

June 2014

Field Day is here! Join us!

Volume 44, Number 5

www.fars.k6ya.org

JUNE CLUB MEETING

When & Where

Date: Friday, June 20th, 2014

Time: Socializing at 7PM
Meeting starts at 7:30PM

Guests are welcome to join us

Place: Covington School, 205 Covington Rd, Los Altos
(near Foothill Expressway and El Monte Rd)

Snacks: Cookies and coffee will be served.

Questions: Bring your hardest radio questions.
The mysterious Dr. Know-It-All reveals all answers.

Post-Meeting Snacks: Denny's on Mathilda in Sunnyvale.

Who & What

Presentation:

Weird Electromagnetic Waves

Speaker:
Steve Stearns K6OIK

*See page 4
for details*



Raffle Prizes

We will have a great selection of Raffle Prizes as well as the CASH Wish-You-Were-Here Prize.

1st Prize: Icom IC-V80-Sport 2m HT
Takes six AA batteries (alkaline or rechargeable)
Great for your Go-Kit!

2nd Prize: MFJ-882 HF/VHF 1.8-200 MHz 200W
Cross-Needle SWR Power Meter

Wish-You-Were-Here Prize: A **CASH prize** awarded to a member who is present and has paid their 2014 dues. (now \$35!)



CALENDAR OF UPCOMING EVENTS

www.fars.k6ya.org/events/calendar

* Visitors are welcome at all FARS events! *

FARS is an amateur radio organization in the southern San Francisco Peninsula area serving residents of Los Altos, Palo Alto, Mountain View, and several other communities.

JUNE

20 **FARS Club Meeting**, Covington School, Los Altos, CA, 7PM
TOPIC: **Weird Electromagnetic Waves**

27-29 **Field Day 2014**, Maryknoll Soccer Field, Los Altos, CA
*This is the big annual on-the-air event! Details on pages 5 to 8.
Setup Friday the 27th
Operating Saturday 11AM to Sunday 11AM
Potluck dinner Saturday evening. Join us!*

JULY

9 Board Meeting, Los Altos, CA, 7:30PM

12 **Electronics Flea Market**, DeAnza College, 5AM

13 **Radio in the Park**, Agnews Historic Park, Santa Clara, 9:30am-12:30pm
Sponsored by FARS.

13 **BARC Meeting**, Panera Bread, Cupertino, 3PM
Bay Area Radio Builders Club. **Sponsored by FARS.**
See the website / Yahoo Group for details and to confirm the date.

18 **ARRL National Centennial Convention**, Hartford, CT
A 3-day celebration w/ forums, exhibits, flea market, banquet & more

25 **FARS Club Meeting**, Covington School, Los Altos, CA, 7PM

AUGUST

3 **Radio in the Park**, Agnews Historic Park, Santa Clara, 9:30am-12:30pm
Sponsored by FARS.

9 **Electronics Flea Market**, DeAnza College, 5AM

10 **BARC Meeting**, Panera Bread, Cupertino, 3PM
Bay Area Radio Builders Club. **Sponsored by FARS.**
See the website / Yahoo Group for details and to confirm the date.

13 Board Meeting, Los Altos, CA, 7:30PM

22 **FARS Club Meeting**, Covington School, Los Altos, CA, 7PM

UPCOMING

9/13 **Electronics Flea Market** – **Sponsored by FARS! **Fundraiser****

9/14 **ARRL VHF Contest**, 1800 UTC Sat – 0259 UTC Mon
Fun on the air!

10/4 **California QSO Party**, aka “CQP”
Fun on the air!

10/10 **Pacifcon Amateur Radio Convention**, Santa Clara, CA

FARS Membership

Joining FARS
and
renewing your
membership to FARS
provides:

*
Much needed
support for your club
activities,

*
Qualifies you for the
CASH
Wish-You-Were-Here **Prize**
awarded at each
membership meeting,

*
Plus you'll receive
a **FARS Relay**
to your email each month!

Join us!

***Have a photo, article, or
operating news to share?***

Email your FARS newsletter
editor at K6YL@ARRL.net

P R E S I D E N T ' S C O R N E R

Mikel KN6QI

Membership Meeting. Our next membership meeting on June 20th is “Weird Electromagnetic Waves” with Steve Stearns K6OIK. This is a follow up to Steve’s talk in February 2013 on “Novel and Strange Ideas in Antennas and Impedance Matching.” Whereas it is commonly believed that light travels in straight lines, Steve shows show that this is not the case and because of this we can have knotted waves, vortex waves, and linked waves. See page 4 for details.



