



May 2005

Fresno Amateur Radio Club Newsletter Volume 66, Issue 5

Our next general meeting will be held on May 13th at Cedar Lanes at Cedar and Shields. The meeting starts promptly at 7:00 pm. The next board meeting is May 2nd at the Woodward Park Library at the corner of Perron and Champlain. That meeting also starts promptly at 7:00 pm. We'd like to see everybody at the general meeting for some good fun. See you there!

FARC General Meetings
are the 2nd Friday of each month,
7 p.m. at Cedar Lanes unless otherwise noted.

2005 FARC BOARD MEETING DATES
AT 7 PM—Woodward Park Regional Library
May 2nd

FARC Nets
Morning Drive Time Net:
Weekday mornings-7:30—8:00 a.m.
W6TO/R 146.940 PL-141.3

Tech Net:
Wednesdays @ 7:00 pm
W6TO/R 146.940 PL-141.3

FARC Net:
Sundays @ 7:00 pm
W6TO/R 146.940 PL-141.3

The Prez Sez

Spring is here, or at least trying to get here. Its warming up and now its time to start working on those outdoor projects.

We have had great turnouts at the club meetings. Thank you all for coming. We not only have great programs, we have a lot of fun too.

Thanks to all the net controllers who help keep the nets running smoothly! While I can not attend the FARC Sunday night net due to work conflicts, I do hear that it's popular and check ins have increased. Thanks to Ted K6FGE for running the Morning Drive time net. It is a great service to valley amateurs during their commute. You may even get some good information for camping or fishing or maybe a recipe too!.

Hamfest this year will be held August 13th at the Fresno State Student Satellite Student Union. We need people to help with the planning and operation of this years Hamfest. If you can help, please contact Lisa, KG6SZA or Marcus KG6QNY.
See you all at the May meeting...

Rob - AE6GE

Starting in the next issue of Skip will be updates on the progress of the Fresno Amateur Radio Club Hamfest. Everything is moving along quite well. Lisa Nelson KG6SZA and Marcus KG6QNY will be writing the updates stay tuned for more information!

2005 FARC BOARD OF DIRECTORS

President:	Rob Mavis	AE6GE	ae6ge@w6to.com	360-2505	12/31/06
Vice-President:	John Morrice	K6MI	k6mi@w6to.com	275-7373	12/31/05
Secretary:	Dave Smith	W6TE	w6te@w6to.com	323-6095	12/31/06
Treasurer:	Jim Nelson	W6ALE	w6ale@w6to.com	447-5422	12/31/06

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Ken Holden	WA6OIB	wa6oib@w6to.com	323-6753	12/31/06
Rick Fornes	KA6Y	ka6y@w6to.com	281-4116	12/31/06
Paul Lambert	W6WYT	w6wyt@w6to.com	240-8519	12/31/06
Dan Pruitt	AE6SX	ae6sx@w6to.com	779-2974	12/31/05
Ted Miller	K6FGE	k6fge@w6to.com	431-1441	12/31/05
Marcus Beedle	KG6QNY	kg6qny@w6to.com	360-7444	12/31/05
Tom Jarvis	KG6KYU	kg6kyu@w6to.com	916-2445	12/31/05

Lunch Gathering
 Every Thursday at
 12:00 PM

Silver Dollar Hofbrau:
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Breakfast Gathering
 Mondays and Saturdays
 Country Waffles
 Blackstone and Dakota
 7:00 AM



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ARRL Field Organization - San Joaquin Valley Section:

- Chuck McConnell, W6DPD, Section Manager
- Bob Hervatine, W6FRH, Assistant Section Manager
- Victor Magana, N1VM, Official Observer Coordinator
- Barbara J Gardiner, KE6IGJ, Public Information Coordinator
- Marie S Thompson, N6ZFN, Section Emergency Coordinator
- Fred B Silveira, K6RAU, Section Traffic Manager
- David Smith, W6TE, Section Technical Coordinator
- Rick Fornes, AF6Y, Technical Assistant (Fresno Area)

AMSAT Field Organization:

- David Smith, W6TE, AMSAT AREA Coordinator

Club Contacts

Field Day Committee Chairman:

