

March 2022

The

# Wave Bender



March 2022

Vol. 13.2



## 2022 Officers

### President:

Chris Monske WF8U

### Vice President:

Russ Williams NR8W

### Secretary:

Amanda Monske KC3GFU

### Treasurer:

Bob Kramer KE8HHH

### Past President:

Bob Mitzel N8RCM

### Trustees:

Rose Marko KD8TII

Ed Newsome KE8NSW

Bill Egan KD8HCQ

## DAYTON HAMVENTION 2022

MAY 20-22

GREENE COUNTY  
FAIRGROUNDS & EXPO  
CENTER

Board  
Meeting:  
TBD

Member's  
Meeting:  
Tuesday  
March 15<sup>th</sup> @  
Davidsons  
Restaurant  
Canfield, OH  
6pm for Dinner  
7pm for Meeting  
Public Welcome!

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## FROM THE PRESIDENT'S DESK

CQ CQ CQ

This is WF8U Chris calling with another issue of the Wave Bender.

We've made it through another month, only this time there's a bunch of big news for the club. Your board has been working very hard at trying to recover after our 2 year pause since the pandemic.

As always we try to make the best decisions we can to make the most enjoyable club experience as possible.

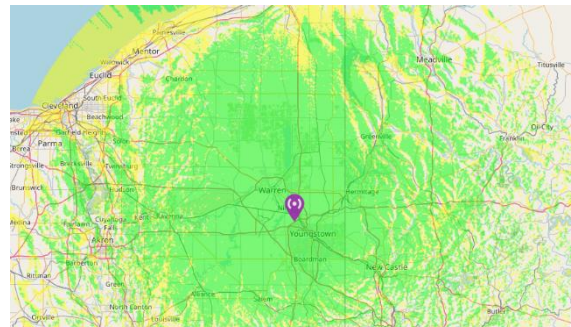
I would like to start out by saying we're looking at trying to get our name back out into the public with promotional events. So far, we do have scheduled to participate in the Boardman St. Patrick's Day Parade. We will not be providing communications for this event, but rather advertising our club and HAM radio in general. The board's goal is to try and attract more members so we may be able to expand upon club activities. Aside from the Parade, we're looking at doing shows, fairs, festivals, etc. as well.

Amanda KC3GFU is in the process of putting together items that we can use to setup a display table at events such as this. In the past the club has done the home and garden show in Austintown, the Columbiana Street Fair, and others. These events were always good to help spread the word of HAM radio and the WRARC.

Another thing that has finally been able to get put back together is classes. Bob N8RCM and I WF8U have Tech and General classes ready to go. As I write this article the only thing we await is word about a building we'll be using for classes and testing. Once we have an idea of days and times we'll be able to use the building, a schedule for hopefully the year will be put out. So, if you know anyone interested in getting their license or even upgrading this will be a great opportunity for them.

Field Day has been another project the board has taken on for this year. Steve KC8SOY has worked very hard in past years to put on our Field Day events, so this year we decided that he certainly has earned himself a break from all the hard work, and finally be able to just relax and enjoy a Field Day as an operator. It had been mentioned on numerous occasions by multiple members they would like to try some new locations for that weekend. In the past Youngstown Elser Metro Airport has always been very accommodating to us, but change might be a good thing. The airport can always be added back into the rotation, but it would be nice to try different locations from time to time. This year we are looking at two options, one is Berlin Lake, and the other is Lake Milton. Bob N8RCM and I WF8U have went and spoke with both parks and both seemed to be very willing to have us. Right now nothing is final for either, but in the next week or so we expect to have one of the locations secured for Field Day weekend.

I know it has been written about and talked a lot about recently, but the club's repeaters are almost ready to get a huge improvement. The new tower is on location at the site. Now I have been cleared fully since my ankle surgery all that's holding us up now is the weather. Frozen ground isn't fun to dig in, and I'm not sure about any of you, but I don't like to work in the cold and wet. The club too has put together a repeater fund so that way we can put money



## FROM THE PRESIDENT'S DESK CONT'D...

toward even further future improvements to the system. Remember this is for you and the rest of the local HAM community and can be anything we want it to be. Here is a theoretical depiction of what our new coverage will be once the new tower has been erected. This map is based off an average mobile station with calculation for a mobile antenna with only 2dbi of gain. I'm not sure what other members mobile antenna gain is, but mine is higher than 2dbi, so I'm excited for this project to be completed.

