4529 W. Park Place Glendale, AZ 85306-1512 PRSRT STD

U.S. POSTAGE PAID

PHOENIX, ARIZONA PERMIT NO. 701



ARE YOUR DUES CURRENT? **Check Your Club's Listing** on Page 2 for Information.

### SCHEDULE of EVENTS

**SARC** 

**AARC** 

Sep 3rd 7:30 PM

Sep 11th Scottsdale Senior Center Red Cross Bldg. - Phoenix 7:30 PM

### **OPRC**

Sep 10th Arizona Building at Tucson Medical Center 7:15 PM

### ADAW MEMBER CLUBS

### ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURS-DAY** of each month at 7:30 p.m. in the Red Cross Building, located at 6135 N. Black Canyon Hwy., Phoenix (N. of Bethany Home Rd., E. side of Freeway on frontage Rd.).

President	Gary Hamman	K7GH	602.996.8148
Vice President	Bob Milburn	KB7TWF	480.991.1702
Secretary	Larry Penrod	AC7FC	602.955.0349
Treasurer	Bob Hodges	K7JJT	602.274.1647
Red Cross Liason	n Larry Penrod	AC7FC	602.955.0349
ARCA Liason	Dick Baum	NS7A	602.870.1135
Membership	Bob Hodges	K7JJT	602.274.1647

AARC c/o Bob Hodges, K7JJT, P.O. Box 56483, Phoenix, AZ 85079-6483. DUES: \$15.00/YR, Prorated (\$18.00 Family,\$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

### SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNES-DAY** of each month at 7:30 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site). The club also holds a net <u>every Tuesday night</u> at 7:00 p.m. on the 147.78/.18 repeater.

President	Paul Finell	W7EFQ	602.998.7024
Vice President	Bob Johnsen	K7TR	480.946.1427
Secretary	Paula Jones	KD7TNB	
Treasurer	Tom Barry	W7UF	480.998.8494
Past President	Bob Johnsen	K7TR	480.946.1427
Membership	Terry Cross	NK7T	480.969.8943
Board Members	Jerry Jacques	KD7GYM	
At-Large	Terry Cross	NK7T	480.969.8943
-	Ed Nickerson	NU7S	480.949.5162

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member).

### CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Board meetings are held the last month of each quarter at the AZ Science Center. Annual meeting for all volunteers is held the **third Saturday** of January. Watch ADAW for details.

President	Bob Burleson *	KG7QJ	480.961.1109
Vice President	Rick Checketts**	KA0KZB	480.898.9158
Secretary	John O'Neal	KC7KML	480.345.7800
Treasurer	Larry Foster	KC0JON	480.767.0593
<b>Board Members</b>	George Stickney	W7BXW	480.964.3870
	Ray Waddoups	KE7FUM	480.654.9883
	David Zinder	W7MD	602.358.7826
	Skip Moretti	K7OAH	602.952.2649

<sup>\*</sup> Scheuling and Membership

Web Master - Roger Buel, W9NCQ - 602.493.7242

For information: Email to carl@w7asc.org or call Bob Burleson, KG7QJ at 480.961.1109. Web Site: http://www.w7asc.org

### OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of each month (except June, July and August) at 7:15 p.m. in the Arizona Building at Tucson Medical Center. Visitors are welcome.

President Vice President Treasurer	Ron Kalish Alan Drexler George Devich	N7SPW WB9TSU N9IUK	520.207.3852 520.885.9910 520.760.0125
Board of Directo	rs:		
	Art Mills Cliff Schnider	KD7HZP KD7TMX	520.883.5480
	Bill Price	N7GUO	520.298.3114
WebMaster	Ted Willis	AA7HX	520.790.3828
	(www.neighborh	oodlink.com/	)
Trustees: (all 1	repeaters operating	g under the K	7TRA call)
Primary	Cliff Hauser	KD6XH	
	146.660, 146.820,	147.220-	
	Paul VanBeverh	oudt KA7LF	X 224.06+
Secondary	Ted Willis	AA7HX	146.66-
-	Ralph Turk	W7HSG	146.82-
	Paul VanBeverh	oudt KA7LF	X 224.06+

Mailing address: OPRC, P.O. Box 42601, Tucson, AZ 85733-2601. DUES: Individual - \$20.00/YR, Family - \$30.00/YR.



