

The ARCLITE

Volume 27, Issue 3

GARC Information Hotline 972 272-4499

Mar 1999

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From the Prez....

First, I would like to remind the membership that Elections are coming up this month. The election committee has been formed by John Galvin (N5TIM) and Harold Yoder (N5MQA) and Don Duncan (KC5GLM) has been busy and you will find the people running for office elsewhere in the Arclite. In order to vote in the March elections, you must be a paid-up member.

This month's meeting program will be our own Bob Jones (W5BJ) with a program on the City of Garland's Y2K preparations. Both R.A.C.E.S. and the Garland Amateur Radio Club are part of the city's emergency preparedness plans, and he will be filling us in on the City is expecting from us. Because Bob is not running for office next year, I have asked Bob and John Galvin to be the point of contact with the City.

The SKYWARN School held on Feb 27 was a big success for the GARC. The raffle for the weather station cleared \$263.00 and the membership sign-up and dues renewals netted us another \$433.00. Our treasurer will be giving us a complete accounting at the next meeting.

We are in the process of cleaning up the club member's database. We are asking that all those who renew, please fill out a new membership form. With the recent area code change, our members upgrading and so forth, we would like a new membership form filled out by everyone.

We were a little late turning in our paperwork on scheduling the large room at the Garland Women's Activity Building this year. Someone else got our normally-scheduled meeting date

(Continued on page 2)



**GARC Elections! Also
Y2K Planning and the GARC
March 22, 1999
Bob Jones, W5BJ**

Contents	Page #
Nominating Committee's Slate of Officer Candidates	4
Volunteers for Info Net Control Operators	4
Public Service Events	5
GARC Calendar	6
Training Schedule	9

From the Prez (Continued)

(Continued from page 1)

for the large meeting room on May 24. Because of this scheduling conflict, we will have our May meeting on Monday May 31. This is Memorial Day, but should not cause us much of a problem.

Our training officer, Karen Dunning W4YHN will be passing out this years QRO awards at the March meeting. The QRO award is for anyone who helped or sponsored or taught a class during the previous year. For all who helped with our aggressive training schedule this year, I would like to pass on a large Thank You as well. We are already starting to look at this summer's club project and are probably going to build the Lead Acid Battery Monitor project as seen in January

CQ. If you have other input on this, please contact me or Karen.

Volunteers needed: I will be asking for volunteers at the next meeting for net control duties for May, June, and July. Also with spring getting close, we will soon be in the "Thon" season. Volunteers will be needed for all the Walk-a-thons, Run-a-thons and Bike-a-thons that are coming up in the next few months. Contact information will be provided at the meeting and on the nets.

Thanks to all of you who helped in this past year to make GARC such a success.

73's de Gerry WD4BIS



GARC General Information

Repeaters:

The GARC operates two open repeaters for its members and for all local or visiting Amateur Radio Operators: Two meters: **146.66 (-)** and 70 Cmeters: **442.70 (+)**

Voice Mail:

For late-breaking news or to leave the club a message, call our 24-hour voice-mail line at **(972) 272-4499**.

Information Net:

GARC Information Net: held every Monday at 7:30PM on 146.66 (except for meeting nights and holidays). The net features current events, "swap shop", and a technical information exchange. All area hams are encouraged to check in. All members are encouraged to volunteer to be net control for this net. Contact the GARC communications officer, Mark Durbin (*ld.durbin@mcione.com*), if you are interested.

Internet:

Information on the GARC can also be found on the world wide web address below:

<http://www.qsl.net/garc/>

The web site includes a map to the monthly meetings, classes, and links to local public services events and other items of interest to the hams in the Garland area.

Newsletter:

The Arclite is published monthly for the members of the Garland Amateur Radio Club. The contents of this newsletter are copyrighted the date of publication, but may be reprinted without

permission in any Amateur Radio Publication provided proper credit is given and the motive is the Advancement of Amateur Radio and Not For Profit.

The deadline for Arclite materials is the 2nd Monday of each month. If you have any informative or educational articles that you would like to see included in this newsletter, or if you have items to be included in the GARC calendar, please send it to the Arclite editor.

