July 2018

County of Orange RACES
NetControl

Newsletter of the County of Orange Radio Amateur Civil Emergency Service

Next OCRACES Meeting:

**Monday,
July 9, 2018,
at 1930 Hours**

**840 N. Eckhoff
Street, Suite 104,
Orange**

**Hawaii RACES
and SATERN**

Orange County Sheriff's Department
Communications & Technology Division

Captain's Corner
by RACES Captain Ken Bourne, W6HK, Chief Radio Officer

Beware of Cyber Bad Guys

I have been receiving many e-mails from County and City RACES members who like to share political statements, humor, philosophies, nature scenes, etc., including attachments. I never open attachments, unless I am positive they are safe or government related, such as directly from OCSD/Communications or the OCSD Reserve Bureau.

I don't want to offend my friends who send me attachments that they consider to be very interesting. Most often, their e-mails with attachments were originally received from other sources, and are simply forwarded to me. Opening such attachments, especially if they originate from an unknown source, is very dangerous.

One of the City RACES members who has consistently sent me such e-mails now has a computer (or e-mail server) that has been hacked, and sends strange messages without his knowledge. These messages contain a line (typically in poor English) and a hyperlink. Clicking on that link would surely direct you to a website that would infect your computer with viruses or malware, and then your computer, too, would send dangerous messages to those in your address book, unbeknownst to you.

I asked one of my ham friends, who forwards "interesting" e-mails with attachments virtually every day, if he has ever had a computer virus problem. He admitted that he has, and, after a computer professional "cleaned" his computer, he still is unable to open "docx" Word files. He can only open the older "doc" files. That, of

course, makes me fearful of opening any e-mail that I receive from him, especially if photos are attached. I certainly will never click on a link in his e-mails.

Make sure you install the very latest updates to your operating system, as well as to your software and apps, not only on your desktop or laptop, but also on your smartphone. Updates commonly incorporate the latest security measures.

Even by taking extreme precautions on which websites you visit and which e-mails you open, and keeping your virus checker and operating system updated, it's still likely that your computer has some malware embedded in it. For that reason, US Army Military Auxiliary Radio System (MARS) Headquarters is recommending that MARS members "migrate to standalone computer systems for MARS radio operations," subject to the availability of a dedicated computer.

"These computer systems (or their associated local area networks) should be 'air-gapped' from the Internet," Army MARS Headquarters Operations Officer David McGinnis, K7UXO, said in a message to members.

McGinnis pointed to remarks by Cisco researchers in a recent *Ars Technica* article about *VPNFilter* malware: "Hackers possibly working for an advanced nation have infected more than 500,000 home and small-office routers around the world with malware that can be used to collect communications, launch attacks on others, and permanently destroy the device with a sin-

Captain's Corner *Continued from page 1*

gle command."

"The most effective way to protect against threats that come from the Internet is to isolate from the Internet," McGinnis added. "Despite a stand-alone environment, we assume that all computer systems in private citizens' hands are infected with hostile software code of some sort and are not secured," he said. "No amount of virus and malware scanning software changes that assumption. We can, however, isolate computers by disconnecting them from the international network in which hostile software will report and receive instruction."

Cyberattacks are getting worse. Will a cure finally be found, perhaps with artificial intelligence (AI)? Cylance, an Irvine-based cybersecurity firm, uses AI to predict cyberattacks on computer networks. Cylance co-founder and CEO Stuart McClure said, "We're creating a digital immune system that's impenetrable. It's a very disruptive solution."

In 2014, Cylance launched CylanceProtect, a hacking-prevention tool that analyzes the makeup of a computer file. It can determine with 99 percent accuracy whether something is malignant, according to the company.

Malware and virus infections can come not only from e-mail attachments and clicking on links that take you to a bad website, but also from supposedly innocent devices such as USB flash drives. Beware of bargain flash drives that you buy off of eBay, especially if they are from China. Even if you ensure they are free of malicious software, they could have malicious firmware. The flash drive could appear to function normally, but the firmware could modify files as they leave the device and route traffic over malicious servers.

