

Short CIRCuits

November 2020

SERVING CENTRAL ILLINOIS AMATEUR RADIO SINCE 1921

IN THIS ISSUE

From The President

by Rick Suhadolc N9CKL

The Governor of the State of Illinois has placed us now under increased mitigation protocol as of 12:01 am Wednesday November 4th for Region 2 (McLean County) now under restricted restaurant and bar mitigation protocol (no indoor dining) Phase 2 as established under the Restore Illinois Resurgence Plan.

With the increased State required mitigation protocol Phase 2 it is clear that the CIRC Christmas Party scheduled for December 3 at 6pm at Jim's Steak House regrettable needs to be cancelled.

Per the last meeting we have revised our CIRC Zoom meetings to the third Wednesday of November 18 and December 16th. Yes, this year has been full of surprises. How-ever Ham Radio is well suited to perform under mitigation protocols. This is the

time to again socialize on our established nets and stay safe with electronic radio and computer communications.

Great planning and discussions on our nets increases our abilities to make the right decisions with respect to club directions. The best plans are talked about in our meetings and nets checking and rechecking our equipment and its expected use and suitable for all members requirements. Research done ahead of time is time well spent before funds are to be secured.

Have a safe upcoming Thanksgiving with Family.

Rick N9CKL



SAL 30 Installation

Article by Keith Hanson AC9S

Interesting Things Coming

Items provided by Rick Suhadolc N9CKL

SAL 30 Installation

Article by Keith Hanson AC9S

Here are some pictures Larry took of the little antenna party we had Thursday, 11/5 when we put up my SAL-30. It is a dual loop receiving antenna from Array Solutions with a 30 foot mast as the central support and is supposed to provide low noise reception in 8 selectable directions on the lower bands - 160 through 40. It is similar to Gary AB9M's K9AY loop.



The following stalwart hams showed up to man the ropes in what I think is the Ham Radio equivalent of an old-fashioned barn raising. Nettie provided pizza and Dilly Bars to sweeten the pot.

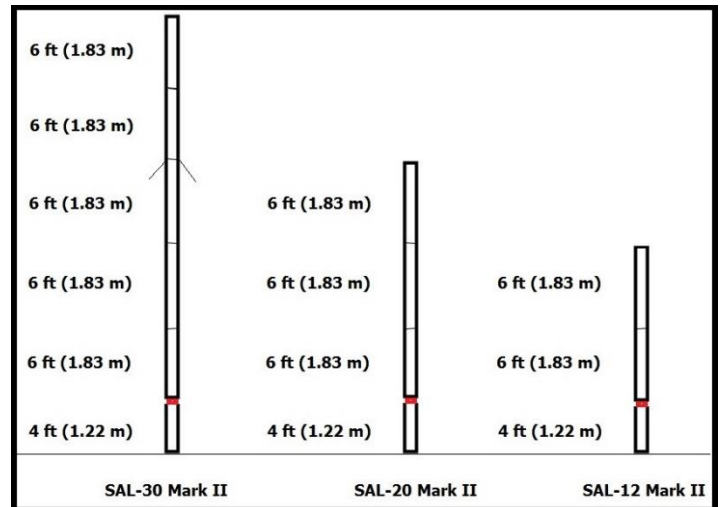


Larry W9BJG
Bob WA9CMJ
Russ WD9FVI
Ed KC9GF
Dennis KE9UA
Gary AB9M
Jack KD8PYY

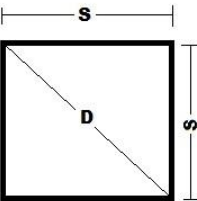
Thanks a heap guys!

From the Array Solutions web site;

Effective communication on the LW, MW, and SW bands requires more than just a careful ear. You need the right gear to navigate through the jungle of interference that can be as close as your computer, or as distant as a thunderstorm on the other side of the globe. Interference, though isn't just a challenge for DXers - it's a challenge for net operators, rag chewers and county hunters too, military operations - in other words, it is a challenge to all of us!