See the

Field Day 2014 is only a week away on June 28th and 29th! FARS is planning to operate in the 3A category with 3 HF stations – SSB/Voice (80-10 meters), CW/Digital (80-10 meters), and Low Band (160-80 meters). We also plan to have a VHF station (6m, 2m and 70cm) and HF GOTA (Get On The Air) station (40-10 meters). Sign up for setup (June 27), takedown (June 29), operating (June 28-29), and the BBQ (June 28).

This year we are borrowing N6DQ’s tower trailer, hex beam and triplexor for use by the GOTA and CW/Digital stations. The unique feature of the triplexor is the ability to share a single HF beam antenna between up to three separate radio stations. Thanks to Rick N6DQ and Joanna K6YL for making this equipment available for FARS’ Field Day.

We need our members’ help to put on this event, so be sure to sign up and participate. You may sign up at the June 20th meeting or sign up on-line at <http://k6ya.org/events/fieldday>. Be sure to also sign up for the BBQ potluck on Saturday evening as it’s great fun every year. There are a lot of ways to participate!

Support FARS with Membership. Membership dues are our main source of support, helping FARS put on programs and other activities. Membership is only \$20 (\$10 youth rate for applicants under 18) for the year.. Look for a membership form on the back of this newsletter, or check on-line on our web site at <http://k6ya.org/membership>.

Next Electronics Flea Market on July 12th. This is the second Saturday of July. There is a flea market each month March through September. I expect to see many of you there! Full details at <http://www.electronicfleamarket.com/>.

FARS is a California 501(c)(3) non-profit corporation, so donations and membership dues are tax deductible with the California Franchise Tax Board and the Internal Revenue Service. Note that donations to our raffles are also considered gifts, so they are generally deductible as well. Consult your tax advisor for details.

Email Notices. Subscribe to the FARS Announcement List (<http://www.fars.k6ya.org/mail/>) to receive reminders of FARS activities and other news.

de Mikel KN6QI

P H O T O T I M E : FARS Field Day 2012



FARS PRESENTATION FOR JUNE

Details

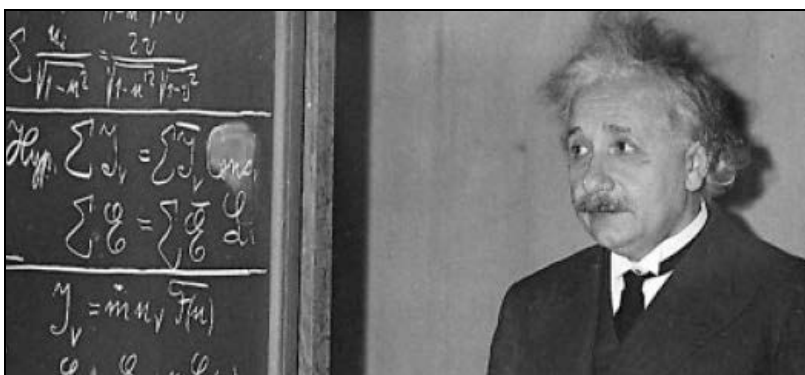
When: Friday, June 20, 2014
Speaker: Steve Stearns K6OIK
Presentation: **Weird Electromagnetic Waves**

Summary: Steve K6OIK presents Part 2 of "Novel and Strange Ideas in Antennas and Impedance Matching." Steve presented Part 1 in February 2013. In Part 2 he describes localized waves. Examples of localized waves are vortex waves, knotted waves, and linked waves. These are electromagnetic waves that follow topologically interesting paths in space. Such waves have properties which some communication engineers hope to exploit for multiple access communication. Isaac Newton taught that light travels in straight lines. Albert Einstein taught that light consists of discrete particles called photons. Reasoning from Newton and Einstein, we might conclude that photons travel in straight lines. Steve will surprise us by showing this conclusion is wrong. The relationship between photons and electromagnetic waves is more complicated than anyone imagined. Steve describes the electromagnetic properties of vortex waves, including properties that are unknown, counter-intuitive, or just plain weird!

About the speaker: Steve Stearns K6OIK started in ham radio while in high school at the height of the Heathkit era. He holds FCC Amateur Extra and a commercial General Radio Operator license with Radar endorsement. He previously held Novice, Technician, and 1st Class Radiotelephone licenses. He studied electrical engineering at California State University Fullerton, the University of Southern California, and Stanford, specializing in electromagnetics, communication engineering and signal processing. Steve is a Technical Fellow of Northrop Grumman Corporation. He works at Northrop Grumman's Electromagnetic Systems Laboratory in San Jose, California, where he is leading the development of advanced communication signal processing systems, circuits, antennas, and electromagnetic devices. Steve is serving as vice-president of the Foothills Amateur Radio Society, and served previously as assistant director of ARRL Pacific Division. He has over 50 professional publications and ten patents. Steve has received numerous awards for professional and community volunteer activities.



