

## February Club Meeting

**Date:** Friday, February 22, 2008

**Time:** Socializing at 7 pm, Meeting at 7:30

**Place:** Covington School, 205 Covington Road, Los Altos

**Speaker:** Martin Knutson, W0BBV

**Topic:** A Technical History of Modern Cellular Telephone Systems

**Summary:** Vehicle-borne two-way radios came of age during the Second World War. This talk picks up the thread in 1946, when this technology and the wired telephone network were joined together to produce the first "mobile telephone system (MTS)", and carries the story to the modern day. This historical arc includes the evolution of MTS into the first cellular system in the late 1970s, the transition to digital cellular starting in the late 1980s, and the "third generation (3G)" which is currently entering wide use. A theme in this presentation is the continuing impact of the technical decisions made more than 60 years ago.

**About the Speaker:** John Treichler received his BA and MEE degrees from Rice University, Houston, TX in 1970 and his PhDEE from Stanford in 1977. He served as a line officer in the US Navy from 1970 to 1974. In 1977 he joined ARGOSystems in Sunnyvale CA and then helped found Applied Signal Technology, Inc. in 1984 after serving for a year as an Associate Professor of Electrical Engineering at Cornell University. Applied Signal Technology designs and builds advanced signal processing equipment which is used by the United States Government and its allies for foreign intelligence collection. He is currently their Chief Technical Officer and a member of its board of directors. He was elected a Fellow in the Institute of Electrical and Electronics Engineers (IEEE) in 1991 and was awarded the IEEE Signal Processing Society's Technical Achievement Award in 2000.

**There will be four prizes for the meeting.** First is a Heil Sound "The Traveler" Boomset. Second is an Eton (Grundig) American Red Cross Portable Emergency Radio that covers AM, FM, and Shortwave. It's battery operated with a handcrank to charge the battery. Third is a 2007 ARRL Handbook. Fourth is a 2008 Northern California Repeater Directory.

The club offers refreshments at the meeting. Be sure to attend for an enjoyable evening. Get your name in the Relay: bring your toughest questions for Dr. Know-It-All.

6 pm "Early Bird" dinner: Beausejour, 170 State St., Los Altos

## Upcoming Events

Feb 22	7:00 PM, <a href="#">Club meeting</a> , Covington School
Mar 1	8 AM to 9 PM, <a href="#">Am-Tech Day</a> , SLAC, 8AM-9PM
Mar 6	7:30 PM, Board Mtg at the Los Altos Town Crier
Mar 28	7:00 PM, <a href="#">Club meeting</a> , Covington School
Mar 29	8 AM to 9 PM, <a href="#">Am-Tech Day</a> , SLAC, 8AM-9PM
Apr 3	7:30 PM, Board Mtg at the Los Altos Town Crier
Thursdays	8:00 PM, FARS net, 145.230(-), 100 Hz PL

See more events, [FARS Calendar](#) <<http://www.fars.k6ya.org/events/calendar>>

© FARS Reprints of selected articles permitted with acknowledgment to the FARS RELAY

## President's Corner

**Membership Meeting.** Our next meeting is Friday, February 22<sup>nd</sup> at 7pm (<http://www.fars.k6ya.org/meeting>). This month's talk is **A Technical History of Modern Cellular Telephone Systems** with Dr. John Treichler, CTO of Applied Signal Technology.

**Am-Tech Day.** The February Amateur Radio Technology Day is scheduled for Saturday, March 1<sup>st</sup> at the Stanford Linear Accelerator Center. The March Am-Tech Day is schedule for March 29<sup>th</sup>. Check the FARS web site for the program schedule, directions, and the latest news, ([www.fars.k6ya.org/amtechday/](http://www.fars.k6ya.org/amtechday/)).

**Email Notices.** Subscribe to the FARS Announcement list ([www.fars.k6ya.org/mail/](http://www.fars.k6ya.org/mail/)) to receive reminders of FARS activities and other news.

