest News on Spectrum Protection

It's round two in Congress for the Amateur Radio Spectrum Protection Act. At the request of the ARRL, Rep. Michael Bilirakis introduced the 1999 version of the proposed legislation, HR 783, on February 23. As of Oct. 5, the bill had received 121 co-sponsorships including Pacific Division Congresswoman Mink (HI - 2), Delegate Underwood (GU), Congressmen Farr (CA - 17), Miller (CA - 7), Campbell (CA - 15), Abercrombie (HI - 1), Stark (CA - 13), and Congresswoman Lee (CA - 9) [in order of co-sponsorship]. Nationally, we now have more co-sponsorships than we had for the 1998 bill - but we need to obtain some 218 co-sponsorships to have a majority of the House as co-sponsors. Keep up the good work!

The bill is aimed at ensuring the availability of spectrum to Amateur Radio operators. It would protect existing Amateur Radio spectrum against reallocations to or sharing with other services unless the FCC provides "equivalent replacement spectrum" elsewhere. Bilirakis, a Florida Republican, also sponsored last year's measure, which attracted upwards of 83 cosponsors on both sides of the aisle. Rep Frank Pallone Jr., a New Jersey Democrat, is the initial cosponsor of the 1999 bill.

ARRL Legislative and Public Affairs Manager Steve Mansfield, N1MZA, says the 1999 bill "is largely the same as last

year's HR 3572." The major difference is that the 1999 version adds "Amateur Satellite Service" frequencies to "Amateur Radio Service" in detailing the frequencies that would be afforded protection under the act.

Specifically, HR 783 would amend the Communications Act to require the FCC to provide "equivalent replacement spectrum" to Amateur Radio and the Amateur Satellite Service in the event of a reallocation of primary amateur allocations, any reduction in secondary amateur allocations, or "additional allocations within such bands that would substantially reduce the utility thereof" to amateurs.

Mansfield said it's too soon to predict how HR 783 will fare in the new Congress, but said the fact that it has been introduced so early in the session "bodes well for our prospects." He said that a number of the cosponsors from last year already have indicated an interest in signing on again, "so I think we'll have a lot of support."

A copy of the measure and the current list of co-sponsors are available via the THOMAS Web site, <http://thomas.loc.gov/>

Thanks, ARRL Letter, ARRL Bulletin, and THOMAS web site.

Coming Events

- Livermore Swap Meet - 1st Sunday of each month at Las Positas College in Livermore, 7:00 AM to noon, all year. Talk in 147.045 from the west, 145.35 from the east. Contact Cliff Chiba, KF6EII, (209) 835-6715, e-mail: larkswap@usa.com.

- ARRL Pacific Division Convention (PACIFICON'99), Concord, CA., Oct. 15-17. Contact the Pacificon99 Answering Service (925) 932-6125, e-mail - paccon99@pacbell.net. WWW - <http://www.pacificon.org>.

- Koolau ARC Ham Radio get-together and Swap Meet, Aiea, Oahu, Oct. 23, at Alvah Scott Elementary School, 98 - 1230 Moanalua Road. Contact Warren Munro, KH6WM at (808) 487-1863 or kh6wm@arrl.net, or AH6OZ, Walt@hawaii.rr.com.

Hoo's Hoo...



L-R: Bill Jimenez, Jack Nawrocki, Rolf Klibo, Rich Stiebel, Gary Hendra, Dick LeMassena

Officers:

President:	Jack Nawrocki
Vice Pres:	Bill Jimenez
Treasurer:	Rolf Klibo
Secretary:	Open

SS/L Shack Trustee: Dick LeMassena, W6KH

Newsletter Editor: Gary Hendra, W6NOE -- SS/L
3825 Fabian Way, MS-G36, Palo Alto 94303
E-mail to 'hendra.gary@ssd.loral.com'

Repeater Trustee/Control Operators(Primary):

Repeater Trustee: Rich Stiebel, W6APZ
Control Operators: John Buonocore, KD6ZL, Dan Connell, W6ASD, Rolf Klibo, N6NFI, Tom Holden, KN6KL; Gregg Schlaman, WA6ECQ

Repeater Technical Committee:

Committee Chairman: Rich Stiebel, W6APZ
N6NFI - Rolf Klibo and KN6KL - Tom Holden

Other appointed positions

Club historian:	To be announced.
Retiree Representative:	John Gibson, N6OM
Club emergency comm coordinator:	Randy Bassett, N6RUR
Club ARRL Coordinator:	To be announced
Club swap meet coordinator:	To be announced.
Club Project coordinators:	To be announced

The Number of Each Day of the Year

Day of Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day of Month
1	1	32	60	91	121	152	182	213	244	274	305	335	1
2	2	33	61	92	122	153	183	214	245	275	306	336	2
3	3	34	62	93	123	154	184	215	246	276	307	337	3
4	4	35	63	94	124	155	185	216	247	277	308	338	4
5	5	36	64	95	125	156	186	217	248	278	309	339	5
6	6	37	65	96	126	157	187	218	249	279	310	340	6
7	7	38	66	97	127	158	188	219	250	280	311	341	7
8	8	39	67	98	128	159	189	220	251	281	312	342	8
9	9	40	68	99	129	160	190	221	252	282	313	343	9
10	10	41	69	100	130	161	191	222	253	283	314	344	10
11	11	42	70	101	131	162	192	223	254	284	315	345	11
12	12	43	71	102	132	163	193	224	255	285	316	346	12
13	13	44	72	103	133	164	194	225	256	286	317	347	13
14	14	45	73	104	134	165	195	226	257	287	318	348	14
15	15	46	74	105	135	166	196	227	258	288	319	349	15
16	16	47	75	106	136	167	197	228	259	289	320	350	16
17	17	48	76	107	137	168	198	229	260	290	321	351	17
18	18	49	77	108	138	169	199	230	261	291	322	352	18
19	19	50	78	109	139	170	200	231	262	292	323	353	19
20	20	51	79	110	140	171	201	232	263	293	324	354	20
21	21	52	80	111	141	172	202	233	264	294	325	355	21
22	22	53	81	112	142	173	203	234	265	295	326	356	22
23	23	54	82	113	143	174	204	235	266	296	327	357	23
24	24	55	83	114	144	175	205	236	267	297	328	358	24
25	25	56	84	115	145	176	206	237	268	298	329	359	25
26	26	57	85	116	146	177	207	238	269	299	330	360	26
27	27	58	86	117	147	178	208	239	270	300	331	361	27
28	28	59	87	118	148	179	209	240	271	301	332	362	28
29	29	*	88	119	149	180	210	241	272	302	333	363	29
30	30		89	120	150	181	211	242	273	303	334	364	30
31	31		90		151		212	243		304		365	31
Days/Mo	31	28	31	30	31	30	31	31	30	31	30	31	

* In leap years, after February 28, add 1 to the tabulated number.

2000, 2004, 2008, 2012, 2016, 2020, 2024, 2028, 2032, 2036, 2040

For Address Changes, or If Undeliverable, Return to:

Gary Hendra MS-G36
SPACE SYSTEMS/LORAL
3825 Fabian Way
Palo Alto, CA 94303-4604