OCARC Has Successful Field Day

Participation was very good at the Orange County Amateur Radio Club 2018 Field Day at the Walter Knott Education Center near Knott's Berry Farm in Buena Park. Setup began on Friday, June 22nd, and operations occurred on Saturday, June 23rd, beginning at 1100 hours, and lasted until 1100 hours Sunday, June 24th. Stations in operation included 10 m/40 m SSB (Chip Margelli, K7JA, band captain), 10 m/40 m CW (Kenan Reilly, KR6J, band captain), 15 m/80 m SSB and CW (Tim Goeppinger, N6GP, band captain), 20 m SSB (Ron Mudry, W6WG, band captain), 20 m CW (Jim Schultz, AF6N, band captain), VHF (Robbie Robinson, KB6CJZ, band captain), Satellite and Digital (Greg Bohning, W6ATB, band captain), and GOTA (Tim Millard, N6TMT, band captain).

Attending OCARC Field Day from OCRACES were Chief Radio Officer Ken Bourne, W6HK, Radio Officer Scott Byington, KC6MMF, and Martin La Rocque, N6NTH. From Buena Park RACES were Chief Radio Officer Bill Lovelace, K6MET, Alternate Radio Officer Jason Ho, KJ6VSV, and Grahame Emerson, AD6GE. They brought the BPRACES well-equipped Chevy Suburban to Field Day, and met with Buena Park Mayor Pro Tem Art Brown.

Many of the OCARC members at Field Day are also members of the City of Orange Amateur Radio (COAR), which is the city's RACES Unit.

Prior to Field Day, Chip Margelli, K7JA, gave an excellent presentation at the June 15th OCARC meeting on setting up Field Day antennas and towers. He emphasized the importance of participating in Field Day, to practice field response to actual disasters and emergencies. Every RACES member should take advantage of this excellent training. Chip claims to be a "Field Day Junkie," and he and the OCARC members lived up to their winning Field Day reputation.

From OCRACES at the OCARC Field Day were Lt. Scott Byington, KC6MMF (left), and Martin La Rocque, N6NTH.

Buena Park RACES Chief Radio Officer Bill Lovelace, K6MET, brought their Chevy Suburban to the OCARC Field Day.

Orange RACES (COAR) and OCARC Member Don Poysa, KØVNJ, at the Field Day VHF station.

Next OCRACES Meeting: July 9th

The next OCRACES meeting will be on Monday, July 9, 2018, at 7:30 PM, at OCSD Communications & Technology Division, 840 N. Eckhoff Street, Suite 104, in Orange. This meeting will not be on the usual first Monday of the month, due to holiday and vacation schedules. Our guest speaker will be Bruce Bonbright, NH7WG, who is becoming the Laguna Woods Radio Officer. He has been involved in many aspects of disaster service and has the benefit of seeing it performed in California and Hawaii. He will share how RACES works in Hawaii, especially in Honolulu County. Bruce will also speak about his role as the Salvation Army's Communications Coordinator (SATERN) for the Hawaiian Islands. He also led the Salvation Army's Emergency Disaster Services Team on Oahu. They sent a team to support the Hurricane Harvey relief efforts and have assisted in floods on Kauai and Oahu, as well as sending personnel to support the residents affected by the current volcanic eruption on the Big Island.

The title of Bruce's presentation is "Emergency Disaster Service in Hawaii (from a RACES and SATERN perspective)." He will cover the following topics:

- Honolulu City & County Government
- Honolulu County RACES
- RACES Deployment Example
- Hawaii Disaster Threats & Vulnerabilities
- Salvation Army Disaster Services
- SATERN in Hawaii

HRO Ham Jam: July 7th

OCRACES will exhibit at HRO's 7th Annual Ham Jam on Saturday, July 7, 2018, at 933 N. Euclid Street in Anaheim. Setup will be at 8:00 AM. Store hours are from 10:00 AM until 5:30 PM, although most exhibitors start leaving after the 3:00 PM drawing. Ham Jam will have its usual round of suppliers and clubs and seminars, as well as amateur radio license testing. HRO will also have its famous hot dog lunch, provided by the Big Brothers Big Sisters of Orange County.

