



April 2005

Fresno Amateur Radio Club Newsletter

Volume 66, Issue 4

Our next General Meeting will be held at Cedar Lanes on April 8th and our program will be given by our own Dave Smith W6TE on Microwave communications. Our board meeting will be held at the Woodward Park Library on April 5th at the S.W. corner of Perrin and Champlain. The meeting is open to all and we would like to see you there. See you at the meeting!

The Prez Sez

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
April 5th

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

Spring is almost here, time to get those projects started again.

In March a group of club members made the last paper run. During the trip, the CW trailer came loose from the towing vehicle and rolled on it's side. We were able to unload the trailer and tip it upright and tow it back to its storage location. We will be getting some folks together to see if the CW trailer can be repaired. You can see pictures of the incident on the www.w6to.com website in the pictures section.

I have been working on the club website and would like your input on its content and looks. I welcome all comments and suggestions at w6to@w6to.com.

We are having great turnouts at our club meetings this year! It is good to see all of you there! Thanks to Tom KG6KYU for picking up the prizes and selling drawing tickets at the meetings.

As a fund raiser the club is selling drawing tickets for an MFJ-269 antenna analyzer (\$320 retail). The drawing will be held at the annual club picnic on July 23rd. There are only 200 tickets so make sure you get yours early. Tickets are \$5.00 and you can purchase them from any of the club board members.

Rob AE6GE

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

Board Members

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
 Silver Dollar Hofbrau:
 Corner of
 Hwy 41 and Shaw

SKIP DEADLINE

Please provide any SKIP material by the 20th of the prior month.
 Please send to
 w6ale@comcast.net



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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

<u>Organization</u>	<u>Call sign</u>	<u>Location</u>	<u>Freq</u>	<u>Offset</u>	<u>Tone</u>
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	FRESNO	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



- - - . . . - - - CW TRAILER IN TROUBLE !

W6TE's Column

Technical Breakthrough!

It was reported in the latest journal of the IEEE.... That Dr. Erick Nosomuch had made a major breakthrough in discovering bandwidth here to wit was unknown. The discovery focuses around traditional Intermediate Frequency (I.F.) transformers in receiving and transmitting equipment being wound around coil dies that were clock-wise wound. Dr. Nosomuch discovered that winding coils counter-clockwise has opened up an entirely new world in RF communications. The counter-clockwise windings produce frequencies that are equal in amplitude but opposite in polarity of our present allocated Amateur radio bands. This opens up a whole new set of opportunities regarding DXCC, etc...WE can now have a negative DXCC, negative 5 Band DXCC, etc. The ARRL awards desk is scrambling to staff for the new awards.

Prowler Sold!

Tom, **KG6KYU** thanks to you and Marcie, **KG6KYT**, for storing the trailer at your house until it could be sold. Paul, **W6VPS** and Ted **K6FGE**, contributed to getting the trailer ready for sale and getting it sold. Thank you everyone for your contributions to the club.

Treasurer: Jim Nelson, **W6ALE**, is doing a fantastic job of watching the club finances! Jim, you're doing a great job! This has been labor intensive and a special thank you goes out to Jim...

Hamfest: Many thanks to Marcus, **KG6QNY**, and my dear niece Lisa, **KG6SZA**, for their contributions in procuring the Fresno State Student Union Building for our upcoming Hamfest. I am looking forward to it as we all are.

Hams Helping Hams On February 21st several of us led by Ken, **WA6OIB** met at Mac's house for a tower removal party. We had a great time until old Mr. Thunder Cloud came along and burst our bubble. Thanks to the following for contributing. Worker Bees: Ken Holden, **WA6OIB**, Paul, **W6VPS**, Ted, **K6FGE**, Rob, **AEG6GE**, Lee, **AC6WS**, Jim, **WS6X**, Tom, **KG6KYU**, Gus, **KF6ZXO**, Mar, **KG6DAK** and myself. A very special thanks goes to our very good friends Gus and Mar Keith, **KF6ZXO** and **KG6DAK**. Gus and Mar traveled from Madera to lend a hand for the removal efforts.