**FARS/PAARA Winter Banquet 2008** on January 25<sup>th</sup> was a big success. We had approximately 120 attendees, which is the largest attendance we've ever had. I hope everyone had a good time and that we see you again next year. Thanks to everyone who helped out with the banquet this year, especially Dave Cooper, KE6PFF who handled all the signups and made arrangements with the restaurant. Also, thanks to Jim Rice, K6AK of PAARA for arranging the speaker and handling raffle. And thanks to those that Dave and Jim enlisted to help out.

**Membership Renewal Time.** It's time to renew your FARS membership. Remember that memberships are valid through the end of December with a 30-day grace period for the month of January. If you have not already renewed, please do so at the next club meeting, or send in a membership renewal form with your check. Even easier, just go online, update your member profile, then pay via PayPal. Your support helps us fund all our activities: member meetings, Am-Tech, Field Day and more ([www.fars.k6ya.org/cgi-bin/r-edit](http://www.fars.k6ya.org/cgi-bin/r-edit)).

**Volunteers.** We sometimes receive requests to help with disposing of amateur radio equipment from estates. The requests vary from simply help valuing items, to help with selling or disposing with equipment and sometimes donations. We need a few members who would be available to handle such requests by helping out as needed and possibly accepting donations on behalf of FARS. Please contact myself, or any board member, if you would be interested in volunteering for this program

- de Mikel, KN6QI

## January Banquet Report

The Banquet speaker was **Martin Knutson, W0BBV**. "Marty" was a member of the initial group of six U.S. Air Force pilots hired by the CIA in 1955 for the covert U-2 program. He flew over the Soviet Union on many occasions during his service with the CIA. Marty was a U-2 pilot during the cold war and later went to work for NASA where he stayed until he retired in 1997. He talked about some of his experiences as a U-2 pilot. The banquet was attended by over 100 people and the presentation was enjoyed by all.



**Martin Knutson, W0BBV**



**Banquet Raffle Winners**

Kurt Kolovson, W6RQ (center in the photograph above right), won first place in the Banquet Raffle and took home the Yaesu FT 857D Transceiver. Martin Liberman, KD6WJW (right), won the second place prize, an Alinco DM-330MV power supply. Joseph Talaich, N6IWJ (left), won the Heil Traveler headset boom microphone. See the full list of Raffle Winners later in this Relay.

## Winter Banquet Photographs



Banquet Speaker, Martin Knutson, W0BBV



PAARA Award Presentation to Vic Black, AB6SO  
Terry Finn, AA6T; Vic; Kristen McIntyre, K6WX,





## Winter Banquet Photographs



Tickets anyone?



