



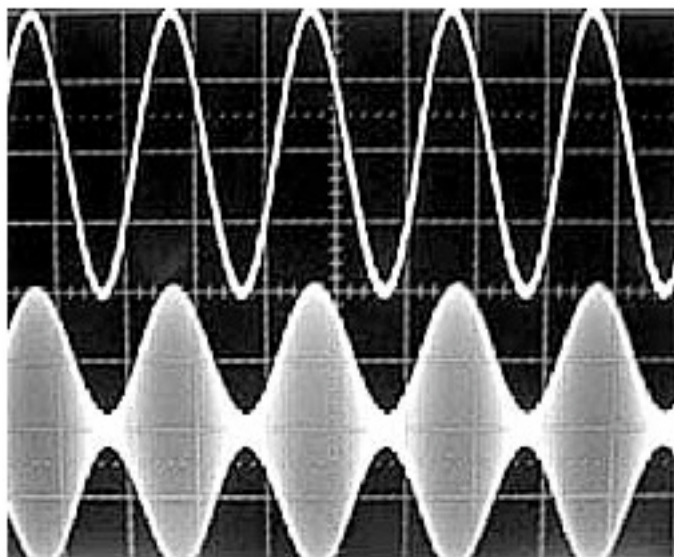
Smoke Signals

Newsletter of Fullerton Radio Club

July 2011

July FRC Meeting Presentation

This month's presentation will be by Bill Kohlenberger, W6ZJE. Topic: *"Modulation Technologies," Past, Now and evolving.* It'll cover early radio development history. Next, some simple waveforms and simple circuits will show basic modulation forms and how they have worked in the past. Then, what the future modulation Technologies likely will be challenging to Amateur radio.



Bill received the call W6ZJE in 1947, joined FRC in 1951 and spent 45 years in aerospace engineering.

REMINDER – NEW MEETING LOCATION

Fullerton Radio Club has moved location of our regular club meetings. The new location is:

- **Chapman Activity Center**
- **2515 San Carlos Drive, Fullerton, CA 92831**

From downtown Fullerton proceed east on Commonwealth Avenue past State College Boulevard. San Carlos Drive is the second street past State College. Turn right and look for the Activity Center in Chapman Park.

We will be meeting at this new location at least through the month of August (unless we post a change notice). Our change of locations is due to a City of Fullerton reconstruction project whereby the Senior Center will be demolished and replaced with a new Community Center.

- **Meeting time: 7:00 PM sharp.**
- **Visitors are always welcome.**

Fullerton Radio Club
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Show –and–Tell

Bring something of interest to the meeting to show and share your story. Something old, new, or just of interest to hams.

July FRC Board Meeting

President Albert Solomon KI6WRU called the July Board meeting to order at 7:33pm. Also present were: Richard Belansky KG6UDD, Bill Kohlenberger W6ZJE, Bill Preston KZ3G, Robert Gimbel KG6WTQ, Larry McDavid W6FUB, Gene Thorpe KB6CMO, & Cheryl Thorpe KE6TZU.

Minutes from June Board meeting were accepted as written.

Treasurer's report: checking \$2133.21 savings \$1723.21

Membership report: 2 new members.

Old Business:

Insurance payment made to new company (Hays). Higher coverage, covers T-hunts.

Tech class: Going well. Hands on. Things to think about for future classes: What time of year? How often should classes be offered?

Field Day: lot like last year. learning experience, some disappointments, took longer to erect antenna than planned. Started discussion about next year: overnight, food committee, more efficient use of Yahoo reflector prior to event, set up on Friday, need people to step up to take responsibilities before as well as during.

HAMCON: few months away (Sept 9-11). Joe still looking for T-hunt park. Registration about same as 4 years ago.

OCCARO: OC Fair starts this month. 2 1/2 days still not covered. FRC day (July 22) covered. Larry McDavid is doing a new list of local radio organizations to have at the booth.

New Business:

Speaker: Bill Kohlenberger on modulation tech.

Public Service: La Palma parade in Nov.

Adjourned: 8:19 pm

Submitted by Cheryl Thorpe KE6TZU

FRC T-Hunt Report

Dave Balgie N6MJN put on a fairly easy hunt on June 18, great for the two beginner teams that came out to hunt against two expert teams. He was at the westerly dead end of Sunset Crossing Road in Diamond Bar by the Little League field, running five watts into a four-element quad.

