



THE PROPAGATOR

8 Donner St.
Holmdel, NJ 07733
Editor: Bob Buus, W2OD

DECEMBER 2015

UPCOMING GSARA MEETINGS

The next GSARA meeting will be on **Wednesday, December 2 at 7:30 PM** at the Red Cross. The program will feature Lance Andrew, N2UUS presenting a program on Electromagnetic Pulse (EMP). Bring a guest and enjoy the light refreshments that will be available.

The second meeting in December will be held on **Wednesday, December 16 at 7:30 PM** at the Red Cross. This will be a regular business meeting. Refreshments will be served and guests are welcome.

GSARA NET 8:30 PM TUESDAYS

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. In the four sessions in November we had 23 check-ins for an average of 5.75 per session. The following 13 members checked into this net at least once (number of check-ins in parenthesis):

N2HGI (4), W2OD (4), K2ARK (3), K2ARV (2), KC2YNL (2), KG2CM (1), KD2EPA (1), KA2F (1), W2HAM (1), N2JFL (1), WA1PCY (1), K2REM (1) and W2UTR (1).

Mark your calendar so you remember to participate. The more participation, the more fun!

NO VE TEST SESSION IN DECEMBER

Since the fourth Saturday in December is the day after Christmas, there will be no GSARA VE test session in December. The next test session will be on Saturday, January 23, 2016.

GSARA 4TH IN NATION FOR FD

As published in the December 2015 QST, page 86, Garden State ARA placed 4th in the nation for category 4F with a score of 5650 for Field Day 2015. Go W2GSA in FD 2016!!!!!!

WELCOME NEW MEMBERS

Please welcome Ed Papson, KC2QBK from Tinton Falls. Ed is a chemist who was first licensed in 1968 and currently holds a General class license. Add to your Roster:

KC2QBK, Ed Papson
25 Columbia Drive
Tinton Falls, NJ 07724
908-309-6529
etpapson@comcast.net

Please welcome Sean Donohue, KD2JRO from Tinton Falls. Sean is a firefighter/EMT and recently obtained his Technician class license. Add to your Roster:

KD2JRO, Sean Donohue
927 Wayside Road
Tinton Falls, NJ 07712
732-856-2335
stdonohue@gmail.com

Please also change the call of new member **Art Olson** (in the October Propagator) from KD2JKP to **N2AJO**. Congratulations, to all!

GSARA 2016 DUES ARE NOW DUE

GSARA Dues for 2016 (\$15) may be paid to KA2F, the Treasurer, in cash or check at any meeting. Checks may be mailed to John King, 18 Carmel Way, Eatontown, NJ 07724.

Your attention to this matter will be appreciated in order to help keep our club financially fit.

TU 73, John, KA2F

HELP NEEDED WITH TOWER

Nick Corvasce, W2NAC has bought an old antenna tower that he is unsure of the make and it is missing the base plate. To help, contact him at 732-895-2276 or ncorvasce@gmail.com.

GSARA OFFICERS

President	W2HTS	Howard Suffill	460-1885
Vice Pres.	K2REM	Rem Hunnewell	531-2970
Secretary	W2OD	Bob Buus	946-8615
Treasurer	KA2F	John King	942-7705
Engineer	W2EPD	George Graulich	255-7916
Webmaster	K2CYS	Cy Stanway	768-7773
Publicity	NJ2H	Bill Shockley	207-4466
Repeater	N2LXM	Jeff Harshman	922-0816
Radio Room Phone		732-493-9100, X1252	
Trustees	W2KQ	Joe Dreifuss	493-4236
	W2OD	Bob Buus	946-8615
	W2HAM	Lou Russo	842-6431

FRIDAY BLUE SWAN LUNCHEONS

A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the sun room at the north end of the diner.

PATCHES

We have GSARA patches available at all meetings and they cost \$3.

OUTGOING QSL CARDS

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Ray, WA1FFT will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?

PROPAGATOR NOW ON THE WEB

The *Propagator* is available as a PDF file at:

<http://www.gardenstateara.org>

Click on "The Propagator" and then select the month you want.

