



THE PROPAGATOR

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

JULY 2005

NEXT MEETING JULY 6

The next regular meeting of the GSARA will be held on Wednesday, July 6 at 8:00 PM at the MARS building in Fort Monmouth. Come early for some good eyeball QSOs and enjoy the refreshments. We will be reviewing the results of Field Day and explore areas we might improve for next year. We'll also share some Field Day stories and the write-ups that appeared in the Monmouth Messenger (Fort Monmouth newspaper). Of course, any late-breaking news about the status of Fort Monmouth and the MARS station will also be shared at the meeting. We look forward to seeing YOU there!

FORT MONMOUTH PASSES

Please check the expiration date on your Fort Monmouth badges. Within two or three weeks before they expire, please contact W2XYZ or KB2RIS to get them updated. They CANNOT be renewed at the visitor control center on the spot.

MARC LUNCH BUNCH MEETINGS

Area hams are once again gathering for lunch at the Middletown Burger King on Saturdays at noon. The Burger King is located on the southbound side of highway 35 just south of Kings Highway. Everyone with an interest in ham radio is welcome.

If you have 2-meter capability, check in on the Middletown Repeater 145.485 PL 151.4 to see what's happening.

GSARA HOMEPAGE
HUDSON DIVISION HOME PAGE

FIELD DAY 2005

Field Day is over and GSARA participated in two activities. The Fort Monmouth MARS station operated 1F as K2USA and made over 300 contacts. This station was ideal for those wishing to operate a turn-key station in air conditioned comfort. GSARA operated a more traditional Field Day station at the football stadium at Fort Monmouth as W2GSA operating 1AB. This station was set up in the field using temporary antennas and battery-solar power. To make it even more challenging, W2GSA operated QRP with only 5 watts of power. W2GSA made over 250 contacts.

Although final scores were not available at press time, it looks like W2GSA will have about 2000 points and K2USA about 1500. We could have done a little better with more operators (especially CW ops) but we did quite well thanks to the efforts of those who did participate.

The weather was a bit hot but there was no rain so we had no complaints about the weather. Although we survived Saturday on junk food (Whoppers and Pizza), the food on Sunday was excellent thanks to the efforts of Jeff, N2LXM and Ray, W2NXG (if you haven't had Ray's salad, you've missed one of the better things in life).

Special thanks to the following Field Day participants: Jeff Harshman, N2LXM, Marty Szmera, WN2DX, Jim Griffiths, K2EI, Rich Ardolino, K2CPE, Frank Wroblewski, W2XYZ, Bob Buus, W2OD, Ray Lett, W2NXG, Bruce McLeod, K2QXW, Pat Brannick, N2BZD, Larry Wilkins, KB2RIS, Herb Holzberg, W2HH, Shirley Holzberg, N2KQ, Nena Puryear, N2WAY, Paul Kaltenborn, N2ZZP, Howard Suffill, W2HTS, and last, but not least, we acknowledge the support of Bonnie Griffiths, K2BON and Chuck Griffiths, N0EXS. A big and sincere THANK YOU to all of them. Everyone had a good time.

GSARA OFFICERS

President	N2LXM	Jeff Harshman	922-0816
Vice Pres.	N2GT	Sterling Rodgers	922-8299
Secretary	W2OD	Bob Buus	946-8615
Treasurer	W2XYZ	Frank Wroblewski	942-7705
Engineer	WN2DX	Marty Szumera	
Trustees	KG2NV	Don Pingitore	229-2925
	W2OD	Bob Buus	946-8615
	WA2FVL	Jack Keating	264-7670

PROPAGATOR AVAILABLE BY E-MAIL

Would you like to help the finances of GSARA and at the same time get your issue of *The Propagator* a few days earlier? You can get every issue e-mailed to your computer every month by simply giving your e-mail address to Bruce McLeod, K2QXW and request *The Propagator* electronically. Bruce's e-mail address is <brucekleod@comcast.net>

BADGES AND PATCHES

All new GSARA members get a name badge. However, you may order additional ones by getting a Badge Order Form from our Secretary, **Bob Buus, W2OD**, filling it out and turning it in to Bob with your \$5.00 payment.