### **ADAW STAFF**

PUBLISHER/EDITOR		
Christine Kesauer	N7PVL	602.843.0960
AARCEDITOR		
Dick Baum	NS7A	602.870.1135
SARCEDITOR		
Ralph Craner	KV0R	480.837.2183
CARLEDITOR		
Bob Burleson	KJ7QJ	480.961.1109
OPRCEDITOR		
Ron Kalish	N7SPW	520.889.2998
DISTRIBUTION		
Mark Kesauer	N7KKQ	602.769.3000
PRODUCTION		
Melinda Kesauer	KC7FWR	
ADAW EMAIL	adawaz@arca-az.c	org
ADAW WEB SITE	www.adaw.org	

The <u>Arizona Desert Aire Waves</u> is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquires should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month** 

<sup>\*\*</sup> Technical Committee Chair



W7ASC is in the process of "moving on up" to the third floor in the AZ Science Center's new "My Digital World" area. We closed the W7ASC Shack Saturday, August 2nd. Ralph, KVOR, and his minions started cleaning, packing and storing stuff in the old shack. They encountered several large and presumably feral dust bunnies that had inhabited the shack for the last 10 years or so. Ralph also disposed of ancient copies of QST, labeled cables, cleaned cabinets, stored stuff in bins, and did a great job with all that accumulated stuff. The work continued this last Saturday, 8/9, with rerouting of all the coax from the 2nd floor to the third. Our "radio rack" is built (thanks to Stan at the Science center) and the new shack is progressing. We still have lots of work to do for the "grand opening" September 1st. Volunteers will be needed to help get the new shack up and running. W7ASC "Winter Hours" will be in effect starting August 30th (member preview). We plan

to have capability for almost all of the new digital modes, including digital voice, SSTV, CW and more. Look for the next month's ADAW column for all the poop on our "grand opening" event!

The General License Class at the Science Center is underway (just finished class #3 as of this column) with 15 students ranging from 12 to 80. We plan to have them get the VE testing at the ARRL SW Convention in Mesa September 13th. The Tech class will start at MCC in late October, date TBD (I have to confirm the start date with MCC).

We are still looking for more W7ASC volunteers. We will need Volunteers for the "Winter" two shifts per day (9:00-1:00 and 1:00-5:00) after the opening of the new Shack. Spread the word at your Ham Club. Call 480-961-1109 and volunteer now. A Volunteer sign-up page is available at <a href="www.w7asc.org">www.w7asc.org</a>. We hope to have an updated presentation available in mid September for the valley Ham clubs and posted on the W7ASC.ORG web page.

Regards, Bob Burleson KG7QJ KG7QJ@COX.NET 480-961-1109





Ken Nichols - WA7HXZ

# Buying a car/truck hasn't been this easy since your first one... Remember?

Save every penny you can on your next vehicle purchase!
You can't save if you don't call !!!

Ken makes sure that you are satisfied with every aspect of your new car, from color to delivery! Whether you lease or buy, he's committed to giving you the absolute best price the first time. In fact he won't sell you a new or pre-owned vehicle until you are totally satisfied that you have the car that is right for you. Find out how Ken does business. Call today and set up an appointment to meet him. We think that you will find buying a vehicle can be fun! '73's



Brown & Brown Chevrolet, An AutoNation Dealership 256 E. Main Street, Mesa, Arizona 85201

Office: 480-827-3305 Website: www.kencars.com

Mobile: 602-690-0352

Executive Commercial Fleet Sales
\* Chevrolet \* Chrysler-Jeep-Dodge \*





... CATCH THE FEVER !

### Greetings All:

The September club meeting is on the second Thursday (Sept 11) at 7:30 P.M. at the Red Cross building. This is the evening just before the start of the ARRL Southwest Division Convention in Mesa. If you are not a club member, we would like you to come to the meeting but please call or email me at least a day ahead if you plan to attend the meeting so I can get your name on the list for admittance to the building. On the other Thursday evenings of the month we have a net on the 147.060 repeater (no PL) at 7:30 P.M..

Be sure and check out our club's web site, <a href="www.w7io.org">www.w7io.org</a>. It was recently updated by our webmaster, KQ7C. Please contact him with any suggestions.