Dave Smith W6TE323-6095

Education/Scholarship Chairperson:

Lisa Nelson KG6SZA447-5422

Hamfest Co-Chair:

Lisa Nelson KG6SZA.....447-5422

Marcus Beedle KG6QNY360-7444

Net Manager

John Morrice K6MI275-7373

SKIP Newsletter Editor:

Jim Nelson W6ALE.....447-5422

Tech Committee:

Ken Holden WA6OIB.....323-6753

Dave Smith W6TE.....323-6095

Rick Fornes KA6Y.....281-4116

Paul Lambert W6WYT.....240-8519

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Local Amateur Radio Repeaters

<i>Organization</i>	<i>Call sign</i>	<i>Location</i>	<i>Freq</i>	<i>Offset</i>	<i>Tone</i>
AARC	WB6QDN	FRESNO	146.610	-	NONE
CARP	K6ARP	MEADOW LAKES	147.675	-	141.3
CARP	K6JXL	MEADOW LAKES	224.380	-	141.3
CARP	N6VYT	MEADOW LAKES	444.725	-	141.3
CARP	N6JXL	MEADOW LAKES	1286.300	+	141.3
CCAC/WIN	K6JSI	MEADOW LAKES	146.790	-	141.3
CCAC/WIN	K6JSI	MEADOW LAKES	444.250	+	141.3
CONDOR	WB6BRU	MADERA	224.900	-	156.7
FARC	W6TO	MEADOW LAKES	146.940	-	141.3
FARC	W6TO	MEADOW LAKES	223.940	-	NONE
FARC	W6TO	MEADOW LAKES	444.200	+	141.3
K6SIX	K6SIX	MARIPOSA	441.350	+	107.2
KARC	W6EMS	FRESNO	440.675	+	110.9
KARC	W6EMS	FRESNO	1286.475	-	110.9
KINGS ARC	KA6Q	HANFORD	145.110	-	100.0
MADERA ARC	W6WGZ	OAKHURST	147.180	+	146.2
MADERA ARC	W6WGZ	OAKHURST	441.175	+	146.2
MTS	N6MTS	FRESNO ST.	145.23	-	141.3
QCWA	WQ6CWA	FRESNO	146.85	-	141.3
QCWA	WQ6CWA	FRESNO	443.25	+	107.2
RACES	N6HEW	FRESNO	147.150	+	141.3
W6DCP	W6DCP	PARKFIELD	147.24	+	NONE



What is W6YEP up to?

- A. DANG!...the cooling fan has quit. I've got to cool that projection lamp somehow or it'll burn out!
- B. Now's my chance to zap this thing and nobody will ever figure out what happened!
- C. Having great fun at the Fresno Amateur Radio Club meeting!
- D. All of the above!

Congratulations goes to Chuck w17cw for properly getting the blooper right. The answer was the morse code in the picture was oso and not sos ... - - - ... not - - - ... - - -

W6TE's Column

Hamfest....Many thanks to Marcus, **KG6QNY**, and Lisa, **KG6SZA**, for their contributions in procuring the Fresno State Student Union Building for our upcoming Hamfest. We are all looking forward to it.

Field Day: the last full weekend in June, 25th, 26th. Things are shaping up! Field Day will be at the Pine Ridge School this year. Thanks Ken, **WA6OIB**, for securing the school this year. We will be putting on a short program outlining this year's strategy at the next club meeting.

Important Challenge... the CW and SSB station Captains are Jim, **WS6X**, and Bob, **W6FRH**. Jim is in charge of the CW station and Bob is in charge of the SSB station. Jim has lined up 4 of the hottest CW operators in the Valley that will be operating the CW station with these four super ops! Their CW competition speeds are around 30 – 35 WPM and they can continue at this rate for several hours each! Their contest rate is phenomenal! There has been a challenge thrown down by Jim, **WS6X**. Jim says that he and his three super CW ops can whip the pants off of the phone guys by a mile. He has challenged Bob to sort of a friendly dual..... Further, Jim is so confident in his ace team, he is willing to relinquish the FT-1000MP V (150W, maximum power allowable for our FD class) that CW used last year, for last year's SSB radio, the IC-756 PRO II (only 100 watts). Hear that, you MIC jockeys? Are you ready to make Jim eat his words?

