

April 2021



Newsletter of the County of Orange Radio Amateur Civil Emergency Service

Captain's Corner

by RACES Captain Ken Bourne, W6HK, Chief Radio Officer

OCRACES Transferred to EMD

On Monday, March 22, 2021, the coordination of County of Orange RACES was transferred from the OCSD Technology Division to the OCSD Emergency Management Division. Furthermore, OCRACES will soon be administered as a special RACES Unit by the OCSD Mutual Aid / Reserve Bureau, as all members (who are not already) become PSRs (Professional Services Responders) or sworn Reserve Deputies.

OCRACES will be deployable by the Emergency Management Division (EMD) and by the Mutual Aid / Reserve Bureau. The Emergency Communications Bureau (Control One) may also request our activation. OCSD/Technology will continue to support OCRACES. We thank Peter Jimenez, KI6UTE, and Erik Schull, KE6B-VI, for their strong support as they coordinated OCRACES. Assistant Emergency Manager Lee Kaser, KK6VIV, and Interim Emergency Management Division Director Michelle Anderson will now oversee the coordination of OCRACES.

OCRACES meetings will continue to be monthly. While we still have the COVID-19 situation, we will continue to meet on Zoom. A survey of members' meeting desires suggests that we might eventually meet quarterly in-person, and on Zoom during the other months. Because our in-person meeting attendance usually averaged about 15 to 20, and our Zoom meetings now average about 40 to 50, we might even decide to continue Zoom meetings after everyone is vaccinated. In-person

meeting locations will vary—sometimes at Loma Ridge, sometimes at the Sheriff's Academy in Tustin, and perhaps sometimes back at Eckhoff in Orange.

OCRACES will continue to respond to callouts (now by EMD) as we have done before, such as to Loma Ridge during fire storms, earthquakes, mudslides, etc. We will continue to conduct Severe Fire Weather Patrols and report conditions to EMD from the field if they need observers during emergencies. We will continue to conduct weekly nets, hold communications exercises, and increase our technical knowledge and capabilities. As we become a RACES Unit within the OCSD Mutual Aid / Reserve Bureau, our opportunities to serve will increase. For example, we might be asked to set up and operate a communications command post for the Search & Rescue Reserve Unit (SRRU) during their exercises and callouts. Besides belonging to the RACES Unit, RACES PSRs can serve in SRRU or other Reserve Units, such as the Investigative Reserve Unit (IRU). Seven OCRACES members are currently in IRU, serving in the High-Tech Services Reserve Squad. (I am the IRU PSR Director.) Many other opportunities exist to serve as PSRs, such as being actors during Reserve training exercises, patrolling contract cities, etc.

It looks like we will now be busier than ever, but it will be satisfying and enjoyable as we work together to provide auxiliary emergency communications to the Sheriff's Department during disasters and training exercises.

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**OCRACES
Online Meeting
on Zoom:

Monday,
April 5, 2021, at
7:30 PM**

Hams Help Fill Earthquake Info “Donut Hole”

An article describing how radio amateurs can help fill the information “donut hole” by providing post-earthquake “did you feel it” (DYFI) reports via Winlink HF radio email appeared on February 22 in the American Geophysical Union (AGU) magazine *Eos*. (See <https://eos.org/science-updates/amateur-radio-operators-help-fill-earthquake-donut-holes>.) As the article points out, “Ham radio networks gear up to provide real-time, on-the-ground information about earthquake shaking and damage when other communication pathways are knocked out of commission.” Authors of the article were David J. Wald of the US Geological Survey (USGS), Vincent Quitoriano, and Oliver Dully, K6OLI.

As the article explains, DYFI uses a questionnaire to gather individuals’ experiences and observations, and USGS uses the information to evaluate the shaking intensity at that person’s location. DYFI has been in operation since 1999 in the US and 15 years around the world, during which the USGS has gathered more than 5 million individual DYFI intensity reports.

The article notes that a potential problem is that “public access to it may be compromised as a result of strong earthquake shaking,” with affected individuals experiencing power and communication outages or may be distracted by more immediate priorities.