In closing, as you can see I and the rest of the board have been working very hard to make the necessary changes so we can continue providing an excellent experience for all of our members. If there is anything you would like to see done or might have an idea for a project you would like to take on yourself we are always looking for new ideas.

73 de WF8U Chris

WRARC President

.....

## NWS WILMINGTON OH

### 2022 VIRTUAL SPOTTER TRAINING SCHEDULE



Classes are free, open to the public, and require registration.

Each class lasts about 2 hours and is led by National Weather Service Meteorologists who will discuss techniques and safety for severe weather spotting. Once you attend a class, you will receive instructions for filling out online registration forms to officially become a trained spotter and can report severe weather to your NWS office.

03/24 – 6:00pm

04/18 – 7:00pm

## WRARC ELMER INFO

|                     |   |                            |
|---------------------|---|----------------------------|
| Steve Fabry KC8SOY  | Yaesu FT8900, FT 8800,<br>Mobile  | kc8soy@yahoo.com           |
| Russ Williams NR8W  | Antennas, Grounding,<br>AC/DC   | rwiliams@neo.rr.com        |
| Darrin Cannon N8DMC | Yaesu Radio Programming,<br>License Upgrading/Testing                           | darrincan@gmail.com        |
| Bill Egan KD8HCQ    | Field Day Operating, Wire<br>Antennas, IC-2200, FT-450                          | popbottle@zoominternet.net |
| Bob Kramer KE8HHH   | Raspberry Pi  | snowyowlooo@gmail.com      |
| Dave Slagle N8PPP   | QRP   | daslagle@zoominternet.net  |
| Chris Monske WF8U   | Repeaters, HF Mobile &<br>Portable, Field Radio<br>Programming, Mobile Installs | kd8ely@gmail.com           |

## MARCH CONTESTS

**5-6** International DX –  
Phone

**12** YB DX RTTY

**26** CQ WW WPX, SSB



## SWAP N SHOP

Have Something **For Sale?**

Looking to **Barter?**

Trying to Find Something  
**Specific?**

Shoot us an email and we can  
advertise for you **HERE!**

afarone926@gmail.com



## IN HONOR OF INTERNATIONAL WOMEN'S DAY....



I'd like to shine a spotlight on the YLRL (Young Ladies Radio League). The YLRL was established in 1939. The organization was founded by Ethel Smith and is currently going strong with members from all over the globe.

The YLRL exists to encourage and assist YL's to enter into the Amateur Radio Service. A variety of interests are offered including; Traffic Handling, Public Service, ARES, Contests, Awards, DX, etc., on AM, CW, SSB, FM, RTTY, AMTOR, Packet, and Satellite. Not to mention the infinite benefits derived from gal-to-gal rag-chewing and the resulting friendships.

In 1939 the membership dues were only 25 cents. Inflation has risen a bit and today dues sit at \$15 per year. Membership includes a subscription to the newsletter, the YL Harmonics.

The Young Ladies Radio League also provides scholarship funds to worthy YLs to continue their educations, with preference given to those in the academic study of communications and electronics or related arts and sciences. YLRL offers YLs the opportunity to host foreign YLs during their visits to the United States and to sponsor their participation in YLRL activities.

There are YL nets all over the world. Nets provide the easiest way for you to meet other YLs and give you a chance to qualify for the various YL awards.

YLRL encourages Amateur Radio competition between YLs by offering certificates, trophies, etc. for demonstrated excellence in such operating competitions. They also hold 2 contests a year. One is a YL/OM – 24 hour in February. The other is a DX/North American YL Anniversary Party – 24 hour in October.

You can find members of the Young Ladies Radio League at Hamfests all over the world. They typically have tables with YLRL themed merchandise, past issues of YL Harmonics, certificate information, and brochures.

I (Amanda KC3GFU) am proudly a member of YLRL. We are in District 8 along with all of Ohio, Michigan, and West Virginia. Our District 8 Representative is Nancy Hall KC4IYD. She holds an Extra license since 1992. Nancy is a Past YLRL President, Vice President, and Receiving Treasurer. She was also chair for the 2002 YLRL Convention in Ohio. She is current

### *The Birth of 33*

Clara had her ticket  
She also had a rig  
Because she was just starting  
It wasn't very big

She slowly tuned the crystal,  
And watched the meter drop.  
Then tapped the key a couple times  
To be sure it wouldn't stop.