Holy Moly! I've never heard Jim talk that way!... Mic jockeys!!!!...since I'm not the CW op that these CW binary nerds are, I've decided to see if Bob can use my contesting experience on the SSB station. The SSB station needs good phone operators who can commit and rise to the occasion! Bob needs your help to let these CW ops know that there are some HOT phone ops out there as well. At the end of the day, the CW binary nerds will be crying for the mercy from us SSB'ers! I'm sure of it! I'm sure we can whip these Chop **Wireless** nerds with one mic cord tied behind our backs!

There will be some sort of reward for the winners of this contest between the CW and SSB teams. I think there's a perpetual trophy to the team leader who wins this internal competition

Stay Posted... more to come.

Raffle: ... The FARC has a very nice Antenna Analyzer that will be raffled off at the annual club picnic in July. The MFJ 269 Analyzer covers the frequency range between 1.8 MHz to 170 MHz and 415 Mhz. to 470 MHz. Tickets can be purchased at \$5 each and can be obtained from the FARC Board members. I've always been very lucky and feel that my package of 10 tickets contains the lucky ticket! I don't have any actual proof of that but I have this eerie feeling... I'm sure that I have the lucky ticket! My luck has to change as I didn't win anything at Visalia! You can buy tickets from other club members and me at the club meeting.

Visalia DX Convention..... was a lot of fun and another success! It was a real pleasure to attend the World's largest DX Convention! The Northern CA DX Club did a great job in hosting the convention. It was enjoyable to meet and listen to the DX'ers who we have all read and followed throughout the past year. If you are interested in working DX and you've never been to the Visalia DX Convention, you're missing out! I met and talked to Martti Lane, Charlie Harpoole, Bharathi, **VU2RBI** and Prasad, **VU2DBP** (of **VU4NRO/VU4RBI** Andaman fame), **NOAX**, **K2ZZ**.

Visalia is 45 miles from my house! How could anyone in the local area, interested in DX, not show up for this event! I was unable to obtain last minute accommodations in the area over the weekend and wound up hosting the developer of the famous contest station in Monterey, CA, Pat Barthelow, **AA6EG** and Assistant Chief Engineer of the Stanford Univ. Contest Station, **W6YX**, John Shalamskas, **KJ9U**.

The Sunday morning Key note speaker was Martti Lane. Martti's message was there were very few younger Hams attending the conference! Martti found only 3 hams out of over 600 attendees under 18 who were in attendance. They were invited to sit with him at his table. Martti challenged the rest of us to bring younger hams into the hobby. The Southern CA DX Club made a declaration that anyone who brings a ham under 18 to next year's convention will be given a free ticket to the conference. That's a savings of \$65!

Editors Note:

*I'd like to thank Richard Pack **KE6SHL** for doing a such a great job of taking pictures of the club meetings. Thank You!!*

Hams Helping Hams On Saturday, April 9th volunteers met at Ed and Betty Peters old house to remove antennas, towers and a wooden power pole. Those present that helped out were **Ken Holden, WA6OIB; Tom Jarvis, KG6KYU; Ted Miller, K6FGE; Paul Sullivan, W6VPS; Ted Freitas KE6YJC; Bob Sawyer, KF6FIG; Darrin Land, KG6YLE; Jim Erbe, WA6NIF.**

Thanks guys for your service to the club!

Calendar for May:

May 7th - 8th. Project Oscar Symposium – San Mateo
 May 13th – FARC Club Meeting
 May 20th – 22nd - Dayton Hamvention
 May 28th, 29th – CQ World Wide Prefix Contest

New Hams... The club now has 116 paying members and 10 lifetime members for a total of 126 memberships. A big congratulation goes to Gary Davis, KG6YYS, for his new license! Welcome to the club and to Amateur Radio.