### Winter Banquet Raffle Prize Winners

#	Prize	Winner	CallSign
1	Yaesu FT-857D, HF/VHF/UHF mobile transceiver	Curt Kolovson	W6RQ
2	Alinco DM-330MV Switching power supply	Martin Liberman	KD6WJW
3	MP-1 Antenna - 40-6M Portable travel antenna	Richard Tsukushi	KA6IXN
4	HEIL HTSS Traveler - Single Side Headset boom microphone	Joseph Talaich	N6IWJ
5	Grundig FR-250-ARC - American Red Cross Version	Martin Liberman	KD6WJW
6	ARRL 2008 ARRL Handbook w/ cdrom	Lawrence Rebarchik	N6CCH
7	21st - ARRL Antenna Book	Victor Black	AB6SO
8	Battery Tender-Junior - Automatic Charger 12V Lead Acid Batteries	Mikel Lechner	KN6QI
9	Kill-A-Watt - Appliance AC Power Monitor	Lily Suzuki	W6LIL
10	Antenna Rope (2)	David Crocker	W6VYC
11	MFJ-701 - Snap-On-Choke for RFI suppression	Bill Young	K6VWO
12	Emergency Power book	Steve Stearns	K6OIK
13	ARRL Low Power Communications book 3rd edition	Herb Vanderbeek	WY6G
14	ARRL HF Digital Handbook 4th edition	Ramsey Melugin	KE6TFZ
15	DXCC Handbook	Ramsey Melugin	KE6TFZ
16	MFJ-700C4 - Four Pack Ferrite RFI Suppression Choke	Rich Stiebel	W6APZ
17	ARRL GPS and Amateur Radio book	Byron Beck	KG6UOB
18	ARRL VOIP & Ham radio book	Martin Liberman	KD6WJW
19	CIG-2-OEM-5-15A - Cigarette Lighter Plug (15A)	Andy Nagorski	KG6HST
20	HM-05 - BNC Male TO UHF adapter cable	Glenn Grant	WB6GEN
21	SOC-PP - Powerwerx Cig Lighter to PowerPole (15A)	Shawn Storm	AF6AR
22	Bug Mount - Radio Control Head Mount	Ramsey Melugin	KE6TFZ
23	LoBoy Mount - Low profile radio head mount	Robert Hays	W6FOG
24	PS-4 - PowerPole splitter	Stephen Sabram	KI6FYG
25	HS-05 - SMA to PL-259 adapter cable	Carol Randall	W6GEM
26	PS-4-Plus - PowerPole splitter	Michael Gavin	W6WZ
27	ARC-2008 - CQ Amateur Radio Calendar 2008	Rob Lupo	KG6SKA
28	ARRL Log book and Mini-Logbook	Dennis Wilson	KA6LSW



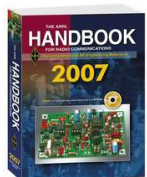
## February Meeting Raffle Prizes



Four prizes will be raffled at the February meeting. The first place prize is the "The Traveler" Boomset from HEIL Sound. Actual prize may differ from Photo.



The second place prize will be the Grundig FR-250-ARC – the American Red Cross version of the FR250. Color may vary.



Third place prize is a 2007 ARRL Handbook.

Fourth place prize is a 2008 Northern California Repeater Directory.

### The Talking Dog

While driving around the back woods of East Texas, I saw a sign in front of a broken down shanty-style house: "Talking Dog for Sale."

Well I needed a break so I stopped to see what the deal was. I went into the backyard and to see a nice looking Labrador retriever sitting there.

"You talk?" I ask. "Yep," the Lab replies. Well after I got over the shock of hearing a dog talk, I asked "So, what's your story?"

Ah shucks there ain't much to tell. Is that a VUU screwdriver antenna on your truck out there?"

"How did you know that," I ask?

The Lab looks up and says, "Well, I'm a ham radio operator. I got my Ticket when I was a young pup and in no time at all I had my 5 band DXCC in Phone and CW. The CIA heard about me and asked me to do some spy work for them. I would hang around the communications centers and with my keen hearing I could copy the transmissions. Because no one figured a dog would be eavesdropping, I was one of their most valuable spies for eight years. Copying high speed CW all day tired me out and I wasn't getting any younger. So, I decided to settle down. I retired from the CIA (8 dog years is 56 CIA years) and joined a ham radio club. In fact I won first place in the Oklahoma QSO Party two years in a row. Then I had a mess of puppies and got away from Ham Radio for a while. I sure miss my radio. Why don't you buy me and I'll be your CW operator in the Texas QSO Party."

I said "let me see what I can do." I went back in and asked the owner what he wants for the dog.

"Ten dollars," the guy says.

"Ten dollars? This dog is amazing! Why on earth are you selling him so cheap?"

"Because he's a liar. He never did any of that stuff. He's just a No Code Technician."  
- de Paul, AA6PZ

## CLUB INFORMATION

President: Mikel Lechner, KN6QI  
Vice President: Steve Stearns, K6OIK  
Treasurer: David Cooper KE6PFF  
Secretary: Rob Riley, KI6INR  
Radio Officer: Phil Hawkins, KA6MZE  
Training Officer: Kevin Weiler, K6XXX  
Relay Editor: Mark Hardy, AF6DO

FARS Board: Dick Baldwinson N6ATD, Robert Flemate KE6TFU, Pink Foster KG6ILA, Kristen McIntyre K6WX, Barbara Neuhauser AE6RM.