Isaac Newton taught that light travels in straight lines.
Photograph: Getty Images



Albert Einstein taught that light consists of discrete particles called photons.
Photograph: Huffington Post UK

Can we conclude that photons travel in straight lines?

Steve will surprise us by showing **this conclusion is wrong.**

The relationship between photons and electromagnetic waves is **more complicated** than anyone imagined.

Steve K6OIK describes the electromagnetic properties of vortex waves, including properties that are unknown, counter-intuitive, or just plain **weird!**

FIELD DAY IS HERE!

You're invited to join:

FARS Field Day 2014

June 27th to 29th

What better way to spend Field Day than on an actual field! :-)

The soccer field at the Maryknoll Residence in Los Altos will become our operation headquarters for this annual event. **Located only minutes from the intersection of 280 and Foothill**, the site has a nice bit of elevation and a spectacular view looking down over the Bay Area.

We'll meet at Maryknoll at 11am on Friday, June 27th to start putting the stations together. ***Your help on Friday would be greatly appreciated for setup!*** Directions on the next couple pages. It's quite a sight to see the towers being raised! Especially when you get to do the little dance while holding one of the guy lines as each tower is brought vertical, ha! Come on out!

Operating will be a blast this year. The qso's will continue for 24 hours starting Saturday at 11am. FARS will be entered in the **3A category**, with "3" representing the number of counted transmitters (we get freebie transmitters as well) and "A" representing our power class. For power FARS will be pulling from multiple generators, and we're also hoping for a stint on solar panel. This will be a true test of operating "out in the field" as is one of the primary goals of this event.



What: Amateur Radio Field Day 2014
Who: FARS & Guests, plus hams all over the USA and Canada
When: **Friday June 27th through Sunday June 29th**
Setup: Friday 11am
Operate: **Saturday 11am to Sunday 11am**
BBQ: Saturday around **5:00pm**
Takedown: Sunday 10am to approx. 2pm

Signing up online is easy!

Link: www.fars.k6ya.org/events/fieldday

You can also sign up at the FARS meeting on Friday, June 20th.

Our goal is to have fun!

It does not matter how many qso's you make.

FARS STATION LIST FOR FIELD DAY

• GOTA Get-On-The-Air Station

- For non-hams (*bring your friends and family!*), for newly licensed hams with no HF experience (*this is a great opportunity!*), as well as for hams who have only a little HF experience (*check with Dave W6DLF to see if you qualify*)
- A coach / control operator will be available at all times
- HF bands

• HF 20/40m SSB Station

- HF bands, primarily 20m and 40m

• CW / Digital Station

- HF bands from 10-80m
- Morse code, RTTY and PSK

• HF 80/160m SSB Station

- HF bands 80m and 160m
- Transmit via a high-flying vertical antenna lifted by a large helium balloon!
- Receive via an awesome you've got-to-see-this 300 foot Beverage antenna!

• VHF / Satellite Station

- Operation on 6m, 2m and 70cm

WHAT IS FIELD DAY?

From the ARRL

www.arrl.org/field-day



Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.

It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions.

We use these same skills when we help with events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities.

But despite the development of very complex, modern communications systems — or maybe because they ARE so complex — ham radio has been called into action again and again to provide communications in crises when it really matters. Amateur Radio people (also called “hams”) are well known for our communications support in real disaster and post-disaster situations.

*** Interested In Operating at FARS? ***

FARS has open operating positions for phone, CW, and digital (RTTY, PSK31).

Sign up to gain experience and have fun working the radios, picking out call signs, and logging the contacts!

The exchange is fairly easy:

“K6YA 3 Alpha Santa Clara Valley”

(where 3 Alpha is our entry category – 3 for # of counted transmitters and A for power)



WHAT IS THE FIELD DAY “GOTA STATION” ?

A BIT OF CLARIFICATION

We have a station for every type of operator!
It doesn't even matter if you're not licensed!

“GOTA” = Get On The Air

Calling out to the following to
come operate the GOTA
Station at FARS!

Any person
licensed since the
previous year's
Field Day,
regardless of
license class!

A ham who is
generally inactive on HF,
regardless of license
class or year of license.