Arclite Editor
1027-B West Austin St.
Garland, TX 75040

or emailed to the Arclite Editor at
janet11@ibm.net

Membership:

Membership forms are available at the GARC monthly meetings and on the GARC web site. Once the membership form and dues are submitted, new members are voted in at the next GARC monthly meeting.

The GARC membership roster is distributed to GARC members only and is included most months with the Arclite. It is not to be used for any commercial purposes.

To submit changes to the GARC roster (such as change of address, updated phone numbers, license upgrade, etc), send them to the GARC secretary, Kaye Duncan (KC5JWB) at kduncan@airmail.net.



GARC Meeting: February 22, 1999

The meeting was called to order at 7:30pm by President Gerry Crenshaw (WD4BIS). After the Pledge of Allegiance and Member & Visitor introductions, the agenda included:

A motion was made and carried to approve the minutes as published in the ArcLite

John Galvin (N5TIM) reviewed upcoming Special Events. Clay Orchard (KC5MXN) has already had contact with the City of Garland concerning the Star Spangled 4th.

Discussion took place about the upcoming Board Member elections at April's meeting. You must have your dues paid up to run or to vote. The election committee consists of John (N5TIM), Harold Yoder (N5MQA) and Don Duncan (KC5GLM). Contact one of them if you are interested in a position.

For the time being, the renewals for ARRL have been taken off the membership applications due to an increase in dues by the ARRL.

Skywarn School is coming up next Saturday (February 26th), and we will raffle off another weather station as in the past. Tickets will be \$2.00 each or 3 for \$5.00. Membership renewals will also be taken at the GARC table that day.

Bob Jones (W5BJ) announced that next month's meeting will be on the City of Garland's Y2K planning and how the GARC is to be involved. He will be the guest speaker on this subject.

Ed Hubbuch (KC5GZZ) announced a club balance of \$2,408.33. A motion was made & carried to approve payment of Club insurance for \$152.00. Also, a new answering machine will be purchased for the ECC.

Mark Durbin (KC5GNG) announced testing would be done on the portable repeaters, getting them ready for upcoming events. Courtesy tones will be different when the portables are in use, and the autopatch will not function.

Karen Dunning (W4YHN) announced the Kids class will be in 2 parts this summer. The Novice portion will be held from June 14th – June 18th, and the Technician portion will be held from July 12th – July 16th. Adults must have children attending the class in order to participate.

Don (KC5GLM) announced that there will be a special R.A.C.E.S. class held at the ECC on March 20th. The subject will be on "Basic Family Survival for Y2K", and non-R.A.C.E.S. members are welcome to attend.

After a short break, our guest speaker Valli Hoski (N8QVT) presented a program on "EOC Resource Databases".

Afterwards, there was cleanup and the meeting was adjourned.

Submitted By:

Kaye Duncan, KC5JWB
Secretary, GARC



Rusty Bolt Effect (Continued)

(Continued from page 8)

are holding. The same goes for those very attractive and functional gutters we all have around our house. Your gutters aren't, say 40 meters long are they?

Elevator Shafts are great vertical antennas of various lengths, usually about the proper length for receiving broadcast radio stations. Do you have a repeater system mounted on top of natural antenna source? The joints in the lengths of these vertical beams are bimetallic!

This could go on forever but here are a few other things you might not think of; Metal pipes touching each other, pipe joints, power line guys, loose hardware on power poles, metal fences, wire fences, and yes even bed springs.



Nominations for March 99 Elections

The Nominating Committee consisting of Harold Yoder, N5MQA, Don Duncan, KC5GLM and John Galvin, N5TIM present the following candidates for election to the 1999 board of the Garland Amateur Radio Club.

The following are the candidates and the position they are running for;

President: Gerry Crenshaw, WD4BIS
Vice President: Clay Orchard, KC5MXN
Treasurer: Ed Hubbuch, KC5GGZ
Secretary: T.J. Hoover, KC5ZTJ
Comm Officer: Mark Durban, KC5GNG
Training: Randy Dunning, KC5QHH
ARCLITE Editor: Janet Crenshaw, WB9ZPH
 and Don Murray, W9VE



GARC Information Net Control Operators

The following have volunteered to be control operators for the Monday night information nets:

March: Swank Roberts (WA5GNT)

April: Theda Harrison (KC5QZZ)

May:

June:

July:

All the 'blank' months are awaiting eager volunteers. It's not difficult and a sample "script" for new control operators is available on <http://www.qsl.net/garc/> It's easy, even for beginners. And it provides good practice in managing a net.