We also now have 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). We then send them as a group 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:

It is installed on the web about two weeks after the direct mailing to members.

EDITOR'S NOTES

Field Day is over and I thoroughly enjoyed it this year. Although I was a bit disappointed that more GSARA members did not show up, I am sure that all that did participate had a good time. Although Marty, WN2DX was unavailable on Saturday, he sure worked hard on Friday in helping to set everything up and on Sunday in tearing things down. He also put in a good stint of operating. Jeff, N2LXM responded well to the problems that cropped up with the MARS station on Saturday and successfully solved them. I was very impressed with the cooperation between Jim, K2EI and Rich, K2CPE. They divided the responsibilities for the QRP station very well and achieved unbelievable success. The planning was phenomenal.

On Sunday night, when Field Day was just over, I was in a discussion on the QCWA news net (on the W2NJR liked system at 8:30 PM) about Field Day and mentioned that GSARA didn't have many newcomers participating. I was wondering if new hams were even interested in Field Day. Two recent licensees on the net mentioned that it had been their first Field Day and they both enjoyed it very much. They were thrilled to be able to get on the HF bands and work so many stations. So, I guess there is hope for the future. I think Howard, W2HTS was the only new member of GSARA who participated in our Field Day.

I apologize for not publicizing the first "Take Your HT to Work Day" on June 21 (see page 6) and wonder if any of our readers participated. It sounds like a good idea and a neat way to inform others about some of the capabilities of amateur radio. Hopefully, this will become an annual event and more of us will participate.

The story on page 6 about Bill Hudzik, W2UDT donating books to a new library reminded me of when GSARA donated a large set of books to the Monmouth County library system. Does anyone know if they are still available?

Remember if you change your e-mail address, please be sure to inform Bruce McLeod, K2QXW.

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

73 de Bob, w2od@arrl.net

MINUTES OF JUNE 1 MEETING

By Bob Buus, W2OD, Secretary

President Jeff Harshman, N2LXM, called the GSARA to order at Fort Monmouth at 8:00 PM. There were 24 members and two guests in attendance. After the Pledge to the Flag, all members present then introduced themselves. The guests were past President Walt Werner, W2TT and Bonnie Griffiths, K2BON, XYL of Jim, K2EI.

Treasurer's Report

Frank Wroblewski, W2XYZ gave the treasurer's report which included a generous donation from Kevin Wagner, KC2NYQ. A motion was made by Mike, KC2Q and seconded by Peggy Struening to accept the report and the treasurer's report was unanimously accepted.

Secretary's Report

Secretary Bob Buus, W2OD reported that Newsletters for neighboring amateur radio clubs were received. A motion was made by Nena, N2WAY and seconded by Peggy Struening to accept the minutes of the May meeting as published in the June Propagator. The motion passed unanimously.

Bob also announced that he had received a large box of material from past Secretary Geoff Bullock and is in the process of organizing it to make the GSARA archives more complete.

Health and Welfare

Larry, KB2RIS expressed his thanks to all who expressed their care and sympathy for the passing of his father, William Wilkins. He was a community leader in Manasquan.

Field Day

Jeff, N2LXM announced that Marty, WN2DX has resigned as Chief Engineer for Field Day and Jeff has graciously agreed to step in and coordinate activities as best he can. He announced that more operators are needed and they must sign up in advance to get through security at Fort Monmouth.

Jim Griffiths, K2EI and Rich Ardolino, K2CPE will be responsible for the QRP station. Help is needed on Friday afternoon to set up the QRP station at the football stadium from 2 to 6 PM (and also tear it down on Sunday afternoon). WinEQF will be used for logging both Field Day stations.

New Business

The BRAC recommendation for the closing of Fort Monmouth makes it prudent that GSARA start looking for an alternate meeting site. OMARC has graciously offered temporary use of the Diana site but we should seek something more permanent. Also, all GSARA property should be inventoried and labeled "Property of GSARA." Larry, KB2RIS assures us that no matter what happens to Fort Monmouth, the license for K2USA will be preserved.