“USGS and other global seismic network operators have witnessed report ‘donut holes’ in areas of strong shaking due to loss of Internet communication,” the article said, “most recently during the magnitude 5.7 earthquake that hit near Salt Lake City in March 2020.” The article suggested that “alternative pathways” of communication are needed to “gather important ground-truth shaking data with minimal delay.” And this is where amateur radio groups come into play.

“We now expect to sample the donut hole with the help of amateur radio groups worldwide,” the article’s authors said. “These groups, which already provide emergency communications capabilities to government agencies, hospitals, and other critical users during emergencies and disasters, can mobilize a significant number of licensed radio operators after a strong earthquake, especially near large population centers, ensuring a baseline level of macroseismic intensity reporting, even in heavily affected areas.”

As the article explains, USGS has partnered with Winlink, a radio email platform with more than 28,000 users worldwide, and with ARRL Amateur Radio Emergency Service (ARES®) members. “In June 2020, Winlink experts adapted the USGS DYFI questionnaire to their software platform, and this version is now available to all licensed amateur radio operators.”

This means that, during a major earthquake, Winlink users can send their responses via radio to far-away receiving stations if they’ve lost Internet service. “These unaffected, out-of-area stations, or gateways, can then forward data via the Internet to USGS for immediate analysis,” the article said.

Several RACES units in Orange County are proficient with Winlink and are equipped to provide DYFI earthquake reports to USGS.

Comm Academy Set for April 10-11, Online

The 2021 Comm Academy is two days of training, talks, and information on emergency communications. This year's theme is *Disasters Here, There, and Everywhere—Are We Ready?* Comm Academy is an emergency communications and amateur radio conference to be held April 10-11, 2021. Registration is completely free, and you must register to gain access to the complete schedule and academy materials. It is entirely virtual and hosted online. Go to <https://www.eventbrite.com/e/comm-academy-2021-registration-128723057129?ref=elink>.

Headquartered in Seattle, Washington, Comm Academy is attended and supported by organizations including: ARES; Auxiliary Communications Service (ACS); EOC Support Teams; RACES; Civil Air Patrol; Coast Guard Auxiliary; REACT; and CERT, among others. All interested in emergency and amateur radio communications are welcome. Learn, network, and share your experiences with others.

The Comm Academy steering committee says that the annual event has continued to evolve by presenting keynotes and seminar tracks that engage beginner, intermediate, and advanced users in technologies, served agency support, volunteer management, self-preparedness, and how volunteer and professional communications are used, adapted, and improved. The leadership has reviewed how it can preserve the direction and focus of the event while restricted by the pandemic. The event is always focused on education for communications leaders, volunteers, and professionals.

Thanks to The ARES Letter for March 17, 2021, from ARRL—Editor.

Next OCRACES Meeting: April 5th, on Zoom

OCSD Technology Division Director Dave Fontneau, Emergency Management Division (EMD) Interim Director Michelle Anderson, and EMD Assistant Emergency Manager Lee Kaser, KK6VIV, will be our featured speakers at the next OCRACES meeting on Monday, April 5, 2021, at 7:30 PM, which will once again be on Zoom. They will talk about the recent transition of OCRACES from the Technology Division to EMD and how that affects OCRACES activities and responsibilities. Dave will also talk about the current structure and mission of the Technology Division. This division was formed on March 13, 2020, when the OCSD Administrative Services Command (ASC) was reorganized. Two of the primary technology areas within ASC—Radio Communications and Information Technologies (IT)—were merged into a new division—the Technology Division—made up of the Information Technology Bureau of the Support Services Division and the Communications & Technology Division. Dave was the Communications & Technology Division Director and became the Director of the new Technology Division.

Joe Selikov, KB6EID, will once again be the Zoom meeting host. For security reasons, please use the latest version of Zoom, which currently is 5.6.0. The meeting link, ID, and passcode will be emailed to county and city RACES and other EmComm members and OCRACES applicants.

Steve Livingston, NJ6R, Joins OCRACES

Welcome to Steve Livingston, NJ6R, who became a County of Orange RACES member on Thursday, March 25, 2021. As one of his qualifications, Steve is an OCSD Professional Services Responder (PSR).