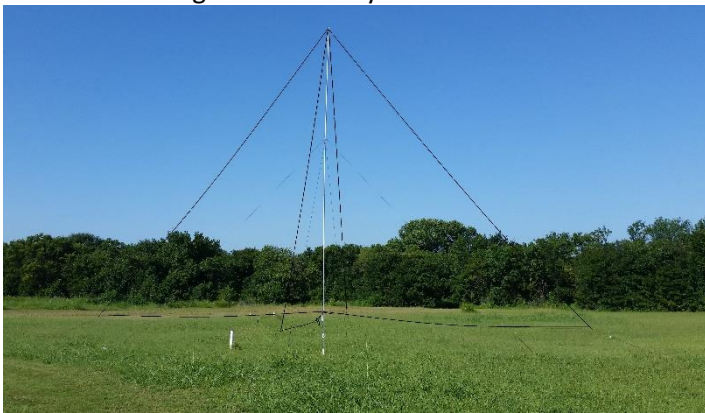


We have developed a new type of receiving antenna that delivers exceptional directivity in a small package and is usable over a wide range of frequencies without need for adjustment. This new antenna is called the Shared Apex Loop Array antenna and it opens the door to a new class of compact, high performance, wideband receiving antennas developed for both amateur and professional users.



SAL Antennas Footprint with and without outer stakes					
Model	With Stakes		With posts under outer corners		Unit
Dimension	S	D	S	D	
SAL-30	46.67	66.00	35.40	50.00	ft
	14.23	20.12	10.79	15.24	m
SAL-20	36.10	51.00	24.75	35.00	ft
	11.00	15.54	7.54	10.67	m
SAL-12	26.00	37.00	14.85	21.00	ft
	7.92	11.28	4.53	6.40	m

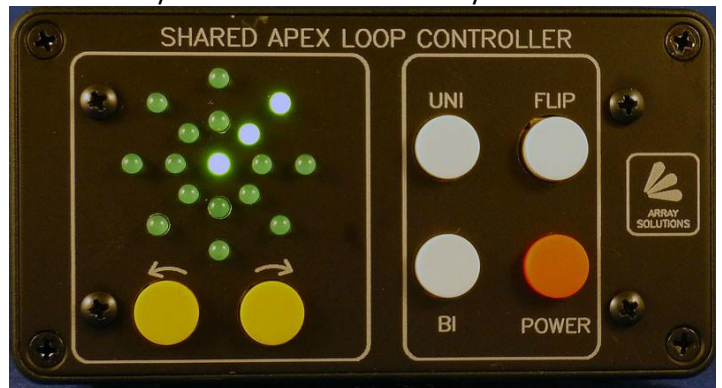
The antenna operates on the true-time-delay principle rather than the more traditional phased array methods. This method of operation enables outstanding bandwidth. For example, a 23 foot tall, 18 foot radius array, like the SAL-20, can provide outstanding front-to-side and good front-to-back performance for continuous frequency coverage below 500 kHz to 16 MHz with good sensitivity above 1.8 MHz! A 10 foot tall, ten foot radius array provides continuous frequency coverage between 500 kHz to 22 MHz with good sensitivity above 5 MHz.



The patented and additional patent pending designs provides the following benefits:



- Compact Size, light weight
- Wideband operation without need for adjustment
- Ground independent operation
- Outstanding front-to-side ratio
- Ease of Construction, and simple single feed line control for data and RF
- Modular design
- Portability for DX-peditions, quick deploy operations, field day operations, emergency operations
- Easily remote controlled with the Shacklan - 4 USB interface to your PC or a Ethernet Everywhere device.



Interesting Things Coming

Items provided by Rick Suhadolc N9CKL

News from November 2020 Microwaves and RF Magazine

How soon will your HF SDR radio be Bluetooth compatible? Could be just a single 10 year battery that provides your microphone or headset transmission power? Tiny Bluetooth Modules run 10 years on Single Cell Battery Silicon Labs BGN 220 system on a chip packs a pair of ARM cores to manage Bluetooth communications that spans the standards from Bluetooth 4.x thru 5.2 as well as Bluetooth Mesh. It can operate for a decade using a single cell CR2354 battery providing Bluetooth communications over the span.

