




THE
REACT
ER[®]
THE OFFICIAL PUBLICATION OF REACT INTERNATIONAL, INC.

September/October 2020



**HAPPY
HALLOWEEN!!**



**YEAH...
WHAT HE
SAID!**





Amateur Radio



CQ the Active Ham's Magazine

CQ is the magazine for active hams, with a focus on the practical. Every article is clearly written and aimed at involving you, the reader... whether it's a story of operating from some exotic location, an article to deepen your understanding of ham radio science and technology, or a fun-to-build project that will have practical use in your ham shack.



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A Word from the Editor

Will Stanley, Editor, The *REACTer*

Ok, I know I said someone else would be doing September but that kind of didn't work out, so here we are, better late than never! This issue will be a dual issue for that reason. I do not like multiple month issues but sometimes it simply can't be avoided. The next issue will probably also be a dual issue to close out the year... November/December. After that, we'll be looking at the future.

I hope you all had a great Labor Day.

Let me talk about friendships and home here for a bit. My vacation took me back to my roots in Nebraska. I was able to see some old friends that I hadn't seen in years, eat some good down home Midwest food and experience the clean, clear air that only the country can create!

It was wonderful. Two weeks without Facebook, news, politics or anything else. They say 'ignorance is bliss'. They are right!

Thomas Paine said, "You can't go home again". Maybe not, but you can visit and that's almost as good.

Well here we are firmly into fall festival season. Get out there and talk to the organizers. See what your *REACT* Team can do for them. You'd be surprised what a trained group of radio operators can do in different type of situations and events. And when you do all of those events, make sure you send your stories and pics to me, editor@thereacter.com

In case you're curious, what does this month's cover shot have to do with *REACT*? Absolutely nothing. Just Happy Halloween!



1.) Radio Emergency Associated Communications Team 2. It is properly written as REACT 3. Communications 4. No. The original word was "citizens" It was changed at the 1992 convention in Anderson, IN to better represent what we do)

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William Stanley
Editor

DEADLINE: 15th of the Month prior to publication (i.e: July 15th for August issue, etc)

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Your article and photo submissions are vital to our success! Articles, high resolution photos and inquiries about advertising in The REACTer can be emailed to: editor@theREACTer.com

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President's Column

John Capodanno, President, *REACT* Int'l

For those of you who don't know me, I am John Capodanno, President and Chairman of the Board of *REACT* International.

I want to take this opportunity to say Thank You to all the members out there who work so hard to make *REACT* an important part of their community. We truly could not do what we do without you!

Renewals are coming up. We will be sending out the renewal packs before too much longer. Make sure you get yours filled out and sent back in. Due to circumstances beyond our control, insurance price will have to go up this year, but dues will not! Total dues for 2021 will remain at \$25. The insurance will go up \$3 to \$10. We try to keep it down as much as possible but sometimes life intervenes and a raise is unavoidable.

We hope to be back in full operation at the office soon. Currently we are working from our homes due to the Covid-19 Pandemic. This has been a rough time for all of us but working together we will get through it!

On another topic, there are many Teams that use the standard President, V. President, etc. titles for their officers and others that use, shall we say, more police style titles such as Chief, Ass't Chief and so on. I want to encourage those Teams who are using the police style titles to convert to the standard titles. We have heard grumblings from 'out there' that titles such as Chief, Ass't Chief and so on cause confusion with the public. It makes members of the public think that *REACT*ers are government employees.

This is not a good thing for us. We require a good working relationship with our local LEOs and others, so lets try to 'police' the ranks, OK?

Are you going to come to the 60th Anniversary celebration? We are currently working on the details and will have them for you soon. We are looking at a 2 or 3 day event with all sorts of fun things and some educational things as well. Watch the *REACT*er for information on this epic event!

And last, I want you to know that I am available to help you with whatever problems you might have. All you have to do is contact me. I can be reached by phone at 301-316-2900, ext 111, by email at J.Capodanno@REACTIntl.org or you can send me a message on the *REACT* Members page on Facebook!

Keep up the good work out there, my friends and, have a *GREAT* day!

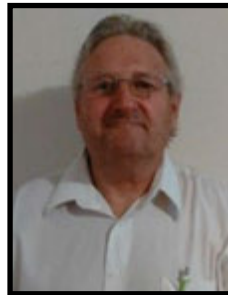
*REACT*ively,

John Capodanno

President & Chairman



BOARD of DIRECTORS



REGION 1

John Mahon
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J.Mahon@REACTIntl.org

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REGION 7

Currently
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REGION 8

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J.Capodanno@REACTIntl.org



REGION 9

Robby Goswami
All Areas Outside US

R.Goswami@REACTIntl.org

meet **OUR**
OFFICERS

REACT International, Inc., Officers



John Capodanno

President
California



Tom Jenkins

Executive VP
Idaho



John Mahon

Secretary
Massachusetts



Russ Dunn

Treasurer
Idaho

ZELLO FREE SERVICE TO END ??

This article was going to be about the impending demise of one of the more helpful apps that has come along in a while... the Free Zello walkie-talkie service.

An announcement was forwarded to *REACT* International and to the *REACT*er claiming that December 15th, 2020 would be the end date of Zello's free service and that going forward, everybody would have to pay to continue using Zello.

BUT READ ON...

Several of us looked into this and I finally received an email from Zello Corporate saying that the announcement is a fake and the Free service is **NOT** ending.

Therefore, fellow *REACT*ers, the official word from Zello is that the free service will be continuing.

This is good for a lot of people, *REACT*ers included.



Have you been on the Zello Net on Saturday nights?

Zello is a good app that can work on a smartphone or any computer with internet access and a microphone.

Not on the Zello Net but I spoke briefly with Region 9 Director Robby Goswami. I was in North Carolina and he was in Trinidad & Tobago! That's about as long distance as you can get!

So, rest assured folks. As of this issue, Zello is not going anywhere and the Zello Net will continue.

Check it out!

REACT INTERNATIONAL WORLDWIDE ZELLO NET

Please join us every Saturday night at 9 pm EST
(8 pm during Daylight Savings Time) on the
REACT MEMBERS
Zello Channel

All Communicators Are Welcome!

NO LICENSE REQUIRED

use your Internet connected computer or smart phone.

The Zello app is available for download from <http://www.zello.com>



**Download the Zello Walkie-Talkie app for your platform.
Create an account with a username (i.e: a call sign) and
password, then add the *REACT MEMBERS* channel.**

Press the Push-to-Talk button to transmit.

**VOLUNTEER TO BE A
NET OPERATOR!**

REACT International® Inc.,
Board of Directors Special Meeting
June 30, 2020

Chairman Capodanno called the meeting to order at 9:04 EST via Zoom teleconference.