Older Hams... (Notice I said Older Hams, not Old Hams). If you've held an Amateur Radio License for 25 years or more you are welcome to join the Quarter Century Wireless Association (QCWA). Contact President Mike, **W6YDE**, VP Pat, **W6YEP** or Sec/Tres Charles, **W6DPD** for details.

Moonbounce/Satellite Operations: The team of RW3BP, AD6FP, W5LUA, and VE4MA announced that the first 47 GHz contacts via the moon have been completed. As of April 16, 2005 the team of AD6FP, W5LUA and VE4MA have each completed a CW QSO via the moon with RW3BP. Since the doppler shift can be as much as 100 + kHz at 47 GHz, one must continuously adjust the receive frequency to keep the station centered in the passband. Various techniques were in use to keep the Doppler

shifted frequency in the passband of the receivers. Precision frequency control was obtained by using local oscillators which were GPS controlled, Rubidium locked, or TV sync controlled.

Lunar Trivia: Between the Moon's Perigee and Apogee there can be as much as 5 dB difference in signal!

Last Month's Brain Teaser:

In polar coordinates, what is the impedance of a network comprised of a 120 pf capacitor, a 62 uH inductor and a 500 ohm resistance at 52.000 MHz, all connected in series? What is the Q of the circuit? Answer $Z=500.6 \Omega$ $\theta=2.9^\circ$ Capacitive reactive (leading). The solution can be found at www.w6to.com

New Brain Teaser

This months brain teaser comes from a question at the Visalia DX Convention's "Jeopardy" contest.

$V_{cc} = 20 \text{ VDC}$

$I_c = 50 \text{ Amp DC}$

Efficiency = 50%


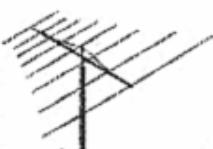
Feedline loss to antenna is 3 dB

What is the power to the antenna from this amplifier? Every correct answer will get credit in SKIP and receive a Snickers Bar from W6TE!

Please e-mail me at w6te@comcast.net or phone me at 323-6095 and let me know what you would like to see in this column.

73,

Dave / W6TE

Michael B. Staal K6MYC
Vice President/Designer

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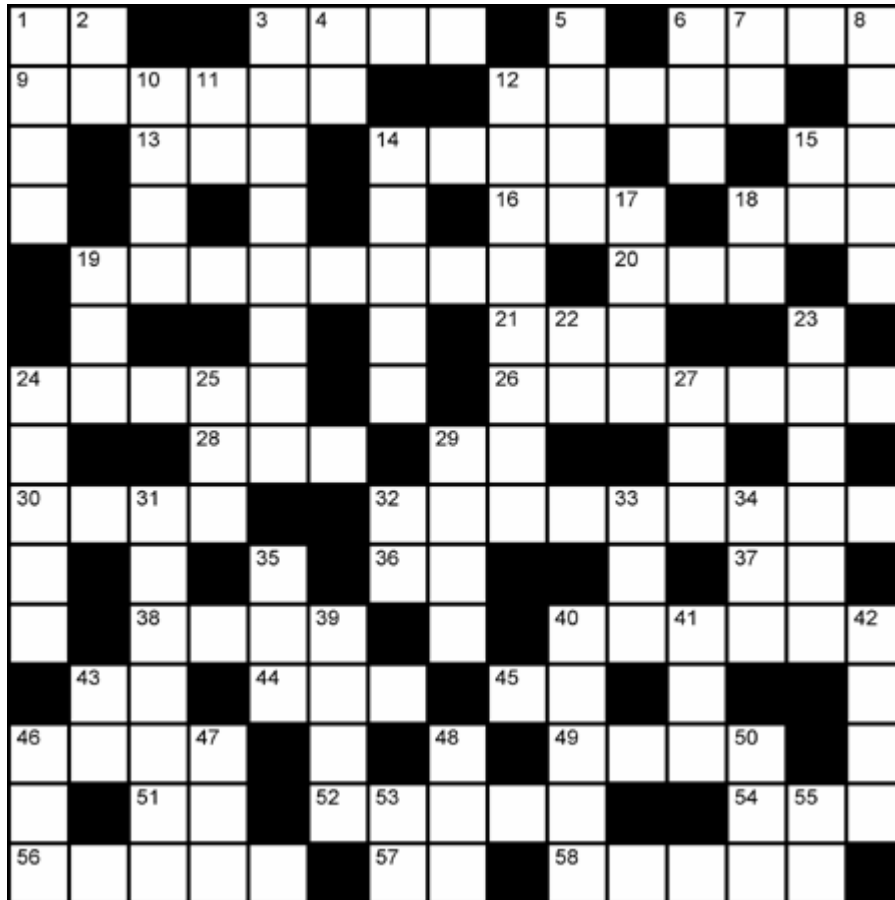


