

September 2013



Newsletter of the County of Orange Radio Amateur Civil Emergency Service

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Captain's Corner

by RACES Captain Ken Bourne, W6HK, Chief Radio Officer

SONGS Vulnerability

On September 18, 2013, Brian Turner, KI6WZS, backed up by Fran Needham, KJ6UJS, will participate in the San Onofre Nuclear Generating Station (SONGS) Dress Rehearsal Exercise at the Orange County EOC, and in the SONGS Evaluated Exercise on October 23rd. Why are the SONGS exercises still being held, since the reactors at San Onofre are now idle?

On August 15th, a study prepared for the Pentagon by the Nuclear Proliferation Prevention Project at the University of Texas at Austin's Lyndon B. Johnson School of Public Affairs revealed that America's nuclear power plants and research labs remain vulnerable to terrorist attacks from the sea, sky, and control room, despite tighter security imposed since 9/11. San Onofre is not required to defend against attacks from fuel-laden airliners or to protect against sea-borne attacks on cooling systems, which could cut off water supplies to reactor cores and cause catastrophic meltdown, or to defend against inside saboteurs and teams of terrorists armed with high-powered sniper rifles and/or rocket-propelled grenades.

Government regulators and nuclear industry insiders disagree with this study. Nevertheless, it's one factor in the remaining danger at San Onofre, in spite of the reactors being shut down for more than 18 months. SONGS is no longer at risk for core meltdowns, and all fuel has been moved into spent-fuel pools to cool. However, millions of pounds of highly radioactive waste remain on site. Most of that

waste is stored in those spent-fuel pools, which are not protected by thick containment domes as reactors are. Many of us in OCRACES have seen presentations on how safe the very thick containment domes are from impact by hi-jacked airliners, but the spent-fuel pools are vulnerable, not only to terrorist attack, but also to tsunamis such as the one that devastated Fukushima in Japan, according to the study. According to Alan J. Kuperman, coordinator of the study, "The concern is that terrorists could do intentionally to a spent fuel pool what happened to Fukushima's pools by an accident of nature: You drain the water out. The fuel heats up, and melts, and you get a criticality event and the release of very significant amounts of radiation."

The National Academy of Science in 2006 said such an attack would be difficult, but possible. The report said that Al-Qaida considered attacks on a nuclear power reactor as part of its original 9/11 plan.

The *Orange County Register*, which revealed the above information in its August 16th issue, quoted Maureen Brown, spokeswoman for Southern California Edison: "The nation's nuclear plants, including San Onofre, are widely acknowledged by experts such as the FBI and Homeland Security to be among the best-defended facilities in the nation's critical infrastructure. They are safer and more secure today than before 9/11. The industry has collectively invested more than \$2 billion in security measures since 9/11, including physical enhancements, more security personnel, more sophisticated detection and access

**The Next
OCRACES
Meeting Is**

**September 9, 2013
1930 Hours**

**Orange County EOC
Loma Ridge**

**Severe Fire Weather
Patrol Training**



Orange County Sheriff's Department
Sandra Hutchens, Sheriff-Coroner
Communications & Technology Division

Captain's Corner *Continued from page 2*

systems, and closer coordination with local, state, and federal law enforcement, intelligence experts, and the military.”

The Nuclear Energy Institute reports that all nuclear power plants are defended by extremely well-armed and highly trained security officers. “Each plant site conducts quarterly and annual drills for each security team and undergoes an NRC-evaluated ‘force on force’ exercise once every three years. Ongoing integrated response with federal, state, and local law enforcement agencies ensures robust and extensive site protection plans. Based on its regular interactions with federal intelligence and law-enforcement authorities, the NRC (Nuclear Regulatory Commission) establishes the threat against which the in-

dustry must be protected and sets stringent standards that security forces must meet.”

Kuperman maintains those standards are not nearly stringent enough.

Until the spent-fuel pools are safely drained and the radioactive waste completely removed, which would take many years, the risk at San Onofre remains, either from terrorist attack, an accident, or a major tsunami on the scale of Fukushima or worse. For that reason, the SONGS exercises will continue, and OCRACES will be called upon to participate with its emergency communications capabilities, to help protect the more than 8 million people who live within 40 miles of the San Onofre Nuclear Generating Station.

