
W6VIO Calling



Jet Propulsion Laboratory Amateur Radio Club
PO Box 842, La Canada CA 91012-0842



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<http://jplarc.ampr.org>

March 2014

President:	Stephen Townes, WB4ILW	4-7525	EmComm. Mgr:	Christopher Carson, KE6ABQ	3-3888
Vice President:	Courtney Duncan, N5BF	4-8336	W6VIO Trustee:	Rob Smith, W6GRV	3-7937
Secretary:	Rob Smith, W6GRV	3-7937	W6JPL Trustee:	Eric Archer, N6CV	4-7350
Treasurer:	Chuck Sarture, KG6NF	4-2706	WR6JPL Trustee:	Jim Lux, W6RMK	4-2075
Director at Large:	Jim Marr, AA6QI	3-1528	WR6AZN Trustee:	Bill Wood, W6FXJ	760-256-9576

Upcoming Events:

- Every Monday: Emergency Communications Net: Noon, every Monday, on WR6JPL 224.08/(-)/156.7 & 445.20/(-)/103.5, or WR6AZN 223.96/(-)/156.7 on Table Mountain.
- JPLARC Board of Directors (BOD) meetings: Normally, the first working Friday, every month, from Noon to 1pm in 180-703C. Call-in: 818-354-3434 ID 7373. **Next is April 11th.**
- JPLARC Regular Membership meetings: Second working Friday every month from Noon to 1pm in 180-703C. Call-in: 818-354-3434 ID 7373. **Next is March 28th.**
- **QST, QST, QST: Regular Membership Meeting to be held Friday, March 28th at Noon in 180-703C (Telephone call-in: 818-354-3434 ID-7373). Guest speaker: Jim Marr AA6QI & Jan Tarsala WB6VRN on "CW - the why and the how".**

In this issue:

This issue covers:

- From the President.
- Feedback requested.
- 2014 Dues were due January 31st.
- 2014 Budget Approved
- February regular membership meeting (2/28).
- Board of Directors meeting (3/14).
- Emergency communications (cont'd).
- Seeking JPLARC committee members.
- ARRL Membership
- How to sign up for the JPLARC email reflector.
- For Sale.
- Future membership meetings & speaker topics.

From the President:

By Steve Townes WB4ILW

I am pleased to note that we currently have 44 JPLARC memberships so far this year and they continue to trickle in. This is a slight increase over the number from last year. Of course, there is still time for anyone else to pay his/her dues. It is worth noting however that even with the increase in membership, we have relatively low turnout at the General Meetings--usually <10. As a relatively recent returnee to the JPLARC, I would enjoy meeting those of you who I haven't met and renewing

old acquaintances. We try to have a featured talk for every meeting and I think you would enjoy them. Another reason for coming to the meetings is that we would like the club activities to reflect the membership desires and your participation would help that. I look forward to seeing you there.

Feedback requested:

By Jim Marr AA6QI

This issue of W6VIO Calling is the 12th consecutive monthly issue since the Club reinvigoration in 2013. Each issue takes anywhere from 10 to 20 hours to produce and get to you. That's ok as long as it is useful to you, the readers.

I've been involved with several clubs over the years. Some have newsletters, some don't. I don't think that there are any trends that I've noticed that would say why some have them and some don't.

The JPLARC has had a newsletter almost since its inception, with issues from June 1971 published on the JPLARC web site, <http://jplarc.ampr.org>. These provide a nice history of what the Club has been through over the years and is pretty fun to read if you've been around for some of it.

In this past year's issues, we've focused on activities associated with getting the Club active again after it had been idling for a few years, a process that is still

underway as we prepare for our first Field Day since 2010. Mostly, we've written what we would like to see if we were interested but otherwise relatively uninvolved (currently) readers; focusing mostly on keeping the membership informed.

But...we're not you. What we would like to hear from you is whether the content of or even the existence of the newsletter is useful to you. Should we continue publishing the newsletter? If so, are we writing about the things that are relevant to you as a Club member? Is there something else that you would like to hear about? Are there things in the newsletter that you'd rather we not waste your time with reading? Anything else?