Any person
who is non-licensed
(you'll be trained and
supervised by a
control operator)

Questions? Feel free to contact the
GOTA Station Captain –
Dave Flack W6DLF – W6DLF@arrl.net

ADDITIONAL FIELD DAY DETAILS

Field Day 2014 is almost upon us. Take this opportunity to get on the air in a huge event without the pressure of a contest. Bring your friends and introduce them to Amateur Radio and a chance to experience it first-hand.

OBJECTIVE:

To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions... and to have fun!

OFFICIAL START TIME:

Saturday, June 28th at 11 AM

FARS LOCATION:

The Maryknoll Residence in Los Altos (on the soccer field)
23000 Cristo Rey Drive, Los Altos, CA
(near Rancho San Antonio Park).

This is the same Field Day site that FARS has used in years past.

GPS coordinates 37°19.962' N by 122°04.919' W



DIRECTIONS:

- Take Interstate 280 towards the Los Altos / Mountain View border.
- Exit onto Foothill Expressway and head south (~1/4 mile) following signs to Rancho San Antonio.
- Turn RIGHT onto Cristo Rey Drive (first light).
- Follow Cristo Rey Drive until you reach a traffic circle (~3/4 mile).
- Take the SECOND EXIT from the circle marked with a small brown sign that says Park.
This is the continuation of Cristo Rey Drive
- Go shortly past Rancho San Antonio Park entrance (on the left) and then turn RIGHT into the Maryknoll (private) driveway.
- Pass through the gate, take an immediate RIGHT into the paved area, and park next to the Eucalyptus trees



RADIO IN THE PARK

Fun in the sun!

On Sunday, June 9th we hosted the 4th Radio in the Park with success. This is a FARS-sponsored operating event at Agnews Historic Park in Santa Clara, where we play with radios and antennas and enjoy good company. Two more are scheduled! All hams and even non-hams are welcome to join us. Bringing your own equipment is not required.

Future Dates for Radio in the Park: July 13th, August 3rd

Time: 9:30am to 12:30pm

At the June event we took the opportunity to test our tower trailer in preparation for this month's participation in ARRL Field Day. FARS will make use of this trailer along with the K4KIO hex beam antenna pictured here.

Down position



Vertical position, on its way up to a height of 42ft

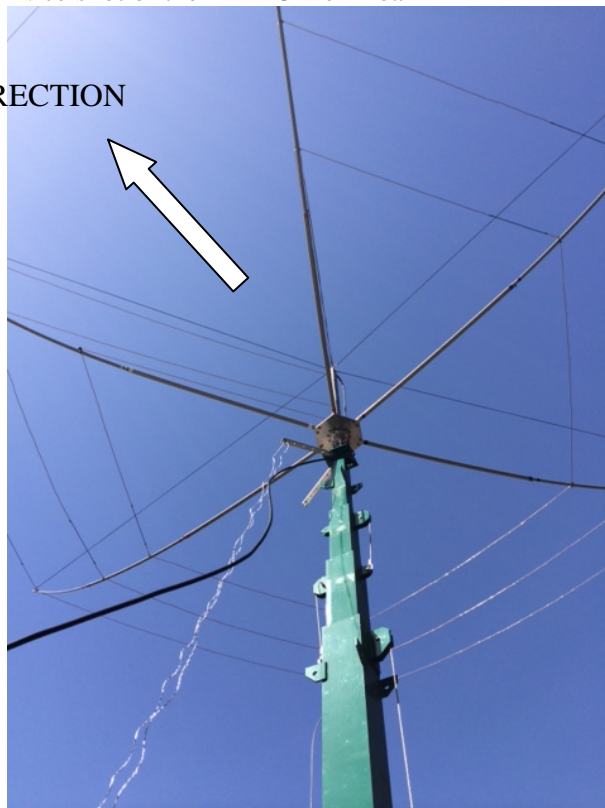


Maximum height for this Force 12 tower



Nice shot of the K4KIO Hex Beam

BEAM DIRECTION



RADIO IN THE PARK Continued

Thank you to all of the Scouts from Pack 76/78 who joined us at the June Radio in the Park. It was a joy to introduce you to the world of radio communications.



Operating portable at an event such as Radio in the Park provides excellent experience with preparation of the necessary equipment, providing your own power source, and understanding how antennas in close proximity react with each other. This experience can be applied to Field Day, the California QSO Party, and of course emergency situations. Thank you to FARS for sponsoring these events. Come and join us at the next event in July!