If you're willing to volunteer, but just not sure if you have the time, remember that many of us have problems during our months. It's usually not too difficult to call a few people in the roster to arrange for a substitute.



GARC Board Meeting: March 4, 1999

The meeting was called to order by President Gerry Crenshaw (WD4BIS) and the discussion included:

The raffle of the Weather Station at Skywarn School was successful. We cleared a total of \$263.00 profit from the raffle. A total of \$433.75 was collected as well at Skywarn School.

Renewals on the lease of the Garland Women's Activity Center room are due. The paperwork is late, and the March 2000 room date is lost. Cost is \$135.00 for the next year, and the board voted to pay the bill.

Balance on the club account as of March 4, 1999 is \$2,968.94.

The board voted to help absorb some of the cost of printing this year's Cloud Cowboy by donating \$60.00 from the raffle proceeds.

Bob Jones (W5BJ) and John Galvin (N5TIM) will be the Y2K point of contact with the City of Garland.

The board voted to make the Schroeder family the ECC point of contact.

Printing costs will be added in the upcoming budget for next year.

Janet (WB9ZPH) will print ballots up for upcoming board elections, and Kaye (KC5JWB) will make sure we have a current roster to verify dues being paid. Members needing to renew will be sent to Ed (KC5GZZ) and he will pass out ballots after renewals.

Training page on the GARC web site will be updated by the training officer in the future.

Final Friday FoxHunt page has been taken off the web.

Deadline for ArcLite articles will be March 11, 1999.

QRO awards will be presented at the March meeting and another Technician class may be scheduled in the near future.

March meeting's guest speaker will be Bob (W5BJ) on the city's Y2K issue. April's guest speaker will be Mike Cowart (WA5CMI) and the topic will be on "Effective HF Mobile Operation".

Kaye Duncan, KC5JWB
Secretary, GARC



Things to Do

Garland Area Public Service Events

from John Galvin, N5TIM (<http://www.qsl.net/n5tim/>)

Ongoing Events

Garland Siren Test - Monthly - The Garland early warning sirens are tested by the city the first Wednesday of each month at noon, weather permitting. Tests are generally conducted on the GARC repeater at 146.660Mhz with 600Khz negative offset. Amateur radio operators wishing to help with these siren tests should contact Bob Jones, W5BJ (boj1@airmail.net) if interested in helping out.

Sachse Siren Test - Saturdays - The early warning sirens located in Sachse are normally tested by the city each Saturday at noon, weather permitting. Participants are requested to be on site in Sachse by 11:45am and on frequency which is normally the GARC repeater at 146.660Mhz with 600Khz negative offset.

RACES participation credit is given towards fulfilling the yearly public service requirements. Amateur radio operators wishing to help with these siren tests should contact Doug Yates, AA5BP at 972-530-1850 (home phone with voice mail).

Upcoming Events

MS Walk - April 10, 1999 - MS Walk in Denton, Texas. Contact Jim Dye, N5JZ, Denton County ARC, n5jz@aol.com if interested in helping out with this event.

MS Walk - April 18, 1999 - Annual walk in the mid-cities, Dallas, Texas. Additional walk in Plano, Texas this year. Please contact John Galvin, N5TIM, jgalvin2@ausa.net, to sign up for this event.

March of Dimes Walk - April 24, 1999 - Annual walk at White Rock Lake to benefit the March of Dimes. Will need about 25 amateur radio operators to help this year. Please contact John Galvin, N5TIM to sign up for this event.

MS150 Bike Ride - May 1-2, 1999 - A 1999 repeat of the 1998 bike ride. Starts again at Fouts Field in Denton, Texas, then to Texama State Park.