Steve received his Amateur Radio Technician license in February 2017 and his General and Extra license in March 2017. He started attending Newport Beach RACES meetings in April 2017 and became an NBRACES member in October 2018. He was appointed Chief Radio Officer of NBRACES in March 2020. He has participated in four ARRL Field Day exercises and became proficient in the FT8 mode. He is a Life Member of ARRL.



Steve Livingston, NJ6R.

Protect Your Car's Catalytic Converter

RACES members depend on their vehicles for attending meetings and communications exercises, responding to activations and callouts, direction finding to locate radio interference, etc. We typically keep our vehicles and installed radios in top condition and make necessary repairs immediately when necessary. But what if you start your car some day and it sounds louder than a motorcycle? Most likely, you would be the victim of a catalytic-converter theft, which is becoming more frequent in Orange County and elsewhere, especially during the pandemic. The Orange County Sheriff's Department recorded 83 such thefts in 2019. In 2020, the recorded thefts increased to 542.

Thieves are getting increasingly professional. Many drive around in teams with a jack and reciprocating saw, pull next to a car, slide the jack under the car and give it a couple of pumps, and cut the exhaust pipe with the saw, and the catalytic converter drops out, all in about 45 seconds. The thieves then throw the part in their trunk with the jack and saw and drive away. (If you spot such a theft in action, immediately call 911 or report by radio, including license plate.)

Victims typically have to pay several hundred or even thousands of dollars to replace the stolen part. On older vehicles, a replacement might be a challenge to find.

A catalytic converter is part of a car's exhaust system. It contains a catalyst that converts harmful gases such as carbon monoxide into water, nitrogen, and less-harmful carbon dioxide. Thefts are becoming more lucrative due to increasing value of some of the precious metals used in the manufacture of catalytic converters, including rhodium, palladium, and platinum. In the past five years, the price of an ounce of palladium and rhodium has soared from \$500 and \$640, respectively, to about \$2,300 and \$27,000. Thieves typically get \$100 to \$200 for a catalytic converter, and middlemen (some mechanics, recyclers, and others) reportedly pay between \$200 to \$500 a piece.

To thwart some thievery, the Los Angeles County Sheriff's Department has organized events to etch a car's license plate or partial vehicle identification numbers onto catalytic converters, using a carbon-tipped engraver. VIN etching can be done at a shop or at home. You can also pay a mechanic to weld bolts on your catalytic converter, or you can buy a "cage clamp" device that will make theft much more difficult. An obvious precautionary tactic is to park your car in a locked garage or keep it in a well-lit area.

Reserve Bureau to Administer OCRACES

Most OCRACES members who are not PSRs (Professional Services Responders) attended the PSR orientation on March 11, 2021, and the PSR prescreen on March 20th at the Sheriff's Academy in Tustin, in order to proceed toward meeting requirements that all members must be Reserves (sworn or non-sworn). Several OCRACES applicants also attended those events. The OCSD Mutual Aid / Reserve Bureau will soon be administering OCRACES members, and the coordination of the RACES Program was shifted on March 22, 2021, from the OCSD Technology Division to the Emergency Management Division.

Future OCRACES applicants will go through the same process of attending the PSR orientations and prescreens. First they must fill out the Reserve Interest Form at <https://ocsd.typeform.com/to/feMqPo>. The next PSR orientation is on Thursday, May 13th, at 6:30 PM, at the Sheriff's Academy, followed by the PSR prescreen on Saturday, May 22nd, at 9:00 AM. They receive a PSR application at the orientation and submit it at the prescreen. Applicants will follow that with submitting a RACES application. Applicants also need to attend three RACES meetings (online or in person). After passing background, they will obtain a PSR uniform and sign a DSW form and get sworn in.

Each member of RACES needs to obtain the following certifications within the first three months of becoming a RACES PSR.

- **IS-100.C: Introduction to the Incident Command System**
<https://training.fema.gov/is/courseoverview.aspx?code=IS-100.c>
- **IS-200.C: Basic Incident Command System for Initial Response**
<https://training.fema.gov/is/courseoverview.aspx?code=IS-200.c>
- **IS-700.B: An Introduction to the National Incident Management System**
<https://training.fema.gov/is/courseoverview.aspx?code=IS-700.b>
- **IS-800.D: National Response Framework, An Introduction**
<https://training.fema.gov/is/courseoverview.aspx?code=IS-800.d>

Although optional, it is highly suggested to have an understanding of and have read **Auxiliary Emergency Communications Overview : Units 1, 2, and 10**. This is an overview of the Auxiliary Communications (AUXCOMM) position including the responsibilities, roles, and functions within the COMU, as well as roles and functions of Auxiliary Emergency Communications (AEC). Click on <https://www.cisa.gov/publication/comu-training-documents>.