Again, publishing this newsletter is a lot of work, so it needs to be relevant to what you as a reader would like to see, even if it's that you'd like not to see it at all.

Please send me an email with your thoughts. Thanks in advance for your feedback.

2014 Dues:

By Jim Marr AA6QI

The JPLARC Bylaws provide that annual membership dues are to be paid by January 31st of each year. So far we have 44 dues-current members for 2014, with a few 2013 members yet to rejoin for 2014. If you do intend to join or renew for 2014, please complete the membership application form located on the jplarc website at <http://jplarc.ampr.org/applic.pdf> and submit it with your annual dues to Rob Smith either in person at a meeting or at the mail address in the upper left corner of the application. We look forward to having your participation in the club for 2014.

2014 Budget Approved:

By Rob Smith W6GRV

In accordance with the JPLARC Bylaws, the proposed JPLARC 2014 budget was sent out to 2014 voting members and was approved by them. Per the Bylaws, expenditures within the approved budget are good to go but anything that exceeds the approved budget must be presented to the voting membership for approval.

Figure-1 shows the balance sheet (year starting balance + income - expenses = expected year ending balance). Figure-2 shows the approved expenses by category and line item.

February 28th Regular Membership Meeting:

By by Jim Marr AA6QI

Present were: Walt Ciszczon† KK6DUL, Steve Collins† AG6YR, Courtney Duncan† N5BF, Mark Lysek† AG6TD,

Item	Budgeted Amount
Starting CITCU Balance:	\$ 2,578.71
Income:	
Member dues (est 30 @ \$10; 10 @ \$5)	\$ 350.00
ARRL Membership retained fees (1@\$15; 2@\$2)	\$ 19.00
Sale of current club assets (WAG)	\$ 800.00
Expenses:	
From expense worksheet (next worksheet):	\$ (2,428.00)
Ending CITCU Balance (est):	\$ 1,319.71
Year Delta (end - start):	\$ (1,259.00)

Figure 1: Approved JPLARC 2014 Balance Sheet

Category	Item	Budget Amount	per
Miscellaneous Operating Expenses			
	Membership Card printing	\$ 20.00	yr
	La Canada Post Office Box	\$ 58.00	yr
	ARRL Membership	\$ -	
	AMSAT & VHF/UHF Coordinating Bodies ?	?	
	Subtotal:		
Equipment Maintenance & Repair			
	Antenna maintenance & repair	\$ 100.00	yr
	HF radio maintenance & repair	\$ 50.00	yr
	VHF/UHF radio maintenance & repair	\$ 100.00	yr
	Repeater maintenance & repair	\$ 100.00	yr
	Test equipment maintenance & repair	\$ 20.00	yr
	Other	\$ 100.00	yr
	Subtotal:		
Field Day			
	Porta Potty Rental (4 days @ WAG of \$20/day)	\$ 80.00	yr
	Permit(s) (assume none or no charge)	\$ -	yr
	Generator oil and gasoline WAG	\$ 50.00	yr
	Tent rental WAG	\$ 50.00	yr
	Food (assume potluck or contributions cover it)	\$ -	yr
	Cooking facilities (assume use donated by participants)	\$ -	yr
	Antenna materials (wire, guys, stakes, etc.)	\$ 100.00	yr
	Truck rental for transportation of equipment (JPL provides?)	\$ -	yr
	Logging Software (N1MM? Is it free?)	\$ -	yr
	Computer networking hardware	\$ 100.00	yr
	Subtotal:		
Internet Services			
	Hardware (CPU, Display, B/U services, cables, etc.) WAG	\$ 100.00	yr
	Software (linux, web maintenance, etc.) WAG	\$ 100.00	yr
	Subtotal:		
Equipment Acquisition:			
	Repeater (to improve WR6JPL coverage) WAG	\$ 300.00	yr
	HF station remote control hardware WAG	\$ 500.00	yr
	B35A Upgrades--Embedded PC	\$ 500.00	
	Subtotal:		
	Total:	\$ 2,428.00	

Figure 2: Approved 2014 JPLARC Expenses

Len Reder† KB6DVG, Chuck Sarture*† KG6NF, David Seidel† KC6NRL, Rob Smith†* W6GRV, Jan Tarsala† WB6VRN, Steve Townes†* WB4ILW. On the phone: Jim Marr†* AA6QI.