Citizen Corps Exercise Planned for Jan. 2019

The Orange County California Citizen Corps Council (OC5) is tentatively planning a major exercise for January 26, 2019, and RACES will be involved.

Similar to Citizen Corps exercises in 2007 and 2011, the exercise aims to bring volunteers together from all Citizen Corps programs. Past exercises included ICS training, tabletop exercise, medical triage, traffic control management, sand bagging, and radio training.

The first planning meeting for the exercise was held on May 29th in Laguna Beach to discuss the scope of work for the project. The planning team discussed past ideas and began outlining the scope of work for the exercise. Tentatively, there will be a guest speaker in the morning, followed by break-out session options to attend either exercise/skills courses or classroom lectures, followed by a lunch break in the afternoon, and possibly incorporating Stop the Bleed training. Following lunch would be another break-out session with exercise/skills courses and classroom lectures options. Possible skill sessions include medical triage, splinting/bandaging, and light search & rescue. Exercise/skills ideas included traffic/communications, firefighter rehab, and volunteer leadership course. Both the exercise/skills courses and classroom lecture topics will be finalized at future planning meetings. Putting traffic and communications together might be a challenge, as the CERT annex communications module is lengthy. Maybe just one of these would be chosen. Other suggested topics include a Fire Watch classroom lecture, 10 basic ASL signs for disasters, or neighborhood mapping. Another consideration is the ARRL Emergency Communications courses.

The vision of the OC5 program is to harness the power of every individual through education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to disasters and emergencies. OC5 programs and partners include the Community Emergency Response Team (CERT) program, Community Emergency Preparedness Academy (CEPA), Medical Reserve Corps (MRC) program, Fire Corps, RACES, USA on Watch Neighborhood Watch, OneOC, and Volunteers in Police Service (VIPS).

ARES Moves Toward Enhanced Training

As part of upgrades to the ARES® program, ARRL will phase out traditional hard-copy report forms later this year in favor of an online system, *ARES® Connect*—a new volunteer management, communication, and reporting system. The system, in beta testing since March in four ARRL sections with large ARES organizations, will allow ARES members to log information for ARRL Field Organization handling but does not change how ARES serves partner organizations. ARES training also is due for enhancement.

At the Hamvention® ARRL Membership Forum in May, Great Lakes Division Director Dale Williams, WA8EFK, who chairs the ARRL Public Service Enhancement Working Group, discussed dramatic changes occurring among agencies in the emergency/disaster response sector and the transition to *ARES Connect*. In his presentation, "ARES Advances into the 21st Century—a New Program, a New Mission," Williams outlined the vision for an ARES comprised of organized, trained, qualified, and credentialed amateur radio operators who can provide public service partners with radio communication expertise, capability, and capacity.

Goals include aligning the ARES organizational structure with the National Incident Management System (NIMS) and Incident Command System (ICS). Emergency Coordinators (ECs) will continue to lead local ARES teams during an incident, with support from District and Section Emergency Coordinators.

Changes would encompass additional mandatory training to include ARRL Emergency Communications courses and the now-standard FEMA NIMS/ICS courses IS-100, 200, 700, 800, with IS-300 and 400 for higher levels. Other specialty training could include SKYWARN and agency-specific programs.

Training levels attained would dovetail with three new levels of ARES participation: Level One would be comprised of all entering the program with no training, while progressing through the ARRL emergency communications training and the FEMA Independent Study courses 100, 200, 700, and 800. Level Two would be attained upon successful completion of these courses, and would be considered the "Standard" level for ARES participants. Level Three would be attained upon completion of the advanced FEMA courses IS 300 and 400, which would qualify candidates for ARES leadership positions.