Contesting Activities: ... Jim Clymer, **WS6X**, made some great contacts on 160 meters during the ARRL DX CW contest (March 18th.-20th.). Jim worked South Korea for a new country among others. That gives Jim 64 countries worked on 160 meters. Jim has already confirmed enough countries on 80M-40M-20M-15M-and 10M to be awarded the very coveted ARRL "**5 Band DXCC**" award! Nice going Jim!

Other locals that participated in the contest were Vic, **K2VCO** and Bob, **W6FRH**.

CW lives! (at least until us old timers die out)

Continued page 5



"Well it all started when I was a child...I felt that I had difficulty communicating with people..."

Thomas L. Whitlock


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New ARRL SJV Appointment: Bob Hervatine, **W6FRH**, has been appointed as the **ARRL vice Section Manager to the SJV Section. Congratulations Bob! You'll do a great job!**

Calendar for April:

2nd Western States Weak Signal Society (WSWSS) Grin and Grip Swap Meet. Location: M2 parking lot - Fresno

2nd.-3rd QCWA Sprints Get on the air and give us old timers a thrill.

8th – **FARC Club Meeting** Speaker W6TE Microwave transverter interfacing—Challenges and Resolutions.

15th.-17th DX Convention Visalia, Holiday Inn. Attend the oldest and largest DX Convention on the planet. Meet the Dxpeditioners.

May 7th.-8th Project Oscar Symposium San Mateo

New Hams... Please congratulate **Dan Pruitt, KG6ALC**, for earning his Extra class license! Dan's new call is **AE6SX**.

The club now has 102 paying members and 10 lifetime members for a total of 112 memberships.

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.

Field Day 2005... The Field Day committee met on February 28th. The committee developed a strategic plan for Field Day. A full blown outline and tactical issues will be presented at a future club meeting. Field Day will be held at the Pine Ridge School and will be a lot of fun. Plan to attend and participate.

Moonbounce/Satellite Operations: The San Bernardino Microwave Society (SBMS) and the Owens Valley Radio Observatory (OVRO) are working together to use their 40m dish near Bishop, Ca. for educational projects and for EME on 23cm and 10ghz. The project has been in development for about a year. They are intending to be on the air for the fall and spring EME contests and at other times with educational projects. This will be an ongoing project between OVRO and SBMS. They will

be running about 10 watts output and 70db gain at 10ghz. and 100 watts output and 53db gain on 23cm. The path analysis shows stations running a 3-4' dish and 20 watts will be workable on 10ghz on CW. 23cm.

Congratulations to **Jim Klassen, N6JMK**, (formally KG6SZC) for his first ever 144 MHz. EME contact! The contact was made during the 2004 ARRL EME contest with W5UN using the CSUF station. Jim has also been active on all of the active satellites from his portable station from his temporary Mojave location. Jim has only been licensed for a year or so and has shown what can be accomplished! Super job Jim! Jim will receive a very nice award from the ARRL for making a contact during the EME contest.

DX: The long awaited Peter I Island DXpedition came to an end before the expedition was underway.... Unfortunately the operation had to be cancelled after many disappointments.

Lunar Trivia: Have you ever noticed a full moon ALWAYS appears around sun down? (Moon rises in the east and while Sun setting in the West)

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? Everyone with the correct answer along with the resolution of the problem will be published next month.

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. I'd love to here from you.

73,

Dave / W6TE

Find the Blooper

Find the intentional blooper in this months Skip and win a free ticket for the MFJ-269 analyzer!

Bring a piece of paper with the answer written on it to the next meeting, put your call sign and the answer on the paper and place it in the container. We will draw at the meeting and the first correct answer will win the ticket. The correct answer will be announced at the meeting.