Roll call was taken by Chairman Capodanno, Minutes Taken via Recording Secretary Mahon:

Directors: (Four (4) Directors for quorum)

Present

Region 1 John Mahon - Absent
Region 2 David Perry - Present
Region 3 Joe Zych -Present
Region 5 Jeremy Barrett -Present
Region 6 Tom Jenkins -Present
Region 8 John Capodanno -Present
Region 9 Robby Goswami - Absent

Absent

Region 4 Vacant
Region 7 Vacant

Officers

Present

President John Capodanno - Present
EVP Tom Jenkins - Present
Secretary John Mahon - Absent

Absent

Asst. Secretary Vacant
Asst. Treasurer Matt Misetich - Absent
Treasurer Russ Dunn - Absent

GUESTS: Kirk Paxson, Will Stanley, Dhiren Parbhoo, Bernard Parker, Jerry Jones,
Owen Anderson

APPROVAL OF AGENDA:

Moved by Region 6, Tom Jenkins second by Region 5, Jeremy Barrett to approve the agenda.
R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

ANNOUNCEMENTS:

The results are Joe Zych (4) Four and Robby Goswami (5) Five.

APPROVAL OF MINUTES FOR:

Moved by Region 5, Jeremy Barrett second by Region 6, Tom Jenkins to approve the 06/01/2020
special Board of Directors meeting minutes.
R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

OLD BUSINESS:

NEW BUSINESS:

The REACTer

Discussion to discontinue The REACTer and only post on FaceBook Page.

The board decided to give the editor a chance to start calling teams for content and to review later.

DIRECTOR ELECTIONS – REGIONS 3, 6 & 9.

Regions 3, 6 & 9 accepted nominations and if no nominations are not received by March 15, 2020, the Directors seat becomes vacant for that Region. It was noted that there were no nominations received for Region 6. As such, Region 6 seats become vacant as of the close of this meeting.

Nomination ballots were received for sitting Director of Region 3, Joe Zych as the single candidate. Moved by Region 8, John Capodanno second by Region 2, David Perry to seat Joe Zych as Director of Region 3 for another term, until June 2023.

R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

Nomination ballots were received for sitting Director of Region 9, Robby Goswami as the single candidate. Moved by Region 8, John Capodanno second by Region 5, Jeremy Barrett to seat Robby Goswami as Director of Region 9 for another term, until June 2023.

R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

Additional Nominations received late.

Tom Jenkins submitted a nomination form for consideration of appointment for the vacant Directors seat for Region 6.

Moved by Region 8, John Capodanno, second by Region 5, Jeremy Barrett to appoint Mr. Jenkins as Director of Region 6, for the remainder of unexpired term, June 2023.

R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

Jerry Jones submitted a nomination form for consideration of appointment for the vacant Directors seat for Region 7. Mr. Jones was considered to have self-resigned when his Team was suspended and not in good standing.

Moved by Region 8, John Capodanno, second by Region 2, David Perry to appoint Mr. Jones as Director of Region 7, for the remainder of unexpired term, June 2021.

R2-Y R3-Y R5-N R6-N R8-N Motion Fail.

Chairman Capodanno noted that any Director appointed by the Board of Directors may be removed by the Board of Directors, not requiring Bylaws Section 5.4 Removal of Directors.

ADJOURNMENT:

Moved by Region 6, Tom Jenkins, Second by Region 5, Jeremy Barrett to adjourn the meeting.

R2-Y R3-Y R5-Y R6-Y R8-Y Motion Passed.

at 9:54 PM, EST.

Fraternally submitted

John Mahon
Corporate Secretary
Director, Region 1
REACT® International, Inc.



VIRTUAL TRAINING: AMATEUR RADIO TECHNICIAN CLASS

Ravindranath "Robby" Goswami
Region 9 Director

In the June 2020 issue of *The REACTer*, we advocated for using virtual technologies to facilitate the meeting and training requirements of *REACT* Teams, given the restrictions associated with the COVID-19 pandemic situation. It was also noted that training programs were being scheduled in the coming months and a registration page was created for persons to express their interest in the various courses.



One of the programs undertaken was the Amateur Radio – Technician Class - Virtual Training programme. Sixteen (16) sessions were held, comprising of 1- hour sessions each week. The first session was held on 29th June 2020, and the last class was held on the 18th September 2020. The sessions were exam-focused, touching on the relevant theories to facilitate an understanding of the concepts. All 424 questions in the pool were reviewed. A Certificate of Participation will be issued to persons with an attendance of 75% or more. Congratulations to all participants for staying the course.

Classes were produced using the Zoom platform, and there were over sixty (60) participants in the course. The training resources and other supplemental material were made available electronically. All sessions held via the live Zoom webinar were simultaneously streamed live via YouTube to cater for any overflow with the Zoom licence. The YouTube recordings were also saved so that participants who would have missed any classes due to clashes or Internet issues would not miss out and have the opportunity to review.

AMATEUR FREQUENCIES	WAVELENGTH
1.8 to 2.0 MHz	160 m
3.5 to 4.0 MHz	80 m
7.0 to 7.3 MHz	40 m
10.10 to 10.15 MHz	30 m
14.00 to 14.35 MHz	20 m
18.068 to 18.168 MHz	17 m
21.00 to 21.45 MHz	15 m
24.89 to 24.99 MHz	12 m
28.00 to 29.70 MHz	10 m
50 to 54 MHz	6m
144 to 148 MHz	2m
222 to 225 MHz	1.25 m
420 to 450 MHz	70 cm
902 to 928 MHz	33 cm
1240 to 1300 MHz	23cm

HF - 3 to 30 MHz

VHF - 30 to 300 MHz

UHF - 300 to 3,000 MHz

The recordings are available for anyone who would like to pursue the training on-demand and at their convenience. If there are time constraints, it is possible to playback a bit, stop, and return to continue. The current Technician Class question pool is valid for the period 2018 – 2022, so the content will be valid for quite some time and is available to anyone with access to YouTube. A link to the Playlist with all sixteen (16) sessions can be found at <http://tech.ttreact.com/>

Obtaining an amateur radio licence is highly recommended. Examinations are also held by the various Volunteer Examiners (VEs), the largest VEC being the ARRL. Online exam sessions were authorized by the FCC back in April 2020. A schedule of sessions are available at the site <https://hamstudy.org/sessions>.

REACT International, Inc. has a wealth of online courses available for download at <https://reactintl.org/training/>. Exams can also be undertaken to obtain certification.

Further virtual training sessions are to be scheduled based on the training needs analysis and expression of interest from Teams and their members. While in-person, instructor-led sessions are necessary in some cases, much of the training required by *REACTers* can be facilitated using the virtual platform.

Now is a good time to get all of your outstanding training accomplished, and have fun doing so!



NEWS

FROM THE

FRONT LINES

San Angelo *REACT*

(Texas)

Submitted by King Walker

On the 22nd of August, seven members of San Angelo *REACT* were busy assisting local authorities on Knickerbocker Road in San Angelo TX following a 'rogue' storm that did a lot of damage. The Team was activated at approximately 2 pm CDT and remained on the scene until 2 pm CDT the next day.



The San Angelo Fire Department reported Engine 3 was disabled on the loop by downed power lines. There were calls of collapsed buildings as well.

Police responded to the Bellagio Apartments on Sweetbriar and found a heavily damaged roof but no collapse. Firefighters responded to a structure fire in the 4100 block of Village East near Sitel.

The report was for active flames coming from the building.

No reports of injuries so far.

