W6ARA

PAARA NEWSLETTER

VOLUME 59, NUMBER 9, September 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



September 4, **PAARA Meeting**, 7:00 p.m. Menlo Park Recreation Center

Menlo Park Recreation Center 700 Alma Street, Menlo Park

September 23, Board Meeting, 7:10 p.m.
Palo Alto Red Cross
400 Mitchell Lane



PLEASE JOIN US AT OUR NEXT GENERAL MEETING ON SEPTEMBER 4, 2009 OUR SPEAKER WILL BE...

Jerry Ramie, KI6LGY

Green Power and the Modern Power Grid

Risk and uncertainty in the electric industry have driven investment to an all-time low. Regulations designed to encourage competition have fallen short of expectations. Several promising technologies could address problems in system operation, but the Information Technologies that have transformed other "networked" industries (like telecom) haven't transformed the electric industry. The proliferation of microprocessors requires greater power quality and reliability. It is increasingly difficult to site transmission lines, thus requiring new power electronic solutions that allow more power flow through existing lines (Flexible AC Transmission Systems, or FACTS) and local (distributed) generation.

Their conclusions were that the "technology readiness" of our critical electric systems needs to be improved. Jerry will tell us more about what happened at their meetings and what to look forward to.

President's Corner Reflector Joel Wilhite – KD6W

September 2009

Late summer brings shortened days and increased fire danger. On a recent business trip to Burbank, I saw live helicopter coverage of the Angeles National Forest fire. The fire, suspected to have been started by a propane stove, burned 750 acres in the first 24 hours; in under a



week it has gobbled up over 5000 acres. On the day it started, I and a few others were watching the live television feed, and we stared in amazement as the fire jumped from one canyon wall to another, ran up a rock face covered in small dry scrub brush, and continued up over a turnout area next to a road. Several people watching from the ledge were caught unaware by the speed of the fire. Within moments of the fire rising over the edge, they all scrambled to move their vehicles away from danger. While most vehicles were moved to safety, one white car parked too close to the edge had to be abandoned.

(Continued on page 37)Pres Corner

PAARA People and Places

by Moore N Pho 3W1NKS

Summer is nearly over: Operate from remote locations for fun and adventure. Experiment with quick and easy set up, develop skills and test your equipment. Experiment with antennas. Optimize your radios for all mode portable communications. Start with simplicity. Add convenience and variety. Mix them together to create lightweight outdoor adventure.

DXing by the Bay: PAARA's LXpeditionary Force, an informal Special Interest Group (SIG), encourages special events and LXpeditions (local expeditions). Goals are to emphasize radio field operations...

Continued on page 38

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.electronicsfleamarket.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.k6va.org/

NCDXC Northern California DX Club

meets 2nd Friday 7:30pm each month

repeater for member info 147.360, Thursday 8:00PM

contact: http://ncdxc.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.ndv/scara/ 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

52.58 (-500) 151.4 ctcss UHF:

147.39 (+600) 151.4 ctcss 223.96 (+1.6) 156.7 ctcss

441.35 (+5.0 88.5) ctcss 1286.20 (-12m) 100.0 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 fshensley@Novell.com

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

Please contact Rick Melrose to settle your 2009 membership dues so you can keep receiving your **PAARAgraphs**

Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

Offi	cers
~	

President	Joel Wilhite, KD6W	650 325 8239
	kd6w@arrl.net	
Vice President	Doug Teter, KG6LWE	650-367-6200
	dteter@wcwi.com	
Secretary	Rick Melrose K6RDM	1-888-725-1895
	k6rdm@arrl.net	
Treasurer	Ron Chester, W6AZ	408-243 2221
	ron@taxhelp.com	

Directors

	kristen@alum.mit.edu	
Director ('10)	Peter Sheerin K6WEB	415 298 7383
	k6web@arrl.net	
Director ('09)	Rob Riley, KG6HVW	(cell) 650 799-1607
	kg6hvw@arrl.net	
Director ('09)	Gerry Tucker, N6NV	650-326 4908
	n6nv@arrl.net	
Director (09)	Byron Beck KG6UOB,	408-735-8604
	kg6uob@arrl.net	

Past President (09)Kristen McIntire, K6WX 510-703-4942

Appointed Positions

-	ab6so@smrn.com	
	Rick Melrose K6RDM	1-888-725-1895
	k6rdm@arrl.net	
Chaplain	Rev. Rick Line, KG6TN	MD 650 323 8544

kg6tmd@arrl.net

Membership......Vic Black, AB6SO

Station Trustee W6OTX, K6YQT, W6ARA.... Station Trustee K6OTA...