Contact James Marple, KB5ZDG, jmarple@dhc.net, to register and select your assignment preferences. An easy sign-up form is available on the internet at:

<http://www.qsl.net/n5tim/uplist.html>

The following are the email addresses for event coordinators:

Jim Galloway, N5MDI - jamesg@airmail.net

John Galvin, N5TIM - jgalvin2@ausa.net

James Marple, KB5ZDG - jmarple@dhc.net

Jim Dye, N5JZ - n5jz@juno.com

Theda Harrison, KC5QZZ - kc5qzz1@juno.com

Past Events

1999

NTS Message training class - January 16 - The DFW Metroplex (Dallas, Denton, Tarrant and Collin counties) National Traffic System Nets NTS Message training class. Contact Theda Harrison, KC5QZZ if interested in attending new classes. e-mail, kc5qzz1@juno.com

Dino Dash - January 30 - Walk/Run to benefit the Science Museum at Fair Park. Contact Jim Galloway, N5MDI, jamesg@airmail.net with any post event comments.



GARC – March 1999

Sun	Mon	Tue	Wed	Thu	Fri	Sat
14	15 7:30pm GARC Information Net	16 5wpm code class	17	18 9pm: Garland RACES training net	19	20 Noon: Sachse Siren Test
21 8pm: Dallas RACES training net	22 7:30pm GARC Monthly Meeting	23 5wpm code class	24	25 7:30pm Garland VE Testing Session 9pm: Garland RACES training net	26	27 Noon: Sachse Siren Test
28	29 7:30pm GARC Information Net	30 5wpm code class	31			

GARC – April 1999

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 9pm: Garland RACES training net	2	3 Sachse Siren Test
4 8pm: Dallas RACES training net	5 7:30pm GARC Information Net	6 5wpm code class	7	8 9pm: Garland RACES training net	9	10 Event: MS Walk Sachse Siren Test
11	12 7:30pm GARC Information Net	13 5wpm code class	14	15 9pm: Garland RACES training net	16	17 Class: ECC Ops Sachse Siren Test
18 Event: MS Walk 8pm: Dallas RACES training net	19 7:30pm GARC Information Net	20 5wpm code class	21	22 7:30pm Garland VE Testing Session 9pm: Garland RACES training net	23	24 Event: March of Dimes Walk Sachse Siren Test
25	26 7:30pm GARC Monthly Meeting	27	28	29 9pm: Garland RACES training net	30	May 1 Event (2-day) MS- 150 starts today

Communication Officer's Report on the GARC Repeater Controllers Y2K Readiness

By Mark Durbin, KC5GNG

The GARC currently owns two main repeaters located at the Baylor Hospital and two portable repeaters. The main repeaters are run by a Link Communication RLC-3 controller running version 1.77. On the portable two meter repeater, we are using an ACC RC-85 version 5.2 controller. On the 70 cm portable, we are using a S-Com 5K version 1.5. None of these controllers have any major issues with Y2K.

I have done research into the Link Communications repeater controllers, and Link has stated none of their controllers cares about the year field. The controllers do use the date, but only the month and day.

My specific research was on the RLC-3 controller, and Link has stated that there is no significant impact to operations on this unit. My own testing has confirmed this and found only one bug to report on. When the user executes the date recall command, either through the phone line or over the air, the repeater will respond, right now, with MONTH, DAY, and YEAR (ie: "March 8, 99"). However, in 2000 the controller will respond only with the MONTH and DAY, because it does not speak zeros (ie: "March 8" no 00). This controller will function without any other issues through the new year and beyond.

After doing some testing on the portable two meter repeater controller, it was found that this controller does exhibit some problems with year 2000. The controller tested was the RC-96 version 5.2. A RC-85 was also tested. The findings are that when the controller rolls over to 2000 the female voice, time, and date do not function.

However, I did contact the new manufacture and they have a fix for this problem. Research has revealed that the remote base

functions of this controller also stop working after year 2000. The fix is a "secret code" that must be entered into the controller to reinitialize the clock chip. This "secret code" is 9213528835, and all functions will return to normal. The conclusion is that the controller will continue to function, but requires the code to be entered to have access to advanced features.