OCRACES Exhibits at Army Reserve Exercise

At the invitation of Roman Kamienski, KG6QMZ, OCRACES exhibited its emergency communications response vehicle on August 3, 2013, at a Communications Exercise at the US Army Reserve Center in Costa Mesa. We discussed amateur radio and emergency communications capabilities with members of the Young Marines and State Military Reserve. Representing OCRACES were Chief Radio Officer Ken Bourne, W6HK, Radio Officers Scott Byington, KC6MMF, and Harvey Packard, KM6BV, Assistant Radio Officers Jack Barth, AB6VC, and Jim Dorris, KC6RFC, Members Sue Mickelson, KJ6LCJ, Fran Needham, KJ6UJS, and Brian Turner, KI6WZS, and Applicant Bob McFadden, KK6CUS. Tours were given of the OCRACES van with its 800-MHz law and fire radios, VHF low-band, high-band, and UHF radios, RACES HF/VHF/UHF radios, and other equipment. Also at the

event were Costa Mesa RACES (MESAC) and Gordon West, WB6NOA, who gave lively presentations on amateur radio to the Young Marines and Army Reserve members. On a table outside the OCRACES van, Jack Barth showed his Powerwerx DB-750X dual-band mobile transceiver, and Bob

McFadden demonstrated his new Icom IC-7100 transceiver covering HF through 70 centimeters.



Lt. Harvey Packard, KM6BV (right), welcomes a Young Marine aboard the OCRACES van for a tour.



Outside the OCRACES van at the Army Reserve event are (left to right) Sue Mickelson, KJ6LCJ, Brian Turner, KI6WZS, Lt. Harvey Packard, KM6BV, Lt. Scott Byington, KC6MMF, Sgt. Jim Dorris, KC6RFC, Sgt. Jack Barth, AB6VC, and Applicant Bob McFadden, KK6CUS.



Sue Mickelson, KJ6LCJ (right), discusses RACES activities with an Army Reserve Sergeant First Class.

Next OCRACES Meeting: September 9, 2013

The next County of Orange RACES meeting is on Monday, September 9, 2013, at 7:30 PM, at the Orange County EOC on Loma Ridge. Orange County Fire Authority Education Specialist Angela Garbiso will give us our annual Severe Fire Weather Patrol training. All OCRACES members as well as City RACES and MOU members who wish to participate with OCRACES on Severe Weather Fire Patrols are required to receive this training. OCRACES applicants may also attend and may participate on patrols after becoming members.

Preparing for Radio Rodeo 2013

The California Statewide Interoperability Executive Committee (CalSIEC) Southern Planning Area (SPA) will host the second annual Radio Rodeo on Tuesday, October 8, 2013. County of Orange RACES will exhibit its emergency communications response vehicle at this event and participate in radio tests. The public-safety radios in the van were recently updated for these tests. The primary purpose of the Radio Rodeo is to conduct radio tests from communications command post vehicles within an Operational Area, and with adjoining participating Operational Areas. As of this writing, the following Operational Areas have confirmed to be participating: Orange County, Riverside County, San Diego County, Santa Barbara County, and Ventura County. Additional counties may also be participating and will be announced as soon as confirmation is received. The location of this year's Radio Rodeo will also be announced as soon as it is determined.

It is hoped that all Orange County agencies will participate this year. The event allows participants to learn about the various interoperable systems and confirms their radios are programmed correctly. It also provides a "one stop shop" for the viewing of these assets by any public-safety agency on the day of the event. OCRACES exhibited its van at the first SPA-wide Radio Rodeo last October.

The following agencies have confirmed participation in the 2013 Radio Rodeo: Anaheim Police Department; Caltrans; Orange County Emergency Medical Services; Orange County Sheriff's Department (Samantha II, RACES, OASIS); and Santa Ana Police Department

Any agency with a communications response vehicle is encouraged to be a part of the 2013 Radio Rodeo. Many agencies also have a RACES or ACS program, and their members are welcome at Radio Rodeo to participate in the interoperability exercise and demonstrate their communications capabilities. An agency or its RACES/ACS vehicle wishing to participate should contact OCSD Communications & Technology Division Director Robert Stoffel, KD6DAQ, at Robert.Stoffel@comm.ocgov.com or 714-704-7919.