Gerry Tucker, N6NV Ron Chester, W6AZ 408 396 4745

650-856-2748

415 298 7383

650-366 0636

Property Manager.....Gerry Tucker, N6NV Fund Raising Coordinator .Bob Korte, KD6KYT

bob@rgktechsales.com Badge Coordinator......Ed Gentry KG6KKP 650-368-9455

Historian...... Christopher McIntyre, KG6SVI Raffle Coordinator......Jim Rice, K6AK 650-851-2274

Vacant

Ticket MasterKyle Rice, KG6MSK Field Day Coordinator......Doug Teter, KG6LWE

ASVARO Rep.....Rolf Klibo, N6NFI n6nfi@arrl.net Webmaster.....Peter Sheerin K6WEB

.....k6web@arrl.net Technical Coordinator.....Joel Wilhite. KD6W.......650-325-8239 kd6w@arrl.net

QSL Manager..... ..Rob Riley, KI6INR (cell) 650 799-1607 ki6inr@arrl.net

Speaker Coordinator Doug Teter, KG6LWE

650 325 8239 dteter@wcwi.com

PAARAgraphs Staff

Editorial Board

Public Affairs

PAUL PETACH KI6QXV ROBIN YEE KI6YTA Joel Wilhite KD6W Vic Black AB6SO Ron Chester W6AZ Peter Sheerin K6WEB

Editors		
	Paul Petach, KI6QXV	
	Robin Yee, KI6YTA	
Advertising	Ron Chester, W6AZ	408-243-2221
-	ron@taxhelp.com	
Member Profiles	Terry Finn, AA6T	650-366-9111
Technical Tips	Vic Black, AB6SO	650-366 0636
_	ab6so@smrn.com	
Photographer	Bill Young, K6VWO	
	k6vwo@sbcglobal.net	

Celebrating 72 years as an active ham radio club—Since 1937

Needless to say, the images from the helicopter sent several important messages. Had the crews on the ground been able to see from the perspective of the helicopter, they could have reacted much sooner and avoided the 50 yard dash from the impending danger. More important, had the pilot been able to communicate with the crews on the ground, none of this would have happened. Helicopter pilots have their hands full managing two or more radios while flying an aircraft at the same time. A better solution would be to have the incident commander watching the video from the helicopter. Since the IC knows where his units are (and yes, one unit was on that ledge as identified by the large number designation painted on the top of the cab), he could have radioed to the crew and told them to get a move on. But maybe there was an issue and they couldn't communicate with them directly.

In this age of tele-presence, aerial surveillance, unpiloted drones or UAVs, and rovers scaling the rocky ledges of Mars, man continues to leverage technology in order to improve his ability to be more places at one time. Using various forms of communication media and remote control techniques, ham radio operators too are tethering their two-way equipment to the internet so they can be other places around the world and work their favorite QSO's. I was listening to a ham in Arizona on 3870 AM the other night; he was testing his connectivity at home before he went off-road. His operating position was an Apple computer, a headset and an internet connection. Meanwhile, down in his basement was a Linux box controlling a software defined radio and an Alpha linear amplifier and remote tuner. He was in the bedroom with his laptop, connected through his home wireless network and connected to his machine down in the basement. This is not the first time these techniques have been used as others (N6DQ) and others have done similar things with their set ups. What I thought was clever was the interface to the linear amplifier and that he was using AM. From computer to 80 meter AM phone—what a hoot.