Level One participants would be able to fulfill most ARES duties, with a target of attaining Level Two in 1 year. Level Two, the standard participant level, would permit participant access to most incident sites and emergency operations centers (EOCs). Level Three would convey full access as granted by the authority having jurisdiction, plus qualification for ARES leadership.

It's been proposed that ARRL provide a basic ARES ID, which would convey recognition of registration with ARES nationally and indicate level of training but convey no guarantee of site access. The authority having jurisdiction in an incident could grant an additional ID/pass for site access.

The ARRL Headquarters staff is undergoing training in *ARES Connect* administration, with group registration under way and IDs assigned. ARES-related publications also are being updated, along with an ARES strategic plan and introductory announcement. An article on ARES enhancements—once they have been approved by the ARRL Board of Directors—is set to appear in the September 2018 issue of *QST.—Thanks to Rick Palm, K1CE/*ARES E-Letter

(***Editor's note:*** I congratulate ARRL on this important ARES training step, and I urge RACES members to take the courses mentioned above. Non-RACES ARES members and other radio amateurs who pass these courses are not permitted access to most incident sites and government EOCs without vetting or passing agency background checks, and are encouraged to apply for RACES or ACS membership. Passing the ARRL and FEMA courses would be a major step toward RACES qualification, but background checks would still be required.*—Ken Bourne, W6HK*)

ARES and RACES at Next OCARC Meeting

ARRL Southwestern Division Section Manager Carl Gardenias, WU6D, will give a presentation on the Amateur Radio Emergency Service (ARES), and OCRACES Chief Radio Officer Ken Bourne, W6HK, will give a presentation on RACES, at the next Orange County Amateur Radio Club meeting on Friday, July 20, 2018, at 7:00 PM, at the American Red Cross (George M. Chitty Building), 600 Parkcenter Drive, in Santa Ana. The meeting is open to anyone interested in amateur radio. After their presentations, Carl and Ken will form a panel to answer questions regarding ARES and RACES, including how they differ and also how they work together to provide a public service. Although the FCC RACES rules prevent RACES from communicating with non-RACES, Ken will emphasize that nets in Orange County are run as ACS nets, allowing communications with ARES or non-RACES stations under the regular Amateur Radio Service rules.

KC6MMF Hides in Orange

Scott Byington, KC6MMF, was the fox on the monthly cooperative T-Hunt on Monday, June 18, 2018. Hiding with Scott was his wife Pat, KC6ZHR. They hid in Santiago Hills Park in Orange, south of Santiago Canyon College. The first team to find the fox consisted of Richard Saunders, K6RBS, and Mike Slygh, NM6X, from Mission Viejo. They came in quickly, thanks to their Doppler direction finder. Next was Ron Allerdice, WA6CYY, from Costa Mesa. Third place was taken by the team of Ken Bourne, W6HK, and Don Poysa, KØVNJ.

The next hunt will be on Monday, July 16, 2018, immediately following the OCRACES 2-meter net (approximately 7:20 PM). The fox will be Delia Kraft, KR6AFT. She will hide on paved, publicly accessible property in a city or sector of Orange County to be announced a few days before the hunt. No fees will be required to drive directly to the fox. She will transmit on the input (146.295 MHz) of the 146.895 MHz repeater. Hunters will compare bearings via the 448.320 MHz repeater and are encouraged to beacon their positions via APRS throughout the hunt.

At the fox's den are (left to right) Scott Byington, KC6MMF (the fox), Don Poysa, KØVNJ, Richard Saunders, K6RBS, Ron Allerdice, WA6CYY, and Mike Slygh, NM6X.

The cooperative T-hunts are usually held on the third Monday of each month. The hunts provide excellent practice in working together to find sources of interference quickly. The hunts are not official RACES events, so DSW (Disaster Service Worker) coverage does not apply. Please drive carefully!