Although our club does monthly VE testing, we do take June, July and August off. If a special need arises for a test session, give KQ7C or K7GH a call and we will try to accommodate you with a special test session. The phone numbers are 602 274-6212 and 602 996-8148, respectively. Our next scheduled session is Saturday evening, September 27, 7:00 P.M. at the Red Cross Building.

Our club also meets for breakfast at 7:30 A.M. on the fourth Saturday of each month at the Denny's Restaurant at 7th Street and Camelback. Next ones are August 23 and September 27.

We lost a good friend and club member, Bill Hickey, N7WFH, as he became a silent key a few weeks ago. Bill regularly helped at our VE Test sessions and recently led a license class for CERT members to obtain Technician licenses so they could use amateur radio for emergency communications. Our condolences to Leslie, N5LDH, and family.

The ARRL SW Division Convention is September 12 to 14. Amongst the many programs will be one given by our former president, Tom Ivan, KF7GC, on the National Traffic System and handling radiogram messages. Tom is the current net manager of the Arizona Traffic and Emergency Net (ATEN) that meets on 3986 kHz daily at 7:00 P.M.. He also has a net web site at www.atenaz.net.

I look forward to seeing you at our activities. If you have any questions regarding items in this letter or about the club, contact me, K7GH at  $602\,996-8148$ , or George, KQ7C at  $602\,274-6212$ .

73, Gary Hamman, K7GH <u>k7gh@arrl.net</u>

### Event Calendar

September 6, 2008 - **Mohave Professional Amateur Radio Group Hamfest** - will be held in Kingman. Free Hamburgers, Hot Dogs, Soda and Water will be provided to all who attend. Watch for updates and location.

September 12 - 14, 2008 - **ARRL Southwestern Division Convention** - will be held at the Mesa Convention Center in Mesa. Contact Rick Aldom - <u>natecf@gmail.com</u> - or visit the web site at <a href="https://www.azhamcom.org">https://www.azhamcom.org</a> for more information.

October 18, 2008 - **Old Pueblo Radio Club Hamfest** - will be held at Kino Sports Park in Tucson. Watch for updates.

December 2008 - **Superstition Hamfest** - will be held at Mesa Community College, Dobson & Hwy 60 in Mesa. Watch for updates.

January 10, 2009 - **WestFest** - hosted by the Thunderbird Amateur Radio Club, will be held at Thunderbird School of Global Management, 59th Avenue & Greenway Road in Glendale. All indoor event - admission fee \$2.00 - table fee \$5.00. Talk in frequency - 146.70 162.2PL. For more information, contact Steve Grouse at 602.570.9214 or email w1adw@cox.net.

June 6, 2009 - **White Mountain Hamfest** - hosted by the Kachina Amateur Radio Club will be held in Show Low. Watch for details.

July 17 - 19, 2009 - **ARCA/Williams Hamfest** - will be held at the Williams Rodeo Grounds in Williams. Date tentative. Watch for details.





### PUBLIC SERVICE CALENDAR

EVENT	LOCATION	DATE
ARRL SWDC Tactical T	`eams	
ARREST De l'actical i	Mesa Convention Cntr	09/12-14/08
AZ Diabetes Assn Wall		03/12 1 1/00
		09/27/08
AZ Diabetes Assn Wall	k West	
	Midwestern University	09/27/08
Cactus Cha-Cha	White Tanks Mtn Park	10/11/08
Susan G Komen Race fo	or the Cure	
	Downtown Phoenix	10/12/08
YMCA Half Marathon	South Mtn Park	10/25/08
Bad Motorcycle Ride	Valley to Casa Grande	10/26/08
JDRFWalk	Tempe Town Lake	11/01/08
Javalina Jundered	McDowell Mtn Park	11/15/08
Ironman Arizona	Tempe	11/23/08
Fiesta Bowl Half Marathon Scottsdale 12/14/08		
Rock N Roll AZ P	hoenix, Scottsdale, Tempe	01/18/09
Lost Dutchman Maratho	on Apache Junction	02/15/09
Ragnar Del Sol	NW to SE Valley	02/27-28/09
ADA Tour de Cure	N Phoenix	03/14/09
MS Bike Ride 2 Day Eve	ent Florence	03/28/09

To sign up send email to: mcecg@yahoogroups.com MCECG on the Web MCECG.ORG for event sign up For information on events, join - azhamserve@egroups.com

JimPierce, N7QVW-623.551.1204-jim@n7qvw.net Brian McCarthy, N7TUQ-623.486.0507-n7tug@arrl.net



# R.J. CARLI ENGINEERING CORP TOURISHING THE STOTE OF THE SCOTTS DALE, ARIZONA 85251 RAYMOND J. CARLI, P.E. ELECTRICAL ENGINEER W7GNE (480) 941-8610 (OFF.) (480) 945-7020 (FAX)

### LICENSE TESTING INFORMATION

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be a fee required.