Police responded to a crash call on N. Chadbourne St. at the Window Depot building across from the Concho Valley Transit depot. Reports indicate one vehicle may have hit another vehicle driving it into the building.

The first vehicle was stopped along loop 306, several blocks away. Reports indicate a teenage female was injured and an ambulance was called.

Team members helped with traffic control and communications while local personnel cleaned up the area.

Magic Valley *REACT*

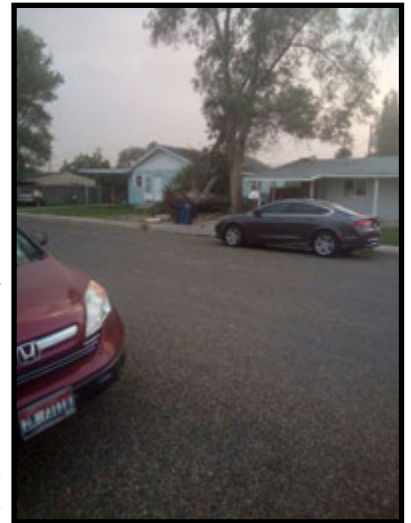
(Idaho)

Submitted by Doug Griffiths

Rupert, Idaho recently experienced a fairly wild windstorm. The wind came of the NE, which for this area is rare, with windspeeds in some areas reaching 100 mph. There was almost no rain or lightning, just the wind.

The picture shows a tree that was uprooted in the reporter's home area.

It was a very freakish storm for the area and for the time of year.



South County *REACT*

(California)

Submitted by Victor Ashbaugh

We are a fairly new team, only about 2-3 months old and we have 4 members with two more coming on board soon.

We went to Glendale to visit with John Capodanno, President of *REACT* Intl. We had a good time and learned a lot.

We are keeping up with the *REACT* Training and doing some meeting work on Zoom. We are also participating in the Saturday Zello net.

Recently, we went up where the Valley and the El Dorado fires are burning. They have recently installed a new GMRS repeater in the area and have proposed being able to use that resource during times like these to help keep people informed as to what highways are open, which ones are closed and where evacuation shelters are located.



(l to r) Rick Gamboa, John Capodanno, Victor Ashbaugh

Two of us also went to Glendale, CA to visit *REACT* International headquarters. Rick Gamboa and Victor Ashbaugh visited with RI President John Capodanno. It was a pleasant visit and we learned a lot about *REACT*!

All in all, we are keeping busy and learning more!

Hill Country *REACT*

(Texas)

Submitted by Lee Besing

While on my way home last Sunday evening (9/13/20) and admiring the sunset glaring in my eyes, I noticed a traffic jam developing as I approached McCullough Ave, westbound on

Loop 410 in San Antonio. After crossing under the overpass, it became apparent that we had a vehicle fire in progress, in the center lane up ahead.



I immediately called the San Antonio Police Department's non-emergency line (because I had it on speed dial and it was quicker). The operator confirmed they had already dispatched both police and fire to the scene. I also turned on my Amber & white strobe lights, both front and rear, and then parked behind the burning car, about 300 feet back from it.

Being a trained member of the Hill Country *REACT* Radio Team, I had the needed traffic safety gear with me in my vehicle. I put my reflective traffic vest on, grabbed my red LED traffic wand, and then coordinated with another volunteer on the scene, a soldier with the US Army Reserve who had spotted the fire while driving east on Loop 410.

We started directing traffic over to the left lane, trying to clear the scene for the soon to be arriving police cars and fire trucks. Within a couple of minutes, we had the traffic completely under control, making it easier for police and fire to get to the scene. The first two SAPD officers to arrive, happened to both be female. They coordinated with each other and us, then took control of the traffic scene.

When the firetruck arrived, they shut down all westbound traffic to make the scene safer for the firemen to put out the fire.

Southern Minn Albert Lea *REACT*

(Minnesota)

Submitted by Leland Johnson

Out of Darkness Walk for suicide was held Sept. 12 at Trinity Lutheran Church parking lot. Southern Mn Albert Lea *REACT* helped out doing communications

and traffic control. The Team provided 7 people.

We did communications and street crossing control to make sure people could cross streets and intersections safely. There were approximately 200 people participating, all practicing social distancing!

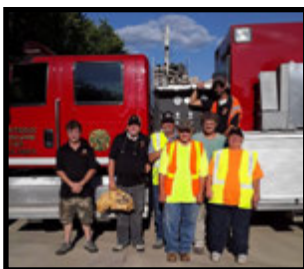
The goal of the walk was to raise \$10,000 and they estimate they raised more than \$11,000. The official amount will be determined by the end of the year.



Pulsaki Count *REACT*

(Indiana)

Submitted by Les Bearton



On August 8, Pulaski County *REACT* assisted the Monterey (IN) Fire Department with their annual Fish Fry.

The Team fielded 3 members for the event and provided approximately ten man hours of service. The event was held from 4 p.m. til

approximately 7 p.m. Team members primarily provided traffic control for the event to allow for added safety for those attending.

Central Alabama *REACT*

(Alabama)

Submitted by Keim Shirley via Facebook

Central Alabama *REACT* is working hard to collect new and gently used stuffed animals that need new homes.

We will collect them and then give them to Santa when he comes by and he will pass them onto children in local hospitals and to local children through local emergency services.

The following are general guidelines to help.

Stuffed Animals:



- We can only accept donations of new or slightly used stuffed animals.
- Stuffed animals must be under 20 inches in length.
- No stuffed animals with the years sewn on them.
- No stuffed animals with battery compartments.
- No stuffed animals that make any noises.
- Build-a-Bears are particularly popular with children!

Southeast Louisiana *REACT*

(Louisiana)

Submitted by Joe Glorioso

On September 14, 2020 the Southeast Louisiana *REACT* Team and the Crescent City Amateur Radio Group were placed on alert status due to Hurricane Sally.

On September 15, 2020 both organizations did a full activation with the Hurricane VOIP Net and the National Hurricane Center via Echolink on the WX_Talk



conference and the 146.82 repeater in New Orleans. In addition we used the Southeast Louisiana Emergency Com channel on Zello for backup communications.

Both organizations passed weather reports to the NHC and Net control. We also had a member at the St. Bernard Homeland Security office for back up communications on HF UHF/VHF frequencies if needed. We deactivated early morning on September 16,2020 when the storm started to turn toward the east. Our region made it through with minimum damages and street flooding.



Caldwell County *REACT*"

(North Carolina)

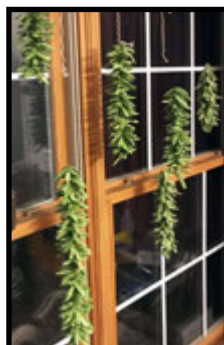
Submitted by Shirley Kanode



We are staying close to home. We have started our monthly meetings on WebEx. Gratefully, we haven't had any problems requiring our services. Last Friday I conducted a Zoom meeting for the Caldwell Senior Center to discuss National Disaster Preparedness month, the pandemic, and other potential Caldwell County disasters. I had them share what has changed or they are doing differently as a result of COVID.