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

<http://www.hudson.arrl.org>

EDITOR'S NOTES

I was disappointed to see such a poor turnout from GSARA to the Hudson Division Awards Luncheon. There was room for more in the car pool and room for more at the GSARA table we sat at. With the GSARA subsidy, it cost only \$25 per member and well worth the price. It was a special honor to see GSARA member Blair Hearth, KD2EPA win the Technical Achievement Award. I was embarrassed that more GSARA members didn't attend to honor Blair.

Hopefully, attendance will be better for the luncheon on Saturday, December 5 to honor GSARA Member of the Year, Cy Stanway, K2CYS (see page 5). Cy inspired me to get back on CW for Field Day. He not only made our 2015 Field Day a success (fourth place in the nation for 4F – see page 1) but was a significant contributor to the North American QSO Party and the NJ QSO Party (for which we were first place for Monmouth County). His Member of the Year award is well-deserved. Congratulations, Cy!

There was a time when 146.52 MHz was monitored by a lot of amateurs and I found it comforting when hiking the mountains of Arizona some years ago with my HT (no cell phone). With the popularity of cell phones, the need is not as great now. Therefore, it is gratifying to see that ARRL will now allow the use of 146.52 in the VHF contests (see page 8). Perhaps this might encourage some of the newcomers to try contesting on two-meter FM.

Thanks to many members bombarding their congressmen to act on S. 1685 in the Senate and H.R. 1301 in the House, progress is being made on the Parity Act (see page 7). Although we have a long way to go, it will be nice to see this finally passed. For background, check the "Clarity on Parity" video which is readily available on the ARRL web site or directly on Facebook at <http://www.youtube.com/watch?v=AMY-5U1cJ6E>. It's under six minutes long and you might find it interesting.

John, KA2F is ready to accept your dues for 2016 (see page 1). A bargain at \$15!

As always, I appreciate feedback or material for *The Propagator*. The deadline for the January issue is December 15.

73 de Bob, w2od@arrl.net

MINUTES OF NOVEMBER 4 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:35 PM at the Red Cross. There were 20 members present. After the pledge to the flag, all present introduced themselves and talked briefly about their recent amateur radio activities.

Health and Welfare

John, KA2F talked to Ralph, KC2YNL who has been having some health problems and unable to attend our meetings. His back is getting better but he still has quite a bit of pain in his legs making it hard to get around.

New Members

Application for membership was received from Ed Papson, KC2QBK from Tinton Falls who holds a General class license. Licensed since 1968, he is a Chemist by trade.

An application for membership was also received from Sean Donohue, KD2JRO from Tinton Falls who recently obtained his Technician license. He is a Firefighter/EMT.

By unanimous vote, both men were accepted into the GSARA.

Announcements

Ed, WB2KCV brought in an antenna tuner he built from plans provided by Pat Moran, W2EM (SK). It served him well in his early days of amateur radio and is relatively easy to build. Ed also had the plans written by W2EM but they are not in good condition to reproduce.

Ray, WA1FFT brought in two new books from the ARRL and passed them around for members to look at and decide whether they might be interested in buying them. They are "Propagation and Radio Science" (ARRL #0277) and "Nifty E-Z Guide to D-STAR Operation" (ARRL #0125).

Ray, WA1FFT has also continued experimenting with horizontal loop antennas. As a magnetic antenna, it picks up less noise than more conventional antennas. He has had good results feeding the loop with 450 ohm ladder line to a 4:1 balun and then coax to the shack.

Program

The program was presented by Chris Wantuck, W2NQB who talked about using electrolysis to remove rust. He showed what an outstanding job it did on an old automobile gas tank which was rusted on the inside.

Close

The 50/50 of \$16 was won by Rem, K2REM. There being no further business, a motion was made to adjourn the meeting which was closed at 8:42 pm.

MINUTES OF NOVEMBER 18 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:35 PM at the Red Cross. There were 18 members present. After the pledge to the flag, all present introduced themselves and described what they have been doing recently with amateur radio.

Health and Welfare

Ralph, KC2YNL had heart surgery and is resting at home. He often monitors the W2GSA repeater.

Alene Petersen, KB2OJL became a silent key on November 12 at the age of 98. She was the widow of former GSARA member Phil Petersen, W2DME and lived in Seabrook Village in Tinton Falls. Alene was born and raised in Madison, IN. She married Phil and moved to New Jersey in 1944. Services were private. A moment of silence was observed in her memory.