Board members not eligible to win. ***Typos excluded!!***

Amateur Radio Word Search Puzzle
Thanks to Jeff KF6CNV

A M E R C U R Y A N T E N N A W S R B N L H C P R E T
 L E A K A G E R O O X O S C I L L A T O R H P B E H L
 U S B A L U N I E I I J M A V M U R T C E P S U P A G
 M E H D I S T O R T I O N P N H J O Z L T X N A O M V
 R S C O B P H E A C E G R A H C I T I N S B D H L M R
 O V N N R E A L K A R M T C I S B C Y Y A D X U S I A
 F R P O A T U C I R R E I I O C A E C L L O A D I N G
 E Z S T T D W V K F L L W T W L I N A E B G J J O G C
 V B E D O G E A P E R U R O L M E N N V G U C R N O H
 A R A M R R N P V R T O L R P U C O H Z I K T I M T E
 W E A S T D S I M E P J K R Q E M C P C R U H P R N W
 O C W I C T S U L I K F E E D L I N E U E C U D E E U
 R I C T W I L Z C R I P R O T O C O L N T T D V I G N
 A A D E O W T D A R A F O N A N W R T A E O I K R N I
 L Y U N R O X E L P I D T W O T C E M R P T F O R A D
 O D P G J U N A N E T N C L E G G T L P I G T H A T E
 P O L A R I T Y L O P T E R M I N A L S G S A J C F N
 I R E M L I E D R M H A R D L I N E O L I T H I U M C
 B A X N B W D H A I R P I N Z G R P Z S D O O W N E K
 V P O R T A B L E D O I D N I A F E E G L M G I X L U
 D N O M Y B U X E L P M I S U O I R U P S E R E P M A

- | | | | | | |
|------------|------------|-----------|------------|------------|------------|
| Absorption | Darlington | Hairpin | Matching | Portable | Spurious |
| Amperes | Digipeter | Hamming | Mercury | Positive | Swan |
| Antenna | Diode | Hardline | Modulation | Power | Tangent |
| Autek | Diplexor | Heater | Multimeter | Protocol | Technician |
| Azden | Director | Helical | Nanofarad | RIGblaster | Television |
| Balun | Distortion | Impedance | Neutron | Ragchew | Terminal |
| Bipolar | Doppler | Isotropic | Nonlinear | Refraction | Unbalanced |
| Calibrator | Duplex | Joule | Orbital | Repeater | Uniden |
| Capacitor | Farad | Kenwood | Oscillator | Resistor | Vertical |
| Carrier | Feedline | Lamp | Packet | Shortwave | Waveform |
| Charge | FieldDay | Leakage | Paddle | Signal | |
| Clegg | Formula | Lithium | Parody | Simplex | |
| Computer | Frequency | Loading | Phonetics | Sloper | |
| Connector | Gain | Magnetism | Polarity | Spectrum | |

Fresno Amateur Radio Club Hamfest

Aug. 13th at Fresno State Satellite Student Union

The DX Corner
By
Charles McConnell

QSLing Part Two

Some stations have QSL Managers, someone who handles their QSL cards. Many are in the U.S. so return postage is minimal while others are in other countries of the world so return postage will cost more than from the U.S. The DX Bulletins list QSL managers, as does the GO-List. You can subscribe to the GO List on the internet. The DX Magazine and WORLDRADIO publish portions of the GO-List. Some managers are listed on QRZ.com. There are web pages where QSL managers are listed; W7WK and K4UTE have web pages devoted to DX and QSL activities. Do a Google search to find them.

Some stations will say "QSL via Buro". This means that they will send your card to the QSL Bureau. The station will send cards to his country's QSL Bureau that sends them to the ARRL. The ARRL bureau sorts the cards and sends them to the call district bureaus. The district bureaus sort cards and send them to the letter sorters, based on the first letter of the call sign suffix. The letter sorters send the cards to you. It is important to have envelopes at the 6th District QSL Bureau in Weed, California. If your call sign has a number other than 6, then you need to have envelopes at the bureau for your number. The use of the bureau is slow and inexpensive, but it may take from 6 months to several years to get cards through the bureau. As an ARRL member you can send your QSL cards to DX stations by the outgoing QSL bureau for a fee, which is inexpensive compared to direct mailing of cards. The address of the Sixth District QSL Bureau is P.O. Box 530, Weed CA 96094-0530. The web page is located at www.kqiz.com/qslbureau6.html.

The latest innovation in confirming contacts is ARRL's Log Book of the World (LOTW). Stations can upload their computerized station log files to LOTW. The computer will check your contacts against the other logs in the LOTW for matches. If there are matches, these can be used for ARRL Awards without paper QSL cards. You do not have to be an ARRL member to use LOTW. You can visit www.arrl.org/LOTW for information.