The testing and research on the portable 70cm repeater controller reveals that this controller, the S-Com 5K version 1.5, only has one problem and that is on leap years. However, the unit does not know what a leap year is at all. This means that whether it is 2000 or 1996 the controller is going to have a problem. But, the fix is simple the operator will reset the date on March 1 back to March 1. The unit does not have a February 29 field at all so on February 29 the unit will roll to March 1. The unit will continue to function as designed with no other problems.

In closing, based on this information, the Garland Amateur Radio Club repeater controllers are going to operate into the year 2000 and beyond. They may not have all the features right at midnight of year 2000, but the communications officer will make sure that within a short amount of time all the controllers will be operating with all features.

Mark Durbin
KC5GNG
Communications Officer '98-'99



"RUSTY BOLT EFFECT" by: Mike Durbin WA5TKC

Technical Specialist ARRL North Texas Section

Ever had a case of interference that seems to come and go? Sometimes it seems weather related, sometimes wind, and sometimes it doesn't make any sense at all? Well look into what is called the "RUSTY BOLT EFFECT". Most of us have towers, antennas, fences, TV antennas, gutters, or anything else made of metal that has been around awhile. Since Mother Nature likes to change things with time, (RUST) she has developed a method of manufacturing diodes that could compete with commercial manufactures. Diodes are very efficient generators of signals and produce non-linear current flow which is rich in harmonics and spurious signals. This type of rectification may contribute to mixing of ham radio signals, commercial signals, and just plain noise, can mix together and form signals that we call Intermodulation distortion. The most annoying type of signals form as a result of signals not usually related to amateur radio transmissions. These signals are usually from things like commercial AM transmitters, digital paging systems, digital transmitters (becoming wide spread), and other signals sources in close proximity to towers, power lines, or metal buildings.

In general any conducting surface (plumbing, electrical, fences, towers, guy lines, multiple piece antennas, or any place where two metals meet, can cause a rectifying joint and produce a natural signal/noise generator. Don't forget items that have diodes in them by design, when looking for an interference source. How about things like, rotators, controllers, power supplies, alarm systems, etc. (You do have things like these around don't you?)

WHAT TO LOOK FOR!!

Guy Wires that help keep us safe can cause a problem. The connections on the tower of guy line cables are usually of two different types of metals and are a perfect source for one of nature's diodes. Guy lines are usually broken up by insulators which help reduce the effect of resonant lengths which reduce harmonics and signal radiation. The insulators can however break and form connections which then becomes a diode. The connections to the tower

legs are usually just wrapped around the leg and not bounded, what a great diode this makes. The worse scenario for this type of problem is a continuous guys lines with no grounds on the ends, or bounding to the tower. Where is the ground on your guy lines?

Towers that hold our antennas (this also goes for jointed masts) usually have joints in them where legs are bolted together. The best installation probably has bolts that are different metal than the tower itself making a natural diode after nature has had time do some work. The best supports have a bonded straps over joints to help reduce this effect.

Antennas usually are made of multiple pieces of metal and joints of telescoping metals. Well what do you know, a tunable diode noise source. Most antenna manufacturers will include a conducting grease to help eliminate the effects of corrosion. The joints of commercial antennas are usually moisture proof to help reduce this effect even more. Now you know what that funny grease that came with antenna is for.

Stranded wire we call copperweld, is used in some antennas construction, and by some for ground connections, is a good source for natural diodes as the aging effects go to work. The copper around steel used in most of these types of wires tend to corrode with time. (Look at your copper wire is it green?) The steels rusts and the copper turns to copper oxide. The first commercial diodes were made from copper oxide! Now you know why solid conductor wire is used for grounding in most properly installed antenna systems. Another good example is your telephone ground. I would bet that your telephone entrance box on the side of your house has a solid conductor grounding wire.

Metal roofing, Gutters, Duct work, Metal window frames are good sources for diodes. (metal barns/storage sheds anyone?) The metal used in manufacturing of these devices are usually just laid over each other and can form great diodes. The screws used to assemble these types of structures are also generally of different metal than the metal they

(Continued on page 3)

Training

1999 GARC Training Schedule

The Garland Amateur Radio Club's training program has the following classes underway or scheduled. Call Karen, W4YHN, or Randy, KC5QHH, Dunning at 495-9654 to verify times, locations, or to sign up for a class.