Note: † indicates a regular member, and * Indicates BOD member. For a regular meeting quorum, the JPLARC Bylaws require a majority of the BOD (4) and at least five other regular members, so we had a quorum.

President Steve Townes opened the meeting with a few procedural issues and a brief discussion of Club committees.

Jim Marr AA6QI provided a pretty long slide presentation discussing the current JPLARC equipment inventory, identifying individual pieces of equipment, where they're located, and what condition they're in.

The presentation began with a rationale for giving this talk that included four points:

- To communicate the results of our recent equipment inventory;
- Many of those who knew what we have are retired or otherwise no longer at JPL;
- Our ability to do anything with our current assets requires that our current membership know what we have, where it is, what condition it is in, and eventually either how to effectively use it or decide to sell it.
- We plan to continue selling older equipment that is no longer being effectively used in order to be able to acquire new equipment for projects that are of current interest to Club members.

Next, equipment items were introduced by category, ordered as in the Excel inventory file itself. Categories included: Repeaters; other VHF/UHF; HF; Antennas; Power supplies; Computers; Test equipment; and Misc. Within each category, pictures of the equipment were provided along with locations and operational status.

The locations where equipment is located were described next. First, a map (originally developed by N6CV) showed where the locations are located, followed by pictures of the interior of each location pointing out some of the equipment in that location.

Finally, a table was presented that summarized the operational capabilities for HF, VHF/UHF, Repeater, and emergency power at buildings 173, 310, 180-R6, the Communications Van, cabinet 35A, and Table Mountain.

Anyone wanting a copy of the presentation should contact Jim Marr directly at aa6qi@mac.com.

BOD Meeting March 14st

By Rob Smith W6GRV, edited by Jim Marr AA6QI

Present: Bob Dengler NO6B, Jim Marr* AA6QI, Rob Smith* W6GRV, Jan Tarsala WB6VRN, Bill Weber N6CI.

Phone: Steve Townes* WB4ILW, Bill Wood W6FXJ.

* indicates BOD member; a BOD quorum was NOT present (requires 4 of the 6 BOD members to be present).

Treasurer's report – Chuck Sarture KG6NF:

Beginning Balance: \$ 2,705.71

Deposits: + \$ 150.00 – 2014 membership dues

Withdrawals: - \$ 0.00

Ending Balance: \$ 2,855.71

Note that equipment sales income (see below) will be included in the March Treasurer's report.

2014 JPLARC Budget Approval – Rob Smith: Rob reported that the proposed budget has been approved by the voting membership. [*ed.- see the earlier article in this issue.*]

Equipment Sales - Jim Marr: Have sold all except 7 items. Jim will be taking the remaining items to the TRW Swap Meet on March 29th. The most significant item remaining to sell is the Dentron Clipperton-L HF power amplifier (160-10m, legal limit). So far, the sales have resulted in \$1,174.00, significantly more than the anticipated \$800.00 that is in the approved 2014 balance sheet [*ed.- see Figure-1 in this newsletter*].

Guest speakers for general meetings: Jim Marr provided a list of tentative speakers for the remainder of the year. [*ed.- see the end of this newsletter for this list.*]

Committees: Jim Marr and Steve Townes agreed to get together next week to discuss committee chair selections.

Membership Cards: Bill Weber N6CI asked about membership cards. Rob Smith reported that some had been distributed at the February Club meeting and agreed to send the remainder out by mail.

Building 35A: Jan Tarsala WB6VRN mentioned that Jim Lux (who wasn't able to make today's meeting) is seeking BOD approval to procure a mini form factor industrial windows based computer for 35A. Since Jim wasn't at the meeting and we didn't have a BOD quorum, this was tabled. Steve Townes mentioned that this may be in the approved budget already [*ed.- it is*].

Extending 224.08 & 445.20 coverage: Bob Dengler NO6B and Jan Tarsala WB6VRN gave an update on the plans to put remote receivers on Mt. Wilson to provide better receive coverage for these two repeaters. The also reported that the background noise on 2m at Mt. Wilson is too high to make doing the same thing for the 147.15 repeater feasible.