Need an RF Filter?

New software program simulates Multi stage RLC filter chains for Radio designers. The software allows the designer to adjust part values for optimization to find closest discrete or "real Life" components. Software program called AWRDE <https://www.awr.com/>

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Central Illinois Radio Club
<http://www.qsl.net/w9am/>
Bloomington, Illinois

AREA NETS

Tuesday 8:30 P.M. 28.450
CIRC Open 10 meter Net

Tuesday 9:00 P.M. 146.640 (156.7PL)
CIRC Open Net

Thursday 8:00 P.M. 28.450
Vertical polarization is encouraged but not required

Sunday 08:15 A.M. 1.915
Open 160 meter AM net

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If you are wondering where all the nets are, it was brought to my attention that many of these are no longer in operation. I have left the ones the CIRC handles directly.

If you want another net listed, please send me an email directly and please verify it is a current net and I will add it to the list.

Jeff KC9QQm

Kc9qqm@gmail.com

AREA EXAM DATES

Following is the schedule for W5YI-VEC Amateur Radio exams for the year 2020. At the Community Room of the Bloomington Public Library located at the intersection of E. Olive St. and S. East St. Entrance off of S. East St.

Please bring two forms of identification. You must have an FCC issued FCC Registration Number (FRN) or Social Security Number. We cannot administer a test without your FRN or SSN. You will need a copy of your Current license plus any CSCE you want to apply.

2021 dates;

TBD

Exams' in Morton are held at the Morton Public Library, 315 West Pershing at 12:00 Noon the third Saturday of even numbered months and at the Peoria Superfest.

CIRC Meeting

Fourth Wednesdays of the month at 7:00 p.m. at the American Red Cross
1 Westport Dr.

Bloomington, IL 61704

** Until further notice the meetings are virtual and only for members. We are sorry for any inconvenience. **

Calendar of Events

Daily Coffee Klatch Monday thru Friday

**** The weekly Coffee Klatch has been moved to the 146.64 repeater for the time being. Remember the new PL is 156.7hz ****

9:00 a.m. at Dairy Queen Veterans at Cub's
XYL's Join the OM's Monday and Friday

Weekly 10 Meter Net

Every Tuesday evening at 28.450 MHz- at 8:30 p.m.

Weekly 2 Meter Net

Every Tuesday evening on the 146.640-repeater at 9:00 p.m.

Weekly 6 Meter Net

Every Wednesday evening at 50.135 MHz at 8:00 P.M.

Weekly 160 Meter AM Net

Every Sunday morning at 1.915 MHz at 8:15 A.M.

75 Meter HF Traffic handling nets

NET / TIME	FREQ khz
NORTH CENTRAL PHONE NET	
M-F 7:00 A.M. central time	3912
ILL. PHONE NET	
M-F 4:45 P.M. central time	3857
SUN. 8:00 A.M. central time	3940
ILLINOIS SIDEBAND NET	
M-SAT. 6:00 P.M. central time	3905
75 METER INTERSTATE SIDEBAND NET	
DAILY 0100 UTC	3985
ITN INDIANA TRAFFIC NET	
DAILY 1230 UTC	3910
2200 UTC	3912

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WEB PAGE

[HTTP://WWW.QSL.NET/W9AML/](http://WWW.QSL.NET/W9AML/)

*President: Rick Suhadolc
(N9CKL)*

Vice-President: John Payne (AC9TN)

Secretary: Rob Cherry (N9TO)

Treasurer: Larry Gibson (W9BJG)

Member at large: Grant Zehr (AA9LC)

Newsletter Editor: Jeff Lovell (KC9QQM)

The CIRC is a not-for-profit ARRL special service club whose purpose is to advance the service of Amateur Radio. Located in Central Illinois, the CIRC and its members welcome all to use the 146.64 repeater and to attend club meetings.

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