The AUXCOMM course had been offered some time ago. It is an excellent course to take when it is offered and it dives deep into the roles and responsibilities of Auxiliary Communications Groups such as RACES and how they tie into the EOC.

OCRACES members who have not already completed the IS-100, -200, -700, and -800 certifications are asked to do that soon. Send copies of your completion certs to RACES Coordinator Lee Kaser, KK6VIV, in the OCSD Emergency Management Division. If you can't find your certs, you can obtain a transcript of your certs from FEMA Emergency Management Institute. Also send Lee a copy of your FCC amateur radio license. Please follow the above procedures as we enjoy working together to expand our RACES unit and to enhance our service to the Sheriff's Department and to the community.

AG6AG Posts Informative Videos on YouTube

Ventura County ACS member Stu Sheldon, AG6AG, has posted many instructional videos on YouTube that are helping radio amateurs active in RACES and other emergency communications groups. Go to <https://www.youtube.com> and type "AG6AG" in the search field to access his videos. Some of his video titles include:

- Interfacing Sound Modem and Winlink to Send Email via Packet
- Short Tutorial on Setting Up and Using VaraHF with Winlink Software
- Using Outpost with Soundmodem for VHF UHF Packet Operation
- Getting Your SignalLink Set Up. How to Order, Program, and Set One Up for Your Radio
- Using Soundmodem and EasyTerm for FM Packet Operations
- Using External Antennas to Get Better HT Performance
- Fast Install of N3FJP Field Day Logging Software
- Connecting Your Rig to N3FJP via CAT Control
- Reducing HF Noise Using Antenna Phasing with the MFJ-1026
- Configuring FLDigi to Use Ambient Analog Encoding and Decoding
- Interfacing FLDigi with N1MM+ for PSK31, RTTY, and Other Digital Modes
- JT65, FT8, FT4, and More...
- Using an SDR as a Panadapter

City/County RACES & MOU Drill: May 1st

The next City/County RACES & MOU ACS Exercise will be held on Saturday, May 1, 2021, from 0900 to 1100 hours. Because we don't know if the RACES Room at Loma Ridge will still be "off limits" on May 1st due to the COVID-19 pandemic, we will plan on conducting net control from a member's home location or from a hilltop location by a RACES PSR who has signed, completed, and submitted the COVID Waiver of Release Form to the OCSD Reserve Bureau. (On February 4, 2021, the Reserve Bureau announced that PSRs are cleared for in-person meetings, events, etc., if they have submitted the COVID form and agree to follow all COVID-19 safety protocols when in service.) As during the previous two City/County/MOU exercises, this will be a Portable Drill, simulating repeater failure. It will be held on 2 meters simplex and on 60 meters, taking advantage of Near Vertical Incidence Skywave (NVIS) propagation.

Members will operate portable stations from their own property (such as their backyard) or from a "socially distant" open area, using battery power and portable antennas. From 0900 to 1000 hours, operations will be on the 146.595 MHz OCRACES simplex frequency. Alternate net controls and/or relay stations will be appointed throughout the county, so that even low-power handheld radios should be able to check in.

This will be an "open" drill, and non-RACES visitor stations will be allowed to check in. Drills that allow non-RACES members to participate give us practice in communicating with all radio amateurs (even "untrained") during an emergency, while maintaining net efficiency, and are a good way to recruit new RACES members.

One purpose of a drill like this is to detect faulty operation, such as stations transmitting intermittent signals, having poor transmit audio, or being off frequency. Ideally, participants should make a note of the planned frequencies well ahead of the drill and program those frequencies into their radios. Frequency steps might also need to be programmed, such as 5 kHz on 2 meters and 20 kHz on 440 MHz (referencing a common frequency such as 446.000 MHz). Participants with Yaesu radios need to make sure that their "ARTS" function is disabled. Otherwise the radio will transmit a beep at PTT in place of voice audio, followed by dead carrier silence for the first three seconds.