Station Trustee: Stan Kuhl, K6MA  
FARS Web Page: <http://www.fars.k6ya.org>  
Download Relay: <http://www.fars.k6ya.org/relay>

Club members and non-members are encouraged to subscribe to the FARS Announcement list by browsing [www.fars.k6ya.org/mail](http://www.fars.k6ya.org/mail), clicking on Subscribe/Unsubscribe and following the instructions under "Subscribing to fars-announce."

You may submit announcements to the FARS Announcement at [fars-announce@svpal.org](mailto:fars-announce@svpal.org). The list is moderated and messages will be posted as approved by the list moderator.

The FARS board of directors may be reached at [fars-board@svpal.org](mailto:fars-board@svpal.org)

Club meetings are held at 7 PM on the fourth Friday of each month except January (Winter Banquet); and sometimes there are changes for June (for field day) and Nov. & Dec (for holidays).

Annual club membership is \$20. Club badges are \$9. Visitors are always welcome! Directions in this newsletter. Talk-in: N6NFI (145.23-, 100 Hz) or W6ASH repeater (145.27-, 100 Hz).

FARS *Relay* is the official monthly newsletter of the Foothills Amateur Radio Society. Contributions to the newsletter from members, family, and guests are earnestly solicited! Contributions are subject to editing and/or compression. All readable forms welcome.

Here is how to reach the editor:

Mark Hardy, AF6DO  
Mail: P.O. Box 2248  
Santa Clara, CA 95055  
Voice: 408-243-0701 (Before 9 PM, preferred)  
Email: [mark.af6do@gmail.com](mailto:mark.af6do@gmail.com), At FARS meetings.

# FARS 2008 MEMBERSHIP RENEWAL FORM

Date: \_\_\_\_\_

PLEASE fill out the form for all new/renewal memberships.

Name(s) & Callsign(s) & Class (E-A-G-T-N-None): \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Home phone: \_\_\_\_\_ Work phone: \_\_\_\_\_

Fax (H or W?) \_\_\_\_\_ Packet BBS Address: \_\_\_\_\_

E-mail: \_\_\_\_\_ ARRL Exp Date(s): \_\_\_\_\_

Preferred modes: (e.g. HF-SSB/VHF/QRP/Other): \_\_\_\_\_

I'm willing to Elmer new hams with: \_\_\_\_\_

Special topics of interest / suggestions for club meeting speakers: \_\_\_\_\_

Dues: \$20 per year, new members add \$9 for badge fee. **Please note:** Membership runs from January 1 to December 31.

Send your check payable to FARS, to:

David A. Cooper  
PMB 41  
270 Redwood Shores Parkway  
Redwood City, CA 94065-1173



## How to get to FARS Club meetings (Visitors always welcome)

Meetings are held at the Covington Elementary School (directions below) on the fourth Friday. Socializing at 7 PM with the regular meeting at 7:30 PM. There may be changes in the meeting dates for January, June, November, and December.

### DIRECTIONS:

**From Interstate 280.** take the El Monte exit Northeast. Cross Foothill Expressway. (A) At the first traffic light turn right on Covington. (B) Immediately at the fork take the left street (Covington). Go about 1/10th of a mile. Turn left into the parking lot. The gym is the tall building to your right with red and white stripes.

**From Foothill Expwy.,** take the El Monte exit and go Northeast; then follow directions as above at point (A).

**From US101 or El Camino:** take San Antonio Road west (to Foothill Expressway). Then follow directions above at point (A).

**TALK-IN** via the [N6NFI](#) (145.230-; 100Hz PL) repeater or the [W6ASH](#) 145.27- (100Hz PL) repeater.