PLEASE NOTE: Dates, times, or locations may change. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

### SEPTEMBER TEST SESSIONS

Sep 4th - Radio Society of Tucson -- 7:00 PM
Lighthouse YMCA, 2900 N Columbus, Tucson
Contact - Matthew Grossman 520.750.7189
Pre-Registration Preferred

Sep 6th - Radio-Active ARC of Mohave HS -- 9:00 AM Mohave County Library, 3269 N Burbank, Kingman Contact - Carolyn Krick 928.565.4922

Sep 12th - Independent -- 7:00 PM
Fire Station, McGuireville Exit #293 Off I-17, Rimrock
Contact - Mark Coker 928,567,5446

Sep 13th - Yuma ARC -- 10:00 AM
Yuma County Sheriff Office, 141 S 3rd Ave, Yuma
Contact - Robert Sidebottom 928.344.6469
or Beverly White 928.342.9460
Must Pre-Register

Sep 15th - East Valley VE Team -- 6:00 PM
Mesa Utilities Main Office, 640 N Mesa Dr, Mesa
Contact - Steve Gurley
480.804.1469

Sep 16th - Boy Scout Troop 127 -- 8:00 PM St Francis Xavier School, 4715 N Central Ave, Phoenix Contact - John Kelly 602.264.6854

Sep 27th - Arizona ARC -- 7:00 PM
American Red Cross, 6135 N Black Canyon Hwy, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins - Pre-Registration Required



### SCOTTSDALE AMATEUR RADIO CLUB, INC.



Club Station: WA7APE

Club Repeaters: 147.78/.18 & 445.00/440.00

### Hello Everyone,

Summer is almost over. Can you believe that? It is time to start thinking about doing a little public service work and looking for the jackets. I am only kidding about the jackets.

Many of you were at the August meeting and were treated by Dennis Campbell's knowledge of batteries. Battery technology is changing almost as fast as computer. Everyone is looking for the way to give more power and make that radio last longer without a charge. Dennis gave us a great picture of not only your radio

batteries and how to care for them, but also those pesky car and boat batteries and how we can use them. If you weren't there, you missed it.

Come the September meeting, our program will be Mike Fulcher. (I think that is the way to spell it.) We don't know what the subject will be as he says, take pot luck. However, if you know Mike, he has a great station with all of the antenna farm we covet and that he is active in the Voo Doo DX club and does the DX pedition to Africa for the last umpteen years. I know he will be a winner.

I know that coming up is another program that David Zinder from the CARL club at the Science Center will present. David has taken a program that was presented to the public during the Titanic Display and has done a lot of technical research. He has expanded it to tantalize Hams that want to know what the Titanic was running and how it operated. Keep tuned. I know he is ready to present it, but I don't know which month

It is Monsoon season, so make sure that you have protected yourself from those lightning bolts. Also, maybe check the mounting of your antennas. I didn't and got lucky when my Vertical, which I am not supposed to not have, got blown off the roof. It

landed gently in a bush with no damage. We all say we are going to do it, but don't.

Keep tuned to the articles by Bob Burleson on the New CARL station at the Science Center. It will be a state-of-the-art station and an ambitious undertaking. I know that all of the cables and coax's have been moved and are ready for the connection to the new remotely controlled radios.

See you next month and don't forget to be at the September meeting.

Ralph KV0R ralphc35@earthlink.net



### **SARCCONSTANTS:**

SARC is a 501 (c)-3 club. That means all donations are fully tax deductible. Contact Paul Finnell, W7EFQ at 602.998.7024 for information on estate donations and equipment pick-up.

For membership information, call Terry Cross, NK7T at 480.969.8943. Please send address change requests to Terry no later than the 7th of the month in which you would like the change to occur.

To field check QSL cards for most ARRL awards, call Nick Sues, W7ZMD at 602.992.4133.