Ray, W2NXG announced that GSARA participation for Kid's Day on June 18 has been cancelled. A motion was made by Peggy Struening and seconded by Larry, KB2RIS that GSARA support the next Kid's Day on January 6, 2006. The motion passed unanimously.

Bernie, W2QFQ, offered to donate a 30 foot telescoping mast to GSARA to be used for Field Day. The donation was thankfully accepted.

Public Service

There is the American Diabetes Association bike-a-thon on Saturday, June 4 starting and ending at Brookdale College in Lincroft. Eight to 12 operators are needed.

Saturday, June 18 is the Sheehan Classic Run in Red Bank.

See Jeff, N2LXM or Tom, N2VFK if you can help with either of these events.

Further out, in October, there will be the Juvenile Diabetes bike-a-thon and the CROP walk. Both will need operators.

Announcements

Mike, KC2Q announced that he has flyers for the 2006 bus trip to Dayton. See him if interested.

Larry, KB2RIS said that there have been some troubles with ID badges. From now on, you must use the badge in order to retain it. If the badge is not used, it will not be renewed after 6 months.

OMARC is sponsoring a tailgate party on Saturday, June 11 at the Diana site. Entry is free for buyers and \$10 buys a tailgate spot.

Nena, N2WAY is looking for a base station.

Closing

Joe, KC2HWK won the main door prize. A World Radio subscription was won by Les, W2QHS. There being no further business, a motion was made by Nena, N2WAY and seconded by Peggy Struening to close the meeting, which passed unanimously. The meeting was adjourned at 9:00 PM.

FALL LAUNCH FOR "SUITSAT"

The Amateur Radio on the International Space Station (ARISS) US Team has delivered its hardware contribution to the "SuitSat" project to NASA's Johnson Space Center (JSC), where the ARISS-US Team had performed safety tests. If all goes according to plan, the ISS crew will deploy SuitSat--a surplus Russian Orlan spacesuit equipped with Amateur Radio gear, a DVD of school artwork and other experiments--this fall during a spacewalk. ARISS International Chair Frank Bauer, KA3HDO, said this week that NASA is in the process of shipping the ARISS-US hardware to Russia, where it will undergo final tests and certification and integration with ARISS-Russia's SuitSat gear. SuitSat will fly to the ISS aboard a Progress supply rocket in August or September.

"On behalf of the ARISS International team, I want to congratulate the SuitSat hardware development team for their 'can do' spirit and ability to deliver the SuitSat hardware on such a very challenging schedule," Bauer said. He pointed out that NASA only gave the okay on May 10 for the ARISS-US team to go forward with the SuitSat project.

"In the four short weeks since that letter was signed," Bauer said, "the US project team, has designed, built and tested a simple--yet fully featured--system that we hope will inspire hams and students around the world."

Bauer says SuitSat will beam down special messages and an SSTV image from within the Orlan spacesuit as it floats in space. "The SuitSat radio system will allow hams and students to track the suit and decode special international messages, spacesuit telemetry and a pre-programmed Slow Scan TV image through its specially built digital voice messaging system and Amateur Radio transmitter," he said this week. The ARISS-US Team expressed its appreciation to Kenwood for its

donation of--and assistance with--the radios that are embedded in the SuitSat system.

The brainchild of the ARISS-Russia team headed by Sergei Samburov, RV3DR--SuitSat will have transmit-only capability operating from the suit's battery power. The concept came in for extensive discussion during the joint AMSAT Symposium/ARISS International Partner meeting last October. "Since October the SuitSat design concept matured and evolved due to the challenging development time constraints," Bauer said. On the ARISS-Russia side, SuitSat is being led by Project Manager A. P. Alexandrov and Deputy Project Manager A. Poleshuk. Satellite veteran Lou McFadin, W5DID, is heading up the hardware development for the ARISS-US Team.

The SuitSat project has generated interest from several schools, which have contributed audio greetings in English, French, Spanish, German, Japanese and Russian for transmission from SuitSat. Students at a NASA Explorer School, Eastern Middle School in Silver Spring, Maryland, supplied the voice message for the US English contribution, Bauer said.