During the first 15 minutes of the exercise (0900-0915 hours), each City and County RACES and MOU or other EmComm unit will conduct a roll call of its members on its primary simplex frequency. OCRACES will call its members on 146.595 MHz. If necessary, agencies (especially OCRACES and MOUs) may need to appoint relay stations for countywide coverage.

From 0915 to 0955 hours, OCRACES net control will call the roll of City RACES and MOU units on 146.595 MHz simplex. The Chief Radio Officer or Coordinator (or designated member) of each unit will respond, with a report of the number of stations that checked in on the unit's primary simplex frequency. Relay stations will assist OCRACES net control in covering Cities in South County and West County on 146.595 MHz.

OCRACES net control will begin the drill by calling for check-ins from cities in alphabetical order, then from MOUs, and finally from OCRACES members.

Beginning at 1000 hours, the Portable Drill will be conducted as part of the normal Saturday morning 60-meter OCRACES ACS net on 5371.5 kHz upper sideband ("channel 4" dial frequency). This net covers the 11 counties in the Cal OES Southern Region plus northern Arizona and southern Nevada. After calling the regular Saturday roll call of Orange County City and County RACES stations, net control will then stand by for additional RACES and MOU stations in Orange County. Relay stations such as W6CAW in Campo and N6WIX in Ventura will assist net control for covering various areas of Orange County. Net control will then call the normal Saturday roll of RACES/ACS stations outside Orange County, followed by the non-EmComm stations. Home stations may check in, but portable operation is preferred (using battery power and portable antennas such as Hamsticks, end-fed wires, etc.). The 60-meter net and overall drill will conclude at 1100 hours.

Radio Rodeo Might Include RACES

OCSD Emergency Communications Bureau (Control One) Supervising Communications Coordinator Derek Gard, KK6VGY, advised OCRACES that the annual Radio Rodeo might once again include a RACES component. The tentative event is currently in a planning stage for Wednesday, May 19, 2021. It is a multiple-county training exercise hosted by the California Statewide Interoperability Executive Committee (CalSiec) Southern Planning Area (SPA). Agencies bring their communications vehicles to the Radio Rodeo site, set them up, and then participate in structured radio testing on all interoperability channels over all public-safety frequency bands. Agency personnel test their radio equipment and ensure correct programming and functionality of their radios.

RACES/MOU News from Around the County

Laguna Woods RACES

February 13th Tabletop Exercise

*By Chief Radio Officer Bruce Bonbright,
NH7WG*

The City of Laguna Woods RACES team conducted a tabletop exercise on Saturday, February 13, 2021 via Zoom. The exercise assumed a 6.5 earthquake in Southern California that resulted in widespread damage. In our area, overpasses and bridges were impacted and there was minor to moderate damage to buildings throughout the City. Approximately 50% of the City had no power, cell, or Internet service and the rest had intermittent power, cell, and Internet. Many traffic lights were out completely and the rest were flashing. Trees were down, in some cases blocking roadways.

According to the scenario, the City had activated its RACES team and the Laguna Woods Village had activated the Disaster Task Force (DTF). (City RACES members are also members of the Village DTF.) During the two-hour exercise, RACES members discussed how they handle and overcome numerous challenges, including:

- The process for checking into the Emergency Net and getting to your assigned location.
- Problems getting to the deployment location.
- Problems getting the radio equipment working.
- How to cover additional assignments with limited resources.
- What to do if you find the location is unsafe.
- How to integrate volunteer non-RACES radio operators.
- How the Village (DTF) EOC would communicate with the City (RACES) EOC radio operators.
- What to do if you are overwhelmed with the number of emergency messages that need to be sent.
- How to make best use of the two repeaters and four simplex frequencies that we use locally.

The exercise was considered an outstanding success by everyone participating

and we plan on making it a regular training event. One of the keys to success was in getting everyone involved in the discussions and sharing their ideas. We guarded against having RACES leaders “teaching” and thus reducing free discussion. Instead we had a ground rule that all ideas are valuable and that there are often many ways of solving a problem. We also didn’t worry about finishing the exercise script during the two hours we scheduled. Instead we placed a greater priority on discussion. We will continue with the items we didn’t have time to cover at our next regular (Zoom) RACES meeting.

