

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

Celebrating 78 years as an *active* amateur radio club—*Since 1937*



Computer History Museum

The History

Len Shustek



Len Shustek is chairman of the board of trustees of the Computer History Museum.

In 1979, he co-founded Nestar Systems, an early developer of networks for personal computers. In 1986, he co-founded Network General, a manufacturer of network analysis tools including The Sniffer™. The company became Network Associates after merging with McAfee Associates and PGP. He has taught Computer Science at Carnegie-Mellon and Stanford Universities, and was a founder of the "angel financing" firm VenCraft. He has served on various boards, including Polytechnic Institute of New York University.

Shustek has a BS and MS in Physics from Polytechnic Institute, and an MS and PhD in Computer Science from Stanford University.

President's Corner

March 2015



Spring is about to be here, bringing better equinoctial propagation as well as the first set of big contests for 2015. I just came back from the Yuma Hamfest where I had a great time. The PAARAtip to the Computer History Museum is poised to start, and by the time you read this, the PAARAshoot / PAARApLink will be history.

As of this writing, the spring equinox is a little less than a month away. I'm going to hope that we will get some improved propagation as the day / night cycle equalizes. While it hasn't been a terrible winter for the bands, it also hasn't been spectacular. Particularly through the New Year, the sunspot number and solar flux index have been weak for having just passed the peak of solar cycle 24. I would expect to see robust solar activity for quite a while longer, but things have been pretty quiet. At this moment, the sunspot number is 64, with a solar flux index of 111. It was partially because of these low numbers that I was unable to work K1N, Navassa Is. I tried and tried from my squirt gun on both 30 meters and 40 meters, but no luck. The signal received at my QTH seemed pretty weak for the distance, and I was pessimistic as a result. Despite my failure with that

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Upcoming Events

- **Mar 6** PAARA General Meeting, 7:00 PM
Cubberly Community Center, Room H-6
400 Middlefield Rd, Palo Alto
- **Mar 18** Board Meeting, 7:00 PM
Everyone welcome!
Round Table Pizza Parlor in Menlo Park
- **Mar 1** PAARApLink—San Jose gun range
- **March 21** Computer History Museum field trip

Three notable scientists ... each in a different field, but all with a shared interest in their youth ... one that most of us share as well. AH6CY takes a closer look.

Three Scientists and Their Radio Days

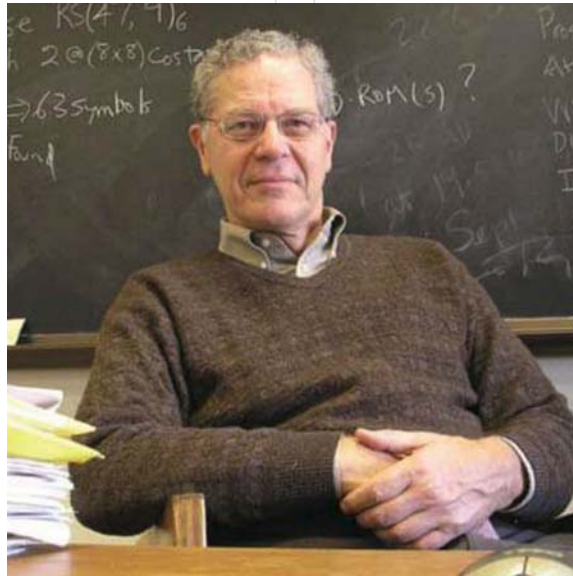
Hiroki Kato, AH6CY

Conclusion, continued from last month.

Joseph Taylor

The third and last extraordinary scientist I wish to quote from in connection with youthful radio exploration is not as widely known as a scientist to the lay public, although he is a familiar name to many hams who have been involved in weak-signal communication, for he is an active ham and the author of the WSJT and WSPR programs used for moonbounce and meteor scatter, as well as other forms of weak-signal processing, such as propagation reporting on HF bands.

Dr. Joseph H. Taylor, a Princeton University physics professor (Emeritus), aka Joe, K1JT, must be a humble man, because despite the fact that he is a 1993 recipient of a Nobel Prize in physics for his discovery of binary pulsars⁷ proving the correctness of Einstein's relativity theory, no biographies, let alone an autobiography, have been written to date. His humility may owe to his Quaker background and upbringing in his youth in Pennsylvania.