NEW TECHNICIAN QUESTION POOL FOR 2014

Starting July 1st, 2014

The new 2014 question pool for the Technician exam will see several differences over the 2010 version – 29 updated questions, 47 removed questions, and 79 new questions. The total pool has thus increased from 394 to 426 questions. Want to see all of the changes? Visit https://hamstudy.org/diff/E2_2010/E2_2014.

***** Try your hand at a few of the new questions*****

1. Why are frequency assignments for U.S. stations operating maritime mobile not the same everywhere in the world?

- A. Amateur maritime mobile stations in international waters must conform to the frequency assignments of the country nearest to their vessel
- B. Amateur frequency assignments can vary among the three ITU regions
- C. Frequency assignments are determined by the captain of the vessel
- D. Amateur frequency assignments are different in each of the 90 ITU zones

2. Under which of the following circumstances may an amateur radio station engage in broadcasting?

- A. Under no circumstances
- B. When transmitting code practice, information bulletins, or transmissions necessary to provide emergency communications
- C. At any time as long as no music is transmitted
- D. At any time as long as the material being transmitted did not originate from a commercial broadcast station

3. When using tactical identifiers such as "Race Headquarters" during a community service net operation, how often must your station transmit the station's FCC-assigned call sign?

- A. Never, the tactical call is sufficient
- B. Once during every hour
- C. At the end of each communication and every ten minutes during a communication
- D. At the end of every transmission

4. What are the three electrodes of a field effect transistor?

- A. Emitter, base, and collector
- B. Source, gate, and drain
- C. Cathode, grid, and plate
- D. Cathode, gate, and anode

5. Which of the following results from the fact that skip signals refracted from the ionosphere are elliptically polarized?

- A. Digital modes are unusable
- B. Either vertically or horizontally polarized antennas may be used for transmission or reception
- C. FM voice is unusable
- D. Both the transmitting and receiving antennas must be of the same polarization

6. Which of the following effects might cause radio signals to be heard despite obstructions between the transmitting and receiving stations?

- A. Knife-edge diffraction
- B. Faraday rotation
- C. Quantum tunneling
- D. Doppler shift

7. What is the name of a circuit that generates a signal of a desired frequency?

- A. Reactance modulator
- B. Product detector
- C. Low-pass filter
- D. Oscillator

8. What is a reason to use a properly mounted 5/8 wavelength antenna for VHF or UHF mobile service?

- A. It offers a lower angle of radiation and more gain than a 1/4 wavelength antenna and usually provides improved coverage
- B. It features a very high angle of radiation and is better for communicating via a repeater
- C. The 5/8 wavelength antenna completely eliminates distortion caused by reflected signals
- D. The 5/8 wavelength antenna offers a 10-times power gain over a 1/4 wavelength design

Looking for answers?
See bottom right corner of page 14.

ON THE AIR

Do you have Angel Island in your log?

A group of hams from the San Francisco Bay Area will operate on HF from Angel Island for a weekend of fun. If you haven't worked a ham from Angel Island this is your chance to do so. They'll be on 40 meters for 3 hours each day, plus possible other frequencies.

Full details at: <http://qrz.com/db/W6A>

For updated active frequency list and live video: www.tinychat.com/W6A

(Log in as a "guest" with your call sign. Ignore Facebook/Twitter pop-ups.)

*** The group is offering a beautiful color 8-1/2" x 11" Certificate of Confirmation. ***

In the **United States Islands Award Program** (www.usislands.org)

Angel Island's identifier is CA006S.

This program, called USi for short, covers saltwater and inland fresh water river or lake islands of the fifty states of the United States and U.S Territories or Protectorates.

USi was formed to further enhance "island chasing" that has become so popular on the amateur radio bands.



Angel Island Ham Radio Days
July 19 -20, 2014

Oakland San Francisco
Alcatraz Island

Angel Island
Call Sign: W6A
Special Event Call sign for WB6RAW

Time: 1115 – 1415 (PDT) = 1815 – 2115 (GMT) ONLY THREE HOURS EACH DAY
Frequencies: 7.185MHz +/- QRM and other frequencies (see below)
For update active frequency list and live video: www.tinychat.com/W6A
(Log-in as a "Guest" with your call sign. Ignore Facebook/Twitter pop-ups)
Ferry Schedule: Lv Pier 41 @ 9:45AM; Ar Angel Is @ 10:10; Lv Angel Is @ 3:20PM; Ar SF @ 4:15PM

PHOTO TIME

Thank you to FARS members for some of these!

Talk about maritime mobile!



Photo from www.QRZ.com

I call shotgun! Oh maybe not.