Theory Classes

Technician Theory

January: Tuesdays, Jan 26, Feb 2, 9, 16, and 23. 7:00 to 8:30pm at the ECC. Garland VE testing on February 25.

June: Tuesdays, June 22, 29, July 6, 13, 20. 7:00 to 8:30pm at the ECC. Garland VE testing

Kid's Classes

Novice in June: June 14 through 18, 10:00am to 2:00pm. Bring sack lunch. Location: Dunnings (call for directions). Garland VE testing on June 24.

Technician in July: July 12 through 16, 10:00am to 2:00pm. Bring sack lunch.

General Theory

May: Tuesdays, May 4, 11, 18, 25., 7:00 to 8:30pm at the ECC. Garland VE testing on

Advanced Theory

September: Thursdays, September 16, 23, 30, October 7, 14, 21 at 7:00 to 8:30pm at the ECC. Garland VE testing on October 28.

Morse Code Classes

5 WPM

March: Tuesdays, March 2, 9, 16, 23, 30, April 6, 13, 20, 7:30 to 8:30pm at the ECC. Garland VE testing on April 22.

September: Tuesdays, September 7, 14, 21, 28, October 5, 12, 19, 26, 7:30 to 8:30pm at the ECC. Garland VE testing on October 28.

Specialty Classes

These are practical, often hands-on, fun classes. The dates are subject to change to accommodate public service events

ECC Operations: March 6, April 17, November 6. (Bob Jones, W5BJ)

Home Brew: May 15, July 31
Soldering PL259 connectors – KB5NSI
Making Molex 12 volt connector – WD4BIS
Making standard audio connector – KC5GLM

Field Day Operations: Saturday, June 19th, instructor TBD

Getting Started in Packet Radio - CQ Video at Field Day, June 26th

Getting Started in Amateur Satellites - CQ Video at Field Day, June 26th

Getting Started in DXing - CQ Video at Field Day, June 26th

Home Brew for Kids: Circuit Board Project – August – KD5OUG

Home Brew: Micro-controller (PIC) Project – August – WD4BIS/KC5QHH

Repeater Operation and Maintenance – TBD – KC5GNG

Continuing Education Units (CEUs)

Many of us have professional certifications which require continuing education. For those of you with technical professions such as electronics, communications, quality, or education, you may be able to count the GARC training classes towards your re-certifications. Continuing Education Units (CEUs) may be awarded for any of our classes. One hour of training equals one CEU.

To get credit for a class, make sure the instructor writes down your name on the attendance list each day for a class. Then submit a written request to the Education Officer (Karen Dunning, W4YHN) in person or at: P.O. Box 551581, Dallas, Texas 75355.



Things to Do

Selected ARRL Contests and Special Events

(from <http://www.arrl.org/>)

March 1999:

Savannah, GA: Coastal Amateur Radio Society, W4S, **1700Z Mar 13 to 1700Z Mar 20, celebrating St. Patrick's Day week** in Savannah, 14.265 21.315 28.415. QSL. Coastal Amateur Radio Society, PO Box 23972, Savannah, GA 31403.

Hinckley, OH: Brunswick Area Radio Club, KB8ONI, **1300 to 1900Z Mar 21, celebrating the return of the buzzards to Hinckley, Ohio**, 7.260 14.280 28.400, SSTV. Certificate. Dennis Krieger, 1751 W. 130th, Hinckley, OH 44233.

Beebe, AR: **Arkansas State Tech Institute Amateur Radio Club, W5ASU, 2000Z Mar 26 to 2100Z Mar 27**, new Distance Learning Center at the Arkansas State University Campus, 7.240 14.260. Certificate. Station W5ASU, Arkansas State University, PO Box H, Beebe, AR 72012.

Macon, GA: Macon ARC, W4BKM, **1500 to 2300Z Mar 27, Celebrating the 17th Annual Cherry Blossom Festival** in Macon, GA, 7.235 14.035 14.250 21.335. Certificate. Macon ARC, PO Box 4862, Macon, GA 31208.