The plan is to put a couple of receivers Midland 13-509 receivers sharing a single Comet CX333 antenna in a building on Mt. Wilson that has internet connections. Some of the details of the Opus codex, transport engine, and the receive feed still need to be worked out (e.g., how to combine signals at 35A: is it best to use a voter or to use separate receive PLs at 35A and Mt. Wilson]. Jim Lux has agreed to find the tcp/ip transport engine. It is intended that the link always be active with 32kbps or 64kbps down to the repeaters in 35A.

To make this work, will also likely need to increase the transmit power at 35A. We have a 220W Henry amplifier that could be used for 224.08 MHz but only have a 100W amp for 445.20 (the Crescend that was intended to be used with the new Kenwood NXR-810 440 machine that hasn't been put up yet).

Jan Tarsala is working to have internet connections installed in 35A that will enable this scheme and perhaps provide the capability for a remote control HF transceiver at 35A in the future.

Emergency Power: Will Michael KC6LOK has offered to put one of the USAR generators up at 35A to supplement the batteries that are already there. At this point we don't know the type of generator (gas or diesel) and the required maintenance. It was suggested that Chris Carson be tasked with working this out with Will Michael.

HF noise in 310-106: We discussed the white noise on 80m & 40m in the newly installed TS-850SAT. Bob Dengler has an analyzer that may help in the troubleshooting and agreed to also find a battery to power the TS-850SAT to make sure that noise isn't coming in through the power supply. It was also suggested that we terminate the coax coming down from the DX-CC antenna on the roof with a dummy load and then check the radio's noise level. Jim Marr, Jan Tarsala, Steve Townes and Bill Weber also expressed interest in participating in the troubleshooting. Jim agreed to schedule the troubleshooting for an RDO in the near future.

W6VIO Calling: Jan Tarsala and Bob Dengler reported that they are working on a 'definitive' article for W6VIO Calling on squelch and squelch access for repeaters. Jim Marr mentioned that he plans to include in the March issue a request for feedback from readers on the efficacy of the newsletter over the past 12 months.

The meeting adjourned at 1:05 PM.

JPL ARC EmComm

By Jim Marr AA6QI

As advertised last month, I'll describe the contents of the various NIMS and ARRL courses related to emergency communication. The NIMS courses are available for free online at: <https://training.fema.gov/IS/NIMS.aspx>. The First Aid and CPR classes will be offered weekly on Tuesdays beginning April 7th through the JPL Protective Services Division at: <http://opsweb.jpl.nasa.gov/web/operations/cpr.php>.

The ARRL Introduction to Emergency Communications course is available online through ARRL at: <http://www.arrl.org/online-course-catalog>. JEARS served-agency training will be offered in the near future.

It has been recommended that one should take the NIMS courses IS-700, IS-100, IS-200 and IS-800, in that order, so I'll describe the contents of these courses also in that order.

IS-700, National Incident Management System, an Introduction. This course introduces and overviews the National Incident Management System (NIMS). NIMS

provides a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents. The course has six sections, as follows: (1) Understanding NIMS; (2) NIMS Preparedness; (3) NIMS Communications and Information Management; (4) NIMS Resource Management; (5) NIMS Command and Management; and (6) Additional NIMS Elements and Resources. The objectives of this course are to: describe the intent of NIMS; describe the key concepts and principles underlying NIMS; describe the purpose of the NIMS components; and to describe the purpose of the National Integration Center. The course provides a basic introduction to NIMS and is not designed to replace Incident Command System (ICS) and position-specific training.

ICS 100, Introduction to the Incident Command System, introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features and principles, and organizational structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). The course has five sections, as follows: (1) Course welcome and ICS overview; (2) ICS features and principles; (3) Incident commander and command staff functions; (4) General staff functions; and (5) Unified command. After completion of this course, you should be familiar with ICS: Applications; Organizational principles and elements; Positions and responsibilities; Facilities and functions; and Planning.

IS-200, ICS for single resources and initial action incidents. ICS 200 is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). ICS-200 provides training on and resources for personnel who are likely to assume a supervisory position within the ICS. The course has seven sections, as follows: (1) Course overview; (2) Leadership and management; (3) Delegation of authority and management by objectives; (4) Functional areas and positions; (5) Briefings; (6) Organizational flexibility; and (7) Transfer of command. Course objectives are: to describe the Incident Command System (ICS) organization appropriate to the complexity of the incident or event; and to use ICS to manage an incident or event.

IS-800, National response framework, an introduction. The course introduces participants to the concepts and principles of the National Response Framework. At the end of this course, you will be able to describe: the purpose of the National Response Framework; the response doctrine established by the National Response Framework; the roles and responsibilities of entities as specified in the National Response Framework; the actions that support national response; the response

organizations used for multiagency coordination; and how planning relates to national preparedness. The course has six sections: (1) Overview; (2) Roles and Responsibilities; (3) Response Actions; (4) Response Organization; (5) Planning; and (6) Additional Resources and Summary.

ARRL Introduction to Emergency Communication.

This on-line course (EC-001) is available on-line at the link provided earlier (\$50/members; \$85.00/non-members; takes ~45hrs & must be completed within 9wks; is mentored, has exercises & has a 35 question final exam). Also available from the ARRL as a 316-page book (\$25.00) for self-study with separate \$15 test. The book organizes 29 topics into six sections. These sections and topics are as follows:

Section 1: The framework: how you fit in;

- Introduction to Emergency Communications
- Amateurs as Professionals
- Network Theory and Design
- Emergency Communication Organizations and Systems
- Served Agency Communication Systems
- Working Directly with the Public

Section 2: Networks for messages

- Basic Communication Skills
- Basic Net Operations
- Introduction to Emergency Nets
- Net Operating Guidelines
- FCC Ruling on Drills and Employees
- The Net Control Station
- Net Control Station Operator Practices
- The Net Manager
- Introduction to the National Traffic System
- Specialized Nets and Their Operations
- Severe Weather Nets

Section 3: Message handling

- Basic Message Handling – Part 1
- Basic Message Handling – Part 2

Section 4: What happens when called

- The Incident Command System
- Preparing for Deployment
- Equipment Choices for Emergency Communication
- Emergency Activation
- Setting Up, Initial Operations and Shutdown

Section 5: Considerations

- Operations and Logistics
- Safety & Survival
- ARES PIO: The Right Stuff
- Alternative Communication Methods
- What to Expect in Large Scale Disasters
- Hazardous Materials Awareness
- Marine Communications

Section 6: Alternatives and opportunities

- Modes, Methods and Applications
- Other Learning Opportunities

First Aid and CPR: Most should be familiar with the content of these courses so I won't describe them here. The need for these is that JEARS, ARES or CERT team members are likely to be nearly first responders, making these skills highly desirable.

JEARS Specific Training: The content of this training is still to be determined but current thinking is that it will likely be modeled around the ARRL Amateur Radio Emergency Service (ARES) model with JPL as the Served Agency. You can learn about ARES at <http://www.arrl.org/ares>.

All JPLARC members are encouraged to pursue all of the training listed above so that they can become effective members of any emergency response team that they may become involved in following a major incident (e.g., large earthquake), whether that emergency response team is JEARS, a local Community Emergency Response Team (CERT), a local ARES group, or some other team.

Recall that Will Michael KC6LOK in JPL Protective Services, requested that JPLARC members forward copies of completion certificates for the above NIMS, first aid, & CPR training courses to him for JEARS team member record keeping.

Next month, I'll discuss the Incident Command System (ICS), the NIMS's organizational structure for incidents and events. The ICS is fully scalable from tiny to gargantuan incidents or events. The fact that the ICS is also a model for events of any kind, gives us all an opportunity to practice using the ICS model for any activity that we undertake as a club. I'll use Field Day in my discussion next month as an example event to make the discussion more directly relevant to near term JPLARC events.

Seeking JPLARC Committee Members:

By Jim Marr AA6QI

Like all clubs, the JPLARC relies upon the efforts of a number of committees to handle various aspects of the club's operations. They are an easy way to begin to get involved in something that interests you without having to jump right into an elected position.

Our Bylaws (new version) identify seven standing committees and there are at least six other committees that operate periodically. Plus, if you don't like one of these, create your own to work on something that interests you (e.g., satellite, 10GHz, special projects, or you name it) and have some fun working with other Club members.

The seven standing committees listed in the Bylaws are: Education; Publicity; Repeater; Station Facility; Emergency Communications; Internet Services; and Field Day. Other committees are: Club bulletin (i.e., W6VIO Calling); Meeting programs; Public/special events; Refreshments; Historian; Holiday banquet. We currently especially need help with Internet Services.

The following is a brief description of what these committees do in order to help those considering volunteering for one or more of these committees to get some idea of what they might be doing there.

Repeater Committee: Leads the operation, maintenance, and improvement of the club's several repeater systems. A major activity for 2014 will be improving the coverage of the repeater systems that were moved from Cerro Negro to enclosure 35A on the West end of the JPL Mesa.

Station Facility Committee: Leads the operation, maintenance and improvement of the club's non-repeater capabilities (HF, VHF, UHF, Satellite, Digital, etc.). Planning and coordinating the move to a new location for the club's primary station in building 173 will likely be a 2014 focus.

Emergency Communications Committee: Leads the coordination with the JPL Emergency Amateur Radio Service (JEARS) that is run by JPL's Protective Services organization. JEARS is envisioned to be modeled after the ARRL Amateur Radio Emergency Service (ARES) with JPL as the 'served agency'. Getting JEARS up and running is likely to be the focus of this committee in 2014. See the EmComm article earlier in this newsletter.

Internet Service Committee: This committee leads the club's internet presence. This presence includes JPL maintained websites, the jplarc.ampr.org web pages, the jplarc email reflector, and a location for storing presentation materials (formerly the jplarc wiki that is currently off-line). These services are closely coordinated with the WR6JPL IRLP/Echolink node running on the same computers. Significant issues for 2014 is the aging set of server computers in 180-R6: should these simply be upgraded or should we move to a more maintainable structure such as hosting on external sites such as Yahoo or similar.

Field Day Committee: Lead the preparations for the club's annual Field Day (FD) participation in June of each year. While FD comes only once per year, preparation and afterword activities take much of the year.

Club Bulletin Committee: Leads the preparation and distribution of the monthly W6VIO Calling club newsletter.

Meeting Programs Committee: Arranges for guest speakers at each of the club's monthly regular membership meetings.

Public/Special Events Committee: Coordinates the club's participation in public service events (races, parades, etc.) or special events (significant JPL events like Mars landings that are likely to be widely known by the public, where we put a special event station on the air). We haven't done any of these in a while and it would be good to get some going again.

Education Committee: Provides leadership coordinating club training, including licensing training and exams. Volunteer Examiner credentials are a plus for this committee but not necessary. We hope to get some classes and exams for JPL'ers going this year.

Publicity Committee: Provides a focus for outreach and JPL awareness.

Please consider volunteering your support to one or more of these committees (or another of your choosing). Just let any club officer know of your interest and they'll get you in touch with others interested in that committee. Thanks in advance.

ARRL Membership:

By Jim Marr AA6QI

As an ARRL affiliated club, at least 51% of our membership must be ARRL members. Today, we have 61% as either Life (7) or Regular (20) ARRL members. That leaves 17 2014 members who are not ARRL members. While there are no requirements to maintain ARRL membership, there are some clear advantages to having ARRL membership. Some of these are:

- Receiving the monthly QST magazine and having access to all back issues electronically.
- Being able to subscribe to the electronic monthly Amateur Radio Emergency Service (ARES) newsletter that may be of interest to members who wish to stay current on emergency communications.
- Member discounts on materials and training. For example, the ARRL Introduction to Emergency Communication Course is \$85 for non-members but only \$50 for members.
- You support ARRL, the only significant amateur radio advocacy organization in the U.S. that is fighting to protect our access to the airwaves.

Should those of you who are not already members and may wish to join, please do so through the Club rather than joining directly through ARRL. Why? If you join through the Club, the Club retains \$15 of your membership fee to support Club activities. From your point of view, the membership fee is the same either way. Even if you are an annual member who is just renewing, doing so through the Club nets the Club \$2, again, without changing your costs at all.

