

Valley of the Moon Amateur Radio Club

WIRELESS




FROM THE TOP OF THE HILL

Hard to believe its Thanksgiving already.

Amateur Radio emergency communications groups have been very active in both the Camp fire, near Chico, and the Woolsey fire near Venutura.

"five [Sacramento Valley ARES](#) groups were called out to support communication between the Red Cross Disaster Operations Center (DOC) and the shelters." "Working 12-hour shifts, Sacramento Valley Section District Emergency Coordinator 3 Michael Joseph, KK6GZB, has been staffing the Red Cross radio station as net control for the DOC, passing messages and tracking ARES personnel."

"Feinberg said ACS members have also been involved with delivering food and water supplies to LAFD firefighters and performing fire patrols. American Red Cross volunteers are reported to be using Amateur Radio in connection with some of their fire response activities, Feinberg reported. The Woolsey Fire covers nearly 100,000 acres and was reported 36% contained as of November 13" "For the full story, go to the ARRL website.

Not much happening on the HF bands since the Ducie Island group left. I was in the process of trying to get them on a digital mode, but they

had to leave early due to worsening weather conditions.

Thanks again to all the officers who stayed on for another year. We would be in a world of hurt without you.

There is a possibility that Bouvet Is. may be activated by Dom, 3Z9DX. He is trying to do it on a shoestring budget, so keep your fingers crossed.

Thanks to Stan for a long overdue revision of the Club Wednesday night script.

Anyone interested in building electronic circuits, there are several books by Forest Mims sold on Amazon. See or call me because I have breadboards and lots of parts.

Anyone know how to transfer files from a Windows 7 computer to a Windows 10 machine, I need help.

That's about it for now. See you at the next meeting. Don't forget to let me know if you want in on the multimeter and the training.

73, Jim, K6UUW

NEXT MEETING

Wed, November 21, 2018, 7:30pm

City of Sonoma EOC,

Sonoma Police Department

Topic: Using a Multimeter

MEETING PROGRAM

A multimeter is a must have item for every ham shack. Operators can keep a check on power supply or battery voltages, check fuses, check for broken wires and many more uses.

The club has purchased 15 meters for any member that does not have one. We will pass them out at meeting night and have a training session on how to use them. If you need one and would like to know how to use it, let me know so I can line up the trainers. 935-7441 or jhill@vom.com.

—Submitted by Jim K6UUW

VOMARC Meeting Minutes

October 17, 2018

Called to order promptly at 19:32 by President K6UUW, thank you very much!

KD6FIL (Dave), KG6QNT (Eileen), K6UUW (Jim), NJ6E (Stan), KM6SJR (Elizabeth), KI6TPK (Kevin), WA6CRB (Dan), KF6FZM (Dick), N6TVN (Carl), KA2QQO (Declan), N7PIB (San), K6KLL (Alan), W1EJ (Ed), WB6TMH (Mike), KM6QJC (Allen), WD6BOR (Darrel), KJ6QIQ (Scott)

Introductions.

Minutes: Approved

President: Pacificon is this weekend (October 19-21) at the San Ramon Marriot.

WB6TMH has the net for November.

Jim had band plans available.

Net check ins are good for those that remember.

There are 5 students at the high school participating in the electronics club. They are building a one transistor FM Transmitter. One student is planning to do his senior project as the history of radio.

Secretary: Working on the Hamfest Free Day for the Sonoma Vets Building.

Treasurer's report: We have received \$3,551.99 in the bank. We have a net income of \$485.27 this year.

ACS: ACS Level One training is scheduled for November 3.

VE Session: The next VOMARC VE Session is January 26, 2019.

Old Business:

Thanks to all for making the VOMARC picnic successful and a special thanks to K6UUW and Judy for opening their house to the VOMARC Hoard!!!!

The VOMARC Christmas party is scheduled for December 19 at 6 PM at Mary's Pizza in Boyes Hot Springs. New table layouts so be prepared!

New Business:

Election of club officers. A motion was made a seconded to keep the same club officers. Motion passed – 16 in favor and 1 opposed.

Adjourned at 19:45 – Thank you for the short meeting!!!!

Topic – WSPR transmitter on a raspberry pi presented by K6UUW, NJ6E and WD6BOR.