Virginia Beach, VA: Virginia Beach Amateur Radio Club, W4UG and LA5M, **1700Z Mar 27 to 1700Z Mar 28, celebrating the 108th Anniversary of Norwegian Lady**-VBARC and MOSS ARC, 7.130 7.270 28.363 14.270. Certificate. VBARC, PO Box 62003, Virginia Beach, VA 23466.

April 1999

San Antonio, TX: Southwest Research Center Amateur Radio Club, W5RRA, 1400 to 2200Z Apr 10, commemorating the 52nd anniversary of the Southwest Research Institute. 7.245 14.185 28.375 50.185. Certificate. Tim Haby, Southwest Research Institute, 6220 Culebra Rd, San Antonio, TX 78238.

Port St. Lucie, FL: Port St. Lucie Amateur Radio Association, K4PSL, **0000Z Apr 1 to 2400Z Apr 10, commemorating the discovery of Florida by Ponce de Leon in 1513**. 14.030 14.250 21.250 28.335. Certificate. Dr Maurice Sasson, W2JAJ, 8598 Florence Dr, Port St Lucie, FL 34952.

Gloucester, VA: Middle Peninsula Amateur Radio Club, W4HZL, **1300 to 2100Z Apr 3, operating from the thirteenth annual Gloucester County Daffodil Festival**. 7.237 14.237 21.370 28.370. QSL. Carter Clements AD4VQ, HC 74 Box 1680, Shackelfords, VA 23156.

Green Valley, AZ: Green Valley Amateur Radio Club, N7GV, **1800Z Apr 10 to 2100Z Apr 11, for the eighth annual commemoration of the closing of all Titan 2 missile sites**. 7.272 14.272 21.372 28.372. Certificate. GVARC, 601 N La Canada, Green Valley, AZ 85614.

Denmark, Iceland, Greenland, Faeroe Islands: Maritime coastal stations will be operating on amateur frequencies **from 0000Z Apr 10 to 2400 Apr 11, to commemorate the end of the international maritime distress watch on 500 kHz**. The following stations and call signs will be active: Greenland: Qaqortoq Radio, OX3OXF; Nuuk Radio, OX3OXI, Aasiaat Radio, OX3OYR; Iceland: Reykjavik Radio, TF3TFA; Faeroe Islands: Torshavn Radio, OY3OXJ; Denmark: Lyngby Radio, OZ1OXZ, OZ5OXZ and OZ1OXB. 1.830, 3.535, 7.025, 10.125, 14.035, 18.075, 21.035, 24.905, 28.035. QSLs will be available from individual stations. Awards will be issued for confirming QSOs with three of the four participating countries, all four countries or all eight amateur call signs. Submit award requests to Radio Amateur Group, Lyngby Radio, Bagsvaerd Moellevej 3, DK-2800

(Continued on page 11)

Selected ARRL Contests and Special Events (Continued)

(Continued from page 10)

Lyngby, Denmark.

Brooklyn, NY: Brooklyn QRP Club, N2Y, **1600Z Apr 10 to 2100Z Apr 24, commemorating the first anniversary of the Brooklyn QRP Club's Field Operation.** 7.040 7.285 14.060 14.285. Certificate. Kevin F. Glynn, 429 73rd St, Brooklyn, NY 11209.

Piscataway, NJ: Piscataway Amateur Radio Club, K2VOA, **0000Z Apr 10 to 2400Z Apr 11, operating from Voice of America relay station WBOU.** 7.245 14.200 21.345 28.445. Certificate. Piscataway Amateur Radio Club, PO Box 1233, Piscataway, NJ 08854-1233.

Cheraw, SC: Chesterfield County Amateur Radio Society, KF4GPE, **1200Z to 2100Z Apr 11 during the annual Spring Festival.** 14.272 28.400. Certificate. Lee Peele, 202 Country Rd, Cheraw, SC 29520.

Santa Rosa, CA: Sonoma County Radio Amateurs, W6LFJ, **1700Z Apr 17 to 0100Z Apr 18, operating from the Kendall Jackson Winery celebrating the start of the grape growing season.** 14.275 21.350 28.350. QSL. SCRA, PO Box 116, Santa Rosa, CA 95402.



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Please Rush!!!

In This Issue...

March is election time! Also, see the program information on page 1!