Dr. Joseph Taylor at Princeton University Office

We are lucky that Rich Moseson, W2VU, the CQ editor, conducted an in-depth interview with Taylor which was published in the October 2009 issue of CQ. In that article, we learned that Taylor, like Dawkins and Feynman, also started with "...crystal sets in the 1950s and then single-tube radios and that kind of thing, and then went on to building shortwave sets... We [Taylor and his brother Hal] got licensed when I was in 7th grade ... and went on from there..."

Here is a scene, in his own words quoted in Mo-

seson's article, where Taylor clearly learned some physics lessons while playing with radios:

It took us a while to get much of [our home-brew radios] working the first go-around. I remember the light bulb that went off in our heads ... when we discovered that the reason we weren't coupling any power into this antenna was because it was non-resonant, and with a couple of capacitors and a coil, we could make it resonate and take power, and that sort of thing is eye-opening to a teenager.

There is also this passage written by Taylor himself for the occasion of his Nobel Prize reception ceremony in Stockholm to give us another glimpse of his background:

Among my fondest boyhood memories are collecting stone arrowheads left on [my family farm's] land by its much-earlier inhabitants, and erecting together with my brother Hal, numerous large, rotating, ham-radio antennas, high above the roof of the three-story Victorian farmhouse.

With one such project we managed to shear off the brick chimney, flush with the roof, much to the consternation of our parents. That incident was one of many practical lessons of my youth, not all absorbed in the most timely fashion, involving ill-advised shortcuts toward some goal...

In our school years Hal and I filled most of the third floor with working ham-radio transmitters and receivers. Our rigs were mostly

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built from a mixture of post-war surplus equipment and junk television sets. We learned by experience that when you need high voltage, the power company's 6000-to-120-volt transformers work admirably in reverse; and that most amplifiers will oscillate, especially if you don't want the to...⁸

Who among us who cut their ham teeth in the 1950s and 60s would not find this passage exceedingly nostalgic? The mention of the availability of war surplus gear and cannibalizing old TV sets for plate transformers and re-purposing sweep tubes as transmitting tubes cannot fail to make many of us old-timers be reminded of our own early excitement when those reused things actually worked, if not perfectly or most efficiently.

Taylor's experience in antenna construction, of course, taught him, as it did many of us in our own youthful radio tinkering, that shortcuts to our goals often produce poor results, and that particular message learned early in life has served us well in later years.

Joe Taylor allotted a rather large portion of his short Nobel Prize bio statement to a reminiscence of his youthful ham radio activities; it is obvious that ham radio played a very influential role in his becoming an outstanding astrophysicist.

People in these days of computers, Internet, and electronic toys often wonder if ham radio would still make a difference in fostering scientific careers. Moseson in his interview posed this question to Taylor directly and Taylor's answer was illuminating:

Yes, I do. ...Ham radio has always had one really important kind of activity, a kind of personal satisfaction to offer, and that is building it yourself. I think the kind of developing professional who is going to be good at design and implementation of new techniques can very often benefit from an early exposure to ham radio, where homebrewing is a part of what's happening. And homebrewing these days doesn't necessarily mean you have to build your whole station.

You may well buy your transceiver, but you can't just put a transceiver on the air without doing a lot of other things, almost all of which have to be done by yourself. You have to put up some kind of antenna, you probably have to have other station auxiliary equipment, and almost everybody gets some building experience doing those sorts of things. I think people who have developed that kind of skill in an avocation — in a thing that they do just for the fun of it — often develop skills that translate into their professional work...

I definitely used those [skills] in my early work in radio astronomy. That is, I was a knowledgeable RF electronics person ... not from a professional engineering training level, but from a seat-of-the-pants-in-the-ham-shack-level...

...It's still very valuable to the scientist to have the technical equipment-type knowledge ... partly because, at least at the forefront of scientific frontiers, the instruments ... don't necessarily even exist yet [for conducting] a particularly important experiment. So the scientist would want to be involved in the design and detail implementation of a new instrument.

The amateur radio community is especially fortunate to have Joe Taylor as one of its active members. We have surely not heard the last of him as he continues to contribute further to science and amateur radio.