## www.thesignman.com 1-888-426-8241

**BADGES - CAPS - LICENSE PLATES & FRAMES** 

**3BER STAMP** 

The SignMan <u>of Baton Rouge</u> rick@thesignman.com

PATCHES - DECALS

P O Box 84107 Baton Rouge, LA 70884-4107

COLOR BADGES, DESKSTANDS, KEYCHAINS, MUGS

Specializing in SKYWARN, EM, RACES, ARRL, ARES& CD Items

### CQ CQ HAM RADIO OPERATORS

Great homes for sale in our Phoenix market, in great neighborhoods and if you're either looking to buy...OR perhaps need to sell ...feel free to call upon me to handle any and all of your real estate needs.

As YOUR Realtor ® ...we'll work together to sell your home for top dollar or purchase one for the best dollar your money can buy.

Stop by my real estate website for other services: www.azdezertproperties.biz





Phone: 602.576.0702 • E-mail: citynorthrealestate@yahoo.com

Call OR eMail Glenn (WA9TVB/10-10: 73394) for ALL your real estate needs. 73

# Old Pueblo Radio Club INTERMOD

### President's Column

The summer suspension of meetings of the Old Pueblo Radio Club is about to come to an end. Our first meeting of the fall will be at 1915 hrs (local) on Wednesday, 10 September 2008, in the Arizona Building on the Tucson Medical Center Campus. This is our usual time and place. Persons needing further information are welcome to call me at (520) 207-3852, my new phone number, or e-mail me at n7spw@arrl.net.

Our first matter of business will be preparation for the annual swap meet. The event has ARRL sanction and will be announced in QST and World Radio.

73, Ron Kalish, N7SPW President, OPRC



#### OPRC Repeaters 146.66 -PL110.9 W7GV autopatch/wide 146.82 -PL110.9 autopatch W7GV 147.22 -PL110.9 wide coverage W7GV RACES Repeaters 145.150 packet/wide N7OEM 146.880 - PL 110.9 wide coverage N7OEM 147.300 - PL 110.9 wide N7OEM 448.55 - PL 110.9 wide coverage N7OEM

### AUTOPATCH For the 146.66 repeater

- 1. Listen to insure the frequency is clear.
- 2. Press the transmit key and enter"\*". Then release key and listen for the code or tone.
- 3. As soon as you hear the tone, press the transmit key and say: "This is K\*7\*\*\*\* accessing autopatch" and without letting up on the transmit key, enter the local telephone number.

Please:

NO BUSINESS CALLS! WATCH YOUR LANGUAGE!

4. When you are finished announce:

"This is K\*7\*\*\* ending autopatch" then, without releasing the transmit key, press"#" for at least one second and then release the key.

### Application for El Tour de Tucson

November 22, 2008

The annual El Tour de Tucson event is coming. Join us along with over 3000 volunteers to make this event a very special one.

Name:	Call:
Address:	
Zip Code:	Telephone #:
All day:	morning: aft:
Radio:	HT:Mobile:
# ht batteries: _	antenna: rubber ducky:
	good one:

You can get the information on this form back to me via mail, fax, E-mail or phone.

Ted Willis AA7HX, Amateur Communications Coordinator

5649 E. 32nd St

Tucson, AZ 85711-6606 Tel#: 520.790.3828 Fax#: 520.512.1006

E-mail: tedaa7hx@cox.net



### 12 STORE BUYING POWER







### HL-1.5KFX

- Fully Solid-state 1 KW HF 650W 6m
- Built-in Power supply (110 or 220v)
   2 Ant ports selectable
- auto band switched w/ most ICOM/Kenwood/Yaesu tovrs

**CALL FOR ADDITIONAL THP PRODUCTS!** 





### KAM XL

- DSP modem offers great performance on Packet 300/1200, G-tor, Pactor, Amtor, PSK-31
- RTTY, Navtex, ASCII, Wefax, CW, GPS NMEA-0183 and more!

**Call Now For Special Pricing!** 



### KPC-3 Plus/KPC-9612 Plus

High-performance, low power TNC. Great for packet, and APRS compatible

**Call For Special Low Price!** 



### IC-R20 Wide Band Receiver

- Wide RX .150-3304 mHz SSB, CW, AM, FM, WFM
- 32mb digital recorder
- 1.000 memories
- VSC 100 ch/sec. scanning



### IC-R5 Wide Band Receiver

320.