This all made me wonder what systems helicopters are fitted with. Say they had a small transponder system, or better, a mini on channel repeater. The coverage area for radio communication could be greatly enhanced in and around those areas specifically in a fire zone, allowing for greater coverage or more reliable service. An even better solution would be to have a way to transmit pictures directly to the ground crews from the helicopters providing eye-in-the-sky views. With the gyro stabilized high definition camera platforms used on most of the new helicopter installations, ground crews enabled with TV receiver systems and the incident commanders would then enjoy a new perspective currently only available to the television viewing public. Yes, it's a little like a voyeuristic "Big Brother" watching, but what an invaluable amount of information.

I'm looking forward to working Mark in his attempt to operate 2 meters and D-Star in his HAHO parachute jump in a couple weekends. The idea I had was to get him to strap a camera to

(Continued on page 38)

September 2009 Board Meeting Minutes

The Board Meeting for September 2009 was held at the Palo Alto Red Cross, commencing at 7:00 PM on the 26th of August 2009. Attending were Joel Wilhite KD6W (Pres), Rick Melrose K6RDM (Sec, Database), Ron Chester W6AZ (Treas), Byron Beck KG6UOB (Dir), Rob Riley Kl6lNR (Dir), Paul Petach Kl6QXV (Editor) and Robin Yee Kl6YTA (Editor). A quorum was present.

Secretary's Report - Rick K6RDM

• The minutes of the August Board meeting held the 29th of July 2009 were read and approved as amended .

President's Report - Joel KD6W

- Discussed ways to improve sound system at meetings so all can hear.
- PAARA will host the September 12th Flea Market at De Anza College. Help staffing the refreshment stand and with other duties will be gratefully accepted.
- PAARAFest will be held at 10AM on September 26th at Joel's QTH. This is a great opportunity to bring, buy, or sell some treasured ham radio gems. \$5 contribution for refreshments. Visitors welcome.
- The speaker for the September 4th general meeting will be Gerry Raimie Kl6LGY of the IEEE, who will be speaking on Smart Grid and Green Power, and BPL in particular.
- We hope to announce the appointment of our Public Affairs Officer soon. Such a person will be a benefit to the club as well as to ham radio as a whole.
- We want to expedite the project of making contributions to the Red Cross in appreciation of the antenna carrier seen at our recent Field Day. Peter K6WEB will provide specifics for making contributions.
- The plan is still in place to have an antenna and repeater work party at Joel's to refurbish our 15M and 20M monobanders. PAARA has acquired a refurbished KLM KT-34 Triband Beam in excellent condition that can serve as a model to recondition our current KT-34 which was discovered at Field Day to be inoperable on 15 meters.
- We now have a list of the less populated counties that are not already covered for the CQP California QSO Party on October 10th. Plans are in the works to have some club members take to the field with mobile or portable equipment to fill in the gaps in northern California and activate a county.
- Prospects for a repeater site on Mt. Allison have dimmed considerably, and we are looking at an alternative on Black Mountain. That alternative may involve a contribution (extent to be determined) for support and maintenance of the site.
- Ideas for increasing the clubs financial resources are being considered, e.g. the possibility of developing and selling kits as other clubs have found workable.

Treasurer's Report: - Ron W6AZ

- While the full-color August issue (a first for PAARAgraphs!) was stunning, it was much more expensive to print than anticipated. A more practical approach for future issues will be to print the newsletter in black and white as before and have a color insert when appropriate.
- The meeting was adjourned at 9:15 pm

LIFE MEMBERSHIP

Awarded by Action of the PAARA Board

Wally Porter K6URO Dec 2008 Steve Stuntz, K6FS Dec 2007

Celebrating 72 years as an active ham radio club—Since 1937

Continued from page 35

PAARA LXpeditionary Force operatives: Dave Crocker W6VYC, Tim Dolan K6OM, Vic Black AB6SO, Hiro Kato AH6CY, Reg Dell-Aquila K6SSJ and Kristen McIntyre K6WX have recently been operating portable next to SF Bay and on nearby mountain tops. Hiro reports his best DX: Spain with 2-1/2 watts phone. Operation is by battery power into portable antennas. Most QSOs are QRP SSB with "salt water amplifier" --- enough to work Europe, Asia, South America and Oceania on 17 and 20 meters SSB at the bottom of the sunspot cycle. Popular radios are FT-817, IC-703/706, various Elecraft portable rigs and some military surplus with Automatic Link Establishment...