A Common Thread

One common thread that comes through in reading these quoted passages from the three scientists is that all of their parents and family members were not only tolerant of these young boys' tinkering with and accumulating their radio junk, but actively encourage the youthful experimenters. Perhaps there is a lesson for parents and grandparents in the world.

Notes

- 7 The work was carried out with the co-recipient of the prize, Russell Hulse, also a ham at the time, WB2ALV.
- 8 See http://www.nobelprize.org/nobel_prizes/physics/laureates/1993/taylor-bio.html

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DXpedition, I remain optimistic that there is lots of fun to be had on the HF bands, no matter the CONDX. It's just a matter of calling CQ. You never know what you might find. And, as I always mention, there are many contests that can give you a boost with the DX. They're really fun too. March will feature the SSB version of the ARRL International DX Contest (the 59 kilowatt contest, as I call it) and the CQ WW WPX SSB contest. The last one is great for snagging some DX, since multipliers are gained by unique callsign prefixes. The DX usually has an interesting prefix, so they love this contest. There are also many smaller contests, as well as state QSO parties. Check out <http://www.hornucopia.com/contestcal/contestcal.html> for more info.

The Yuma Hamfest is over for another year, but I had an absolutely wonderful time driving down and visiting with all of my friends there. Each year I go there to give a talk, but I end up enriched by the experience of new and old friends coming together once a year. I had a great dinner with my IOOK (International Order Of Kra-zies) friends and fellow Vice Presidents (all members are VPs, except KBob - the President). There was some great flea market style tailgating, fantastic talks, a vendor area, and the frequent Sound of Freedom, courtesy of the Marine Corps Air Station right across the road. The Harrier touch and goes were especially entertaining (and loud). From the Bay Area and ex-Bay Area I saw Norma, KK6HAC, with her nephew, Neil, W6FOG, with a new

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Supattra & Ron Chester (W6AZ & HS0ZMD) Cut Their Wedding Cake (Image by K6SV)

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communications trailer, and Pink, K7ILA, with her new dog. The event wrapped up with the Buzzard BBQ on Saturday evening. There was the usual fantastic array of raffle prizes, including some amazing HF radios. Sadly, I didn't win anything this year, but there's always next year. I drove back Sunday. The trip was eventful, with a sandstorm along I-8 that skirts the Mexico border. It also rained from the edge of the LA Basin at West Covina, all the way up through the Central Valley until I arrived at my favorite dinner spot: Harris Ranch. The rain was pretty heavy at times. I was worried that there might be snow at Tejon Pass, but it wasn't cold enough, I think. I arrived home at about 8:45 PM, just in time to take my son, Christopher, out to eat (well, I'd already eaten, so I just had something to drink). It was a perfect ending to the day.

Don't forget to sign up for the Computer History Museum tour on March 21st, and I hope you'll have had fun at the PAARASHoot. We'll have a report in next month's PAARAgaphs. Until then, 73 ES GUD SPRING DX DE K6WX.

Kristen (K6WX)

Feb 17, 2015 Board Meeting Minutes

The February Board Meeting was held at the Menlo Park 'Round Table Pizza Parlor, commencing at 7:39 on February 17th, 2015. In attendance were Kristen McIntyre, K6WX (President), Marty Wayne, W6NEV (V.P.), Jim Thielemann, K6SV (Secretary/Membership), Ron Chester, W6AZ (Treasurer), Darryl Presley, KI6LDM (Dir), Larry Rebarchik, N6DB (Dir), Rob Riley, KI6INR (Dir) and non-Board Members, Joel Wilhite, KD6W (Technical Coordinator), Gerry Tucker, N6NV (Property Manager), Vick Black, AB6SO (Technical Tips), Andy Korsak, KR6DD (OO). A quorum was present.

President's Report: Kristen, K6WX, commented on the importance of all the special "events" PAARA has that make it different from most of the clubs. Items like tours, PAARApLink, inter-

esting speakers, and the friendliness of the members make PAARA an interesting club to belong to. She also reminded everyone that the next PAARA event is the PAARApLink on March 1st at the San Jose range. She also thanked the members at the meeting for being flexible in moving the meeting date up by 24 hours to accommodate her fluctuating schedule.

She commented on the Winter Banquet as being an ok event this year. Those who attended had a good time socializing and listening to an engaging presentation by Rich Seifert, KE1B, on how to "Plan, Organize, and enjoy a DXpedition".