—Submitted by: Dave KD6FIL

New Radio Net Script

Thanks to Stan (NJ6E) for crafting up new text for the weekly VOMARC net. As a reminder, the net is held every Wednesday, with the exception of meeting nights, on the 145.35- repeater (88.5 Hz PL tone).

<http://vomarc.org/VOMARC%20Net%20Script.pdf>

—Submitted by Robert KA5WSS

Website Changes

Some recent vomarc.org website changes implemented:

- Common header added to all pages.
- Reworked the wording and layout of the main page a bit. VOMARC breakfast now mentioned on front page.
- New pages for monthly meetings, Hamfest and Field Day with more info on what happens during them and how to get to the location.
- Added a contact us page

More changes and improvements will be coming in the future. If you have ideas and/or photos you'd like to contribute to the effort please let me know. You can now use the contact form on the VOMARC website.

—Submitted by Robert KA5WSS

NEW ARRL CONTEST WEBSITE

Contests.arrl.org is the new place for everything about ARRL Radio Contests! The new website will organize the information by contest, with single click access to a particular event's rules, results, lists of logs received, and so on.

According to The ARRL Letter, "... the previous Contest Results Articles web page, which offers current and historical results dating back some 20 or more years, will be known as the "legacy site" going forward.

(from ARRL contest letter, 11/14/2018)

—Submitted by Jim K6UUW

WHEN IN DOUBT, BLAME IT ON CME'S

When Ol' Sol erupts with CMEs (Coronal Mass Ejections), there can be real consequences. Power grids can be disrupted, satellites become unreliable or damaged, GPS can degrade. During the Vietnam War in the 1970s, CMEs were likely

responsible for the [premature detonation of sea mines](#). The CMEs influenced the Earth's magnetic field to the extent that the munitions were fooled into thinking a ship was passing near. (When Ol' Sol erupts with CMEs (Coronal Mass Ejections), there can be real consequences. Power grids can be disrupted, satellites become unreliable or damaged, GPS can degrade. During the Vietnam War in the 1970s, CMEs were likely responsible for the [premature detonation of sea mines](#). The CMEs influenced the Earth's magnetic field to the extent that the munitions were fooled into thinking a ship was passing near.

(from ARRL contest letter, 11/14/2018)

—Submitted by Jim K6UUW

FCC Fines Amateur Radio Licensee \$25,000 for Operating Unlicensed FM Station

In an FCC Enforcement Bureau case going back to early 2015, a Paterson, New Jersey, Amateur Radio licensee has been penalized in the amount of \$25,000 for allegedly continuing to operate an unlicensed FM radio station. The FCC issued a Forfeiture Order on October 30 to Winston A. Tulloch, KC2ALN, a General-class licensee. The fine followed an April 2018 Notice of Apparent Liability for Forfeiture (NAL) issued to Tulloch for alleged "willful and repeated violation" of Section 301 of the Communications Act of 1934, as amended, by operating an unlicensed FM radio station on 90.9 MHz in Paterson. Tulloch did not respond to the NAL, the FCC indicated.

(from ARRL newsletter, 11/8/22018)

—Submitted by Jim K6UUW

New Islands on the Air Groups Announced (More work for N7PIB)



Islands on the Air (IOTA) General Manager Roger Balister, G3KMA, recently announced the first tranche of six new IOTA groups. Release of the new groups came in the wake of an

August solicitation for possible new groups. The new groups cover a Swedish/Finnish joint sovereignty island and groups in North America, Asia, and Oceania. All new groups have provisional numbers, which means they will need to be confirmed by an operation that takes place after October 14, 2018, and that meets the 1,000 QSO requirement, as well as other normal validation requirements. Only after confirmation of the number will credit for past operations be considered.

1. **EU-192P** Kataja Island, Finland/Sweden (Kataja), a split-sovereignty island located in the very north of the Gulf of Bothnia.
2. **OC-297P** Morane Atoll, Tuamotu Islands, French Polynesia (Morane), a new "remote island" group, this was previously an outlier of the OC-113 Actaeon group.
3. **NA-249P** Puerto Rico Coastal Islands, Puerto Rico (Caja de Muertos, Culebra, Culebrita, Mona, Monito, Vieques), a new "coastal islands" group.
4. **NA-250P** Yakutat County Group, Coastal Groups, US (Alaska) (Fitzgerald, Gregson, Khantaak, Knight, Kriwoi, Krutoi, Otmeloi), a new "coastal islands" group created by

splitting the current NA-161 Skagway - Yakutat County group.