Other dignitaries seen by the bay: Elecraft co-founder Wayne Burdick N6KR and Bonnie Crystal KQ6XA, founder of the 8,000 member HF Pack group. Bonnie works pedestrian mobile and bicycle mobile on her supine recumbent bicycle when she's not in Shanghai on business. Others include Daniel Dibbets AF6FZ, Rhona Mahony K6PHO (love that suffix), Neil Murphy KH6EAM, Darryl Presley KI6LDM and PAARA Veep Doug Teter KG6LWE. Dave Flack W6DLF has been using the standalone, battery-operated NUE-PSK digital modem which allows him to operate PSK31 without the usually required computer...

Confusion: Poor Ol' Mr. Pho is trying to improve his English, but is confused. Why do Americans say fish after tuna, but not after salmon or sardines? Why do they say Myanmar, formerly Burma, or Mumbai, formerly Bombay, but not Thailand, formerly Siam, or Sri Lanka, formerly Ceylon, or Tanzania, formerly Tanganyika, or Namibia, formerly German South West Africa, or Zimbabwe, formerly Southern Rhodesia, or United States, formerly the American Colonies? After a tour of the United States Ol' Pho wonders if United States is a misnomer...

Fun and Fame: Gentleman Jack Troster W6ISQ is PAARA's Sweepstakes "check 35" (his first year of operation). Jack recently announced that he finally worked his last DXCC country for a complete sweep of all countries. And it only took 50 years. It's somewhat like working to get rich. The first million is the difficult part. It's amazing how easy it is to work DX during a contest and how difficult it can be when there is no contest on. Is it important to work every country? No. If you set that as a goal true happiness will elude you. In Punjabi State there is an old adage: "Slowly, slowly catchee monkey." Get impatient and he will always stay out of range. Will you become world famous if you do work 'em all? Not for long. Cemetery marble head stones should prove that. Chase DX for enjoyment and the pleasures of friendship. They will remain with you forever...

Live the Dream. Grab the Airwaves and hang on. Enjoy the ride.

(Continued from page 37)

his helmet and have him transmit live pictures while operating handheld. The melding of technology would then allow him to send video of what he can see from his perspective just as if we were there with him. Dick Kors (KM6EP) had this idea on a little remote control airplane fitted with a 2.4GHz camera and an APRS 2m beacon strapped to it flying around the Field Day site one year. How much longer will we have to wait for remotely piloted amateur radio equipped dirigibles? Can you imagine an airship effortlessly hovering over an area with repeater system (but not on 2 meters!) and live video down-links giving us a view only the birds get to enjoy regularly?

73 de KD6W Joel

Congratulations to the winners of the August 7th PAARA Raffle!



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, September 4th at 7 p.m. Menlo Park Rec. Center, 700 Alma St., Menlo Park, CA.

September Raffle Prizes

FIRST PRIZE: Icom IC-V82 / 2m / 7W / HT

Includes 600mAh Ni-Cd Battery Pack with Desktop Charger

- 200 Memory Channels and Ten Memory Banks
- NOAA Weather Channel Receive
- Automatic Repeater Function
- Durable Construction and Simple Operation
- Optional Digital Unit UT-118 / Provides D-STAR Digital Voice and Data
- PC Cloning Capability

SECOND PRIZE: Eight Cell Smart Charger with 8 AA 2100mAh Rechargeable Batteries



THIRD PRIZE: Deltran Battery Tender / 12Volt / 750MA / 3 Charging Modes **FOURTH PRIZE:** TWO Midland Two-Way Radios with Batteries & Charger

FIFTH PRIZE: Where Did Silicone Valley Begin? On The Radio! DVD

SIXTH PRIZE: ARRL Repeater Directory 2009-2010 **SEVENTH PRIZE:** Sterling Deluxe Wire Stripper

EIGHTH PRIZE: Yaesu Log Book

Since Feb. 03, 150 Radios, including TWO Elecraft K3's, a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and TWO Elecraft KX1's have gone to Fellow Hams.