Radio Rodeo objectives include:

- ◆ Check for proper renaming/labeling of interoperability and mutual-aid channels
- ◆ Check for narrow-band compliance on VHF and UHF channels
- ◆ Test communications with all participating vehicles of the OA on each band: VHF low, VHF high, UHF, 700 MHz, 800 MHz
- ◆ Test communications on pre-identified interoperability channels with other Operational Areas
- ◆ Establish communications path(s) with the State's EOC and Southern Region EOC
- ◆ Incorporate RACES units testing amateur radio frequencies
- ◆ Demonstrate proper NIM/SEMS protocols, including using "Plain English"
- ◆ Provide participants with useful take-aways: NiFOG, Cal iFOG, local TIC-P

Radio Rodeo timeline:

- ◆ 0600-0730: IC setup; parking lot setup; command staff briefing
- ◆ 0730-0830: Participant check-in and setup
- ◆ 0845: Mandatory participant briefing
- ◆ 0900-1015: Roll call and testing of all on-site assets
- ◆ 1015-1130: Roll call and testing between off-site assets
- ◆ 1130-1200: Vehicle and equipment exhibition
- ◆ 1200: Mandatory participant briefing
- ◆ 1200-1300: Demobilization

The Candy Store

by OCSD Emergency Communications Manager Delia Kraft, KF6UYW

Ham Radio Outlet (HRO), AKA The Candy Store, is located in Anaheim. Candy you say? I found no chocolates at the counter, but I did discover many enticing products throughout the store. I typically don't promote retail companies in the OCRACES newsletter, but I am always looking to write about people that impact the way we do business, and those who promote amateur radio. Janet Margelli, KL7MF, has been working at HRO since 1984. I recently met her, but already I can understand why HRO heavily relies on people like Janet. Her product knowledge is exceptional and she possesses wonderful customer service skills. For the past 3 months, Janet and I worked together to improve the county amateur radio communications system, and with her assistance, the project is going in the right direction. **Thank you Janet!**

The HRO history below was taken from the HRO Web site.

In 1971, a California Highway Patrol officer and veteran of the Navy Signal Corps, who happened to be a ham, came into possession of a little radio emporium on a wooden train platform in Burlingame, CA. Bob Ferrero, who was then K6AHV and later became W6RJ, was a dedicated California Highway Patrolman. He loved ham radio and was determined to make a go of starting a business selling amateur radio products.

Today, HRO is a family-owned business with 12 stores located throughout the United States as well as a formidable presence on the Internet, making it the largest ham radio dealership in the world.

ARRL SW Division Convention: September 6-8

The Santa Barbara Amateur Radio Club has announced the ARRL Southwestern Division Convention (HAMCON), to be held on September 6-8, 2013, at the Marriott Santa Ynez Valley Hotel and Convention Center, 555 McMurray Road, in Buellton.

The focus of this year's convention is on attracting new hams to amateur radio with an emphasis on our young generation of new hams and defining the role of amateur radio at a time when communications for emergency services is being redefined. Events will begin happening on Friday, September 6th, at noon.

A wide range of activities and exhibits includes parking-lot and tailgate swap meet, ARDF and T-hunt exhibits, "how to" workshops, and Maker and DIY exhibits. Saturday evening includes a banquet dinner buffet from 7 to 9 PM, with a keynote address by Andy Seybold, W6AMS, introduced by Gordon West, WB6NOA. Andy's talk, "The Public Safety Broadband Network and Its Impact on Amateur Radio Emergency Communications," addresses the allocation of 20 MHz of spectrum at 700 MHz and partial funding of a nationwide public-safety broadband network to provide data and video services. This network is being designed to provide full interoperability between all first-responder agencies. Andy will predict how and when it will be built, and how it will impact the existing relationships between public safety and the amateur radio community. Andy will discuss what we need to know about this network and its impact, and how soon it will also be able to handle mission-critical voice.