5. **AS-205P** Bering Sea Coast East group, Koryanskiy Avtonomnyy Okrug, Russian Federation - Asia (Yoanna Bogoslova, Vasiliya Islands), a new "coastal islands" group, created by splitting the current AS-064 Bering Sea Coast group.
6. **AS-204P** Kuril'skiye Islands North, Sakhalinskaya Oblast, Russian Federation - Asia (Atlasov, Shumshu, Paramushir, Antsiferova, Makanrushi, Onekotan, Kharimkotan, Chirinkotan, Ekarma, Shiashkotan, Raikoke, Matua, Rasshua, Ushishir, Ketoy, Simushir), a new group created by splitting AS-025 Kuril'skiye Islands into two.

Balister said he hopes to announce a second tranche of new IOTA groups at the HAM RADIO convention in Friedrichshafen, Germany, in June 2019.

(from ARR newsletter, 11/8/2018)

—Submitted by Jim K6UUW

Spray On Antennas

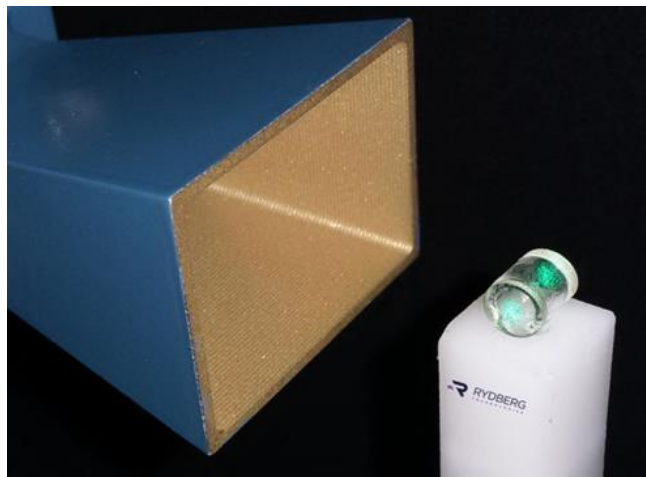


Researchers at Drexel University have come up with a way to spray antennas onto surfaces like paint using a form of titanium carbide. In some cases workable antennas were created with a layer of material that was essentially transparent.

<http://www.arrl.org/news/spray-on-antennas-could-be-the-wave-of-the-future-university-researchers-believe>

—Submitted by Robert KA5WSS

Antennas Made From Atoms, Not Metal

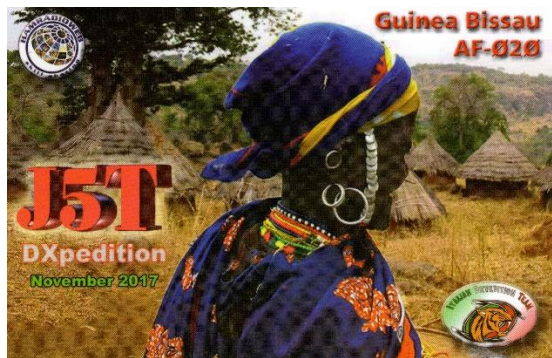


Researchers have found a way to detect radio waves using excited atoms instead of the more commonly used lengths of wire. Conceivably the new design is less prone to damage by solar flares and electromagnetic pulses. In addition, the size of the antenna is not dictated by the wavelength of the signal received.