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CQ Field Day Crossword Puzzle

**Across**

1. Rarest California section
3. Shows which way the wind blows
6. Vitamin R
9. Eating outdoors
12. Extra points for special accomplishments
13. Station that sends bulletins (abbr)
14. Wattmeter element
15. First company to produce integrated circuits (abbr)
16. Records Field Day QSOs
18. Old abbreviation for frequency
19. Antenna perpendicular to ground
20. The clothes you wear to Field Day

21. What operators do when they're hungry
24. Required to run radios
26. Messages sent by radio
28. Orbiting eye in space (abbr)
29. Telegrapher's laugh
30. Murphy defies these
32. Turns fuel to electricity
36. Delta Division section
37. Complementary to an R-C circuit
38. Slang for food
40. Fuels the operators
43. Multiply these two to get power (symbols)
44. Ham radio enthusiast or fastener

45. Prefix of the Kiwis
 46. Swinging opening to a field
 49. Crumb carriers
 51. Impedance matching device (abbr)
 52. Made a surprise appearance on Field Day 2003 (call)
 54. Brews 40 Across
 56. Energy from above
 57. Unit of current (abbr)
 58. Opposite of 6 Across
- Down**
1. Solar feature that improves propagation
 2. Fee, .., Fo, Fum
 3. Interested non-hams on site
 4. Cyclical electricity (abbr)

5. Symbol associated with a company or organization
6. Pull the cord to make the engine ...
7. Stand by (prosign)
8. Unwanted sound
10. Morse's transmissions
11. Maritime province (abbr)
12. Receive this for bonus points
14. Bring a dry pair of these
15. The most important paper product to bring
17. Station for new hams
18. Non-volatile data storage media
19. Changes the radio's frequency (abbr)
22. End of Message (prosign)
23. Simplest wire antenna
24. SSB, AM, and FM voice transmissions
25. Type of guy cable (abbr)
27. Agency that regulates aviation
29. Makes you hot
31. PSK and RTTY are good examples
32. Good Luck (abbr)
33. Greek letter that makes a boat go
34. Early receiver with an adjustable-frequency input stage (abbr)
35. Holds the dog
39. Too much of 50 Down gives you this
40. Category of operation
41. A hole and screw must be the right size to ...
42. Equivalent scores
43. Reactive power (abbr)
46. Fuels the engine
47. When I guess that I'll show up (abbr)
48. Emission designator for CW
50. Ol' Sol
53. When to wake up
55. Reply (abbr)

Answers in the next Skip

THE DX CORNER

By
Charles McConnell W6DPD

Where to Find DX?

All of the HF bands will provide DX contacts at various time of the year and at various times of the eleven-year sunspot cycle. Twenty meters may provide the best DX opportunities through out the year. The hours of openings may vary from nearly 24 hours a day during sunspot peak to only a few hours during sunspot minimum. The spring and fall months also provide the best opportunities for DX. This is because of the angle of the sun with respect to the earth and the number of hours of daylight.

One hundred sixty meters tends to be a nighttime winter band because of the noise during the summer months. Eighty and so some extent 40 meters follow this pattern, but on a lesser scale. The ionosphere does not propagate these bands over great distances during daylight hours. Forty meters will provide DX opportunities during the nighttime hours during the summer time.

Fifteen and 10 meters tend to be daytime bands although they may have some night time propagation during times of peak sunspot activity. Twelve meters tends to follow the information for 10 meters and 17 meters tends to be intermediate between 15 and 20 meters.