The ARISS-Russia team is building a launch container and has assembled systems consisting of a transmitter, digi-talker assembly, control box, dummy load, antenna cable and control cable. SuitSat's call sign, RSORS, and voice greetings--along with educational materials solicited from schools--have been burned into memory. Among other things, SuitSat will carry voice greetings to commemorate the 175th anniversary of Russia's Bauman Moscow State Technical University.

The SuitSat project already is attracting attention within the non-Amateur Radio world. ARRL Field and Educational Services Manager Rosalie White, K1STO--who's ARISS-International Secretary-Treasurer--already has fielded questions from a reporter for NewScientist.com, and news stories have surfaced on Space.com and on Greensboro, North Carolina, TV station WFMY.

Once deployed, SuitSat is expected to orbit the planet for several weeks before burning up when it enters Earth's atmosphere. A second Orlan space suit is expected to become available for possible deployment as a temporary satellite in 2007.

From *The ARRL Letter*, No. 24, June 17, 2005

W2GSA FIELD DAY

For the first time, W2GSA operated Field Day at the football stadium at Fort Monmouth under the able leadership of Jim Griffiths, K2EI and Rich Ardolino, K2CPE.

Jim planned and erected two impressive antennas at the site. To support these antennas, telescoping masts were installed at the top of the press box (33 feet high) and the top of the camera platform (30 feet high) directly across the field. This provided 60-65 foot support points at each end of the 50-yard line. Goal posts at each end of the field provided additional support points about 30 feet high. A giant loop antenna was supported by these four supports and was fed with open-wire line to our operating position located under the bleachers. With a balanced tuner, this antenna loaded up on all bands and worked very well.

A second antenna was installed between the press box support (65 feet) and a 70-foot tree off one corner of the field. This was a Carolina Windom fed with coax and also worked very well.

Although we operated with only one transmitter, we had two rigs at the site to provide back-up. Rich furnished his Elecraft K2, which worked very well and required very little battery power. Jim provided his Yaesu rig, which also worked well but had a current drain of about 2 amps during receive.

All rigs were operated off of 12-volt batteries, which were charged by an array of solar panels. Bob Ewing, WA4GWG lent us two 2-ampere solar panels. Jeff, N2LXM lent us a third panel good for nearly 3 amperes. With a total capacity of 7 amperes, we had enough capacity to charge all of our batteries during the day while still operating. At night, power was provided by a charged 100 amp-hour deep cycle marine battery. As it turned out, we had enough battery and solar capacity so that we could have easily run 100 watts on battery instead of QRP.

Running 5 watts PEP on SSB was a bit of a challenge for this station. Even with the fantastic antenna, we had trouble breaking pile-ups on SSB. Thus our SSB QSO rate was frustratingly low. The disadvantage of low power was not as significant on CW but, unfortunately, we had only a limited number of CW operators. In spite of all this, we all had a good time and are ready to do it again next year - only better.

ASLEEP AT THE SWITCH

By Bob Buus, W2OD

At around noon Sunday, Ray, W2NXG was operating K2USA having been up all night and having completed his magnificent salad to feed the volunteers at noon. I was logging while Ray was operating "search and pounce." I noticed that Ray's responses to the QRZ were slowing down to the extent that there was a second or two of delay before he hit the PTT switch and said "K2USA." Then the run station said "QRZ" and Ray didn't move. I looked over at him and feared that he might be having a stroke but then I heard a gentle snore in his breathing. Investigating further, I discovered that he was sound asleep!

Being ready for anything, and not wishing to jar Ray awake, I gently tiptoed out of studio 5 and went outside to my car to get a camera. When I got back to studio 5 with the camera, Ray was awake and again operating. I asked him how it was going and he said, "I'm getting a little bit sleepy." I then informed him that he had been asleep at the switch and we both had a good laugh over it. Since I had the camera in hand, I took this picture of Ray.



ROSTER CHANGE

Please add the following new member to the GSARA Roster:

KC2NZX, Steve Pizzo
1586 Marco Island Drive
Toms River, NJ 08753
732-914-8518
stevpiz@aol.com

FIELD DAY GREETINGS FROM BUSH

President George W. Bush has sent greetings from the White House to everyone participating in ARRL Field Day 2005.