- Wide RX .150–3309 mHz\*
- Alphanumeric labels
- DMS scan
   AM, FM, WFM



\*good thru 3/31/08

### IC-R3 Wide Band Receiver

- 500 kHz 2.45 GHz\*
- 450 Alphanumeric Memories
   CTCSS w/Tone Scan
- 4 Level Attenuator
- Telescoping Antenna w/BNC Connector
- · Lithium Ion Battery
- · 2" Color TFT Display Audio/Video Output
- Four Way Action Joystick
- PC Programmable w/Optional Cable & Software

\*cell bases blocked

\*816-901.965 MHz blocked, unblocked versions available to FCC approved users. FM video range for the IC-RS is 900-1300 MHz & 2250-2450 MHz



Detailed illuminated map shows time, time zone sun position and day of the week at a glance for any place in the world.Continuously moving areas of day and night change as you watch.

Mounts easily on wall. Size: 34 1/2" x 22 1/2".

Reg \$1595. SALE \$1299.95



### MA-40

40' Tubular Town

Call For Latest Pricing!

### MA-550

55' Tubular Tower Handles 10 sq.ft. at 50mph Pleases neighbors with tubular streamlined look

**Call For Latest** Pricing!

### TX-455

55' Freestanding Crank-Up Handles 18 sq. ft No guying required Extra-strength const. Can add raising and motor drive acces.

Towers Rated to EIA Specifications Other Models at Great Prices!

**TXXXXXX** 

Buy From HRO. World's Largest U.S. Tower Dealer

Shown with

Optional Rotor Base

### **Call For Latest** Pricing!

All US Towers shipped by truck; freight charges additional

West......800-854-6046 Mountain ... 800-444-9476 Southeast.....800-444-7927 Mid-Atlantic 809-444-4799 In Custom Northeast 809-544-4475 In Service Northeast.... New England : 800 444-0047



Look for the **HRO Home Page** on the World Wide Web

http://ewww.hamiradio.com/

AZ CA CO GA WA residents and mates fac. Prices, apenifications, subject to change without better

WAHEIM, CA (Near Disneyland) 933 N. Euclid St., 92801 (714) 533-7373 (800) 854-8046 Janet, KL7MF, Mgr.

BURBANK, CA 1525 W. Magno (818) 842-1786 dia Blvd. 91506 (800) 854-6048 Eric, KBEJG, Mgr. Magnolia between S. Victory & Buena Vista

OAKLAND, CA 2210 LWingston St., 94606 (510) 534-5757 (800) 854-6046 Mark, WITYN, Mgr. -880 at 23rd Ave. ramp

SAN DIEGO, CA 5375 Kearny Villa Rd., 92123 (858) 560-4600 (800) 854-6046 Tom, KM6K, Mgr Hwy, 158 & Charemont Mesa andlego@hamradio.com

SUMNYVALE, CA 510 Lawrence Exp. #102, 94085 (408) 736-9495 (800) 854-6045 Dan, K6DN, Mgr. So. from Hwy. 101

IEW CASTLE. DE 509 N. Dupont Hwy., 19720 302) 322-7092 (806) 644-4476 Rick, K3TL, Mgr. RT.13 1/4 mL, Sc. 1-295

PORTLAND, OR 11705 S.W. Pacific Hwy. 503) 598-0555 (800) 854-6645 Leon, W7AD, Mgr. Tigard-99W exit m Hwy. 5,& 217

DENVER, CO 8400 E. IIII Ave. #9, 80231 (303) 745-7373 (800) 444-9476 John, NSEHP, Mgr.

PHOENIX, AZ 1939 W. Dunlap Ave., 85021 (602) 242-3515 (800) 444-9476 Gary, N7GJ, Mgr. 1 mi east of I-17 phoenix@hamradio.com

ATLANTA, GA 6071 Buford Hwy., 30340 (770) 283-0760 (806) 444-7927 Mark, KJAVO, Mgr. Doraville, 1 mi. no. of 1-285

WOODBRIDGE, VA Near Weshington D.C.) 4803 Build America Dr. 22191 (800) 444-4799 Steve, W4SHG, Mgr. Exit 161, 1-95, So. to US 1

SALEM, NH (Near Boston) 224 N. Broadway, 03079 (603) 898-3750 503) 898-3750 8**00) 444-0047** huck, N1UG, Mgr. sales@hamradio.com Exit 1, I-93;