Team	Odo	Time
<u>Calls</u>	<u>Miles</u>	<u>Arrival</u>
N6AIN/WA6PYE	13.2	8:30
KF6FOJ/N6ZHZ	17.9	8:50
N6BOX/AB6PA	26.6	9:49
WA6CYY	38.0	10:00

73,
Joe Moell K0OV

Next on-foot transmitter hunt at Mt. Pinos, July 16-17

The next southern California on-foot transmitter hunting event will be Saturday and Sunday, July 16-17, 2011 at Mount Pinos, west of Frazier Park. It is primarily for radio-orientees who are in training for the USA and IARU Region 2 ARDF Championships near Albuquerque this September. It is open to all other radio-orientees, but please understand that these are advanced courses. You must be capable of walking or running at high elevation for at least 5 kilometers. A ham radio license is not required.

Host and course-setter is Marvin Johnston KE6HTS. His plan is to provide a full 2-meter course Saturday morning, a sprint course Saturday afternoon (where the goal is to catch each transmitter on the next cycle) and a Santa Barbara style tri-tip BBQ supper Saturday evening. Sunday morning's schedule has a full 80-meter course followed by transmitter pickup and departure.

An excellent map by Los Angeles Orienteering Club (LAOC) will be provided each day. There will be a nominal charge of \$5/day to cover the maps and e-punch. The cost for the optional barbecue will be about \$8 per person.

If you plan to attend either or both days, please send e-mail to Marvin to help him make plans and to insure that you'll be expected at start time. (marvin@west.net) He will reply to tell you the starting locations and times for each day.

Mount Pinos terrain is mostly runnable forest. The air is clear and there is no poison oak. There will be a 3-hour time limit for both the 2m and 80m courses.

Scoring will be electronic. If you have an "e-stick," be sure to bring it.

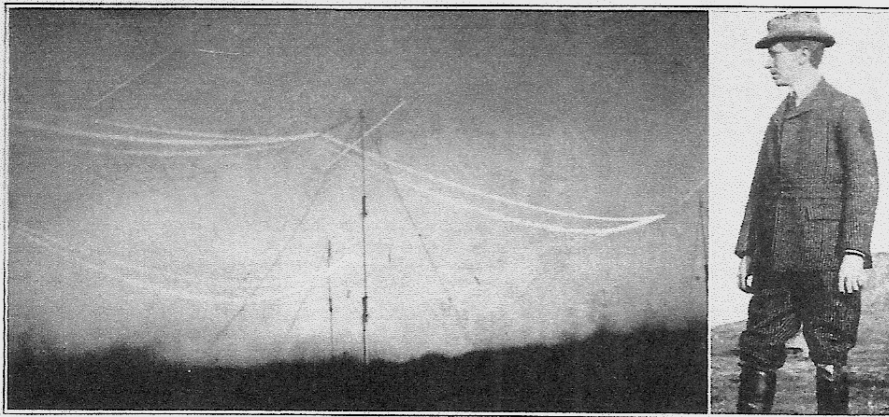
Please be on time for this event. The starts for all courses will only be open long enough to get everyone going (about 30 minutes). We will try to monitor 146.52 MHz simplex for incoming ham operators, but may not be able to hear you if you're not close by.

Directions: Take the Frazier Park exit from Interstate 5 and go west on Frazier Mountain Park Road. Continue 8 miles, passing Frazier Park and Lockwood Valley Road (which is your last chance for supplies and water). Four miles beyond the Lockwood Valley turnoff, stay left at the fork onto Mt Pinos Road. (If you reach Pine Mountain Club, you went the wrong way, so turn around and go back to the fork.) Go another five climbing, winding miles to McGill Campground on your right or continue to the announced gathering point. Forest Service Adventure Passes are not required for this area, but there is a day-use fee for vehicle parking at McGill Campground.

Overnight camping is available for \$12 per campsite on a first-come-first-served basis at McGill Campground. The campgrounds are dry, so bring your own water. If you don't want to camp, you can stay at the Holiday Inn Express or the Motel 6 (formerly the BestRest Inn), both at the Frazier Park exit of I-5. There is also an Econolodge at the Gorman exit of I-5. Links to these motels are at www.homingin.com.