To get the awards the cards have to be checked by the award sponsor. This means sending the cards to the sponsor. For ARRL awards, (DXCC and WAS), I can check the cards. For DXCC, consult the DXCC List for the rules. I am a checkpoint for the CQ Awards, (WAS, DX Award, and WPX). WAC is an IARU award and must be checked by the member society, for us it is ARRL. For information on the Islands on the Air Award (IOTA) contact www.rsgbiota.org/index.php4?countthis=1.

There are a number of DX operations planned for the first half of 2005. In May, Glorioso Island, FR/G will be activated by the same French group that activated Europa, TO4E. They have run into a snag in that the French Navy Ship which was to take transport them and their gear is not available, so they will have to charter a ship. In June-July, St. Paul Island, CY9SS, will be active. In late summer, Sable Island CY0 will be active, Kure Island, KH7K, will be activated during September-October.

If you have any questions, contact members of the Central California DX Club, Inc for assistance. The club has over 50 DXers in the valley as members.

Good luck on getting your QSL cards and Awards.

Editors note: This is a continuing article by Chuck. Thanks Chuck!

ARRL Section Report

SAN JOAQUIN VALLEY SECTION Report for the month of February 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.

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. The monthly registration calendar is found online at <http://www.arrl.org/cce/calendar.html>. Registration can be done on-line during the applicable registration window at <https://www.arrl.org/forms/cce/>. As stated at <http://www.arrl.org/cce/courses.html>, registration via regular mail is also an option. Please include the course you wish to enroll in, your age group, gender, veteran status, preferred email address, and telephone number. This has been a very successful program, thanks chiefly to the support and participation of the ARRL Field Organization. We sincerely appreciate your efforts and hope that with your continued support, these grants will conclude on a successful note. If you have any additional questions, please send them to cce@arrl.org

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

The annual M2 Antenna Systems, Inc. open house is April 2, 2005 in Fresno. Check www.m2inc.com/openhouse2a.html for information and directions.

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.

The Manteca Amateur Radio Club, San Joaquin County ARES, and the Bay Area Educational Amateur Radio Society will hold a one-day ham cram technician license class and testing session on Saturday, April 9, 2005 in Manteca. The class runs from 8am until 4pm. Cost of the class is \$30. Pre-registration and payment is required. Space is limited. For information visit <http://www.sanjoaquinares.org/>

It is my sad duty to report that KK6LR, W7FMD, WB6SHI, KQ6KT, W6KGF, and KB6DJT became a Silent Keys. They will be missed.

Congratulations to W6INP and KD6PCT on completing the ARECC Level 1 course. Congratulations to W6ZND on 50 years of ARRL membership. Congratulations to KB6BXY on being named Ham of the Year for the Bakersfield ARA.

QCWA Fresno Chapter 213 2005 officers are pres W6YDE, vp W6YEP, sec/treas W6DPD and directors K6XJ and W6RUJ. The chapter meets the 4th Tuesday at Noon at Carrows Restaurant, 4280 N. Blackstone in Fresno. The club operates the WQ6CWA repeater on 146.25/85 with a pl of 141.3 HZ. All QCWA members are invited to attend the meetings. Check www.qcwa.org/chapter213.htm for information.

Sierra ARC members helped with the Fire Mountain Fifty Horse Ride. Those helping were KG6STR, WA6QYR, WB6EPD, WA7RIW, KI6LO, W6PTH, and KC6UUR. Traffic for February:

K6RAU 10, N6SUZ 29 for a total of 39. PSHR K6RAU 68 and N6SUZ 88.



Michael B. Staal K6MYC
Vice President/Designer

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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 Fresno California. 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 blank. Express mail is used to send paperwork to ARRL, who sends data to FCC via electronic mail, thus assuring the fastest possible service on new licenses which typically arrive in about two weeks.

BRING. Two ID's, one with 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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F.A.R.C. DUES ARE \$15.00 PER YEAR FOR FULL MEMBERSHIP. Additional family members in the same household are \$5.00 each per year. Make checks payable to F.A.R.C. and send to:

P.O. Box 783, Fresno, Ca. 93712-0783.

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

April 5th – Board meeting

April 8th – Membership meeting