Six meters will provide DX contacts with other countries and continents during times of sunspot peak activity. This is F layer propagation. During late May to July, sporadic E propagation provides DX opportunities for contacts up to 2500 miles or so. Occasionally, the maximum usable frequency (muf) rises high enough for 2 meters to provide sporadic E contacts.

The portions of the 80, 40, 20, and 15 meter bands where the DX hangs out requires an Advanced or Amateur Extra Class license. For CW DX on these bands, an Amateur Extra license is a must, as the DX tends to be at the bottom of the band, which is reserved for Amateur Extra Class operators. It is more difficult but not impossible for General Class Amateurs to work DX on these bands. General Class and up can be successful on 160, 30, 17, 12, 10 and 6 meters because these bands do not have sub bands based on license class. Technician Class and up will have success on 6 meters during the sporadic E season and times of high sunspot activity.

Before the DXCC Challenge and DXCC awards on each band, 1 contact plus an insurance contact on the same or another band was enough. Now DX'ers want contacts on all the bands from the DX stations for separate band DXCC awards and the DXCC Challenge.

The best way to find the DX is to tune the bands and listen.

There are a number of DX operations planned for the first half of 2005. Glorioso Island, FR/G has been proposed due to transportation problems. They hope to try for the October - November time frame. In June-July, St. Paul Island, CY9SS, will be active. In late summer, Sable Island CY0 will be active during the summer also, Kure Island, KH7K, will be activated during September-October.

Good Luck.



"No Greg went to the ham auction this afternoon, to get rid of a couple old radios that were cluttering up the place...Oh I think I hear him pulling in now!"

ARRL Section Report

SAN JOAQUIN VALLEY SECTION Report for the month of March 2005:

SM Charles McConnell, W6DPD- ASMs K6YK and W6FRH, ACC W6DPD, SEC N6ZFN, OOC N1VM, STM K6RAU, PIC KE6IGJ, TC W6TE.

Greetings from the ARRL San Joaquin Valley Section.

Emergency Coordinators are needed in Kings, Mono and Calaveras Counties. Contact N6ZFN (n6zfn@ares-races.net) or W6DPD (w6dpd@arrl.org) if you can help.

Field Day is June 25-26, 2005, the fourth full weekend of June. Now is the time to begin planning for the event. There are some rules changes for 2005 so download your FD packet from www.arrl.org/contests/forms.

Mark your calendars. The International DX Convention (Visalia) is April 15-17, 2005. Check www.ncdxc.org/Ncdxc/Convention for information. EMCOMM West will be May 13-15, 2005 in Reno. Check www.emcomwest.org for information. The California Historical Radio Society Swap Meet/Auction is June 18, 2005 at Cliffs Radio Warehouse on the corner of 13th and X in Merced. Check www.calforinahistoricalradio.com for information. Check their events page. The Fresno Hamfest is August 13, 2005. Check www.w6to.com for information.

Pacificon 05 will be October 14-16, 2005 at the San Ramon Marriott. Check www.pacificon.org for information.

When your affiliated club elects officers for the next year, be sure to update your club's information on the affiliated club area of the ARRL web page.

Need to take an Amateur exam? Check the ARRL web page, www.arrl.org for exam information.

The Northern California Net (NCN), the Section Traffic Net, meets nightly on 3.630 MHz at 7 PM Pacific Time. The slow speed training session of the net meets nightly on 3.705 MHz at 9 PM Pacific Time. Handling traffic on CW is a good way to improve your CW skills. The Daytime Region 6 Traffic Net meets daily at 3:30 pacific time on or near 7.275 MHz.

Grant-sponsored reimbursement ending in June, the last seat to be offered under the Corporation for National and Community Service (CNCS)-sponsored grant will open. After that, only a small number of reimbursable seats in each course will be offered under the United Technologies Corporation (UTC)

grant through October. At this time, no further grant-sponsored reimbursement for EmComm course students is on the horizon. If you have any additional questions, please send them to cce@arrl.org <<mailto:cce@arrl.org>>.

It is my sad duty to report that WD6BBW, WB6QQB, K6MGX, and KC6UQP became a Silent Keys. They will be missed.