To renew through the Club, see Rob Smith, our Secretary who will help you with the paperwork.

Thanks in advance for considering joining ARRL.

How to sign up for the JPLARC email reflector:

By Jim Marr AA6QI

The JPLARC maintains an email reflector (also called an email exploder) that allows members to post questions or comments that will reach the entire JPLARC membership. Only subscribed members can post to this reflector, avoiding spam from non-members, and can only do so from their subscribed email address. Sign up using the form located at <http://wr6jpl.ampr.org/mail-man/listinfo.cgi/jplarc>. Recently, we have been automatically adding all current members of the club as they join or renew.

For Sale

By Jim Marr AA6QI

As reported last month, the JPLARC membership approved selling a number of JPLARC equipment items as shown in last month's issue Figure-13. At the time of this writing, nearly all of the equipment has been sold, with only seven items remaining, as listed below. A .pdf is available (call or email me) that provides one page descriptions of each remaining item. I am planning to make these items available through various channels in SoCal, so if you are interested in any of them, please make your offer to either me or to our Treasurer Chuck Sarture KG6NF, sooner rather than later.

Items remaining for sale include:

- Dentron Clipperton-L HF Linear Amplifier (160-15m, with the 10m mod). Drive requirement is 60-150 watts for 2kW SSB PEP or 1 kW CW output via four 572B finals. Operates on 117 or 234VAC. Asking \$400.00 or best offer.

- Realistic DX-300 Communications Receiver. General coverage receiver, DC to 30MHz. Asking \$25.00 or best offer.

- Down East Microwave, Inc. Model 432-28 (70cm to 28MHz transverter) - which could allow you to work 70cm CW, SSB, and even FM if you do not have an all mode 432MHz rig available. Asking \$50.00 or best offer.

- MFJ-8621 VHF Data Radio 2m/9600Baud (with power supply and xtals for 145.09MHz - which, paired with a TNC and computer, could give you a way to get on 2m packet radio. This is still a current MFJ product that sells for \$189.95+tax+S&H. Looks brand new, still in original box. Asking \$25.00 or best offer.

- Quantity=2, Cushcraft 13 element 220MHz Yagi Antennas. Asking \$50.00/each or best offer.

- Telex V-220 Headset. Asking \$20.00 or best offer.

We expect that additional items will be offered for sale later in the year, all to generate funds for new Club projects (like remote HF and others).

Your wants or gear for sale?

Send your listing to me (Jim Marr via email or snail mail at 180-704) and I'll see that it gets into the next issue.

Future Meetings

By Jim Marr AA6QI

All JPLARC meetings are being held on non-RDO Friday's from Noon to 1 PM in 180-703C. Call in is via MeetingPlace 818-343-3434 with ID 7373. Slides, if any, will be broadcast via <http://meetingplace.jpl.nasa.gov> also with ID 7373. Upcoming talks (subject to change):

March 28th: Jim Marr AA6QI and Jan Tarsala WB6VRN on CW-the why & the how.

April 25th: Mike Tope W4EF on Remote Station Control.

May 23rd: TBD Introduction to digital communications.

June 20th: Rob Smith W6GRV will lead the Field Day committee reports (final meeting before Field Day itself).

June 28th: Field Day at TBD.

July 18th: Field Day pictures and lessons learned discussion. Initial planning for 2015 Field Day.

August 15th: TBD will discuss Interfacing your radio to your computer, computer logging, & electronic QSL'ing.

September 26th: TBD will discuss the new 2.4GHz Broadband Hamnet (formerly known as Ham Meshnet).

October 24th: WB5ILW, Software Defined Radios & introduction to the 2015 Officer Nominating Committee.

November 21st: N5BF, Bicycle Commute APRS & Introduction of 2015 Officer Candidates.

December 19th: Club holiday celebration at TBD.

Advertisements:



<http://www.hamradio.com>

The Burbank HRO store is offering a 5% discount on ham radio "accessories" to JPLARC members, upon presentation of a valid JPLARC membership card.