Since my husband and I aren't traveling this year, we planted a large garden and are sharing our produce with our local food bank and some neighbors.

I hope you all are well and staying busy.



Trinidad & Tobago help with the General Election

On Monday, 10th August 2020, the General Elections was held in the Republic of Trinidad and Tobago. *REACT* has been assisting in providing radio communications for several decades in respect of elections, whether Local Government or General Elections.



During the polling day, *REACT* was called upon by the Office of Disaster Preparedness and Management (ODPM) to monitor all areas and provide situation reports (sitreps) throughout the day. The initiative was led by Rohan Rampersad, President of Team 6005, with several members of Teams supporting the effort. Information was obtained and collated via the radio systems and submitted to the ODPM using electronic means. Some of the information included observations by location and time, and were based on gatherings, traffic, and weather. *REACTers* were out from early in the morning up until the close of the poll at 6 pm.

During the count when ballots were tallied, *REACT* members were stationed at various returning officer's locations, party headquarters, and media house TV6. The project was led by Kenny Jagdeosingh, President of Team 2496, and Anwar Mondol, President of Team 6007. Members from several Teams participated, including 2496, 4928, 6006, 6007, 6008, and 6045.

In this photo taken on the night of the elections at TV6 studios in Port of Spain, from Left to Right, are REACTers Pooran Ramdass, Faizul Mohammed, Roshan Manickchand (in the background), Anwar Mondol (removed mask briefly for photo shoot), Jennifer Lisbey (in the background), Lisa Martinez and Ryan West. Photo by Ryan West

Some locations required equipment and antenna installations, so site visits were made on the days prior to polling day. These visits also allowed for logistics to be tweaked and any potential issues such as access to be ironed out. Picture passes and letters of authorization were issued by TV6 to all persons in order to gain access to the restricted areas. The safety of *REACTers* was of the utmost importance.

Information on a real-time basis was passed on the voting count by polling divisions using the *REACT* radio system and other means. *REACTers* would have been on-site from as early as 4 pm and stayed at their assigned locations until after 11 pm in some cases.

Congratulations to all *REACTers* on a successful project!



Training for the Future

Kirk Paxson
REACT Int'l Training Director

Three *REACT* courses were successfully completed, congratulations to the members who are increasing their emergency response skills. Several *REACT* traffic handlers participated in a joint Saturn and Mars HF net.

An Auxiliary Communications (AuxComm) workshop group all day zoom meeting was conducted in Michigan. Just in case you wonder what AuxComm is, it consists of representatives from the volunteer radio community, law enforcement and emergency management representatives. AuxComm groups in the state address local and statewide development of volunteer radio capabilities, AuxComm credentialed radio operators can help staff Regional, State and Local Emergency Operations Centers. The AuxComm organization is also open to non-radio subject matter experts such as data, voice, video, microwave, or satellite experts.

Training - What's Coming Up

U.S. Army MARS may be sending Radiogram or ICS-213 messages into the traffic system in advance of a planned interoperability exercise (the date is to be determined) this will be conducted in cooperation with RRI. Additional details concerning this exercise will be posted at the link below and transmitted by radiogram and/or *REACT* Zello Traffic Channel.

<http://bit.ly/REACT-MARS-FALL2020>

Radio Relay International Fourth Quarter Emergency Communications Exercise will be built around weather data reporting. The exercise takes place in two phases part one is scheduled for September 15 and September 19. The simulation will be for a Gulf Coast hurricane and New England Hurricane respectively. Part Two of the exercise will take place at a date yet to be determined in November. That simulation will be a major winter storm impacting the Upper Midwest. Additional details concerning this exercise will be posted here and transmitted radiogram and/or *REACT* Zello Traffic Channel. <http://bit.ly/REACT-RRI-FALL2020-1>

The Use of Prowords in Radio Communications

Last month my article was primarily about ITU phonetics. This month will be Prowords. Prowords (Procedure Words) are meant to keep voice transmission as short and clear as possible, radio operators use procedure

words (PROWORDS) to take the place of long sentences. At the end of this article there is a table with many prowords some of them I would not anticipate a *REACT* member would ever use.

When sending formal traffic, certain Procedure Words (prowords) are used to clarify portions of the message. The standard prowords for *REACT* Teams are:

BREAK - Separates address from text and text from signature.

CORRECTION - I'm going to correct an error.

END - End of message.

MORE - More messages to follow.

NO MORE - No more messages to follow.

FIGURES - Used for a word group consisting of all numbers.

INITIAL - Used only for a single initial.

I SAY AGAIN - Used to indicate a 'repeat' of a word.

I SPELL - To spell [phonetically] a word.

LETTER GROUP - Examples: ARES, SCTN, NTS, RRI

MIXED GROUP - Examples: 12BA6, 7/23, 9/3/BOOKS, NNNØSBK

When receiving formal traffic, certain prowords are used to ask for clarification or

repeats of missing words.

SAY AGAIN,

WORD AFTER

WORD BEFORE

BETWEEN

ALL AFTER

ALL BEFORE

When you complete an exchange with another station, use the prowords "Over" "clear" or

"out" so other stations will know the frequency is now available to them. One method

is to end with just your call. This fulfills all the FCC

identification requirements and

takes less time. Whatever procedure your Team uses, make sure everyone knows and uses the same procedure.

Now to muddy the water a little, are pro- words and phonetics considered compliant with ICS/NIMS guidelines plain language radio procedures? My research has found that the US Coast Guard and the Civil Air Patrol have determined that prowords and ITU Phonetics are compliant with the National Incident Management System. MARS uses prowords in there training material and there is indication from unconfirmed sources that as of 2018 that FEMA SHARES will be incorporating or considering the use of prowords as plain language communications.

The use of 10 Codes and other communications shortcuts. After volunteering in a number of EMS, Rescue and Fire roles throughout the south while in the military, it seemed as though every location had their own list of 10 codes and some were the same wherever I went, for instance 10-7 (out of service). When some are different it can cause confusion and even have life

safety impacts. Because each team serves the community they live in, it is important to know how law enforcement, EMS and fire communicate. You should be knowledgeable on the 10 codes or other methods they use for radio communications. However, *REACT* team members should become proficient with ITU phonetics and the common prowords, that are in our training materials. The reason for this is to be compliant with NIMS and Incident Command System (ICS). If you have a Amateur Radio license you have probably heard of AUXCOMM. If any *REACT* radio communicator wants to be credentialed as an AUXCOMM operator, standard ITU phonetics and prowords are basic to becoming credentialed.

Please let the training committee know what you think about the use of standard phonetics, prowords and 10 Codes, it is my plan ask the Board of Directors to consider a resolution for the use of standard ITU phonetics and common accepted prowords for use in the *REACT* organization. Please send correspondence to training@reactintl.org or by mail to *REACT* Headquarters.

Below and on the following pages is a list of additional

Proword	Description
ALL AFTER	The portion of the message to which I have reference is all that which follows.
ALL BEFORE	The portion of the message to which I have reference is all that which precedes.
AUTHENTICATE	The station called is to reply to the challenge which follows
AUTHENTICATION IS	The transmission authentication of this message is.
BREAK	I hereby indicate the separation of the text from other portions of the message.
BROADCAST YOUR	Link the two nets under your control for automatic rebroadcast.
CALL SIGN	The group that follows is a call sign.
CORRECT	You are correct, or what you have transmitted is correct.
CORRECTION	An error has been made in this transmission. Transmission will continue with the last word correctly transmitted. An error has been made in this transmission (or message indicated). The correct version is. An error has been made in this transmission (or message indicated). The correct version is.
DISREGARD THIS TRANSMISSION — OUT	This transmission is in error. Disregard it. This PROWORD shall not be used to cancel any message that has been completely transmitted and for which receipt or acknowledgement has been received.
DO NOT ANSWER	Stations called are not to answer this call, receipt for this message, or otherwise to transmit in connection with this transmission. When this PROWORD is employed, the transmission shall be ended with the PROWORD "OUT".
EXECUTE	Carryout the purpose of the message or signal to which this applies. To be used only with the executive mode.

EXECUTE TO FOLLOW	Action on the message or signal which follows is to be carried out upon receipt of the PROWORD "EXECUTE". To be used only with the delayed executive method.
EXEMPT	The addressees immediately following are exempted from the collective call.
FIGURES	Numerals or numbers follow.
FLASH	Precedence FLASH
FROM	The originator of this message is indicated by the address designator immediately following.
GROUPS	This message contains the number of groups indicated by the numeral following.
GROUP NO COUNT	The groups in this message have not been counted.
I AUTHENTICATE	The group that follows is the reply to your challenge to authenticate.
IMMEDIATE	Precedence IMMEDIATE.
IMMEDIATE EXECUTE	Action on the message or signal following is to be carried out on receipt of the word EXECUTE. To be usMESSAGE
INFO	The addresses immediately following are addressed for information.
I READ BACK	The following is my response to your instructions to read back.
I SAY AGAIN	I am repeating transmission or portion indicated.
I SPELL	I shall spell the next word phonetically
I VERIFY	That which follows has been verified at your request and is repeated. To be used only as a reply to VERIFY.
MESSAGE	A message which requires recording is about to follow. Transmitted immediately after the call.
MORE TO FOLLOW	Transmitting station has additional traffic for the receiving station.

TO	The addressees immediately following are addressed for action.
NUMBER	Station Serial Number
OUT	This is the end of my transmission to you and no answer is required or expected.
OVER	This is the end of my transmission to you and a response is necessary. Go ahead, transmit
PRIORITY	Precedence PRIORITY
READ BACK	Repeat this entire transmission back to me exactly as received.
RELAY (TO)	Transmit this message to all addressees (or addressees immediately following this PROWORD). The address component is mandatory when this PROWORD is used.
ROGER	I have received your last transmission satisfactorily.
ROUTINE	Precedence ROUTINE
SAY AGAIN	Repeat all of your last transmission. Followed by identification data means "Repeat (portion indicated)".
SERVICE	The message that follows is a SERVICE message.
SIGNALS	The groups which follow are taken from a signal book. (This PROWORD is not used on nets primarily employed for conveying signals. It is intended for use when tactical signals are passed on non-technical nets).
SILENCE (Repeated three or more times)	Cease transmission on this net immediately. Silence will be maintained until lifted. (When an authentication system is in force, the transmission imposing silence is to be authenticated).
SILENCE LIFTED	Silence is lifted. (When an authentication system is in force, the transmission lifting silence is to be authenticated).
SPEAK SLOWER	Your transmission is at too fast a speed. Reduce speed of transmission.
STOP REBROADCASTING	Cut the automatic link between the two nets that are being rebroadcast and revert to normal working.
THIS IS	This transmission is from the station whose designator immediately follows.
TIME	That which immediately follows is the time or date time-time group of the message.
TO	The addressees immediately following are addressed for action.
UNKNOWN STATION	The identity of the station with whom I am attempting to establish communication is unknown.
VERIFY	Verify entire message (or portion indicated) with the originator and send the correct version. To be used only at the discretion of or by the addresses to which the questioned message was directed.

WAIT	I must pause for a few seconds
WAIT — OUT	I must pause longer than a few seconds.
WILCO	I have received your signal, understand it, and will comply. To be used only by the addressee. Since the meaning of ROGER is included in that of WILCO, the two PROWORDS are never used together.
WORD AFTER	The word of the message to which I have reference is that which follows.
WORD BEFORE	The word of the message to which I have reference is that precedes.
WORDS TWICE	Communication is difficult. Transmit (transmitting) each phrase (or each code group) twice. This PROWORD may be used as an order, request, or as information.
WRONG	your last transmission was incorrect. The correct version is.

GENERAL TRIVIA...

These facts have nothing to do with *REACT* but we thought you'd find them interesting. And who knows, maybe you'll find yourself on Jeopardy! some day...

A dime has 118 ridges around the edge.

A cat has 32 muscles in each ear.

A crocodile cannot stick out its tongue.

A dragonfly has a life span of 24 hours.

A goldfish has a memory span of three seconds.

A "jiffy" is an actual unit of time for 1/100th of a second.

A shark is the only fish that can blink with both eyes.

Al Capone's business card said he was a used furniture dealer.

All 50 states are listed across the top of the Lincoln Memorial on the back of the \$5 bill.

Almonds are a member of the peach family.

An ostrich's eye is bigger than its brain.

Cats have over one hundred vocal sounds. Dogs only have about 10.

If you are an average American, in your whole life, you will spend an average of 6 months waiting at red lights.

It's impossible to sneeze with your eyes open.

Maine is the only state whose name is just one syllable.

No word in the English language rhymes with month, orange, silver, or purple.

On a Canadian two dollar bill, the flag flying over the Parliament building is an American flag

Our eyes are always the same size from birth, but our nose and ears never stop growing.

Peanuts are one of the ingredients of dynamite.

"Stewardesses" is the longest word typed with only the left hand and "lollipop" with your right.

The cruise liner, QE2, moves only six inches for each gallon of diesel that it burns.

The microwave was invented after a researcher walked by a radar tube and a chocolate bar melted in his pocket.

There are only four words in the English language which end in "dous": tremendous, horrendous, stupendous, and hazardous.

There are two words in the English language that have all five vowels in order: "abstemious" and "facetious."

Your stomach has to produce a new layer of mucus every two weeks; otherwise, it will digest itself.

Setting Up a Station in 10 Minutes or Less

Text and pictures by Jon Mosby
Blackberry *REACT*

So you want to set up a station in ten minutes or less. Well, here is one idea.

On one side of the back pack I have a multi-meter. The other side pocket contains two bottles of water. The main rear pocket contains paper and writing implements, meter leads, antenna adapters, an extra handheld radio battery, and band aids. I have a small flashlight attached to the zipper tab.



This leaves the backpack weighing just under 20 pounds (17.8#) total. The main backpack holds a small “lunch” type pack (Figure 2)

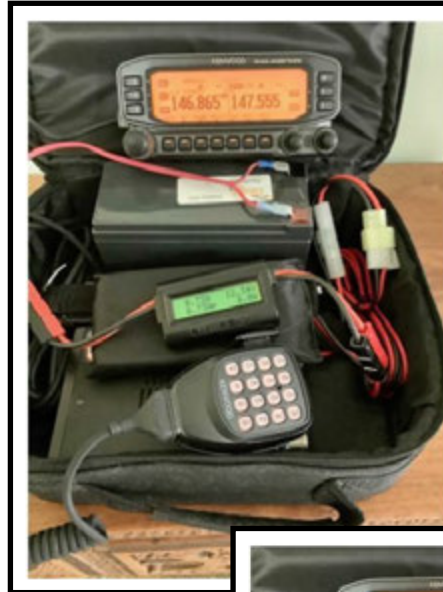


(Figure 2)

along with a cartridge drive carrier (Figure 3),

In the smaller pack, I have bungees, Anderson cables, connector adapters, an emergency backup, dual-band flexible J-Pole antenna. I also have an earbud/mike for my handheld along with a blue-tooth setup and handheld pouch.

I had a cartridge recorder for computer



(Figure 3)

battery is charged I store this with everything disconnected. This helps assure that the battery does not discharge prematurely. I try to use this station every six month or so to ensure it remains in working order.



(Figure 4)

I have used this on drills and exercises for 6-10 hours without any problems. Is this good for a long-term Net Control? Probably not as it is, however, with someone bringing in a fresh battery every few hours, and perhaps anchoring the antenna, if there is sufficient wind, then yes. If the radio operator is comfortable then you should be good to stay on the air for the duration. There is certainly more good emergency supplies that could be included, but this is intended for a very quick emergency setup.

Hope this helps someone or creates some ideas to expand upon. Whatever work for you will get you through an emergency. Stay prepared and stay safe!

backup years ago. I got rid of the cartridge drive and kept the transport carrier. It houses a battery, mobile radio, and some accessories, like a radio manual and a Watt's Up. Once the

And then the Antenna...

Okay, you've opened up the packs and have the radio ready to go. Before you turn the radio ON, here's the antenna setup to make sure you will be getting your signal out.

Figures 1 and 2 show how I store and transport the antenna. It is quite compact and light weight. If you are a musician, this item may look familiar. Yes, it is a portable boom mike stand. It can be adjusted to various angels so the main shaft remain vertical for the antenna.



Figures 1 and 2

Figure 3 shows the stand partially opened up. My trusted assistant is nearby guarding the bungee loops.

If you look close at the lower portion of the picture, you may notice a red band around one leg of the stand. This is where the dual band antenna is stored. (SUNDELY Dual Band Telescopic Extendable Whip Antenna, model 122-264HY from Amazon)



Figure 3

The antenna adapter and cable are secured to the end of the boom. Take the cap off the leg, retrieve the antenna, screw onto the adapter and assemble the boom.

Figure 4, you may notice my assistant is taking a break. You may raise it as high as practical.

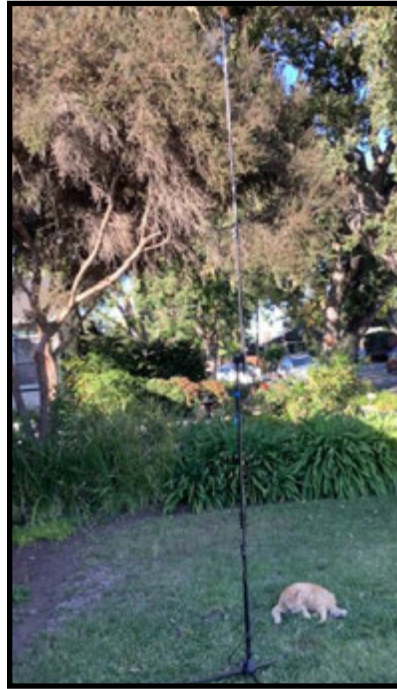


Figure 4



Figure 5

Figure 5 shows this antenna about 20 feet high and Bruce, guarding the setup. Certainly high enough for most emergency or disaster situations.



Since this is the SEP/OCT issue of the *REACT*er, let us take this opportunity to say

HAPPY HALLOWEEN!!

to our Fellow *REACT*ers!



From the Corner of the Room

Joe Zych, Region 3 Director

Greetings fellow *REACT*ers! Long time no chat

REACT teams, when you get a chance, **YOU TUBE** is your best friend for information on antenna construction and radio tips and tricks.

Now, I just came across something interesting I wanted to pass along its called **NETWORK RADIO**.

Network radio is like an Android cell phone on steroids! You have to check it out. I bought one last month and its awesome.

Making regular cell phone calls is just one aspect of it. You can log on the world wide Zello net or the World Wide *REACT* echolink net, and there is a program for hams called PEANUT that does DR and ALLSTAR. The same apps on your cell phone you can download from the app store.

This radio comes with a hand held mic and there is no outside antenna needed it as it works through the internet plus it has GPS.

There is a new model out that has all these features but does 2 meter and 44 Mhz as well in all in one radio.

Check this deal out, you'll be impressed!

Now, as that header up there says, I am the Director for Region Three.

Region 3 has been fairly quiet. I have been keeping in touch with teams on the East and West coast of Florida what with the tropical activity and wind advisory.

A big thank you to Kirk Paxson with radio traffic on the 20 meter band that was intercepted by a ham radio operator in South Texas and the Texas operator via land line gave me the hurricane report and updates.

Communication is so vital in emergency conditions and this is what *REACT* is all about. In our local area, most events, like everywhere else, are on hold or cancelled due to the virus. Our team really has slowed down and we all miss the events we normally do each season but it will get better some day!

Until next month, be safe and if you need ideas on fundraising or meeting ideas or weekly club nets email me at J.Zych@REACTIntl.org and have a *REACT*ful day. 73.

***REACT* TRIVIA!**

Here's some fun questions for you. See if you know the answers. You oldsters out there should get these easily!

(Answers in the Editor's column on Page 3. You already know these answers if you read that first, but if you don't, go back there now and see them!)

1. What does *REACT* stand for?
2. Is it *REACT* or R.E.A.C.T?
3. What does the "C" stand for? Company, Citizens, Communications, Corporation, or Concept?
4. Was it always that way? If not, what year did the word for the letter "C" change?

SUBMITTING **TEAM NEWS**

Is EASY!

Just follow this guideline...

NAME of Person Reporting— **TEAM NUMBER**— **TEAM LOCATION**

DESCRIPTION of **ACTIVITIES** (Who, What, Where, When, Why, and How)

Provide this info for each event in your report

INCLUDE PICTURES—attach them to your email—don't send .PDFs

(Caption: **WHO, WHAT** and **WHERE** each picture shows)

NAME of Photographer

SEND the entire report (with pictures attached) to:

EDITOR@THEREACTER.COM

SEE HOW EASY THAT WAS?

So Easy, even a caveman could do it! (sorry, Geico, I couldn't resist)



ATTENTION:
ALL REACT MEMBERS
and
ALL HAM OPERATORS



YOU ARE INVITED TO JOIN US
ON THE
REACT INTERNATIONAL
WORLDWIDE NET
EVERY TUESDAY AT 9 P.M. EST



Contact NETS@REACTIntl.org

for information on how to
get on the net.



Silent Mics



It is with profound sadness that the REACTer informs our REACT Family of the passing of these members



Ian Boyle
1960 - 2020

It is with great sadness that we inform you of the passing of Ian Doyle. Ian passed away on July 31, 2020 at Grand River Hospital In Kitchener ON (Canada) at the age of 59. Loving dad to Elizabeth Rose, missed by Elizabeth's mother, Ali Doyle and step-son Kaleb.

He is survived by sister Brenda Doyle-Emery and remembered by aunts, uncles, nieces and nephews. He was preceded in death by his parents, Jack and Betsy Doyle. Ian had been a valued member of Waterloo REACT from 2009 to 2019 and will be missed by all who knew him, whether at an early morning event, late night call out or flipping burgers at a REACT family picnic.

Please keep Ian's family in your thoughts as they go through this difficult time.



Ed Fujii
1924 - 2020

This week saw a silent mic, Ed Fujii W7IZZ from Boise. He was 96 years young.

Ed began his amateur radio hobby when he was a teenager. Before radio, he communicated with his next door neighbor Fritz using Morse Code and an incandescent lamp (and power switch). It was during World War II. The neighbors complained about a German and a Japanese were communicating with signals. The two boys created a better lamp shade using cardboard. They pointed the two lamps toward each other. Only they could see the light. The neighbor's complaints quieted.

Ed organized amateur radio coverage for Boise's largest half marathon, Robie Creek. In the 1990s, it was nearly impossible to help with the event. The old timers had it sewn up. They had been serving for years at "their" location on the race. He turned it over to Valley Wide REACT in 2016.

Ed volunteered for many organizations such as conservation. He was an avid fly fisherman.

Region 6 Manager Tom Jenkins recalls Ed working his first Sawtooth Relay in 2000. Three operators helped 300 teams (of 6 members each) run relays down Idaho Highway 75 from Stanley to Ketchum.

At the age of 90, Ed decided to hang up his bicycle and handheld. He attended 90% of the traffic control events downtown as bicycle mobile. REACT International President John Capodanno presented a plaque to Ed in 2014 as reported in the REACTer magazine. Sgt Kyle Christensen presented a recognition plaque from the Boise Police Department.

Every member of Ed's family is a licensed radio amateur. What a leader! Rest in peace dear friend, 73.



Doris LeMay
1931 - 2020

Dolores Lemay, SWR181, Past founder, with her husband Ray, of Drifting Sand *REACT*, they joined Southwestern *REACT* in about the mid '80s, when Drifting Sand folded due to lack of membership. Although she never became an Amateur, she and Ray held CB and GMRS licenses. After Ray's death, she continued driving to the General Meeting until she could no longer drive the round-trip (at night) distance from her home in Seely (Imperial Valley, near the El Centro Naval Air Station). She said she maintained her membership to continue being part of the Team, even though her health and finally her need to relocate to Oregon, where she passed away.



John Pfingsten
1938 - 2020

John "Big John" Pfingsten, KD6ACV, SWR091. We lost long time and active Public Service amateur, "Big John" on June 19, 2020. He served with the USN, ACS/ RACES, and of course here with Southwestern *REACT*, to name a few. He served as President, (SW)*REACT*er Editor, and a very active member at our events. Earlier this year in a conversion from his home in Hemet, he talked of the past activities, such as Thunder Boats, and he wished his health and distance were not preventing him from continuing being "active". He was a character and will be missed.



Mike Corum
1953 - 2020

Mike Corum, KD6AEB, formerly SWR093. With as many irons in so many fires, Mike always had time to demonstrate his ability to make things happen, and always with a smile. Although he did not renew his membership this year with us and other teams and groups he worked with, his contributions to the Team must be recognized. Although, to the Covid-19 bean-counters, his passing was just another stroke in their counter, his loss was deeply felt throughout the amateur community. He left behind a brief glimpse of who he was: <http://www.kd6aeb.com/about.htm> Please check it out.

Kevin Neville Verde 1980 - 2020

It is with the heaviest of hearts that we share the news of the passing of Kevin Verde, *REACT* LM 564.

Kevin was a driving force behind the formation of Los Angeles County *REACT* as well as the force behind (President of *REACT* International) John Capodanno becoming a *REACT*er in the first place.



Kevin had been struggling with health issues since early March and was finally diagnosed with an inoperable brain tumor. Kevin was dedicated to helping others and his family asks that as an honorarium to him, you find a complete stranger in need and perform a random act of kindness, preferably not financially. This would be the best way to honor Kevin and his life.

His brother Cameron writes, "During his life, he was dependent on others or public transportation to get around because of his vision limitations. Kevin, as most of you know, had an eery sense of time (and direction), as a result. Always punctual, never wanting someone to wait on him or in the alternative, missing a scheduled ride. During his final months, I got the sense he had come to terms with his timing and the simple unavoidable reality that everything comes to an end (in the natural order).

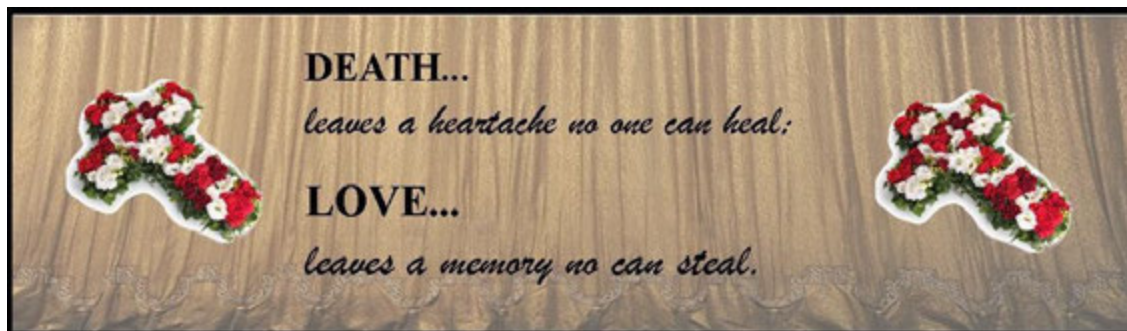
Rick Gamboa, a friend of Kevin's and a fellow *REACT* Team member says, "I met Kevin Verdi in 2006 and we become instant friends. Kevin was instrumental with the formation of Los Angeles County *REACT*. I remember meeting up with Kevin and Anthony Santangelo along with John Capodanno and myself several times in Orange county where Kevin and his friend Anthony convinced us to form a new *REACT* chapter in Los Angeles.

In 1998 Kevin became a member of CREST *REACT* and was a life member of *REACT* International #564. In January of 2008 Kevin Verde became a member of Los Angeles County *REACT* and was issued unit number L.A. 79. He came out and helped us in several L.A. County *REACT* events and emergency call outs helping out with dispatch at L.A. County *REACT* mobile command center. He would come up from Orange County on the train.

Kevin also helped with the Baker 2 Vegas communications for many years helping insure the safety of the San Fernando Police Department officer's running in the event.

When you called Kevin and asked for assistance he would be on the way before we even hung up the phone. If anyone made *REACT* great it was Kevin.