"I send greetings to those celebrating the annual Field Day for Amateur Radio, hosted by the American Radio Relay League. Across our country, radio plays a vital role in relaying important information to the public and emergency service personnel in times of need," the president said.

"By providing emergency communications at the federal, state, and local level, licensed Amateur Radio operators help first responders and law enforcement officials save lives and make our country safer. Your efforts help ensure the right assistance gets to the right people at the right time. I appreciate all ham operators who give their time and energy to help make our citizens more secure. Your good work reflects the spirit of America and contributes to a culture of responsibility and citizenship that strengthens our nation. Laura and I send our best wishes."

An annual exercise aimed at developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio, ARRL Field Day takes place this year on Saturday and Sunday, June 25-26. Stations throughout the Americas may participate.

From *The ARRL Letter*, No. 25, June 24, 2005

TAKE YOUR HANDHELD TO WORK DAY

The Southeastern area of the country was the most active on June 21 as the very first "Take Your HT to Work Day" encouraged hams to share their enthusiasm with others during lunch hour. While it was impossible to cover all the repeaters, Echolink nodes and frequencies that might have been used, it's clear from a sampling taken from across the country that more than a few hams were "caught" doing something nice for Amateur Radio.

Thanks to all who participated for your efforts to promote Amateur Radio!

From *The ARRL Letter*, No. 25, June 24, 2005

W2UDT DONATES BOOKS

What do you do when your town gets a new library? ARRL Northern New Jersey Section Manager Bill Hudzik, W2UDT, donated a selection of ARRL books to the new Long Hill Township Library. At a fund-raising event, W2UDT learned from Library Director Arline Most that the library had no current books on Amateur Radio. So, when the new library was dedicated, Hudzik made sure that Amateur Radio was represented! The new Long Hill Township Library now has a selection including the ARRL Handbook, Morse code CD, licensing guides and a young reader's radio adventure book, among others. Hudzik says he can't think of a better way to promote the Amateur Radio service than to donate reading material to the local library. "I got started in Amateur Radio at my library, and I hope other young readers in Long Hill will follow," he said.

From *The ARRL Letter*, No. 25, June 24, 2005

ARRL WARNS AGAINST VIRUS

Some ARRL members have recently reported receiving e-mail messages that purport to be from ARRL. These messages suggest that the recipient's account has been used to send "a large amount of unsolicited commercial e-mail," that their password has been changed or some other action was going to be taken regarding their arrl.net "account." The e-mail may be signed by "The ARRL Support team" or "The arrl.net team." Some messages also may show up as e-mail bounces from "Postmaster" or "Mail Administrator." These messages, which include a file attachment, are bogus. They do not originate from ARRL, and recipients of such messages should never attempt to open the attached file. Outside of routine correspondence, the ARRL only sends e-mail to members who specifically request mailings, such as WIAW bulletins and The ARRL Letter. Opening the attached file on one of these spurious messages could unleash a nasty computer virus. As a defense against these kinds of viruses, ARRL strongly recommends installing virus-protection software on all personal computers and updating virus definitions on a regular basis.

From *The ARRL Letter*, No. 24, June 17, 2005

WELCOME NEW MEMBER

Please welcome the newest member of GSARA. He is Steve Pizzo, KC2NZX from Toms River. Steve is an engineer who recently acquired his Technician license and is becoming active on VHF and UHF using a Yaesu 817. He is interested in both phone and APRS. Besides amateur radio, Steve is interested in cars and computers. Welcome to GSARA, Steve!

HAM TESTIFIES FROM SPACE

NASA International Space Station Science Officer John Phillips, KE5DRY, made history June 14 by becoming the first person to testify before Congress while in orbit. The Expedition 11 flight engineer appeared via satellite before the House Science Committee's Subcommittee on Space and Aeronautics, chaired by Rep Ken Calvert (R-CA). Phillips answered questions from subcommittee members about what it's like to live and work in space, focusing on the space station's role in preparing humans for longer-duration missions outlined in NASA's Vision for Space Exploration.

"We constantly learn new lessons up here," Phillips said, while traveling through space at five miles per second. "The experiences we gather will enable us to establish a long-term station on the moon and to go on to Mars."