Celebrating 72 years as an active ham radio club—Since 1937

A Point-to-Point Wireless Solution for CAT5 connectivity

By Patricia (Elaine) Gibbons WA6UBE

This article presents a wireless solution that is a 'Commercial Off the Shelf' (COTS) arrangement.

At our home QTH, a solution needed to be found for providing internet connectivity to our COMVAN, which is usually parked behind our home when not in use (actually, it is parked behind our house most of the time even when it *is* in use).

Using a PCMCIA Netgear wireless card in this particular application proved useless, as the laptop PC is inside of a metal communications shelter, and even with the door of the shelter opened, connectivity was very spotty even though the RF path length is only 75 feet. It is clearly obvious that the internal patch antenna of this wireless card will not provided the needed connectivity to the wireless LAN in our home.

Our prior effort at wireless connectivity to our wireless LAN from our comvan:





Running a length of CAT5 or CAT6 Ethernet cable to the vehicle seemed a "logical" solution except that such a run of cable would end up being directly underneath a 120-foot, HF multiband dipole antenna which is strung diagonally across our property, at a height of about 15 feet.

Solving complex RFI problems in the past usually required the equivalent of some heavy voodoo or other form of magic in order to eliminate such RF interference. Given this experience, the thought of running 75 feet of CAT5 cable from our house to the comvan in this particular case did not seem to be the best idea to pursue.

The unique application in this case was the use of high-gain directional antennas at each end of the connection path, and the use of two NetGear WG102 wireless access points which are configured in "bridge mode".

"Bridge mode" in the usual sense, is for the purpose of connecting two separate local area networks together so that any pc in one network can access resources on the other. "Bridge mode" essentially is a dedicated point to point link, where only two

MAC addresses are used. Each access point has it's own internal MAC address, and as part of the bridge-mode configuration, also has the MAC address of the access point it is pointing towards configured in its setup.

In this mode, such a link will appear to the "far-end user" (in this case the notebook PC within the comvan) only appear connected to the internet via a CAT5 Ethernet cable.

A real benefit of using Netgear products is that many of their devices are designed to be powered from a 12 volt-DC source, and usually via a wall-wart. In a vehicular environment, what could be better than equipment that can be plugged directly into an Anderson Powerpole strip??

As cable losses at 2.4 GHz can be huge when long lengths of cable are used, this solution required only 2-feet of antenna cable from the access point in our front room, to a Hawking corner reflector antenna having 15 dBi gain, and only a three foot RF cable from the access point in the comvan to a model WAN2218, 18 dBi enclosed Yagi antenna which is made by a company called "Level One."

Level One WAN2218 Antenna mounted to our COMVAN. This radome-enclosed multi-element yagi antenna is just over four feet in length:



View of the WG102 Access point, connected up in our COMVAN:

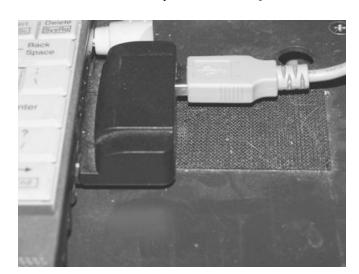


PAARAgraphs—September 2009 Celebrating 72 years as an active ham radio club—Since 1937

Below is the indoor-end of this wireless link, consisting of a Hawking Corner reflector, installed in our living room, and connected to the indoor Netgear access point. A CAT5 cable then connects the access point to a Linksys DSL modem's internal Ethernet router:



Using a USB2.0 port via the new card for use via the MIXW soundcard software. The digital data is sent to a Tigertronics SignaLinkUSB interface and then connected to a Yaesu FT897D via the data port on the back of the radio:



Rear view of the Netgear, WG102 Access point:



Front view of the Netgear WG102 Access point:



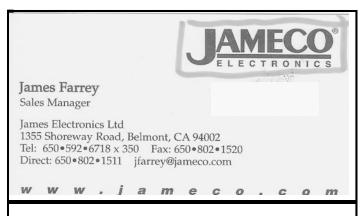
Inside the comvan where my notebook computer is used:



For more information on the access point and the antennas, go to

Netgear WG102 Access Point: http://tinyurl.com/wg102
Hawking HAI15SC corner reflector antenna: http://tinyurl.com/hai15sc
Level One, WAN-2218 Antenna: http://tinyurl.com/ld9q31