Some of the listed HAMCON events include:

- ◆ Whitebox Handheld SDR—Evolving Smart HT Architectures, Chris Testa, KD2BMH, Sept. 6, 1:00 PM
- ◆ A History of No-Holds-Barred Transmitter Hunting in California, Scott Bovits, N6MI, Sept. 6, 2:00 PM
- ◆ EmComm Forum, Roy Dugger, KF6QEJ, Sept. 6, 4:00 PM
- ◆ Tropo Ducting Forum, Gordon West, WB6NOA, 5:00 PM, Sept. 6
- ◆ Emergency Power—Loads, Sources, and Management, Marty Woll, N6VI, Sept. 7, 8:00 AM
- ◆ Digital Amateur Television (DATV)—A Primer, Joel Wilhite, KD6W, Sept. 7, 9:00 AM
- ◆ Hidden Transmitter Hunting for the Whole Family, Joe Moell, KØOV, Sept. 7, 10:00 AM
- ◆ EmComm Forum, Roozy Moabery, KG6OKB, Sept. 7, 10:00 AM
- ◆ Jungle Radio E-mail for Survival, Grady Williams, K6IXA, Sept. 7, 11:00 AM
- ◆ Encryption and Amateur Radio, HIPAA, and Ham WiFi, Bruce Perens, K6BP, Sept. 7, 12:00 PM
- ◆ Get Digital on HF with FreeDV Digital Voice, Bruce Perens, K6BP, Sept. 7, 1:00 PM
- ◆ WiFi-Like Networks over Amateur Radio—432 and 900 MHz and 5 GHz, Bruce Perens, Sept. 7, 4:00 PM
- ◆ Emergency Radio Go Kit—How to Build It and Use It, Roozy Moabery, KG6OKB, Sept. 8, 11:00 AM

For more information and to register, go to <https://www.swhamcon.com>.



City/County RACES/MOU Meeting: Sept. 16th

The next City/County RACES & MOU meeting is on Monday, September 16, 2013, at 7:15 PM, at OCSD Communications & Technology Division, 840 N. Eckhoff Street, Suite 104, in Orange. At this meeting we will discuss plans for the City/County RACES & MOU drill scheduled for Saturday, October 5th, from 0900 to 1100. We will also discuss the latest developments in our countywide Winlink system. Each organization at the meeting is invited to give a brief run-down of its recent and planned activities.

OCFA Open House: October 12th

OCRACES will exhibit its emergency communications response vehicle at the Orange County Fire Authority Open House, Regional Operations & Training, 1 Fire Authority Road (Jamboree and Tustin Ranch Road), in Irvine, on Saturday, October 12, 2013. The hours open to the public are 1000-1500. We will arrive at 0830 to begin our setup, which we need to complete by 0900. OCFA says that families and their friends will see live fire demonstrations, put out make-believe fires, try on firefighter turnouts, have free food, and discover life and fire safety information in a fun-filled environment. We get some of that free food too—and we get to introduce many youngsters to amateur radio, and explain to the public how RACES provides vital emergency communications during a disaster.

Hams Aid in Tuolumne County Fire Response

Officials in Tuolumne County have tapped RACES and ARES volunteers to help fill communication gaps as part of the response to the gigantic Rim Fire on the outskirts of Yosemite National Park.

Tuolumne County RACES Radio Officer Phil Fish, WB6GGY, told ARRL that with telephone circuits overloaded and cell service spotty, ham radio is keeping open the lines of communications. RACES and ARES members are helping to support communications between local government and the American Red Cross shelter. “They were just hungry for hams,” Fish said of local emergency management officials. “We’ve had a great response from the local ham community.” The Red Cross is sheltering about 100 evacuees.

Other RACES and ARES volunteers are helping to handle telephone traffic in the Tuolumne County EOC. Fish said about two dozen hams have been volunteering and putting in “some long days.” Tuolumne County ARES EC Carl Croci, NI6Z, said volunteers from Calaveras County ARES also have been pitching in. Fish described the terrain in Tuolumne and Mariposa Counties as “very, very, very rugged,” and he expects the Rim Fire is unlikely to be out for months.

According to the National Interagency Fire Center (NIFC) and posted on the ARRL Web site on August 26th, the Rim Fire now covers nearly 144,000 acres, with 14,360 acres burned over in the past 24 hours. The Rim Fire is threatening about 4,500 structures and has destroyed at least 23, according to the U.S. Forest Service. Roads into Tuolumne City are closed due to heavy emergency traffic, and only community residents and emergency officials are permitted to pass.