Photo from www.QRZ.com

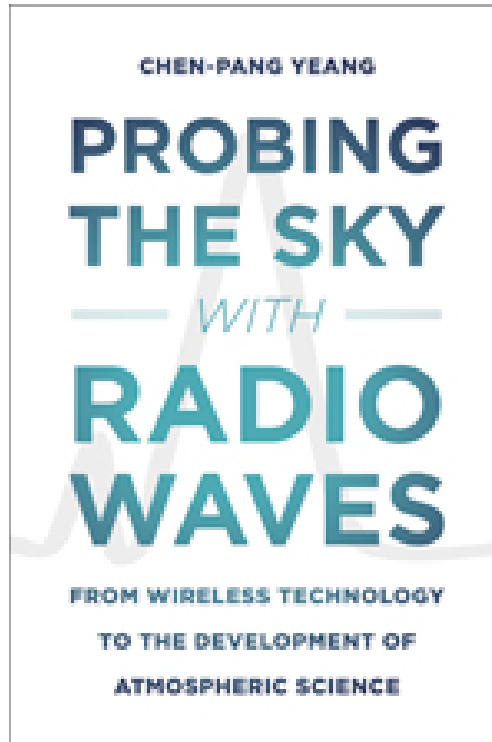
BOOK RECOMMENDATION

From Dr. Know-It-All

Here is an authoritative, scholarly, and fascinating book on the history of HF propagation and ionospheric radio science.
Recommended for technical hams.

C-P. Yeang, *Probing the Sky with Radio Waves: From Wireless Technology to the Development of Atmospheric Science*, University of Chicago Press, 2013, ISBN 022601519X.

<http://press.uchicago.edu/ucp/books/book/chicago/P/bo15417647.html>



By the late nineteenth century, engineers and experimental scientists generally knew how radio waves behaved, and by 1901 scientists were able to manipulate them to transmit messages across long distances. What no one could understand, however, was why radio waves followed the curvature of the Earth. Theorists puzzled over this for nearly twenty years before physicists confirmed the zig-zag theory, a solution that led to the discovery of a layer in the Earth's upper atmosphere that bounces radio waves earthward—the ionosphere.

In *Probing the Sky with Radio Waves*, Chen-Pang Yeang documents this monumental discovery and the advances in radio ionospheric propagation research that occurred in its aftermath. Yeang illustrates how the discovery of the ionosphere transformed atmospheric science from what had been primarily an observational endeavor into an experimental science. It also gave researchers a host of new theories, experiments, and instruments with which to better understand the atmosphere's constitution, the origin of atmospheric electricity, and how the sun and geomagnetism shape the Earth's atmosphere.

This book will be warmly welcomed by scholars of astronomy, atmospheric science, geoscience, military and institutional history, and the history and philosophy of science and technology, as well as by radio amateurs and electrical engineers interested in historical perspectives on their craft.

ELECTRONICS FLEA MARKET 2014

Sponsored by ASVARO

The Association of Silicon Valley Amateur Radio Organizations

www.electronicfleamarket.com

When: The Electronics Flea Market is held on the second Saturday (pre-dawn) of each month, March through September, 5AM to 12 noon.

Where: The market is located in the parking lot of De Anza College in Cupertino, near highway 85 and Steven Creek Blvd. (~ ¾ mi. south of I-280 on highway 85). GPS N37.3215 W122.0435

Note: Buyers enter free. Parking at the college is \$3 (in one dollar bills or quarters).



DIRECTIONS

From the Peninsula:

Take Highway 101 or 280 to Route 85 south. Exit east on Stevens Creek Boulevard.

From the East Bay:

Take Highway 880 south to route 237. Take Route 237 west to Route 85. Exit east on Stevens Creek Boulevard.

From Gilroy/Morgan Hill:

Take 101 north to Route 85 north. Exit east on Stevens Creek Boulevard.

Enter the Campus from Stelling Road:

From Steven Creek Blvd. turn south onto Stelling Road and enter on the right. Park in the open parking in lots B and C, obtain a day-use parking permit (\$3).

Support your local non-profit electronics organization!

SCHEDULE 2014

Saturday, Mar. 8	Hosted by Silicon Valley Emergency Communications System (SVECS)	
Saturday, Apr. 12	Hosted by West Valley Amateur Radio Association (WVARA)	
Saturday, May 10	Hosted by Palo Alto Amateur Radio Association (PAARA)	
Saturday, June 14	Hosted by South Peninsula Amateur Radio Klub (SPARK)	
Saturday, July 12	Hosted by Santa Clara County Amateur Radio Association (SCCARA)	*NEXT ONE*
Saturday, Aug. 9	Hosted by Southern Peninsula Emergency Communications System (SPECS)	
Saturday, Sep. 13	Hosted by Foothills Amateur Radio Society	*VALUABLE FUNDRAISER FOR FARS*
Saturday, Oct. 11	Canceled due to conflict with Pacificon	

See you on July 12th !!