Also be sure to check out Elaine's web site, http://www.tactical-link.com



YOUR AD HERE See the next page for details

Badges in hand as of 8/02/09

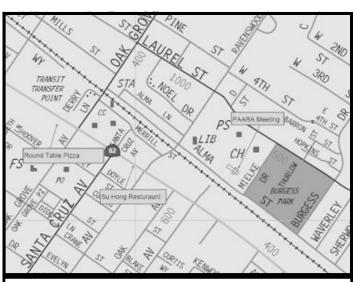
- -KG6QKO, Kali, Palo Alto
- -N6JCY, Joani, San Jose
- -K4AZY, Mike, Palo Alto
- -KI6GYY, Art, San Jose
- -KG6QKN, Francis, Palo Alto
- -K6TSR, George, Portola Valley
- N6MEF, Michael, Los Altos (2)
- -KG6ZWO, Henri,
- -KF6SRD, Chuck, Daly City
- -K6FTF, Mark, SJ
- -W6NEV, Marty

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 PAARAgraphs \$6 for each additional family member (no newsletter).

Make payment to the Palo Alto Amateur Radio Association, P.O. Box 911, Menlo Park, CA 94026-0911

Permission is granted to reprint from this publication with appropriate source credit.

PAARA Radio Net

Every Monday evening at 8:30 P.M. local time on the 145.230 -600 MHz repeater, PL tone not required

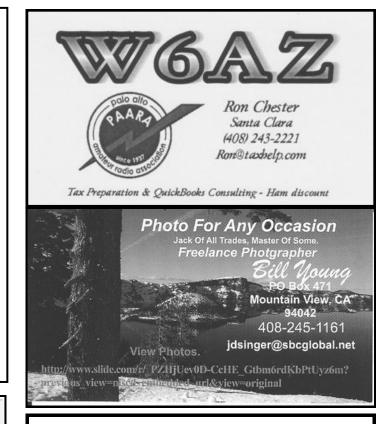
llse Beck, E. A., KI6IBM



441 N. Central Avenue, #9 Campbell, CA 95008

> Enrolled Agent Income Tax Bookkeeping/Payroll Elder Care Consultations Billing and A/R

Phone/FAX: 408-267-8234 Email: ilsebeck@ips.net





REDWOOD CITY -SAN FRANCISCO -

- 650-366-9111 - 415-495-2245

SAN JOSE —— 408-266-2245

TERRY FINN CA Insurance License # 1A38965, AA6T 234 Marshall Street, UPSTAIRS #3 Redwood City, CA 94063-1550

http://www.foto.mail.ru/list/shkurkin

Vladimir Vladimirovich

SHKURKIN

Editing and Translation Services English-Russian-English

shkurkin@ix.netcom.com

PowerFlare,

PowerFlare® safety lights: Ultra-rugged 360 degree LED beacon for your emergency kit, car, home ... **Order on eBay** or call 650-322-2476 (search for "PowerFlare")

PAARAgraphs E-mail address: kd6w@arrl.net

Submit material for PAARAgraphs by the 15th

Photos:

MSWORD, RTF, or TEXT

JPEG or TIFF raster images

Missing PAARAgraphs, too many copies, wrong name or call on label? Contact Database Manager:

Rick Melrose K6RDM, 1-888-725-1895, k6rdm@arrl.net

PAARAgraphs Ad Rates

П

Π

PAARAgraphs accepts paid advertisements from non-members, (short personal ads remain free for members in good standing). All ad rates listed are per issue.

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 per issue).

2. For Profit organizations and/or individuals: \$5-business card size, \$25-balf page, \$50 full page or back cover per issue.

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 he association. The PAARAgraphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association. All fees payable in advance by the year with "scanner-ready" copy or text-only ads. Give payment and copy to Ron Chester, W6AZ

PAARAgraphs — September 2009

Accept no substitutes. Produced and printed in California USA

STAMP

Palo Alto Amateur Radio Association, Inc. PAARAgraphs Newsletter P.O. Box 911 Menlo Park, California 94026

FIRST CLASS MAIL