The *Orange County Register* on August 27th reported that among the crews working against the flames are 43 firefighters from the Orange County Fire Authority. A brush fire strike team was sent, consisting of five engines, as well as an additional engine and 21 firefighters, according to Capt. Steve Concialdi. Twenty-two people were sent to help with logistics. Anaheim, Garden Grove, and Fountain Valley have also dispatched engines and personnel to the fire.

Buy a Museum Hat!

Help support the Orange County Sheriff's Museum & Education Center by purchasing a collectable ball cap with the Museum's 1962 Chrysler Newport Sheriff's car logo printed on the front of the cap.

The Museum is chartered to protect the history and artifacts of the Sheriff's Department and to foster youth safety and anti-drug-abuse programs. The purchase price for the cap (\$20.00, including tax) is federal tax deductible as a donation to the non-profit 501(c)(3) Museum, which receives no funding from county government.

You may purchase your cap from Museum Founder/Co-Director Ray Grimes, N8RG, or Museum Executive Staff Member Ken Bourne, W6HK.

The Museum also needs substantial donations in order to develop a permanent facility to display its vast collection of artifacts, where individuals and groups will be welcome. A modest display may currently be seen in the lobby of the Orange County Sheriff's Regional Training Academy, 15991 Armstrong Avenue, in Tustin.

Visit the Museum's Web site at <http://www.ocsheriffmuseum.com>.

RACES/MOU News from Around the County

"RACES/MOU News" provides an opportunity to share information from all City & County RACES/ACS units and MOU organizations in Orange County.

Please send your news to NetControl Editor Ken Bourne, W6HK, at: w6hk@ocraces.org

Costa Mesa RACES (MESAC)

On September 20-21, 2013, MESAC (Costa Mesa RACES) will provide communications support for the annual Cross Country Classic at Estancia High School in Costa Mesa. The event will host 10,000 High School runners over the two-day event. The races will begin at 5:00 PM on Friday and 4:00 PM on Saturday and end at approximately 10:00 PM each day. The course is lit. This is not an official RACES event. Radio Officer Mike Oviatt, KE6IWM, requests assistance from any communicators that are available to help for all or part of the event. Links for the event: <http://cross-country-classic.runnerspace.com> and <http://gvarvas.com>. Any interested parties should contact Mike at 949-645-4891 or moviatt@earthlink.net.

Huntington Beach RACES

Huntington Beach RACES Public Information Officer Wayne Yoshida, KH6WZ, demonstrated amateur radio in his display at the OC Mini Maker Faire at the UCI campus on August 17, 2013. Included was a complete amateur microwave station on 10 GHz. (See photo below by HBRACES Member Bill Prats, K6ACJ.) Wayne attempted to make contacts from this station during the ARRL 10 GHz and Up Contest, held the same weekend as the Faire.

"Makers" from all over Southern California gathered together at the Faire to show and tell about their amazing hobbies or creations. Wayne's was the only ham exhibit.



Hospital Disaster Support Communications System (HDSCS)

At 11:45 PM on Thursday, July 18, 2013, all 120,000 customers of San Diego Gas and Electric in southern Orange County lost power, including residents of Laguna Hills, Laguna Beach, Mission Viejo, and San Clemente. Four hospitals supported by HDSCS are in these communities, and all of them were immediately checked by HDSCS members to insure that the telephones in those facilities had not failed. No phone failures were reported, but San Clemente Hospital requested an HDSCS member to be an on-site standby for the duration of the outage. John Walker, AC7GK, responded, set up his portable station in the Hospital Command Post, and was in contact with HDSCS Net Control Ken Simpson, W6KOS, until power was restored around 3:00 AM.

HDSCS Emergency Coordinator April Moell, WA6OPS, spoke at the August 5th County of Orange RACES meeting at Loma Ridge. She covered details of HDSCS operations, emphasizing that lives are at risk in hospitals without communications.



HDSCS Founder April Moell will speak at the 2013 ARRL Southwestern Division Convention in Buellton on September 7th at 11:00 AM. Her presentation will be on amateur radio's role in hospital emergency communications. HDSCS will also have an information table in or near the convention exhibit area for questions and answers.