Kristen indicated her reserve of stories is rather thin again. She'd like to see the stories that members have committed to sooner than later, like before next month. Do you have any projects, like those for home brew night in January, technical articles, hints n kinks, DX, setting up your station or antenna, on the air experiences that might be of interest? We can even help you write them up, "even if it's only 4 sentences", says Kristen.

Vice President's Report: Marty, W6NEV, reported that the speaker for March will be the President & CEO of the Computer History Museum, John Hollar. He will be talking about the Museum and its origin. This is a great prelude to the March field trip to the Computer History Museum.

Marty also announced that there are currently 37 people signed up for the field trip to the Computer History Museum, in Mountain View, on March 21st at 10 AM. Some of those signed up still need to pay the entrance fee. They need to contact Marty to arrange payment before the event. The cost is \$10 payable in advance. The tour will feature a special demonstration of the IBM 1401 computer followed by a docent lead tour. Upon completion of the tour, you'll be able to wander around freely to see whatever interests you. Please remember that in order to be part of the special IBM 1401 demo; you need to be at the Museum NO LATER than 10 AM.

(Minutes — Continued on page 7)



February Winners (left to right):

- 1st Prize Alan Young / AG6ZE / Kenwood TM281A / 2m Mobile Transceiver
- 3rd Prize Rick Huisman / N6DQ / Stanley Screwdriver Set
- 7th Prize Rachael Kinoshita / KK6DAC / Coax Wrap

- 6th Prize Paul Gorny / KK6HWN / Bongo Ties (in back)
- 2nd Prize Eric Thielemann / KJ6LAY / Two FRS Radios
- 4th Prize Norma Chamberlain / KK6HAF / MFJ Clock
- 5th Prize Walt Gyger / K6WGY / ARRL Repeater Directory



Set aside Saturday, March 21, 2015 and get your GEEK ready, PAARA is touring the Computer History Museum. We are being offered a docent guided tour of the museum including a private demonstration of the IBM 1401. The docent tour will last about two hours, then self guided for as long as you want. There is also a gift shop.

<u>Where:</u>	<u>When:</u>
Computer History Museum 1401 N. Shoreline Blvd Mountain View CA94043	Saturday, March 21 at 10 AM There is ample parking available at the museum

Tour price will be \$10 per person. I will be taking payments. Cash or check only please. Reserve your spot for a great tour.

More information to be posted on the PAARA web site as it becomes available.

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Marty also reported that he has speakers lined up for the first 2 months of the year but is looking for ideas from the membership for speakers to fill out the rest of the year. He got some good ideas from those attending the meeting but can always use more.

Secretary's report: Jim, K6SV, reported that the membership stands at 68 for 2014, with 112 members paid through 2015, for a total of 179 members. So far there have been 88 renewals via PayPal through the Club website. He also reported there were two new members joined in January.

Now is the time to jump on the website and renew for 2015 via PayPal as all 2014 memberships have ended and the grace period is about to expire. As always, you can pay at the meeting but PayPal is quick and easy. Look at the mailing label on this PAARAgaphs, if you have a RED remainder to visit PayPal, your membership needs renewal.

Treasurer's Report: Ron, W6AZ, was not able to provide a full financial report with the meeting day moving up 24 hours. However, he reported that the club's finances were in fine shape. He also reported the income for January was on par with the average.

Under Old Business, the date for the next PAARApLink is fast approaching. The event will be held on March 1st from 10 AM to 3 PM at the San Jose range. See the San Jose range web site for restrictions on the types of guns you can bring.

Marty, W6NEV, reported that he and Rick are planning a trip to the Pacificon 2015 site to scope out the location of the tower and station. Marty also mentioned that the event has been authorized to use the W1AW/6 call sign during Pacificon. Contact Marty if you wish to operate or lend a hand.

Rebar, N6DB, mentioned that he still has a very interested party wishing to purchase the club's PE-95 generator. He and Gerry will move the

generator from the existing storage area to the farm. Pictures will also be taken so they can be provided to the interested party.