Two other astronauts, Peggy Whitson, KC5ZTD--who served on the ISS Expedition 5 crew in 2002, and Expedition 9 crew member Mike Fincke, KE5AIT, testified in person before the subcommittee.

For most of the lawmakers, their interview of Phillips marked their first opportunity to speak directly with a space traveler on orbit. In response to members' questions, Phillips talked about the tremendous view from 220 miles up, floated around the ISS and talked about the hard work he's doing.

"The most important thing up here is that we *are* the experiment; we are learning how to fly in space," Phillips told the subcommittee.

For more information about the ISS, visit the NASA Space Station Web site <>--NASA

From *The ARRL Letter*, No. 25, June 24, 2005

AREA AMATEUR EXAM SESSIONS

Amateur radio exam sessions that are given in the central New Jersey area are as follows but please contact the responsible person to be sure that the time and date are accurate.

Wall Township, Camp Evans Area on Marconi Road: The first Saturday of the even numbered months (August 6, 2005) at 10 AM. Contact person is Larry Wilkins, KB2RIS at 732-922-6720 or e-mail to kb2ris@wmconnect.com.

South Brunswick at Kendall Park First Aid: The first Tuesday of every month at 7:30 PM. Contact person is Brian Boccardi, N2MPM at 732-398-1675 or boccardi@nbc.rutgers.edu.

Middletown, Croyden Hall on Leonardo Road: The second Tuesday of every month at 7 PM. Contact person is Rich Evans, KB2MUN at 732-471-0237 (evenings).

Toms River, Riverview Park Recreation Building: The third Thursday of every month at 7:30 PM. Contact person is Ed Genoino, WA2NDA at 609-971-2792 or e-mail to wa2nda@aol.com.

Toms River, Holiday City South Clubhouse, Meeting Room #1, Mule Road at the corner of Santiago Drive on the second Saturday of the odd numbered months (July 9, 2005) at 10:00 AM. Contact person is Bill Haldane AC2F, 732-240-7064 or ac2f@earthlink.net

In all cases, the fee is \$14 and you should bring the original and a copy of any amateur license presently held and original and one copy of any credit (CSCE) forms you have. Also bring 2 forms of ID with one being a picture ID and/or birth certificate.

HOW TYPOS GET THROUGH

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TI's JACK KILBY, EX-W9GTY, SK

Jack St Clair Kilby, who held the call sign W9GTY in the 1930s and 1940s, died in Dallas June 20 at age 81. He was awarded the Nobel Prize in Physics in 2000 for his part in the invention of the first monolithic integrated circuit.

A native of Great Bend, Kansas, Kilby has been credited with making the Information Age possible.

He became interested in Amateur Radio after a severe ice storm crippled Western Kansas in 1937.

Following college and a stint in the Army, Kilby went to work on the transistor for Centralab in Milwaukee. In 1958, he moved to Dallas to work for Texas Instruments, where he came upon the idea of creating the integrated circuit. By 1960 the first chips were made available to industry, and the age of microelectronics was upon us.

For those wishing to make a memorial contribution, the family has identified the following: The Jack Kilby Fund in Electrical and Computer Engineering, the University of Illinois Foundation, Harker Hall, 1305 West Green, Urbana, Illinois 61801; and The Great Bend Foundation (Jack Kilby Statue Fund), PO Drawer E, Great Bend, KS 67530.

From The ARRL Letter, No. 25, June 24, 2005

TEN-TEC's AL KAHN, K4FW, SK

Albert R. "Al" Kahn, K4FW, of Cassopolis, Michigan, died June 15. He was 98. An ARRL member, Kahn--with Jack Burchfield, K4JU, co-founded Ten-Tec following his retirement from Electro-Voice (E-V), which he'd also founded and served as president. Kahn continued his regular CW schedules until just a few days before he died.

"It's a sad day, but few of us will leave the sort of footprints that Al did during his long and productive life," remarked ARRL CEO David Sumner, K1ZZ. Ten-Tec, on its Web site, acknowledged Kahn's passing "with the deepest regret." Kahn had remained a member of Ten-Tec's Board of Directors.