FARS Member Badges

Place your order online or at the meeting.

Available for pick up at the next club mtg

BAEARS Ham Cram

Next Quarterly Session: Saturday, [Sept 20th](#)
8 AM
Redwood City, CA
www.baears.com

FARS Email Notices

Easy to subscribe!

www.k6ya.org/mail

Receive reminders of activities and other news.

Weekly FARS Net

Thursdays @ 8 PM

N6NFI Repeater 145.230(-), 100 Hz PL

Bay Area Radio Builders Club

“BARC”

A FARS Special Interest Group

*We are a group of mostly
Amateur Radio operators who want to gain
a better understanding of the topics covered
in the General and Extra class tests.*

*We want to learn electronics, antenna theory,
kit building, and kit design.*

Meetings: Usually the 2nd Sunday of the month.

Location: Panera Bread in Cupertino
(20807 Stevens Creek Blvd)

Join the Yahoo Group:

http://groups.yahoo.com/group/ba_radio_builders/

More Info:

www.barbc.org

Amateur Radio Field Day 2014

Saturday, June 28th
to
Sunday, June 29th

*FARS will once again set up operation
on the Maryknoll Residence soccer field
in the hills of Los Altos, so*

SAVE THE DATE!



Interested in volunteering
and/or operating?

Email Phil KA6MZE
at sputnik@pacbell.net

ANSWERS FROM PAGE 11:
1B, 2B, 3C, 4B, 5B, 6A, 7D, 8A

HAM RADIO NETS – Getting On The Air

FARS Weekly Net Thursdays @ 8 PM

N6NFI repeater, 145.23-/100Hz
This net is open to all interested hams.

The purpose of the net is to keep club members informed about club activities; to exchange other club-related info; and to socialize.

9AM Talk Net Weekdays @ 9 AM

N6NFI repeater, 145.23-/100Hz
This net is open to all interested hams.

This is an informal net that is very popular.
Check out www.9amtalk.net for more information.

READY TO UPGRADE YOUR LICENSE?

What is a Passing Score you might ask?
Technician & General exams – 26 out of 35 (74.2%)
Amateur Extra exam – 37/50 (74%)

BAEARS (Bay Area Educational Radio Society) Crams & Exams, www.baears.com –

This group holds “Ham Crams” 4 times a year for Tech and General licenses (Amateur Extra test available but no cram). A guided study consisting of six 45-minute reading periods, with breaks and lunch. They have a high success rate!
Pre-registration required, sign up on the website. \$30

- Saturday 9/20, 8 AM @ Redwood City (exam starts at 4 PM)

Sunnyvale VEC Exams, www.amateur-radio.org –

Holds test sessions on Saturdays often alternating between Sunnyvale and Redwood City.

Walk-ins only, no pre-registrations. \$15

- Saturday 6/21, 10:30 AM @ Redwood City
- Saturday 7/12, 10:30 AM @ Sunnyvale
- Saturday 7/19, 10:30 AM @ Redwood City

Silicon Valley ARRL VE Exams, www.svve.org –

Holds test sessions on the 1st and 3rd Saturdays of each month. Arrive between 8 AM and 10:00 AM to the Saratoga Fire Station at 14380 Saratoga Avenue (in downtown Saratoga).

Walk-ins only, no pre-registrations. \$15

- Saturday 6/21
- Saturday 7/5
- Saturday 7/19

Tri-City VE Group Exams, http://www.sbara.org/tricity_ve.html –

Holds test sessions at Hurricane Electric in Fremont each month, alternating between Saturday morning and Tuesday evening. The address is 48233 Warm Springs Blvd.

Walk-ins welcome. \$15

- Saturday 7/12, 9 AM
- Tuesday 8/12, 6:30PM
- Saturday 9/13, 9 AM

**New Technician Question Pool
starting July 1st, 2014**



CURRENT US AMATEUR RADIO BAND PLAN: www.arrl.org/band-plan ([click here for printable PDF](#))
Effective March 5, 2012

CLUB INFORMATION

www.fars.k6ya.org

President:	Mikel Lechner KN6QI
Vice President:	Steve Stearns K6OIK
Treasurer:	Dick Baldwinson N6ATD
Secretary:	(open)
FARS Board:	Charlie Morrin KI6FX Y Phil Hawkins KA6MZE Bob Bynum WB2URF Doña Kerns KI6DAR
Radio Officer:	Phil Hawkins KA6MZE
Training Officer:	(open)
K6YA Trustee:	Phil Hawkins KA6MZE
Relay Newsletter Editor:	Joanna Dilley K6YL

Contact the FARS Board of Directors at fars-board@svpal.org.