Under New Business, there was a discussion regarding Field Day. Rick N6DQ is proposing we change class to 5A and add a digital station to the "mix". There was a bit of discussion about adding digital to the mix and changing class. Doug, KG6LWE, is awaiting a plan from Rick before going very far. Also on the table is that Joel, KD6W, and Andreas, N6NU, will be out of the country for Field Day thus we need to find someone to champion the Satellite contact and UHF/VHF contacts. If anyone is interested in making the Satellite contact, please contact Doug.

The topic of the D-Star repeater was brought up by Joel, KD6W. The board discussed selling the 2M & 440 modules or the whole thing and moving to a DMR repeater. Finding a mountain top to put the D-Star repeater on has become a challenge still waiting for an answer. We do have coordinated frequencies for the 2M and 1.2G modules but the 440 module is not usable in the Bay Area.

The flea market and ASVARO was also widely discussed. The Red Cross has backed out of the event entirely. As such, the sponsoring clubs are once again faced with increased cost. After considerable discussion with more questions than answers, the board decided to poll the other sponsoring clubs and to request Mikel, KN6QI, to meet with the board on or around March 4th to get some answers and have an open discussion.

The meeting was adjourned at 9:39.

Jim Thielemann
Secretary/membership
K6SV

New Members:

Mark Laubach	K6FJC
Neil Katin	AI6FI

March Raffle Prizes

- 1st Kenwood TM281A / 2m Mobile Transceiver
- High Power 65W Output
 - Large Front Speaker
 - Vivid Amber LCD Display with 32-step brightness control
 - 200 Memory Channels, plus one call channel



- 2nd Battery Tender Junior Charger
- Complete 4-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode).
 - Automatically switches to float / maintenance voltage after fully charging the battery.
 - Solid state two color LED indicates stage of charger.
 - Reverse polarity protected.



- 3rd Two Midland LXT118 FRS/GMRS Radios



- 4th Humvee 41 Piece Tool Set



- 5th 2-USB Ultra Fast Car Charger — For iPhone, iPad, Smartphone, Tablet, Camera, and most USB Devices

- 6th ARRL Pocket Repeater Directory

- 7th Bongo Ties

Palo Alto Amateur Radio Association, Inc.

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	n6db@arrl.net	
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	ki6ldm@arrl.net	

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Membership	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
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	thielem@pacbell.net	
Chaplain.....	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Public Affairs	<i>Position Vacant</i>	
Station Trustee W6OTX, K6YQT, W6ARA.....	Gerry Tucker, N6NV	
Station Trustee K6OTA.....	Ron Chester, W6AZ	
Property Manager	Gerry Tucker, N6NV	
Fund Raising Coordinator	Bob Korte, KD6KYT	408 396 4745
	bob@rgktechsales.com	
Badge Coordinator.....	Doug Teter, KG6LWE	650-367-6200
	dteter@wvci.com	
Historian Position.....	<i>Position Vacant</i>	
Raffle Coordinator.....	Jim Rice, K6AK	650-851-2274
Ticket Master	Marty Wayne, W6NEV	408-246-7531
Field Day Coordinator.....	Doug Teter, KG6LWE	650-367-6200
ASVARO Rep	Rolf Klibo, N6NFI	650-856-2748
	n6nfi@arrl.net	
Webmaster	John Miller K6MM	
	webaron@gmail.com	
Technical Coordinator.....	Joel Wilhite, Kd6w	408-839-5948
	kd6w@arrl.net	
QSL Manager	Rob Riley, KI6INR	650 799-1607
	(cell)	
	ki6inr@arrl.net	
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	jd singer@sbcglobal.net	

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/>

PAARA — Palo Alto Amateur Radio Association

Meets 1st Friday 7:00pm each month at Room H-6, Cubberley Community Center; Net 145.230 - PL 100Hz Mondays at 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 3rd Thursday 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

50 MHz & Up Group

Meets 1st Thursday each month at 7pm in the Texas Instruments Building E conference room in Santa Clara.
 Contact: <http://50MhzandUp.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, Belmont EOC, Belmont City Hall, One Twin Pines Lane, Belmont CA 94002. 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.gsl.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

WVVARA — 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://wvvara.org>, Bill Ashby N6FFC, 408-267-3118, N6FFC@Juno.com, or N6FFC@ARRL.NET

**American Red Cross,
 Santa Clara Valley Chapter**

Contact: <http://santacalaravalley.redcross.org> or Scott Hensley KB6UOO, (408) 967 7924
fshensley@Novell.com