Fox-hunt loops and beams are available from Arrow Antenna and HRO, including the Arrow Model FHL-VHF fox-hunt loop (covers 1 MHz to 600 MHz) and the Arrow Model 146-3 three-element portable hand-held yagi. The Arrow OF-HA 4-MHz offset attenuator can be useful when close to the fox, to prevent receiver overload. For on-foot hunting, the BC-146.565 three-element, hand-held, foldup, yagi antenna is available from Bob Miller Enterprises (http://www.rdfantennas.com), along with the VK3YNG MK4 sniffer. An all-mode transceiver is quite useful, allowing hunters to switch to the SSB or CW mode for detecting extremely weak signals, or to switch in a built-in attenuator, reduce RF gain, or tune slightly off frequency when dealing with extremely strong signals. Some hunters use the DF2020T radio direction finder kit, which is a Doppler system available from Global TSCM Group, Inc. (http://www.kn2c.us). A very similar system is the MFJ-5005 Doppler direction finder. Useful apps are available for iPhones and Android phones. For some excellent information on T-hunting, see http://www.homingin.com.

Get a Kit of Emergency Supplies

FEMA suggests the following steps to survive a terrorist attack or other emergency. First, be prepared to improvise and use what you have on hand to make it on your own for **at least three days**, maybe longer. While there are many things that might make you more comfortable, think first about fresh water, food, and clean air.

Consider two kits. In one, put everything you will need to stay where you are and make it on your own. The other should be a lightweight, smaller version you can take with you if you have to get away.

You'll need a gallon of **water** per person per day for drinking and sanitation. Include in the kits a three day supply of non-perishable **foods** that are easy to store and prepare such as protein bars, dried fruit, or canned foods. If you live in a cold weather climate, include **warm clothes** and a sleeping bag for each member of the family.

Some potential terrorist attacks could send tiny microscopic "junk" into the air. Many of these materials can only hurt you if they get into your body, so think about creating a barrier between yourself and any contamination. It's smart to have something for each member of the family that covers **their mouth and nose**, such as two to three layers of a cotton t-shirt, handkerchief, or towel, or **filter masks**, readily available in hardware stores. It is very important that the mask or other material fit your face snugly so that most of the air you breathe comes through the mask, not around it. Do whatever you can to make the best fit possible for children.

Also, include **duct tape and heavyweight garbage bags or plastic sheeting** that can be used to seal windows and doors if you need to create a barrier between yourself and any potential contamination outside.

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 and supportive amateur radio clubs in Orange County.

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

w6hk@ ocraces.org

Buena Park RACES

Buena Park RACES brought its Chevy Suburban to the Orange County Amateur Radio Club Field Day on Saturday, June 23, 2018, at the Walter Knott Education Center in Buena Park. Shown in the photo below are (left to right) Grahame Emerson, AD6GE, Mayor Pro Tem Art Brown, Chief Radio Officer Bill Lovelace, K6MET, and Alternate Radio Officer Jason Ho, KJ6VSV.

Fullerton RACES

The City of La Palma is asking Fullerton RACES for their help with La Palma's Fitness Run 4 Fun event on July 4, 2018. They need at least six people but can always use more. Fullerton RACES Radio Officer Gene Thorpe, KB6CMO, says he would like more than 10 persons for this event. If you can help, send an e-mail to Gene at kb6cmo@juno.com with your name, call sign, and phone number. This is a RACES event, asked by La Palma RACES.

Irvine RACES (IDEC)

VikiBrek, a no-host breakfast meeting, will be held on Saturday, July 14, 2018, at 0800 hours, at Knowlwood Restaurant, 14952 Sand Canyon Avenue, in Irvine. The next general IDEC meeting will be on Thursday, July 26, 2018, 1900 hours in the CTC (Conference and Training Center) at the Irvine Civic Center, Alton and Harvard.

National Night Out

Some of the cities that have RACES units, which are participating in National Night Out (NNO) on Tuesday, August 7, 2018, are mentioned below:

The Costa Mesa NNO will be in the Target parking lot at 3030 Harbor Boulevard, from 1700 to 1800 hours.