Now everything was ready,  
She called a short CQ  
And received an answer  
On thirty-six sixty -two.

They chewed the fat "bout stuff and  
things.  
"bout dresses, work and dates.  
They finally called it QRT  
The girl sent eighty-eights.

Clara though it might be funny  
Whether it be Miss or Mrs.  
To end a perfect QSO  
By sending "Love and Kisses"

It sounds too sentimental;  
Just a little too much "goo"  
To be sending "Love and Kisses"  
to a girl the same as you.

For an entire week she pondered;  
Wouldn't even touch the rig.  
She pushed her slide rule by the hour,  
Employing "logs" and "trig"

She added and subtracted.  
What could the answer be?  
To reach a happy medium  
Twixt eighty-eight and seventy-three.

Clara finally looked up from her work  
All smiles and not forlorn.  
Twas July in Nineteen Forty  
That thirty-three was born.

There's no real definition  
But it's meaning is known well.  
It's how a YL says good evening  
To another friend YL.

Author Unknown.

## INTERNATIONAL WOMEN 'S DAY CONT ' D...

Trustee for the YLRL club K4LMB and President of the NASA Glenn Amateur Radio Club, NA8SA. Nancy was also the 15<sup>th</sup> Recipient of the Ohio Allan Severson AB8P (SK) Memorial Award.

The current Youth Chairwoman for YLRL is Katherine Campbell KE8LQR from Columbiana, OH

YLRL will be attending Hamvention 2022 in Dayton this year.

73 de KC3GFU

WRARC Secretary

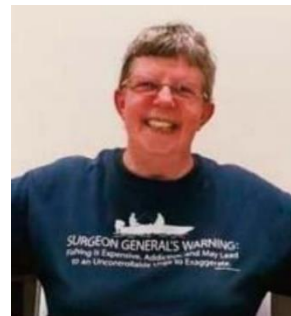
## A READING FROM ROSE...

Hello everyone. Welcome to the new year, 2022. I know it has been a rough couple of years since we have all been together, but I'm hoping this year will be bigger and better than before.

Our officers have some great ideas for this year and we're hoping you will come join us for all of them.

Our ladies YL Breakfast club started back up this past December 2021 with most of the ladies coming back and it was a big success.

But due to January 1<sup>st</sup> falling on a Saturday and the After the Holiday Party the following Saturday the 8<sup>th</sup>, we had to postpone the breakfast until the first Saturday in February which was February 5<sup>th</sup>. We tried again to have it the following Saturday, February 12<sup>th</sup> but then the snowstorm came, and it was impossible to get around. So, we are now hoping to continue it on the first Saturday in March which is March 5<sup>th</sup>. All the ladies of the club are welcome to join us at these breakfasts through the rest of winter and spring. You don't need a ham license to have a good time with us. I hope you will consider it. In the meantime, please stay warm and safe.



Rose KD8TII Trustee



### MARCH BIRTHDAYS

Mike Malarky W8IWD

Tom Sly WB8LCD

Carol Gottesman KD8NFD

## UPCOMING WRARC EVENTS

March 13<sup>th</sup> – St. Patrick's Day Parade

1:00pm in Boardman

Contact: Chris WF8U, Amanda KC3GFU, or Bob N8RCM  
to Volunteer or for more Info!



## UPCOMING HAMFESTS

03/12 – MOVARC Hamfest

Fellowship of Faith Church Rio  
Grande

20344 OH-554, Bidwell, OH 45614

Mid-Ohio Valley Amateur Radio

04/09 – Sixty Sixth Cuyahoga Falls  
Amateur Radio Club Hamfest

Emidio & Sons Party Center

48 E. Bath Rd., Cuyahoga Falls, OH 44221

Cuyahoga Falls Amateur Radio Club

03/13 – Winter Hamfest

Lorain County Community College

1005 N. Abbe Rd., Elyria, OH 44035

Northern Ohio Amateur Radio  
Society

04/24 – Athens Hamfest

Athens Community Center

701 East State St., Athens, OH 45701

Athens County Amateur Radio  
Association

## JOIN US FOR THE WRARC FRIDAY NIGHT NET!

9:00pm Every Friday

W8WRC -145.270 PL 110.9

WRARC Simplex Frequency 146.565

## MVARA NET

Mondays @ 9:00pm – W8QLY Repeater -146.745 (PL 110.9)