A moment of silence was observed in memory of the French victims of the terrorist attacks.

Secretary's Report

A motion was made by Marty, N2BMK and seconded by Ray, WA1FFT to accept the minutes of the November 4 meeting as they will be published in the December Propagator. The motion passed unanimously.

A letter was received from Paul Roman thanking GSARA for its participation in the Twin Lights Bike Tour in September. A check for \$250 was included and turned over to Treasurer John, KA2F.

Treasurer's Report

Treasurer John King, KA2F gave the Treasurer's report. By a motion of Art, KC2CRI and seconded by Mike, K1MH, the report was unanimously accepted.

Old Business

A poster made by John, KA2F showing contributors to radio astronomy in New Jersey was displayed at the meeting. This had been displayed at the Hudson Division Awards Luncheon on November 8.

A motion was made by John, KA2F and seconded by Marty, N2BMK to reimburse John \$43.80 for tolls and mileage for driving W2OD, KA2F and his XYL Helen to the Awards Luncheon. The motion was passed unanimously.

VE Committee

The VE committee, headed by Rich, N3RB asked the membership if a GSARA VE session should be held on December 26. Since it is the day after Christmas, the members felt we should not have a session. The next session will be on Saturday, January 23.

Nominating Committee

Bruce, K2QXW, head of the Nominating Committee presented the following slate of officers for 2016:

President: Howard Suffill, W2HTS

Vice President (two candidates):

Rem Hunnewell, K2REM

Len Kline, WA1PCY

Secretary: Bob Buus, W2OD

Treasurer: John King, KA2F

Chief Engineer: George Graulich, K2EPD

The floor was opened for additional nominations. With none being presented, the nominations were closed.

With two candidates for the position of Vice President, ballots were distributed to the 18 members present. The election was won by Rem, K2REM. A motion was made by Marty, N2BMK and seconded by Rem, K2REM to have the Secretary cast a vote for the remaining four offices which he did. President Howard, W2HTS declared the election complete for 2016.

Announcements

GSARA won first place in Monmouth County for the September NJ QSO Party. John, KA2F thanks all who participated in helping us achieve this goal.

We are still waiting to see the results of the North American QSO Party where 12 members participated in August. There is another NA QSO Party coming in January and we hope to do even better with more participation.

Close

The door prize of \$18.50 was won by Len, WA1PCY. A second drawing for an ARRL centennial mug was won by Joe, W2KQ. A third drawing for another centennial mug was won by Sam, W2SHS. A fourth drawing for an ARRL book on RTTY/PSK31 was won by Marty, N2BMK who passed it on to Blair, KD2EPA. There being no further business, a motion was made by Art, KC2CRI and seconded by Mike, K1MH to close the meeting which was adjourned at 8:42 pm.

ALENE PETERSEN, KB2OJL - SK

Alene B. Petersen, KB2OJL, wife of the late Philip B. Petersen, W2DME, died on November 12, 2015, at her home in Tinton Falls at the age of 98. She was a wife and homemaker. She was a member of the United Methodist Church of Red Bank, NJ. She was a member of the Administrative Board, a member of the MCBC and a member of the United Methodist Women. .

Mrs. Petersen was born and raised in Madison, Indiana. She has lived in New Jersey since 1944. Surviving are a niece and a nephew as well as many cousins and friends.

Services were private. The Thompson Memorial Home, 310 Broad St, Red Bank, NJ, were entrusted with the arrangements.

HUDSON TECH. SERVICE AWARD

*As you well know, our own **Blair Hearth, KD2EPA** was awarded the ARRL Hudson Division 2015 Technical Service Award at the November 8 Awards Luncheon. The following write-up describing Blair's work appeared in the Awards Program Booklet. I suspect that John, KA2F played a key role in the write-up.*

Blair Hearth, KD2EPA was born in Fall River, Mass. and was raised in Naples, Florida. Blair is a professional fundraiser who has raised more than \$100M for nonprofit organizations. He has worked for The Salvation Army since 2008. His primary expertise is in tax-advantaged philanthropy.

Blair got his Tech license two years ago and passed the Extra exam this July. His interest in ham radio is paralleled by a life-long interest in amateur astronomy, particularly telescope making. Radio astronomy is his way of combining both interests. By necessity, he builds most of his equipment. He spends a lot of time studying RFI and strategies for overcoming this growing problem. He describes our region's radio environment as one of the worst places on the planet to attempt radio astronomy – a “witches brew” of spectrum congestion, QRN and QRM (legal and otherwise) with lots of strange emissions to identify and figure out how to filter or avoid without also removing valuable faint emissions, some of which originate from outside our solar system.

His shack includes his much-loved Icom 718, Kenwood TH-F6A, a variety of SDR dongles, mostly homemade antennas, and software (particularly SpecLab). His Very Low Frequency Sudden Ionospheric Disturbance radio (loop antenna) uploads ionospheric data to Stanford University's Astronomy Department every night. He uses his venerable Kenwood R600 and 20.1 MHz moveable wire dipole to record synchrotron radio emissions from Jupiter. He spent the summer studying for his Extra while observing meteor showers through passive meteor bounce. To do this, he used signals from two Canadian analog TV stations (British Columbia and Nova Scotia) that occupy the same frequency allocation as our local, powerful NYC digital Channel 4. His newest work involves using SDR, a rotatable DB8 Bow Tie antenna (with two LNAs) and FFT/spectrum analysis software to receive and process radio signals in the 408-410 MHz band from Pulsars and radio galaxies (while avoiding local RFI). He will soon begin construction of a 15 element 408 MHz Quagi (this will be pointed straight up), followed by a six foot horn antenna next spring.

He has presented his work in detail to the Astronomical League for peer review and presented to the GSARA. His data is openly

posted to the Internet and he shares his findings in several online forums. He is a member of the ARRL, the Astronomical League, the New York Academy of Science, the American Association for the Advancement of Science, and the Society of Amateur Radio Astronomers. He is learning CW.

GSARA MEMBER OF YEAR

Luncheon to honor Garden State Amateur Radio Association's 2015 Member of the Year

Cy Stanway, K2CYS

Saturday, December 5, 2015

2:00 P.M.

Ninette's Italian Restaurant

980 Shrewsbury Ave., Tinton Falls Plaza
Adjacent to ACME behind Americana Diner on
Rte. 35 South

Family-style Luncheon includes:

Variety of Pizzas

Vegetarian Antipasto

Chicken Marsala and Parmigiana

Desert

Iced Tea, Water or BYOB

Cost is \$20 per person.

Make payments by check to “GSARA” or in cash
and send to John, KA2F.

18 Carmel Way, Eatontown, NJ 07724

ka2fwb2hdj@gmail.com

Mail you check today or bring it to the Dec. 2
Meeting--your last chance before reservations
close.

Places are going fast. So don't delay.

ARISS CELEBRATES 1000TH EVENT

This month, the Amateur Radio on the International Space Station (ARISS) program marked its 1000th space station Amateur Radio event, continuing a string that started 15 years ago, when the program established the first permanent ham radio presence in space. The inaugural ARISS contact took place on December 21, 2000, between a member of the ISS Expedition 1 crew and youngsters at Luther Burbank Elementary School near Chicago. Several pupils and a teacher got to chat on 2



Astronaut Reid Wiseman, KF5LKT, operated ARRL Field Day from NA1SS on the International Space Station and took part in several ARISS school contacts. [NASA photo]

meters with "Space Station Alpha" Commander William "Shep" Shepherd, KD5GSL. The contact had a rocky start. Attempts by the school a couple of days earlier had been unsuccessful, despite extensive technical preparations hampered by snowstorms and sub-freezing temperatures. That contact marked the first use of the special NA1SS call sign for a school contact.

"It has always been all about youth, piquing their interest in Amateur Radio, science, technology -- especially wireless technology -- engineering, math, and aerospace...really anything educational, and it will always be about these things," said ARISS International Secretary Rosalie White, K1STO. While on the ARRL Headquarters staff, White was in on the ground floor of ARISS, which grew out of the space shuttle-era SAREX (Space Amateur Radio Experiment). She represented ARRL, an ARISS partner, in initial discussions to set ARISS into motion.

In 1996, with the ISS still a few years off, the SAREX team decided not to wait until the first crew was on station to start thinking about getting Amateur Radio on board, White said. By then it would be too late to ensure equipment room in the ISS's tight quarters as well as to address cabling, antennas, power, and flight certification -- myriad details that also included both NASA and Russian approvals and licensing astronauts. NASA stipulated that it wanted a single, worldwide group to be solely responsible for "everything Amateur Radio" on the ISS.

With a lot of hard work, an ARISS team based on countries having space agencies supporting the ISS -- Canada, Japan, Russia, several European countries, and the US -- was pulled together. White said it was "a monumental task" to get everyone to the US for the scheduled meeting dates in November 1996.

"In the end, at least one Amateur Radio operator came from Canada, Japan, Europe, Russia, and the United States, the areas now known as ARISS regions," White said. "That's how it all began!"

ARRL Education Services Manager Debra Johnson, K1DMJ, said NASA will be celebrating the arrival of the first crew to inhabit the ISS. "The ham radio gear was activated a few days later," she said. "Amateur Radio is considered the first ISS payload."

ARRISS touches tens of thousands of students per year. One ARISS goal is to inspire an interest among young people in science, technology, engineering, and math (STEM) subjects and in STEM careers. Another is to provide an educational opportunity for students, teachers, and the public to learn about space exploration and satellites, as well as about wireless technology and radio science through Amateur Radio.

The program has made a positive impression on educators, with 92 percent of those who have been involved indicating that ARISS provided ideas for encouraging student exploration, discussion, and participation, and 78 percent saying that ARISS was effective in stimulating student interest in STEM.

In an era of tighter NASA budgets, ARISS International President Frank Bauer, KA3HDO, recently indicated that ARISS needs to raise \$90,000 annually to maintain its current level of operation, and \$214,000 to grow operations and meet its desired goals. ARISS encourages donations via the [AMSAT](#) website (select the "ARRISS Donate" button). Individuals contributing \$100 or more will receive the new ARISS Challenge Coin.

From *The ARRL Letter*, October 29, 2015

Since light travels faster than sound, some people appear bright until you hear them speak.

PARITY ACT PASSES COMMITTEE

The Amateur Radio Parity Act S. 1685 took an essential step forward on November 18, when the US Senate Committee on Commerce, Science, and Transportation voted to report the bill favorably and without amendment. It was one of a half-dozen bills that were approved by the committee in a brief markup session. S. 1685 was approved on a voice vote, with two Senators -- Bill Nelson (D-FL) and Brian Schatz (D-HI) -- asked to be recorded as voting "no."

"Our work is not finished on the Senate side of Capitol Hill, although this is a huge step forward," said ARRL President Kay Craigie, N3KN. She urged ARRL members to continue to write, call and e-mail their Senators about S. 1685 to build up its support for the future, saying, "We know that members' response to the call for a communications blast last week made all the difference for some Senators on the committee."

S. 1685 picked up another Senate cosponsor on November 18, when Senator Jerry Moran (R-KS), who sits on the Commerce Committee, signed aboard the bill. "ARRL members in Kansas should contact his office to say thanks," President Craigie said. "Having an additional cosponsor who's on the Committee is especially good news."

On hand to observe the Committee mark-up session were ARRL Hudson Division Director Mike Lisenco, N2YBB; ARRL CEO David Sumner, K1ZZ, and ARRL General Counsel Chris Imlay, W3KD.



(L-R) ARRL General Counsel Chris Imlay, W3KD; Hudson Division Director Mike Lisenco, N2YBB, and ARRL CEO David Sumner, K1ZZ, were on hand to observe the Senate committee markup session on November 18.

President Craigie encouraged ARRL members in Florida and Hawaii to keep contacting Senators Schatz and Nelson, urging them to change their minds about the legislation. "Don't be harsh or angry," she advised. "Keep it factual and courteous, and don't give up."

On November 5, US Senator Al Franken (D-MN) signed on as the second cosponsor of S. 1685. That legislation and its US House twin, H.R. 1301, call on the FCC to extend the limited federal pre-emption of PRB-1 to cover private land-use restrictions such as deed covenants, conditions, and restrictions (CC&Rs).

H.R. 1301 has 114 cosponsors as of November 18. President Craigie said ARRL members should continue to urge their Representatives to cosponsor H.R. 1301 and to thank those who already have signed on.

The Amateur Radio Parity Act of 2015 [page](#) on the ARRL website has more information on how you can become involved. Read [more](#).

From *The ARRL Letter*, November 19, 2015

146.52 MHz OK FOR CONTESTS

The ARRL Programs and Services Committee earlier this year unanimously adopted a recommendation from its VHF and Above Revitalization Committee to remove the rule prohibiting the use of 146.52 MHz simplex for making contest contacts. The change becomes effective in 2016, starting with the ARRL January VHF Contest.

The VHF and Above Revitalization Committee concluded that the restriction was no longer necessary. The committee felt that permitting the use of 146.52 MHz would allow new/curious contesters possessing only FM-mode radios to stumble upon more contacts, increasing their chances of being drawn further into VHF+ contesting -- the primary aim of the Revitalization Committee.

The change will also be incorporated into the [ARRL Field Day](#) rules. This change eliminates Rule 1.8 in the "[General Rules for ARRL Contests Above 50 MHz](#)," with subsequent Rule 1 sections renumbered accordingly. -- *Thanks to Dan Henderson, N1ND, Regulatory Information Manager/Acting Contest Manager*

From *The ARRL Letter*, October 29, 2015

WRC APPROVES GLOBAL 60 METER

The Plenary Meeting of the 2015 World Radiocommunication Conference ([WRC-15](#)) in Geneva has approved an allocation of 5351.5-5366.5 kHz to the Amateur Service on a secondary basis, with a power limit of 15 W effective isotropic radiated power (EIRP). The November 18 decision on Agenda Item 1.4 was adopted on two back-to-back readings. Some Region 2 countries -- but not the US -- will be permitted up to 25 W EIRP. With this action, and despite conditions that are more restrictive than had been hoped at the start of the Conference, the Amateur Service has obtained its first new global HF allocation since 1979. While the Final Acts of the conference are expected to take effect on January 1, 2017, the new band will not become available to amateurs until their national telecommunications administration amends its rules and licensing conditions. Those administrations that already permit amateurs to operate in the 5 MHz range under certain conditions and on a not-to-interfere basis, including the FCC, will be considering whether, how, and when to modify those arrangements in light of the international allocation.

The International Amateur Radio Union ([IARU](#)) team is doing what it can to influence the agenda for WRC-19. The agenda could include addressing amateur spectrum requirements in the 50-54 MHz band in Region 1, which could lead to at least partial harmonization of the 6 meter band worldwide. A proposed agenda item to align the 160 meter allocation in Region 1 with the rest of the world is no longer under active consideration.

The WRC-19 agenda will also likely pose spectrum defense challenges, including possible consideration of the 420-450 MHz band to accommodate a new allocation to the space operations service for satellites in non-geostationary orbit that are described as "small satellites" or "satellites with short duration missions." One or more bands above 10 GHz may be up for consideration for 5G smartphone use. The bounds of these potential defensive items, however, are still under discussion by the conference.

The IARU team continues to monitor several other WRC-15 items that appear to be headed toward acceptable conclusions.

From *The ARRL Letter*, November 19, 2015

TEN YEARS AGO

From the December 2005 Propagator: Officers for 2006 included Jeff Harshman, N2LXM as President; Sterling Rodgers, N2GT as Vice President; Frank Wroblewski, W2XYZ as Treasurer; and Bob Buus, W2OD as Secretary.

FIFTEEN YEARS AGO

From the December 2000 Propagator: Officers for 2001 included Mike DiPersio, KC2Q, President; Shirley Holzberg, KC2APV (SK) as Vice President; Geoff Bullock, KC2AMA as Secretary; Frank Wroblewski, W2XYZ as Treasurer; and Marty Szumera, WN2DX as Chief Engineer.

TWENTY YEARS AGO

From the December, 1995 Propagator: Officers for 1996 included Joe Dreifuss, WA2GSY (now W2KQ) as President; Laurie Korkowski, N2XWA as Vice President; Frank Wroblewski, WS2Y (now W2XYZ) as Secretary; Dave Worrall, N2IRO (now WD2DW) as Treasurer; and Rich Rohloff, KG2CN as Chief Engineer. A Roster showing 144 members was included.

TWENTY-FIVE YEARS AGO

From the December 1990 Propagator: Officers for 1991 included John King, KA2F as President; Bob Girling, KB2ERX (SK) as Vice President; Bob Buus, W2OD as Secretary; John Breza, WR2Z (SK) as Treasurer; and Don Cafro, KB2CMF (now N2DOM) as Chief Engineer. A proposal will be voted on at the December 19 meeting to increase the GSARA dues from \$10 to \$15 per year. Al Allen, K2LG (SK) had the first of a two-part article on linear amplifiers.

THIRTY YEARS AGO

From the December 1985 Propagator which was only two pages: Officers for 1986 included Ken Hampton, KY2S as President; Jerry Havel, W2RRX (SK) as Vice President; Gerry Kersus, W1GD as Secretary; Clarence Kastner, KA2OZA (SK) as Treasurer; and Bob Roman, N2DR as Chief Engineer.

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **N3RB** on December 1. All times EST. Contests are listed in the December QST, p. 69.

December 1 – **Old Barney VE Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

December 1 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

December 1 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

December 1 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

December 2 – **GSARA Meeting** at 7:30 pm. Program features Lance Andrew, N2UUS with a presentation about EMP (Electromagnetic Pulse) and its effects on communications and safety.

December 3 - **HCARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

December 4 - **W1AW Qualifying Run** at 10 pm (10-40 wpm). See December 2015 QST page 95 and www.arrl.org/qualifying-run-schedule

December 5 – **GSARA Luncheon** to honor Cy, K2CYS at Ninette's in Tinton Falls Plaza at 2:00 pm. Advance reservations required. See p. 5.

December 6 and every Saturday, Sunday and Wednesday – **InfoAge Marconi Hotel** open from 1 to 5 pm on Marconi Road in Wall.

December 7 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

December 9– **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

December 10 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

Dec. 11-13 – **ARRL 10 Meter Contest**, Phone and CW from 7 pm Friday to 6:59 pm Sunday. See <http://www.arrl.org/10-meter>

December 12 – **OMARC Meeting** at 9:00 am at the Diana Site on Marconi Road in Wall. Guests welcome.

December 14 -. **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

December 15 – **W1AW Qualifying Run** at 9 am (10-40 wpm). See December 2015 QST page 95 and <http://www.arrl.org/qualifying-run-schedule>

December 16 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

December 17– **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

Dec. 18-19 – **Canadian Winter Contest**, CW and Phone on all bands from 7 pm Friday to 6:59 pm Saturday. See <http://www.wp.rac.ca/?s=winter+contest>

December 20 – **ARRL Rookie Roundup**, CW on 3.5 to 50 MHz from 1 pm to 6:59 pm Sunday. See <http://www.arrl.org/rookie-roundup>

December 21 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

December 25 – **Christmas Holiday**

December 28 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

Dec. 31-Jan. 1 – **Straight Key Night**, CW from 7 pm Thursday to 6:59 pm Friday. See December QST, p. 89 and <http://www.arrl.org/straight-key-night>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		N3RB 1 OBARC GSARA Net 8:30 QCWA News 9 PM	2 GSARA Mtg.	3 HCARC Mtg.	4 CW Qual. Run	5 GSARA Lunch
6 InfoAge	7 ARES/RACES 7:30	8 GSARA Net 8:30 QCWA News 9 PM	9 Hol. City VE	10 JSARS Mtg.	11 10 Mtr Contest	12 OMARC Mtg 10 Mtr Contest
13 AC2A 10 Mtr Contest InfoAge	14 RACES Net 7:30	15 CW Qual. Run GSARA Net 8:30 QCWA News 9 PM	16 GSARA Mtg.	17 JSARS VE	18 KC2YNL Canada Contest.	19 KD2GPO Canada Contest.
20 InfoAge Rookie Roundup.	21 ARES/RACES 7:30	22 GSARA Net 8:30 QCWA News 9 PM	23	24 K2EEI	25 Christmas	26
27 InfoAge	28 RACES Net 7:30	29	30	31 SKN	New Year's Day SKN	



G.S.A.R.A.

8 DONNER STREET

HOLMDEL, NJ 07733

FIRST CLASS