The Dana Point NNO will be in Sea Canyon Park, 33093 Santiago Drive, from 1700 to 2000 hours.

The Fountain Valley NNO will be at the FV Recreation Center, 16400 Brookhurst Street, starting at 1800 hours.

The Laguna Niguel NNO will be at the Laguna Niguel Elementary School, 27922 Niguel Heights Boulevard, from 1700 to 2000 hours.

The Mission Viejo NNO will be at Target, 25601 Jeronimo Road, from 1700 to 2000 hours.

The City of Orange NNO will be in the Target parking lot at 2191 N. Tustin Street, from 1730 to 2000 hours.

The San Clemente NNO will be at Target, 990 Avenida Vista Hermosa, from 1700 to 2000 hours.

The Seal Beach NNO will be at the Target Town Center, 12300 Seal Beach Boulevard, starting at 1800 hours.

Placentia RACES

Steve Torrence is the new Emergency Services Coordinator for the City of Placentia.

Amateur Radio License Exams

July 14, 2018; 9:00 AM (walk-ins allowed)
Sponsor and Contact: Harrison Spain, AC6TI
714-886-8039; hmspain@gmail.com
VEC: ARRL/VEC
Siemens PLM Software, 10824 Hope St., Cypress

July 19, 2018; 5:30 PM (walk-ins allowed)
Sponsor: West Coast ARC
Contact: Ken Simpson, W6KOS
714-651-6535; w6kos@arrl.ne
VEC: ARRL/VEC
Coastal Community Fellowship Church, 10460 Slater Ave., Fountain Valley

July 19, 2018; 6:00 PM (walk-ins allowed, pre-registration preferred)
Sponsor: Western ARA
Contact: George Jacob, N6VNI
562-544-7373; jac2247@gmail.com
La Habra Community Center, 101 W. La Habra Blvd., La Habra

July 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Weekly 2 m ACS Net & no meeting	3	Happy 4th of July!	5	6	7 HRO Ham Jam
8	9 Weekly 2 m ACS Net & OCRACES Meeting	10	11	12	13	14 Cal OES SWACS Meeting
15	16 Weekly 2 m ACS Net & Cooperative T-Hunt	17	18	19	20 Orange County Amateur Radio Club Meeting	21 Weekly ACS Net
22	23 ACS Nets on Five Bands & Cal OES Nets	24	25	26	27	28 Weekly ACS Net
29	30 Weekly 2 m ACS Net	31				

Upcoming Events:

- **July 4:** Independence Day
- **July 7:** Ham Jam, Ham Radio Outlet, 933 N. Euclid Street, Anaheim, 0800 (setup)-1500 hours
- **July 9:** OCRACES Meeting, 840 N. Eckhoff Street, Suite 104, Orange, 1930-2130 hours
- **July 14:** Southwest ACS Meeting, Cal OES Southern Region EOC, 4671 Liberty Avenue #283, Los Alamitos
- **July 16:** Cooperative T-Hunt on input of 2-meter repeater, 1920 hours
- **July 20:** Orange County Amateur Radio Club Meeting, American Red Cross (George M Chitty Building), 600 Parkcenter Drive, Santa Ana,

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

40 m: 7250 kHz SSB (City/County/MOU Net—Saturdays, 1000 hours)
10 m: 29.640 MHz output, 29.540 MHz input, 107.2 Hz PL
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

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Chief Radio Officer (Captain)
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714-997-0073

Radio Officer (Lieutenant)
Scott Byington, KC6MMF

Assistant Radio Officers (Sergeants)
Jack Barth, AB6VC
Ernest Fierheller, KG6LXT
Bob McFadden, KK6CUS
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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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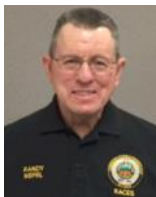W6HK

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Roger Berchtold
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Matt Luczko
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Fran Needham
KJ6UJS

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