## MAHONING COUNTY ARES NETS

2nd Sunday 2:00pm W8QLY Repeater -146.745 (PL 110.9)

4th Sunday 2:00pm W8QLY Repeater 146.745 (PL 110.9)

ARES Thanks MVARA for the use of their Repeater

W8SGT is facilitating The Ohio HF Net every Tuesday @ 7:00pm

The net is run from the State of Ohio EOC on the Ohio ARES Admin Frequency 3875 kHz  
LSB moves to 7240 Khz after 20 min

ALL are welcome to check in.

The Ohio ARES/OES Digital Emergency Net is held every Tuesday @ 8:00pm

Held on 3585 kHz USB

Please note all digital communications are Upper Side Band

<http://ohden.org>

Net Manager Gary NJ8BB

## JUST GETTING STARTED?



Check out all of our  
new ham resources!



[Learn More >](#)



## AMATEUR RADIO NEWS FROM AROUND THE WORLD

### ARRL International DX Contest to Include New Categories, Rule Changes for 2022

Operators planning to participate in the [ARRL International DX Contest](#) should be aware of some new entry categories and rule changes. The CW edition is this weekend, starting at 0000 UTC on Saturday, February 19 (Friday evening, February 18 in North American time zones), and concludes at 2359 UTC on Sunday, February 20.

New this year: The Single-Operator, Single-Band (SOSB) category has been expanded to include *three* power level subcategories -- QRP (5 W PEP output or less), Low Power (100 W PEP output or less), and High Power (1,500 W PEP output or the maximum allowable power level established by the national licensing authority issuing the operator and/or station license, whichever is less) -- for both Non-Assisted and Unlimited (Assisted) entries.

Also new for the ARRL DX 2022 Affiliated Club Competition, multioperator DXpedition scores -- operations from outside the US and Canada -- may be distributed among Medium and Unlimited category clubs that each operator declares. To be eligible to receive the scores, the club must be active in the ARRL's Club Eligibility listing, and the operator's call sign must be included in the club's eligibility list. Each eligible operator's portion of the total station score will be attributed to the club of their choosing. The [Affiliated Club Competition](#) rules include more details.

In addition, multioperator station accommodations put in place for 2021 have been extended to the 2022 running of the event. This permits multioperator station participants to operate from their home stations in conjunction with a multioperator station. The home stations must be within 100 kilometers (62 miles) of the multioperator station and must be within the same DXCC entity, US state, or Canadian province.

Complete [rules and more information](#) are available on the ARRL website.



### Dayton Hamvention Looks to Be a Go for 2022

Hams and vendors hoping to attend Dayton Hamvention® 2022 have been asking what, if any, COVID-19 regulations will be in place at the event. Hamvention management says it's monitoring the situation closely. Hamvention General Chairman Rick Allnutt, WS8G, issued a statement:

"We strongly anticipate that Hamvention 2022 is a go. We cannot guarantee what government may decide about unknown changes in the pandemic. It has become obvious that the State of Ohio is very unlikely to call a halt to large gatherings anytime soon. Despite a recent large spike in [Omicron-variant] COVID cases and hospitalizations, there is no move to restrict large indoor or outdoor events such as sports events," Allnutt said.

Allnutt added that he anticipates that the official state guidance may be to recommend -- not require -- face masks and social distancing, but does not expect to be checking attendees' vaccination status on site. Hamvention will support state guidance.



Some have asked whether COVID-19 testing will be available at Hamvention. At this time, there are no plans to have testing on site. Updates on Hamvention and COVID-19 regulations related to the event will be posted on the [Hamvention website](#).

Hamvention, an ARRL-sanctioned event, will be held May 20 - 22, at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

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## Some New Rules Going into Effect this Year for ARRL Field Day

After taking a few detours over the past couple of years due to the COVID-19 pandemic, [ARRL Field Day](#) rules are being updated on a permanent basis starting this summer. ARRL conducted a Field Day community survey with invitations propagated far and wide, and direct emails sent to more than 15,000 individuals and ARRL-affiliated clubs. After sorting through, reviewing, and discussing the survey results, the ARRL Programs and Services Committee recommended a number of rule changes for ARRL Field Day, which will take place this year over the June 25 - 26 weekend.