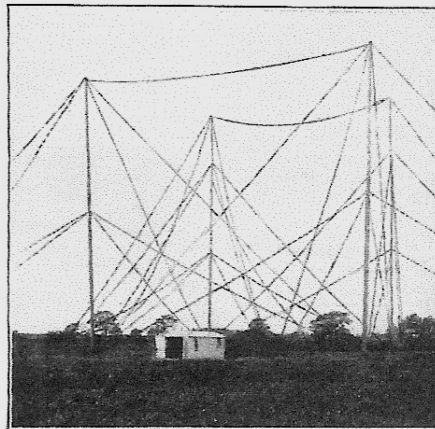
73,
Joe Moell K0OV

MARCONI'S OWN EXPLANATION

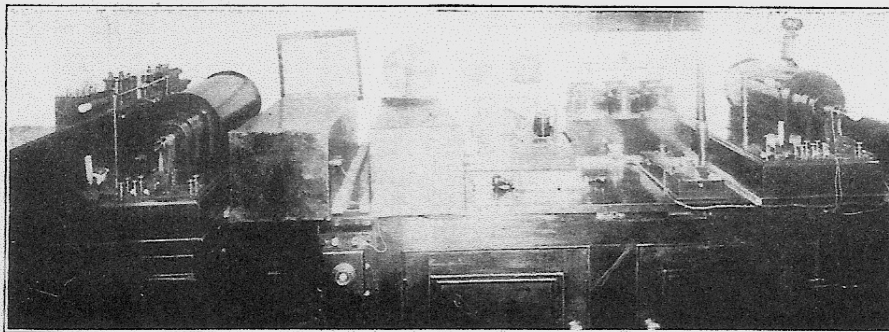


This is what a wireless message would look like if you could see it. It is a remarkable photograph and shows the electric waves passing along a wire at a station. They are invisible to the naked eye.

ON the right of the photograph of the wireless message is a picture of Marconi, the inventor of the wireless telegraph. He says that the electric waves which carry wireless messages are like the ripples which go out in all directions when you drop a pebble into the water. Sound is also made by waves—different sounds by waves of different lengths. The waves sent out by a wireless instrument can be received only by an instrument tuned to waves of the same length. Heat, light and electricity are all forms of wave motion, and Marconi says that it will be only a step further when we shall have wireless light, heat and electric power.



On the right is shown one of the earlier "wireless" stations. The vibrations of the waves from the sending instrument are carried up into the air on these wires and go out from them in all directions. Incoming waves are caught by the wires and carried down to the receiving instrument.



This is the inside of a Marconi station. The wires shown in the picture of the station above carry the messages down, where they are received by these instruments.

The above page is from an encyclopedia used by the mother of Barbara Kohlenberger (YF of Bill W6ZJE) used during her early teaching career. The page reveals highly important early technical understanding in radiation theory at that time (c. 1920).

FRC Regular Club Meeting

Third Wednesday of each month
Chapman Activity Center – new location
2515 San Carlos Dr.
Fullerton, CA

Next Regular Meeting
Wednesday, July 20, 2011

Dinner before the meeting at about 5:30 PM at:
Coco's Restaurant, 1011 N. Harbor Blvd.

Meeting time: 7:00 PM

**Orange County Council of Amateur Radio
Organizations (OCCARO)**
www.occaro.org

WORLDWIDE DISTRIBUTION



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FRC Board Meeting

Open to all members

Marie Callender's Restaurant
126 Yorba Linda Blvd., Placentia
First Wednesday of each month

Next Board Meeting
August 3, 2011

QSO and dinner; 7:00 PM

Meeting: 7:30 PM

Mon. - Fri. 9:00 AM to 6:00 PM
Sat. 9:00 AM to 5:00 PM

Tel: (714) 521-8080
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FRC Web site: www.fullertonradioclub.com

MEMBERSHIP RENEWAL / APPLICATION

Fullerton Radio Club
PO Box 545, Fullerton, CA 92836

(Please Print)

Name #1 _____

Call: _____

Class: _____

Name #2 _____

Call: _____

Class: _____

Name #3 _____

Call: _____

Class: _____

Address: _____

City: _____

State/Zip: _____

Phone #1: _____

Email #1: _____

Phone #2: _____

Email #2: _____

ARRL Member ☐ Yes ☐ No

Special Amateur Radio Interests: _____

Dues are \$20 per member, or \$25 per family. Students (full time) \$10
Bring your application and dues payment to the next meeting or mail to the above address.