Congratulations to KD6BWE, W6INP, KG6SWD, KO6QZ, W6DBM, and AE6GY, on completing the ARECC Level 1 course and to AE6GY and K6RCW on completing ARECC Level 2.

Correction to Feb. Section News: Congratulations to W6NZZ on 50 years of ARRL membership.

The annual M2 Antenna Systems Inc. open house was a great success. There were many Amateurs in attendance. Thanks to Myrna and Mike for their hospitality.

Sierra ARC members KK6PA, MM6JM, KE6CE, KB6NIZ, WA7RIW, KC6URR, NL7SX, N8RXJ, WA6QYR, and KC6UTF provided communications for the 20 Mule Team 100 Mile 24 Hour Horse Ride.

Congratulations to WC6H, N6EE, and K2VCO on placing first, second and third in the November 2004 ARRL CW sweepstakes for the SJV Section.

Tulare County 2005 Officers are pres W6SLT, vp WA6BEF, sec KF6KMY, and treas K6QOG. The club meets the 4th Thursday in Visalia. The web page is www.tcarc.net.

Traffic for March: K6RAU 12, N6SUZ 31; Total 43 PSHR W6MSU 37, K6RAU 58, N6SUZ 101

Sale/Want ads

For Sale:

Alpha 86 linear amplifier. Perfect electrical and cosmetic condition, capable of more than legal power on all bands 160-10 meters. 2nd owner, non-smoker. Has optional fan for RTTY, etc. This is the manual tuning amplifier using a pair of 3CX800A7's. \$2200 firm. Vic, K2VCO 226-4978 (Fresno).

If anybody would like to place an ad in the Skip to sell amateur radio items please contact me.

My email is w6ale@comcast.net I would be more than happy to place the ad for you.

Thank you,

Fresno VE Page

AMATEUR RADIO VE EXAMS IN FRESNO UNLICENSED THRU EXTRA CLASS FRESNO AMATEUR RADIO CLUB ARRL VEC AMERICAN RADIO RELAY LEAGUE 2005

Exams for all Amateur license classes will be conducted on the following dates in the Fresno California area. All exams are given on Saturday and begin at 9:30 AM.

May 14

August 13

November 12.

LOCATION: Center for Advanced Research and Technology (CART), 2555 Clovis Ave, Clovis CA 93612. This is on the southeast corner of Clovis Ave and Santa Ana.

DIRECTIONS: From Highway 99 South of Fresno, take Clovis Ave. Go north to Santa Ana Ave and turn right to the campus. From Highway 41 or Highway 99 North of Fresno, take Shaw Ave. exit, turn right (East), go to Clovis Ave, turn right to Santa Ana Ave, turn left, then on to the campus. The exams will be on the north side of the campus.

Theory exams are multiple choice. Code Exam is fill in the blanks. Express mail is used to send paperwork to ARRL, which sends data to FCC via electronic mail, thus assuring the fastest possible service.

New licenses typically arrive in about two weeks.

IDENTIFICATION: Bring two forms of ID. One must have a photo. Taxpayer ID Number (Social Security Number), ULS registration Number or FCC Registration Number. Fee \$14.00 per test session. Bring Exact change. Original and copy of Amateur License and CSCE's if upgrading. Talk in on 146.94 repeater.

Walk ins only, no pre-registration.

More Info?? Contact Paul AE6QP, (559) 297-8478



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2005 F.A.R.C. MEMBERSHIP APPLICATION

Name _____	Date _____
_____	Callsign _____
Address _____	
City _____	State _____ Zipcode _____
Home Phone _____	Business Phone _____
Occupation _____	Birthdate _____
License Class _____	Year first Licensed _____
E-mail Address _____	ARRL Member? _____

I am interested in serving on one of the committees; please contact me with more details _____.

FARC – P.O. Box 783, Fresno CA 93712-0783

**Upcoming 2005
Fresno Amateur Radio
Club
Activities and Events**

May 2nd – Board meeting

May 13th – Membership meeting



FRESNO AMATEUR RADIO CLUB, INC.
P.O. Box 783
Fresno, CA 93712-0783

Send To: