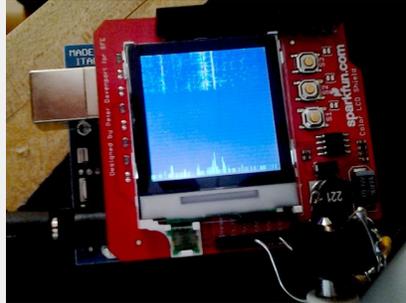


SOVARC®

April
2018



Southern Vermont
Amateur Radio Club
The SOVARC Report

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Scribblings of
The

Scribe



Bob Collins - Secretary
March 2018 Meeting Minutes

- These notes recorded with wonderful detail by Steve Hearn, KA2PTE.
- The meeting opened at 7:00 PM with introductions, shoe sizes, call signs, license class, years in Ham Radio, etc.
- New guest present, Charlie from Pownal, a perspective ham, intro by Steve, KA2PTE.
- Fran Boudreau, WB1EUC, donated a projector to the club. He also brought a printout of the latest Tech Exam pool. Thank you Fran, for the valuable projector and for your attention to new hams with the question pool.
- Bill Clark, W1BVT, issued the Treasurer's Report, mentioned our donation to the library is due.
- Ken Lanoue, N1RZ, motioned for \$120.00 for our yearly library donation. It was passed.
- Chuck Watson, WA1NBU, gave the Vice President's Report. A fix is underway for the



Calendar Events

April 1, 2018 [ARRL AM Rally 80-10 Meters](#)
 May 23, 2018 [Spring Skywarn Presentation](#)
 April 8, 2024 [Next Solar Eclipse in North America](#)

*
Equipment
Of the Month

This is [Cascata](#) by WA5ZNU, an Arduino Waterfall display program built using the Arduino and the Sparkfun Color LCD Shield, a Nokia LCD color display, to provide a pocket sized display for field operations, or for computer free operations. It can provide a waterfall, a spectrum graph or both, with most RTL-SDR receivers. Cascata requires a small amount of soldering and can serve as an introduction to the Arduino for Ham Radio operators. Check it out at <http://wa5znu.org/2011/07/cascata/>

repeater ID issues. [SOVARC Website](#) progress is advancing daily, as anyone bringing up our SOVARC website can attest. Many hours have been invested by Chuck to make the site better and easier to update. Check it out.

- Bill Clark, W1BVT, announced he has been in touch with Paul Gayet from our ARRL, who is striving to make sure our club ARES membership and skill levels are up-to-date. He is recommending stricter practices on the 2 Meter net. Bill is planning to invite Paul to a future meeting regarding an ARES update. Much is happening.
- Steve, KA2PTE has been in contact with the [NOAA Skywarn](#) presenters with an eye toward a Spring presentation on May 23, 2018. We can't wait.
- Ken, N1RZ, announced he had brought in some books and gear from silent key members.
- Steve, KA2PTE, reminded members to check the [President's Corner link on the SOVARC site](#), and get on the mailing list so they can be in the loop to any in-between meeting updates.
- Bob Hain's feature-rich Ham clock was presented by WA2VYZ. This unique project which was presented in a 2017 issue of QST, is designed and supported by [clearskyinstitute.com](#) which is the creation of WBØOEW. The cost was approximately \$110 US. Bob built one.
- Chuck Watson, WA1NBU, brought in his "Noise Lab". Software was loaded on his laptop. The hardware frequency range was 24 mHz - 2.4 GHz. Steve brought in an 8 foot CFL light fixture and checked for noise on the 10 meter band. It did indicate significant traceable RFI from the fixture.
- Steve indicated that RF noise location will continue at many future meetings as antennas and equipment are improved. Stay tuned.

- Steve closed the meeting at approximately 8:30 with a comment about Chinese electronic merchandise as a major contributor to RFI. It is produced cheaply in a short production cycle with RFI an after thought. No FCC testing is given, and it is sold to eager western vendors due to low pricing, with quality often questionable. What is often shipped to the U.S. is the quality of floor scrapings and rejects.

Below are a few photos from the two wonderful presentations at the meeting. These pictures are courtesy of Bill Clark, W1BVT.



SOVARC DIRECTORY

Club Officers

President:

Steve Hearn, KA2PTE
techforce@ureach.com

Vice President:

Chuck Watson, WA1NBU
K1SV@sovarc.org

Treasurer:

Bill Clark, W1BVT
802-440-9876 w1bvt@hotmail.com

Secretary:

Bob Collins, KB1NFQ
802-447-7990 rgcbjc@gmail.com

SOVARC Repeater K1SV 146.835

PL Tone - 100.00 hz

Bear Run Rd - Shaftsbury, VT

Repeater Manager - Chuck Watson
WA1NBU

802-688-3550

K1SV@sovarc.org

Asst. Manager Mike Lachant - N1HSJ

802-447-1425 1wizz@comcast.net

SOVARC on the Web

www.sovarc.org

Webmaster: Chuck Watson WA1NBU

K1SV@sovarc.org

Volunteer Exam Sessions Contact:

Nelson Brownell - WB1HBA

802-823-5656 brown@rpi.edu

SOVARC Membership is \$20 annually

Payable at our meetings or send to:

Bill Clark

207 Maple Street

Bennington, VT 05201

Editor: "The SOVARC Report"

Bob Collins - KB1NFQ

802-447-7990 rgcbjc@gmail.com

SOVARC and Friends E-Mail List

Art Haytko - K2IIR k2iir@arrl.net
Arnie Russell - KB2MHR hammerradio@yahoo.com
Al Margadonna - KA1IEG ka1ieg@wildblue.net
Anthony Bartholdi - KC1GGA tony16@comcast.com
Ben Runnels - KB1PCI kb1pci@sovarc.org
Bill Clark - W1BVT w1bvt@hotmail.com
Bob Collins - KB1NFQ rgcbjc@gmail.com
Bob Dawson - W1VY rusty110_2000@yahoo.com
Bob Hain - WA2VYZ wayne.hain@comcast.net
Chuck Watson - WA1NBU K1SV@sovarc.org
Dave Latchum - W1VR w1vr73@gmail.com
Ed Ransom - WA1MAG edrans@live.com
Ed Landry - WA1ZAM lastone01247@yahoo.com
Eric Mazur - KA1SUN We need update
Fran Beaudreau - WB1EUC keyscat@hotmail.com
Frank Davignon - KB1HZM kb1hzm@yahoo.com
Frank Pulaski - WT1B frank@classypages.com
Glenn Burt - KA2DTH ka2dth@arrl.net
Greg Fox - KD2FWE foxy23nhfd@gmail.com
Jon Meigs - WB1AJJ joncin91@stny.ny.com
John Moyant - KC1FXX moyant@mac.com
Judd Eichorst - KC1CSQ eich.judd@gmail.com
Ken Lanoue - N1RZ n1rz@hotmail.com
Mandy Kent - A1A bookowlsnest@gmail.com
Mark Beck - K3MFB markbeck@comcast.net
Michael Lachant - N1HSJ 1wizz@comcast.net
Mike McKamey - K7EVO mmckamey@comcast.net
Mike Meehan - N3TYA brvfd51@gmail.com
Mike Morneault - KB1YLL jesusdiedforme@comcast.net
Mike Powloka - KT1Q mikedlk@live.com
Nelson Brownell - WB1HBA brown@rpi.edu
Paul Vincent - W2IDF tango5five@yahoo.com
Peter Hayes - K2AEP haystk@localnet.com
Randy Horn - N1SP randyN1SP@gmail.com
Robert Elias - K1PLK renb57@gmail.com
Roland Stiner - NK2U nk2u@comcast.net
Roy Mattison - N1TBB mattison71@yahoo.com
Steve Hearn - KA2PTE techforce@ureach.com
Steve Martin - KB1VSL steve.r.m101@gmail.com
Sue Coulter - KC1CSP vtbratt66@gmail.com
Sue Richie - N1NOP olepato@comcast.net
Skip Teker - NC2T Bigt101@roadrunner.com
Steve Loftus - KA1ROI stevejloftus@gmail.com
Stewart King - KB1IQN sbk1967@hotmail.com
Ben Wurmfeld - KC1HRN bwurmfeld@svc.edu

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Two Days of the Week Are Important
to all SOVARC members.

Sunday evening is the 10 Meter
Net hosted by Chuck Watson,
WA1NBU, at 28.333 mHz at
8:00 PM.

Monday Evening is the 2 Meter
ARES Net hosted by a net control
person each week at 146.835 mHz
(PL Tone 100 hz), at 7:00 PM.

Join Us !!

ARES NET SCHEDULE



The Bennington County ARES District 5 Net is held every Monday evening at 7:00 PM on the SOVARC 146.835 mHz repeater. Access to the repeater requires programming a 100 Hz PL tone. All ARES group members should be taking a turn at "Net Controller". It is good practice and spreads the opportunity.

October, November, December, January ARES Net Controller Schedule

March

03/05 W1BVT Bill
03/12 KB1NFQ Bob
03/19 N1RZ Ken
03/26 W1BVT Bill

W1BVT, Bill Clark,
is the District
Emergency Coordinator.

April

04/02 KB1NFQ Bob
04/09 N1RZ Ken
04/16 W1BVT Bill
04/23 KB1NFQ Bob
04/30 N1RZ Ken



May

5/07 W1BVT Bill
5/14 KB1NFQ Bob
5/21 N1RZ Ken
5/28 W1BVT Bill



Remember the
100 Hz PL Tone

June

6/04 KB1NFQ Bob
6/11 N1RZ Ken
6/18 W1BVT Bill
6/25 KB1NFQ Bob

What is ARES?

The Amateur Radio Emergency Service (ARES) consists of licensed amateurs who have voluntarily registered, their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization, is eligible in the ARES. The only qualifications, other than possession of an Amateur Radio license, is a sincere desire to serve. Because ARES is an amateur service, only amateurs are eligible for membership. The possession of emergency powered equipment is desirable, but not a requirement for membership.

There are four levels of ARES organization: National, Section, District, and Local are the designations. National emergency coordination at ARRL Headquarters is under the supervision of the ARRL Field and Educational Services Manager, who is responsible for advising all ARES officials regarding their problems, maintaining contact with federal government officials concerned with amateur emergency communications potential, and in general with carrying out the League's policies regarding emergency communications. ARRL State Emergency Coordinator, Paul Gayet has indicated that a 40 year overhaul of ARES organization is coming soon. Watch this space.



Wireless Power Transfer Interference - A Noise Threat Another Noise Threat %!@#?

ARRL  3/7/18

IARU Region 1 President Don Beattie, G3BJ is expressing concern that Wireless Power Transfer for Electric Vehicles, also referred to as WPI(EV) would pose a threat to Amateur Radio spectrum. WPI(EV) which typically uses frequencies in the LF and MF range, allows the charging of electric vehi-



cles without having to “plug in” to a power source. WPI(EV) is high duty cycle, located in residential areas, and its harmonics are likely to be spread across a band of frequencies. Beattie explained in a briefing that it could end up being installed at residences of electric vehicle owners, generating noise that could obscure radio communications in and around home environments.

“Many non-radio devices are coming on stream, which emit high levels of wideband ‘radio noise’ which mask essential communications,” Beattie said in a post to his website, [The Threats to Radio Communication](#). “It is rather like a thick fog which prevents us from seeing things at any distance. So, it is the radio spectrum which is being polluted in a way which, if unchecked, will radically reduce its usefulness.”

Beattie said that, in his role as IARU Region 1 President, he has been heavily involved in discussions on this technology. He pointed out to an IARU paper which seeks the support of other countries “to ensure that spurious emission limits are set for WPI(EV), which will protect incumbent radio services in the urban/suburban residential environment.”

World Radio Communications Conference agenda 9.1.6 calls for “urgent studies” of WPT(EV) to assess its impact on radio communications services and to study suitable harmonized frequency ranges that could minimize its impact on the radio spectrum. In a 2016 report, the International Telecommunication Union called for WPT “game-changing” technology. “We will be able to become free from lacking electric power when [it] will be supplied wirelessly,” the report said.

WPT(EV) would operate using inductive coupling from a charging “pad” on the floor beneath the vehicle. “While the technology is still under development, some installations for public service vehicles (buses) are already in operation, using changing frequencies around 20 kHz,” Beattie said. Discussions are under way in [CEPT \[European Conference of Postal and Telecommunications Administration\]](#) over the introduction of Wireless Power Transmission for Electric Vehicles on a widespread basis across Europe.” Domestic charging systems are expected to use a frequency around 85 kHz, and Beattie said this poses a real risk to radio communications resulting from the harmonics that the high power WPT(EV) installations would generate,

“In the residential environment, the existing limits will have to be tightened very significantly.”

www.arrl.org/iaru.president.warns.of.power.transfer.interference

From: AA1SU Paul Gayet
Vermont Field Organization

Vermont: SM, Paul N. Gayet, AA1SU.

Please visit ARRL Field Organization when you get a chance to see how you can help out in the Ham Radio Radio community. It is up to us to keep Ham Radio strong in Vermont.

Traffic continues to be a fun part of the hobby and Vermont has several Hams active in this area. If you would like to learn more about passing traffic, contact me. Effective handling of Radio Grams keeps us more prepared for when an emergency arises. Plus, the people on the other end are always pleased as punch when they get one. So, check to see who has a birthday coming up, and compose a piece of traffic. There is plenty of information on the ARRL web site, too. You can download a form at: www.arrl.org/radio.gram

If you are interested in local government and how you can help represent Ham Radio in a positive light, I am looking for a Local Government Liaison in your town. This position monitors town proposals that might affect Ham Radio, as well as other duties. Visit the web page link in the yellow box below for a more detailed explanation of this important appointment.

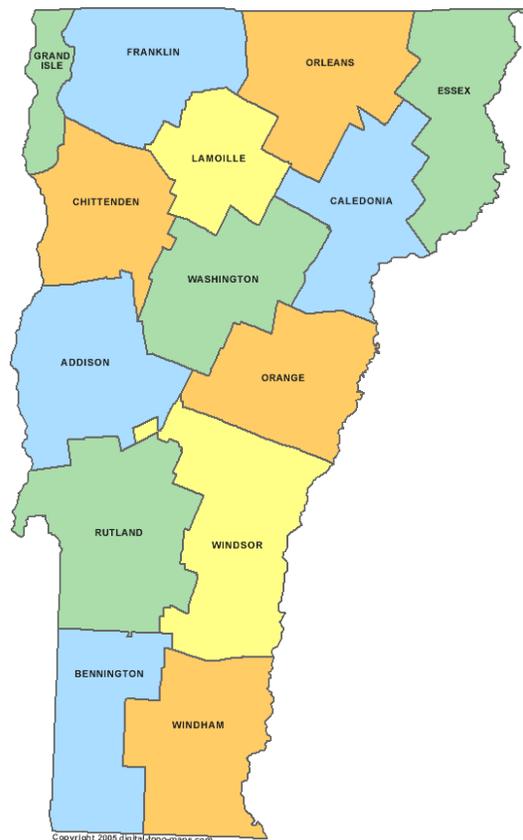
Your Editor couldn't locate this. [Contact Paul Gayet at AA1SU@arrl.net](mailto:AA1SU@arrl.net) for details concerning this Local Government Liaison position.

ARES

Here is a list of Vermont Districts and the DEC's:

District Counties DEC Phone E-Mail

1. Chittenden Grand Isle Franklin: OPEN
2. Orleans Essex Caledonia: Mike Gruteke
K3BRG 873-3525 K3BRG@arrl.net
3. Washington Orange Lamoille: OPEN
4. Windsor Peter W. Kelleher KC1SS 554-0999
KC1SS@arrl.net
5. Bennington: Bill Clark W1BVT 430-3055
W1BVT@hotmail.com
6. Rutland: Ben Tredwell N1UKK 287-2011
Baxbenford@aol.com
7. Addison: OPEN
8. Windham: Tim Bell KA1ZQX 365-7046
KA1ZQX@arrl.net



The American Radio Relay League
RADIOGRAM
 VIA AMATEUR RADIO

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	TIME FILED	DATE
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<p>TO _____</p> <p>Telephone Number _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>This message was received at:</p> <p>Amateur Station _____ Date _____</p> <p>Name _____</p> <p>Street Address _____</p> <p>City State Zip _____</p>
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REC'D	DATE	TIME	SENT	DATE	TIME
FROM			TO		

<p>This message was handled free of charge by a licensed Radio Amateur whose address is shown in the box at right above. As such messages are handled solely for the pleasure of operating, no compensation can be accepted by a "Ham Operator." A return message may be filed with the "Ham Operator" delivering this message to you. Further information on Ham Radio may be obtained from ARRL Headquarters, 221 Main Street, Newington, CT 06111</p>	<p>The American Radio Relay League, is the national membership society of licensed Radio Amateurs and the publisher of QST Magazine. One of its functions is public service communications among Amateur Operators. To that end, the League has organized the National Traffic System for daily nationwide message handling.</p> <p style="text-align: right; font-size: small;">ARRL / K1SV Form # 05201</p>
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SOVARC's SWAP AND SHOP

The items listed below
come from the shack of
Ken Lanoue, N1RZ.



Make Ken a fair offer on any item or all.
Items are all in used excellent condition.

Ken would like proceeds from these
particular items to go to the SOVARC
treasury

For your S and S items...
Contact the SOVARC Report a week before
the issue date with any details and photos.

These additional items are copied from the SOVARC GROUPS Trading Post.

Current listing of - *WANTED* -

Looking for an AM loop antenna, the sort you
would get when you purchase a stereo / music
system. If anyone has anything laying around ex-
tra in their junk drawer let me know.

Steve Hearn - KA2PTE

Current listing of - *FOR SALE* -

SONY STR-D365 80W AM/FM Stereo receiver :
\$75.00 (Contact: Steve Hearn - KA2PTE)

[[http://www.technotronic-dimensions.com/
gear4sale/str-d365.pdf](http://www.technotronic-dimensions.com/gear4sale/str-d365.pdf)]

AIWA AV-D25 Pro Logic Surround Home Thea-
ter Stereo Receiver w/ Super T Bass : \$100.00
(Contact: Steve Hearn - KA2PTE)

[[http://www.technotronic-dimensions.com/
gear4sale/AV-D25.pdf](http://www.technotronic-dimensions.com/gear4sale/AV-D25.pdf)]

S O N Y STR-DE445 AM/FM 5.1 channel 400
Watt Surround Receiver + Original Remote &
batteries : \$95.00 (Contact: Steve Hearn -
KA2PTE)

[[http://www.technotronic-dimensions.com/
gear4sale/str-de445_.pdf](http://www.technotronic-dimensions.com/gear4sale/str-de445_.pdf)]

President's Notes

April, 2018

Hello Hams,

Very pleased with how things are going in the club ! We now have a Club trading post page on the SOVARC site, and you should be seeing some club owned gear at the meeting for sale frequently. I would still like to see people bring in their gadgets (projects) to show off, just contact me and we can plan something out.

June and July are wide open and perhaps one of them can be a CW revival of some sort if we can find a volunteer. We might be testing the waters for a combined 80 meter net with our friends at W1RRC up there in Townshend soon, so stay tuned for more info.

I have officially got my feet wet with HF contacts on the lower SW bands with the assistance of Randy Horn, N1SP. He donated a dipole to me and also helped find the best way to put it up, and tested it all out with his antenna analyzer as well.

Rest easy, as I am officially HAVING FUN. And my future plans are to do so ! So glad I came back to this hobby !

C U at t he next meeting...73's

Dah di da dit
Di da dit dit.

Steve Hearn - KA2PTE

Editor's Notes

April, 2018

Welcome to Spring,

Few things on the internet are as frustrating to deal with as Google and it's Empire. To look at a photo of one of their centers of planning, it would seem that with the thousands of employees there in cubicles, cubatizing, there might be someone who would answer a call and help you with a problem such as recovering a lost password.

No such number. No person. No help.

For those who have ever tried, you know there is no one there. No one is poised by a keyboard. All responses are written into the web site dialogue. The procedures take you in elaborate circles designed to encourage you to abandon your quest for your password.

"Please choose another password."

"Please provide another email address to receive your 6 digit code."

I don't have another email address. This is my only email address. That's the reason I am trying to retrieve my password for this email address.

"Please provide another email address to receive your 6 digit code."

You must comply. Always comply. With an additional email address in your possession, it's your time to get your 6 digit code. With that, you can reset your password, go on with your life, take a deep breath, and have a pleasant QSO with a fellow Ham. That helps. Carry on.

I don't know that I ever had a Gmail password.

I do have a file box filled with passwords

You can tell I'm a little testy with Google.

Best regards and thank you Chuck,

Bob - KB1NFQ

SOVARC

MEETING AGENDA

BY STEVE HEARN

Bob Collins volunteered to take on the position of club Event Photographer.

Fran Boudreau stepped forward to take the new position of club ARRL Coordinator and also alternate Event Photographer.

On the agenda we have Randy's WSJT mode demo. No one else has come fourth with a presentation.

I thought maybe there was some continuing business on the notes from last meeting so maybe we could go over that.

I know we now have a Trading Post page on the SOVARC site. Ken, N1RZ, said he will bring the "Club gear" and set up a table like he did last meeting. Not sure if we can do that every time.

...Steve....

The SOVARC Report
Southern Vermont Amateur Radio Club
Bob Collins - KB1NFQ Editor
12 Greenview Drive
Bennington, VT 05201
Email: rgbjc@gmail.com



This handsome fellow is no April Fool.

Next SOVARC Sponsored

VE Exam Session
To Be Announced

Bennington Library
Bennington, VT 050201

Please bring the following items:

Photo ID and copy of current license
(if licensed)
All originals CSCE's
Check for exam cost

For additional information contact:
[Art Haytko K2IIR 802-442-1563](tel:802-442-1563)

April Meeting
April 25, 2018

●Next SOVARC Meeting●
Join Us On
May 23, 2018

It will be SKYWARN night !!

Regular SOVARC Club Meetings are held on the fourth Wednesday of each month at 7:00 PM at the Library at 101 Silver St. in Bennington, VT. Meetings are open to anyone with an interest in Amateur Radio.

For more information contact
[Bob Collins KB1NFQ 802-447-7990](tel:802-447-7990)