Newport Beach RACES

The Newport Beach Police Department has ended their RACES Program, effective March 19, 2021. All members were thanked for their time, service, and dedication to the program. They were encouraged to join the County of Orange RACES or other volunteer group.

NBRACES has served the city for almost 45 years. Members are considering whether to form their own EmComm group. The repeater frequencies are assigned to the Newport Beach Repeater Club and Gary Standard, K6GSX, is the president and owns the two functioning repeaters.

NBRACES Chief Radio Officer Steve Livingston, NJ6R, has now become an OC-RACES member. As an OCSD PSR, he qualified immediately after passing the applicant interview.

Orange County SKYWARN

Orange County SKYWARN Coordinator Scott O’Donnell, WX6STO, at the request of Mark Moede with NWS San Diego, activated OC SKYWARN at 7:00 AM on Wednesday, March 10, 2021, for rain, snow, and storm damage reports. Scott asked members to monitor their repeater and report rainfall (how much rain in a given time), flooding (especially that threatens life or property or disrupts traffic), wind (gusts over 40 mph and all wind-related damage), and funnel clouds, waterspouts, or any rotating clouds. Scott deactivated OC SKYWARN that night at 6:23 PM.

“RACES/MOU News” provides an opportunity to share information from all City & County RACES/ACS units and MOU organizations and supportive amateur radio clubs in Orange County.

**Please send your news to
NetControl
Editor Ken
Bourne, W6HK,
at:**

kbourne.ocsd@earthlink.net

April 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3 Weekly 60 m ACS Net
4	5 Weekly 2 m ACS Net & OCRACES Zoom Mtg	6	7	8	9	10 Weekly 60 m ACS Net
11	12 Weekly 2 m ACS Net	13	14	15	16 Orange County Amateur Radio Club Meeting	17 Weekly 60 m ACS Net
18	19 Weekly 2 m ACS Net	20	21	22	23	24 Weekly 60 m ACS Net
25	26 ACS Net on 4 Bands	27	28	29	30	

Upcoming Events:

- **April 5:** OCRACES Meeting on Zoom, 1930 hours
- **April 15:** Orange County Amateur Radio Club Meeting on Zoom, 1900 hours
- **May 1:** City/County RACES & MOU ACS Exercise, 0900-1100 hours
- **May 13:** Orientation for PSRs, Sheriff's Academy, 1830 hours
- **May 19:** Radio Rodeo
- **May 22:** Pre-Screen for PSRs, Sheriff's Academy, 0900 hours



<https://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

60 m: 5371.5 kHz USB (dial) (Channel 4) (OC ACS Net—Saturdays, 1000 hours)
 40 m: 7250 kHz LSB
 10 m: 29.640 MHz output, 29.540 MHz input, 107.2 Hz PL (out of service)
 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: 146.595 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: 448.320 MHz output, 443.320 MHz input, 141.3 Hz PL (private)
 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)
 70 cm: 449.680 MHz output, 444.680 MHz input, 131.8 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

OCSD RACES Coordinator
 Lee Kaser, KK6VIV, 714-628-7081

Radio Officer (Lieutenant)
 Scott Byington, KC6MMF

Chief Radio Officer (Captain)
 Ken Bourne, W6HK, 714-997-0073

Assistant Radio Officers (Sergeants)
 Jack Barth, AB6VC
 Ernest Fierheller, KG6LXT
 Bob McFadden, KK6CUS
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County of Orange RACES

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Questions or Comments?
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**"W6ACS ...
Serving
Orange County"**

Meet Your County of Orange RACES Members!

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Scott Byington
KC6MMF



Jack Barth
AB6VC



Ernest Fierheller
KG6LXT



Bob McFadden
KK6CUS



Tom Tracey
KC6FIC



Randy Benicky
N6PRL



Ray Grimes
N8RG



Peter Jimenez
K16UTE



Walter Kroy
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Martin La Rocque
N6NTH



Steve Livingston
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Don Mikami
N6ELD



Fran Needham
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**OCSD
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Coordinator



Lee Kaser
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