Membership: An annual FARS membership is \$20 and provides much needed support for your club activities, qualifies you for the CA\$H Wish-You-Were-Here prize drawn at each membership meeting, plus you'll receive a FARS Relay to your email each month! An optional club badge is \$9.

FARS is a California 501(c)(3) non-profit corporation, so donations and membership dues are tax deductible with the CA Franchise Tax Board and the Internal Revenue Service.

Meetings: FARS 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 November & December (for holidays). **Visitors are always welcome!** Directions on the website as well as in this newsletter.

Email Announcements: Members and non-members are encouraged to subscribe to the FARS Announcement list to receive reminders of FARS activities and other news. Browse www.fars.k6ya.org/mail, click on Subscribe/Unsubscribe and follow the instructions under "Subscribing to fars-announce". You may submit announcements to the FARS Announcement at fars-announce@svpal.org. The list is moderated and messages will require approval by the moderator.

Newsletter: The 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! Photos, operating news, articles, etc. can be submitted to the editor at any time. Contributions are subject to editing and/or compression.

Newsletter Editor:

Joanna Dilley K6YL

K6YL at arrl.net

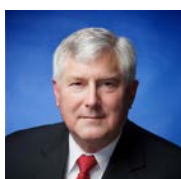
PO Box 399, San Carlos, CA 94070

Also available at FARS meetings.

Photos © K6YL unless noted otherwise.



Mikel KN6QI



Steve K6OIK



Dick N6ATD



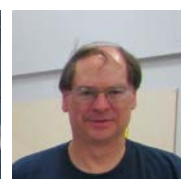
Phil KA6MZE



Joanna K6YL



Charlie KI6FX Y



Bob WB2URF



Doña KI6DAR

FARS New Membership / Renewal Form

The annual dues for 2014 is \$20. You may renew with this form or online by logging onto the FARS website and then using PayPal. <https://www.fars.k6ya.org/membership> Membership runs from January 1 to December 31. New membership applications accepted later in the year may have their dues prorated (see dues schedule).

Date: _____

Name: _____

Callsign: _____ Phone: _____

Class (eg Technician, General): _____ ARRL Member? _____

Email: _____

Mailing Address: _____

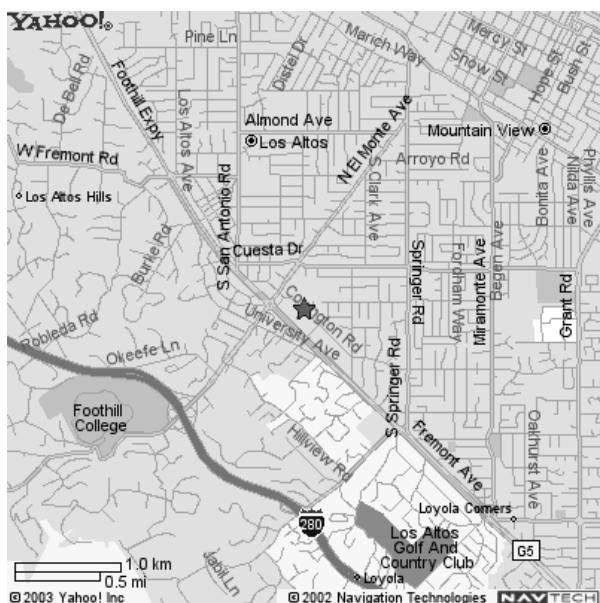
Special topics of interest / suggestions for club meeting speakers: _____

Optional FARS Badge -- Please include \$9 if desired.

First Name for Badge: _____ Select: Clip / Magnet / Pin

Send your check payable to FARS, to:

FARS, PO Box 112551, Campbell, CA 95011



DIRECTIONS TO FARS MEETINGS:

Visitors are always welcome.

Meetings are held at the Covington Elementary School 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.

From Interstate 280 – Take the El Monte exit Northeast. Cross Foothill Expressway. * At the first traffic light turn right on Covington. 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 – Turn Northeast onto El Monte, then follow directions as above at the *.

From US101 or El Camino – Take San Antonio Road west (to Foothill Expressway), then follow directions as above at the *.

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