Starting this year, the maximum PEP output for a transmitter used by anyone submitting a Field Day log will be 100 W. The power multiplier of 2 will remain in place, and the high-power category will be removed from the rules. Until this year, the maximum low-power limit had been 150 W for most ARRL-sponsored operating events. The power multiplier will remain at 5 for QRP participants running a maximum of 5 W or less. As previously announced, 100 W is now the low-power category limit for all ARRL and IARU HF Contests, effective January 1, 2022.

A couple of changes instituted initially as accommodations for the COVID-19 pandemic will remain. Class D (Home) stations will continue to be able to earn points for contacts with other Class D stations. The club aggregate scoring change initiated in 2020 as a temporary measure will become part of the permanent rules. In the aggregate scoring plan, the scores of individual stations are combined under the score of a single club.

Another change, involving Rule 7.3.2 Media Publicity, has been modified. Rules to date have offered 100 bonus points for attempting to obtain publicity and demonstrating same. With the ease of posting via Facebook, Twitter, Instagram, and various other media websites, Field Day participants will now be required to obtain publicity, not just try to do so. Any combination of bona fide media hits would qualify for the bonus points. For example, posting the details of your upcoming or ongoing Field Day activity, or your Field Day results, on a club or news media site, on Facebook, or via Twitter and Instagram would meet the bonus criteria. Photos and videos are encouraged as part of media posts.

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## ARRL Announces New World Wide Digital Contest

The [ARRL World Wide Digital Contest](#) will debut at 1800 UTC on June 4, ending at 2359 on June 5, 2022. All non-RTTY modes are permitted. Going forward, RTTY will be the sole mode for the ARRL RTTY Roundup, which will continue to take place in January.

In broad strokes, this will be an HF to 6-meter event, on 160, 80, 40, 20, 15, 10, and 6 meters, with single-operator and multi-single entry categories. These are Single Operator, One Radio (SO1R), Single Operator, Two Radio (SO2R), and Multi-Single (MS). Overlays in the single-operator categories will

include "all enclosed antennas" and "maximum of 8 operating hours." Single-operator entries may operate for 24 hours (with off times taken in one or two breaks that are at least 60 minutes long), while MS entries may operate for the full 30 hours.

Operating assistance is permitted for all operating categories.

Power categories will be:

- **QRP** (5 W transmitter output or less)
- **Low Power** (maximum 100 W PEP transmitter output)

The exchange for the World Wide Digital Contest will be a station's four-character grid square designation. Stations may work each other once per band, regardless of digital mode. Participants will earn 1 point for each contact, plus 1 point for each 500 kilometers (310 miles) between stations. So, a contact between stations 1,000 kilometers apart would be worth 3 points. The total score is total contact points.



ARRL makes available a grid-center [distance calculation tool](#). Options include kilometers (always rounded up), distance between pairs, and points.

For instructions on how to [submit logs](#), visit the ARRL Contest page. Logs will be due 7 days after the event has concluded.

In succeeding years, the World Wide Digital Contest will take place on the first full weekend of June.

[Full details](#) on the new operating event are on the ARRL website.

## QRP Operator Logs One Contact per Day for Nearly 30 Years

From August 5, 1994, through December 20, 2021 -- a span of nearly 10,000 days -- ARRL member John Shannon, K3WWP, of Kittanning, Pennsylvania, made at least one CW contact while running 5 W or less to simple wire antennas. That includes one that's in his attic.

Over the course of said 10,000 days, Shannon made 72,190 contacts with 20,098 unique stations. For at



least 2,099 of his contacts, his signal traveled 1,000 or more miles per W, while another 24,098 were DX (non-W/VE) contacts made in 224 DXCC entities. He contacted all 50 states "many times over" -- he made 3,819 contacts with stations in Pennsylvania and 63 contacts with stations in Wyoming.

Shannon reports that the DX country he contacted most often was Germany, with 1,934 contacts. By continent, his contact totals ranged from 52,639 with stations in North America to 325 with stations in Oceania, plus 18 with stations in Antarctica. The number of contacts he made on each band used includes 19,279 on 40 meters; 15,459 on 20 meters; 28 on 60 meters, and 39 on 6 meters.

Within his first UTC hour of operation each day, Shannon logged nearly 73% of his daily contacts.