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Email: KARLDRESDEN@juno.com

***Badges are ready for
 pickup.***

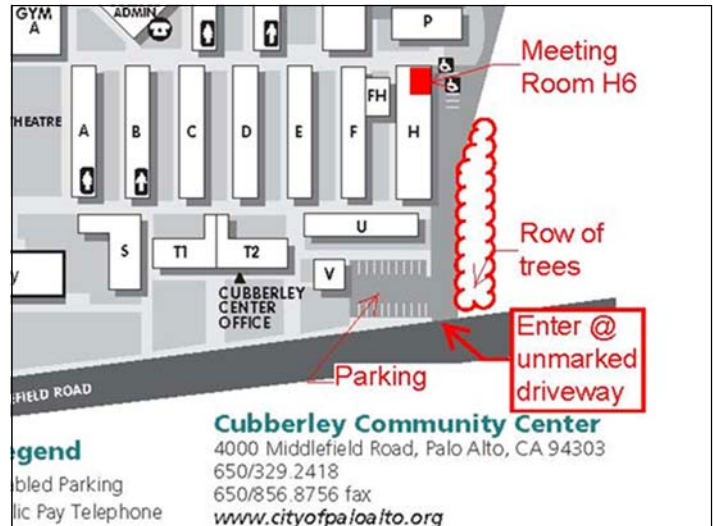
If you would like to
 order a badge, see
Doug Teter, KG6LWE.

PAARA Weekly Radio Net

Info and Swap Session
 every Monday evening at 8:30pm
 on the N6NFI 145.230 MHz repeater

<u>Week</u>	<u>Control Operator</u>
1 st	Joel KD6W
2 nd	Doug - KG6LWE
3 rd	Jack - N1VSL
4 th	Marty - W6NEV
5 th	Rob KC6TYD

If you're interested in trying out at Net Control,
 Contact Doug, KG6LWE. It's good practice,
 and lots o' fun! Give it a try.



**Meeting Location — Middlefield Road
 between San Antonio and Charleston in Palo
 Alto. 4000 Middlefield Road**

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

Vladimir Vladimirovich

SHKURKIN

Editing and Translation Services
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**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 Room H-6, Cubberley Community Center.



Radio NET & Swap Session every Monday evening, at
 8:30pm, on the 145.230 –600 MHz repeater, PL 100Hz.

Membership in PAARA is \$20.00 per calendar year,
 which includes one subscription to PAARAgaphs
 \$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

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<p>RADIO IN THE PARK</p> <p>9:30am - 12:30pm Check Back In the Spring</p> <p>QTH: Agnews Historic Park 4030 Lafayette St. Santa Clara, CA 95050</p> <p>N 37° 23.549 W 121° 57.297</p>	<p>Ilse Beck, E. A. , KI6IBM</p> <p>BeckBusiness Services</p> <p>441 N. Central Avenue, #9 Campbell, CA 95008</p> <p>Enrolled Agent Income Tax Bookkeeping/Payroll Elder Care Consultations Billing and A/R</p> <p>Phone/FAX: 408-267-8234 Email: ilsebeck@jps.net</p>
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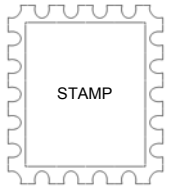
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PAARAgaphs — March 2015

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 PAARAgaphs Newsletter
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- 150W 1.2GHz power FT20 module
- 150W 1.2GHz power FT20 module

TH-5FA



- Dual Channel Receiver
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W



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DL-67T 2m/40W/2.1 Transceiver

- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W



DR-185TP 2m mobile

- 50 Watt out - Alpha numeric display
- 100 mHz - 100 mHz - 100 mHz - 100 mHz
- 100 mHz - 100 mHz - 100 mHz - 100 mHz
- 100 mHz - 100 mHz - 100 mHz - 100 mHz
- 100 mHz - 100 mHz - 100 mHz - 100 mHz

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- 50W/100W/100W/100W
- 50W/100W/100W/100W
- 50W/100W/100W/100W
- 50W/100W/100W/100W

FT-857D



FT-857D

- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W



FT-2000 HF - 80/10W

- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
- 100W/100W/100W/100W
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