HDSCS consists of about 80 hams who have volunteered to provide backup internal and external communications for critical medical facilities in Orange County.

September 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Labor Day	3	4	5	6 ARRL HAMCON	7 ARRL HAMCON
8 ARRL HAMCON	9 OCRACES Meeting & Weekly ACS Net	10	11	12	13	14
15	16 City/ County Meet- ing & Weekly ACS Net	17	18 SONGS Dress Re- hearsal Exer- cise	19	20	21
22	23 Weekly ACS Nets & SWACS Radio Test	24	25	26	27	28
29	30 Weekly ACS Net					

Upcoming Events:

- **Sep 2:** Labor Day, no meeting, no nets
- **Sep 6-8:** ARRL Southwestern Division HAMCON, Buellton
- **Sep 9:** OCRACES Meeting, 1930, Orange County EOC, Loma Ridge; Severe Fire Weather Patrol training
- **Sep 16:** City/County RACES & MOU Meeting, 1915, 840 N. Eckhoff Street, Suite 104, Orange
- **Sep 18:** SONGS Dress Rehearsal Exercise (primary and alternate players)
- **Sept 23:** OCRACES 2-m, 70-cm, 6-m nets, 1900, 1915, 1930; Cal OES 75-m net, 2000; SWACS Frequency/Radio Test, 2015
- **Oct 5:** City/County RACES & MOU Drill, 0900-1100
- **Oct 8:** Radio Rodeo
- **Oct 12:** OCFA Open House, 1000-1500, 1 Fire Authority Road, Irvine
- **Oct 23:** SONGS Evaluated Exercise (primary players only)



www.ocraces.org



Mission Statement

County of Orange RACES has made a commitment to provide all Public Safety departments in Orange County with the most efficient response possible to supplement emergency/disaster and routine Public Safety communications events and activities. We will provide the highest level of service using Amateur and Public Safety radio resources coupled with technology, teamwork, safety, and excellence. We will do so in an efficient, professional, and courteous manner, accepting accountability for all actions. We dedicate ourselves to working in partnership with the Public Safety community to professionally excel in the ability to provide emergency communications resources and services.

County of Orange RACES Frequencies

6 m: 52.620 MHz output, 52.120 MHz input, 103.5 Hz PL
 2 m: 146.895 MHz output, 146.295 MHz input, 136.5 Hz PL*
 2 m: 147.480 MHz simplex
 1.25 m: 223.760 MHz output, 222.160 MHz input, 110.9 Hz PL
 70 cm: 446.000 MHz simplex
 70 cm: 449.100 MHz output, 444.100 MHz input, 110.9 Hz PL (private)
 70 cm: 449.180 MHz output, 444.180 MHz input, 107.2 Hz PL (private)
 23 cm: 1287.650 MHz, 1287.675 MHz, 1287.700 MHz, 1287.725 MHz, 1287.750 MHz, and 1287.775 MHz outputs, -12 MHz inputs, 88.5 Hz PL
 *Primary Net—Mondays, 1900 hours

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Radio Officers (Lieutenants)
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Assistant Radio Officers (Sergeants)
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Questions or Comments?
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**“W6ACS ...
Serving
Orange County”**

Meet your County of Orange RACES Members!



Ken Bourne
W6HK



Scott Byington
KC6MMF



Harvey Packard
KM6BV



Ralph Sbragia
W6CSP



Delia Kraft
KF6UYW



Marten Miller
KF6ZLQ



Robert Stoffel
KD6DAQ



Jack Barth
AB6VC



Chuck Dolan
KG6UJC



Jim Dorris
KC6RFC



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John Bedford
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Randy Benicky
N6PRL



Bill Borg
KG6PEX



Nancee Graff
N6ZRB



Ray Grimes
N8RG



Walter Kroy
KC6HAM



Martin La Rocque
N6NTH



Brian Lettieri
KI6VPF



Sue Mickelson
KJ6LCJ



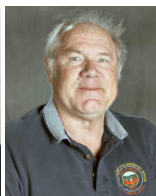
Fran Needham
KI6UJS



Marty Oh
KJ6RWE



Tom Riley
K6TPR



John Roberts
W6JOR



Joe Selikov
KB6EID



Tom Tracey
KC6FIC



Brian Turner
KI6WZS