He also experienced a DX streak from March 1, 2013 through August 1, 2018, which was a total of 1,980 days. During this time, he contacted at least one DX station per day.



Shannon said that the greatest satisfaction he's derived from his operating streak is that other hams express that he inspired their interest in, and enjoyment of, CW and/or QRP operating. Shannon said that his greatest satisfaction derived from his lengthy operating streak was having other hams express that he inspired their interest in operating CW and/or QRP, and that they really enjoyed it.

In the early 2000s, he wrote for the "QRP with John Shannon, K3WWP" column in *The Key Note*, the [FISTS](#) CW Club's newsletter. Additionally, his article, "The Streak: 23 Years of Daily Contacts," was published in the August 2017 issue of *QST*.

Shannon said his streak is not over. He intends to continue making daily contacts for 11,000 or 12,000 days. View his website for [more information](#).

## Heil Sound Changes Hands

Heil Sound has changed hands. Founded by Bob Heil, K9EID, and based in Fairview Heights, Illinois, Heil Sound is a manufacturer of microphones, microphone accessories, and audio accessories for both professionals and amateurs. The new owners are Heil Sound President and CEO Ash Levitt and Director of Operations Steve Warford. Sarah Heil, who was co-owner of Heil Sound, has retired, but Bob Heil will continue to do outreach work and amateur radio product design as Founder and CEO Emeritus.

"My life has been about achieving great sound, whether on the concert stage or in the amateur radio world," Bob Heil recounted. "I've watched Heil Sound go from a regional sound company to a world-class microphone manufacturer. This company has been my passion, but it is time for me to step aside. There is no better team to carry the company forward than Ash and Steve, and I have the utmost confidence in them."



[Heil Sound](#) is a name well known within the worldwide amateur radio community for its microphones and "boom set" microphone/headset combinations. The company marked its 50th anniversary in 2016. The company began in 1966 as Ye Olde Music Shoppe -- a music store in Marissa, Illinois, Heil's hometown. Heil initially made a name for himself working with music performers to provide sound reinforcement for their live gigs, initially supplying full sound system packages for venues and festivals throughout the Midwest and later working with world-class acts such as Humble Pie,



(L - R) Heil Sound President and CEO Ash Levitt, Bob Heil, K9EID, and Director of Operations Steve Warford.

The Who, The Grateful Dead, and Joe Walsh, WB6ACU. Heil said it was the Dead's Jerry Garcia who suggested the Heil Sound name. Among other innovations, Heil created the quadraphonic sound system for The Who's "Quadrophenia" tour as well as the Heil Talk Box, made famous by Joe Walsh and Peter Frampton.

Levitt and Warford both started working with Heil Sound as teenagers, building and packaging products. Levitt took a different career path in academia for several years but continued to regularly consult with Heil Sound. He returned to Heil Sound full time in 2017 and assumed the role of president in 2020. Warford worked his way up in





the company over the course of his tenure and, for the past several years, has been responsible for daily operations.

"Steve and I are honored to carry forward the legacy of Heil Sound," Levitt said. "We care very deeply about Heil Sound's role in the industry and intend to build on that going forward with new products and greater distribution. Read [an expanded version](#).





## March 2022

| SUNDAY  | MONDAY | TUESDAY   | WEDNESDAY | THURSDAY   | FRIDAY                                  | SATURDAY |
|---|--------|---|-----------|--|---|----------|
|   |        | 1   | 2         | 3  | 4<br>WRARC<br>NET<br>9:00p<br>145.270   | 5        |
| 6   | 7      | 8<br>International<br>Women's<br>Day<br> | 9         | 10   | 11<br>WRARC<br>NET<br>9:00pm<br>145.270 | 12       |
| 13<br>Daylight<br>Savings<br><br>St. Patrick's<br>Parade<br>1:00pm<br> | 14     | 15<br><br>General<br>Meeting<br>7:00p   | 16        | 17<br>St. Patrick's<br>Day<br> | 18<br>WRARC<br>NET<br>9:00pm<br>145.270 | 19       |
| 20<br>First Day of<br>Spring<br><br>Article<br>Deadline<br>            | 21     | 22  | 23        | 24   | 25<br>WRARC<br>NET<br>9:00pm<br>145.270 | 26       |
| 27  | 28     | 29  | 30        | 31   |   |          |