"Kevin (Radar) Verdi you will be missed but never forgotten"



REACT International Event Calendar

SEPTEMBER 2020

1.....REACTer Published
1.....REACT World Wide Net (9:00 p.m. ET)
5.....Zello World Wide Net (9:00 p.m. ET)
7.....**Labor Day (US)**
8.....REACT World Wide Net (9:00 p.m. ET)
12.....Zello World Wide Net (9:00 p.m. ET)
15.....Deadline for October REACTer
15.....REACT World Wide Net (9:00 p.m. ET)
19.....Zello World Wide Net (9:00 p.m. ET)
22.....REACT World Wide Net (9:00 p.m. ET)
26.....Zello World Wide Net (9:00 p.m. ET)
29.....REACT World Wide Net (9:00 p.m. ET)

OCTOBER 2020

1.....REACTer Published
3.....Zello World Wide Net (9:00 p.m. ET)
6.....REACT World Wide Net (9:00 p.m. ET)
10.....Zello World Wide Net (9:00 p.m. ET)
13.....REACT World Wide Net (9:00 p.m. ET)
15.....Deadline for November REACTer
17.....Zello World Wide Net (9:00 p.m. ET)
20.....REACT World Wide Net (9:00 p.m. ET)
24.....Zello World Wide Net (9:00 p.m. ET)
27.....REACT World Wide Net (9:00 p.m. ET)
31.....Zello World Wide Net (9:00 p.m. ET)
31.....**Halloween (US)**

NOVEMBER 2020

1.....REACTer Published
3.....REACT World Wide Net (9:00 p.m. ET)
7.....Zello World Wide Net (9:00 p.m. ET)
10.....REACT World Wide Net (9:00 p.m. ET)
14.....Zello World Wide Net (9:00 p.m. ET)
15.....Deadline for December REACTer
17.....REACT World Wide Net (9:00 p.m. ET)
21.....Zello World Wide Net (9:00 p.m. ET)
24.....REACT World Wide Net (9:00 p.m. ET)
26.....**Thanksgiving Day (US)**
28.....Zello World Wide Net (9:00 p.m. ET)



DECEMBER 2020

1.....REACTer Published
1.....REACT World Wide Net (9:00 p.m. ET)
5.....Zello World Wide Net (9:00 p.m. ET)
8.....REACT World Wide Net (9:00 p.m. ET)
12.....Zello World Wide Net (9:00 p.m. ET)
15.....Deadline for January REACTer
15.....REACT World Wide Net (9:00 p.m. ET)
19.....Zello World Wide Net (9:00 p.m. ET)
22.....REACT World Wide Net (9:00 p.m. ET)
24.....**Christmas Eve**
25.....**Christmas**
26.....Zello World Wide Net (9:00 p.m. ET)
29.....REACT World Wide Net (9:00 p.m. ET)
31.....**New Years Eve**

JANUARY 2021

1.....REACTer Published
1.....**New Year's Day**
2.....Zello World Wide Net (9:00 p.m. ET)
5.....REACT World Wide Net (9:00 p.m. ET)
9.....Zello World Wide Net (9:00 p.m. ET)
12.....REACT World Wide Net (9:00 p.m. ET)
15.....Deadline for February REACTer
16.....Zello World Wide Net (9:00 p.m. ET)
19.....REACT World Wide Net (9:00 p.m. ET)
23.....Zello World Wide Net (9:00 p.m. ET)
26.....REACT World Wide Net (9:00 p.m. ET)
30.....Zello World Wide Net (9:00 p.m. ET)

FEBRUARY 2021

1.....REACTer Published
2.....REACT World Wide Net (9:00 p.m. ET)
6.....Zello World Wide Net (9:00 p.m. ET)
9.....REACT World Wide Net (9:00 p.m. ET)
13.....Zello World Wide Net (9 p.m. ET)
14.....**Valentine's Day**
15.....Deadline for March REACTer
16.....REACT World Wide Net (9:00 p.m. ET)
20.....Zello World Wide Net (9:00 p.m. ET)
23.....REACT World Wide Net (9:00 p.m. ET)
27.....Zello World Wide Net (9:00 p.m. ET)

To add items to this calendar, contact:

REACT International: 301-316-2900 (Inter-Office Phone: Ext 114)

email: editor@thereacter.com

Items on the calendar are as accurate as we can make them but are subject to change.

Any questions ... contact the person in charge of the event

Most National/International Holidays are now in the calendar. They are in **BOLD PRINT**

We're America's Hobby Radio Magazine

There is only **ONE** regularly published magazine that covers CB radio, scanners, two-way radio, GMRS, FRS and MURS!

Check out **NATIONAL COMMUNICATIONS MAGAZINE!**

NATIONAL COMMUNICATIONS

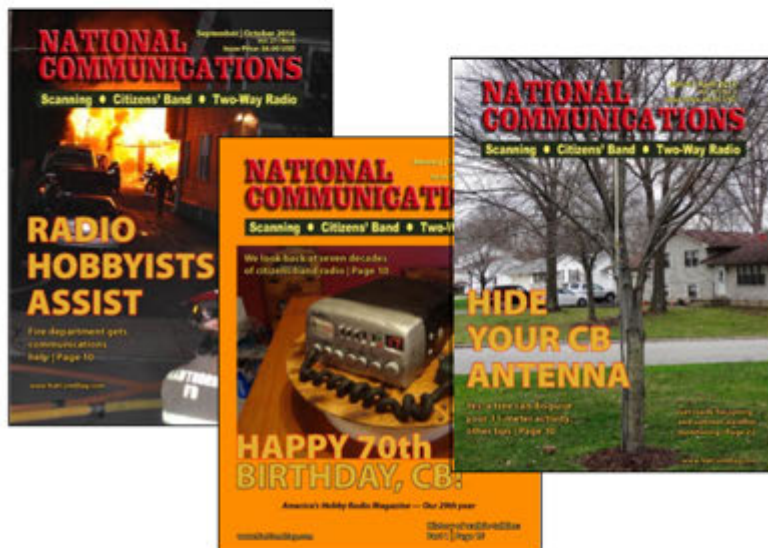
Scanning • Citizens' Band • Two-Way Radio

NatCom publishes six times a year and persons with an online access account get access to not only the current issue of the magazine in PDF format, but also every issue of the magazine published going back to 1988! That's 29 years of pure radio communications reading!

NatCom covers listening to the scanning bands so you get the most out of your scanner, how to get more out of your CB equipment and how to use the MURS, GMRS and FRS bands. No other magazine covers ALL these hobby radio topics!

NatCom is only available online and online access account holders are given access to the current issue as well as every issue back to 1988. We're **America's Hobby Radio Magazine**, the oldest continually published communications magazine!

Join the NatCom family today and order your online access account. One year of online access costs **only \$25**, while we are offering for a limited time two-year online access accounts for \$48 (a \$2 savings) and three-year online access accounts for \$70 (a \$5 savings).



To order your own online access account, go to www.NatComMag.com and click on "Click here to subscribe online." There also is a link for a **FREE ISSUE DOWNLOAD** to check us out!

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