<https://arstechnica.com/science/2018/09/a-new-antenna-using-single-atoms-could-usher-in-the-age-of-atomic-radio/>

—Submitted by Robert KA5WSS

From the QSL Card In Box



—Submitted by Robert KA5WSS

THE VOMARC WIRELESS

VOLUME 22 EDITION 10

A publication of VOMARC, the Valley of the Moon Amateur Radio Club – W6AJF

Frank C. Jones – W6AJF

Honorary President in Perpetuity

CAST OF CHARACTERS

Jim Hill K6UUW – President

Robert Barron KA5WSS – Vice President

Dave Dammuller, KD6FIL – Secretary

Eileen Adams, KG6QNT – Treasurer

Mike Miller, WB6TMH – Radio Officer

Moe Llanes, KI6JNU – ACS Unit Leader

Sanford Smith, N7PIB – VE Liaison

Jim Hill K6UUW – Elmer Coordinator

Darrel Jones, WD6BOR – Station Trustee for W6AJF

Eileen Adams, KG6QNT – Editor

Robert Barron, KA5WSS – Webmeister

“Receipt of the Wireless is one of the most sought after benefits of membership in VOMARC.”—S. Marler

CLUB MEETINGS are held on the third Wednesday of each month at the City of Sonoma Police Department EOC 175 1st St West. Meetings start at 19:30 local (7:30 P.M.).

WEB PAGE: <http://www.vomarc.org/>

Nets are held every Wednesday night at 19:30 (7:30 P.M.) local, except meeting nights on the 145.350 repeater, -600 kHz, PL 88.5 Hz.

ACS holds a net each Monday evening at 19:30 local on the 146.205, +600, PL 88.5 Hz repeater.

PACKET STATION INFO: The VOMARC packet station is off the air until further notice.

CLUB BREAKFASTS are held on the first Saturday of each month at Black Bear Restaurant, 201 W Napa St, #34 (Marketplace Shopping Center), Sonoma. The fun starts at 08:30 local.

Comments and submissions of material may be sent to:

Eileen@vom.com

—OR—

Valley of the Moon ARC, Inc.

C/O Sonoma Police Department

175 First Street West

Sonoma, CA 95476

**2018 ACS
Net Control Assignments**

| | Name | Call |
|-----------|--------|--------|
| JANUARY | MOE | KI6JNU |
| FEBRUARY | SCOTT | KJ6QIQ |
| MARCH | SCOTT | KJ6QIQ |
| APRIL | JIM | K6UUW |
| MAY | DICK | KF6FZM |
| JUNE | MOE | KI6JNU |
| JULY | | |
| AUGUST | BILL | KJ6EIG |
| SEPTEMBER | SAM | W5LTP |
| OCTOBER | DICK | FK6FZM |
| NOVEMBER | MIKE | WB6TMH |
| DECEMBER | DARREL | WD6BOR |

**2018 VOMARC
Net Control Assignments**

| | Name | Call |
|-----------|--------|--------|
| JANUARY | SCOTT | KJ6QIQ |
| FEBRUARY | JIM | K6UUW |
| MARCH | MOE | KI6JNU |
| APRIL | DAVE | KD6FIL |
| MAY | ED | W1EJ |
| JUNE | FRANK | KG6N |
| JULY | MOE | KI6JNU |
| AUGUST | CARL | N6TVN |
| SEPTEMBER | SAM | W5LTP |
| OCTOBER | DICK | KF6FZM |
| NOVEMBER | MIKE | WB6TMH |
| DECEMBER | DARREL | WD6BOR |

**THE NEXT MEETING WILL BE NOVEMBER 21, 2018, 7:30PM,
CITY OF SONOMA EOC, SONOMA POLICE DEPARTMENT, 175 1ST ST W, SONOMA, 95476
SEE YOU THERE.**

VOMARC MEMBERSHIP 2018

Membership Dues: \$15/year individual; \$5/year family member at same address.

VOMARC encourages its members to join the ARRL. More information is available at www.arrl.org.

QST is available to blind and physically handicapped individuals on audio cassette from the Library of Congress, National Library Service for the Blind and Physically Handicapped. Call 1-800-424-8567.

Name: _____ CALL: _____ EMAIL: _____

Address: _____ APT: _____

City: _____ State: _____ ZIP: _____

Name: _____ CALL: _____ EMAIL: _____

Name: _____ CALL: _____ EMAIL: _____

VOMARC Membership: Complimentary with Class—Date: _____

Membership Moment, From the Database Queen:

Dues may be mailed to VOMARC in care of the Sonoma Police Department, 175 1st St West, CA 95476, or brought to the next meeting. Your check should be made payable to: **VOMARC**.