Kahn's daughter Carol Bieneman says that radio and sound communication fascinated her father from childhood. "At age 12 he joined a Boy Scout troop and was sent home with a radio to repair," she

recounts. "This was the start of his lifelong passion for radio."

Born in LaSalle, Illinois, Kahn moved as a child to South Bend, Indiana. He became licensed there in 1921 as 9BBI and later held W8DUS in Michigan. As Burchfield tells it, Kahn (with Lou Burroughs, a local machinist) in 1927 started a radio service shop in South Bend. Legendary Notre Dame football coach Knute Rockne needed a public address system to amplify his voice during practice sessions, and he came to Kahn for help.

Most microphones of the day were carbon-button types, but Kahn constructed a superior velocity--or ribbon--microphone and put together a PA system that Rockne called his "electric voice." In 1930, Kahn and Burroughs adopted the name Electro-Voice for the business and began making velocity microphones, which they also supplied to the military during World War II. During the war, Kahn invented and patented a noise-canceling microphone and marketed it successfully to the military. The design is still in use.

E-V added "high-fidelity" equipment and speakers to its product line, and, in 1960, the company built two plants in Tennessee and shifted operations there from the Midwest. Kahn was president of E-V until 1969 when it merged with Gulston Industries. After departing E-V, Kahn and Burchfield founded equipment manufacturer Ten-Tec, now in its 37th year of manufacturing HF radio equipment for Amateur Radio, commercial, and military applications.

Kahn accumulated many honors over his more than eight decades as a radio amateur and industry figure. He was inducted into the CQ Amateur Radio Hall of Fame and was a member of the First-Class CW Operators Club (FOC), the Old Old Timer's Club, the Quarter Century Wireless Association (QCWA), and the A-1 Operator Club. In 2002, the QCWA honored Kahn on his 80th anniversary as an amateur licensee. He also received an Army/Navy "E" Award in 1945 for supplying the War Department with thousands of microphones during World War II. The Boy Scouts of America presented Kahn with its Silver Beaver Award for staffing Amateur Radio stations at international scout jamborees. --Some information from the N9VV Ten-Tec History Web page

From The ARRL Letter, No. 25, June 24, 2005

NOTES ON CALENDAR (see reverse side)

Large call letters denote birthdays e.g., **K2YWI** on July 1. All times in EDST

June 30-July 1 - **Canada Day Contest**, CW/Phone from 8 PM Thursday to 7:59 PM Friday. See or July QST, p. 104.

July 1 and every Friday - **Lunch at Blue Swan Diner**, Rt. 35 South, Ocean Township at noon.

July 3 and every following Sunday - **QCWA News Net** on W2NJR Linked Repeater System at 8:30 PM.

July 4 - **Independence Day Holiday**.

July 5 - **Middletown Pancake House Luncheon** at noon in Middletown. Back room on left.

July 5- **Old Barney ARC Meeting**, 7:30 PM at Ocean Acres Community Center in Manahawkin, NJ. See

July 5 and every following Tuesday - **QCWA News Net** on 147.045 PL=67 at 9:00 PM.

July 6 - **GSARA Monthly Meeting** at the MARS Building at Fort Monmouth at 8:00 PM.

July 6 - **W1AW Qualifying Run** at 10 PM (35-10 QRSR). See July QST, pp. 92 and 104.

July 7 - **Holiday City ARC meeting** at 7 PM at Holiday City South Clubhouse in Toms River.

July 7 and every Thursday - **MCRA Net** at 7:30 PM on 147.045 repeater.

July 9 - **OMARC Meeting**, 8:30 AM at Bedrock Diner, 10 Main St., Bradley Beach.

July 9-10 - **IARU HF World Championship** from 8 AM Sat. to 8 AM Sunday. See or April QST, p. 102.

July 10 - **Sussex County NJ Hamfest** from 8 AM to 4 PM. See or June QST, p. 91.

July 10 - **FISTS Summer Sprint**, CW from 1 to 5 PM. See or Feb. QST, p. 102.

July 11 - **Monmouth County RACES** on 147.045 +600 at 7:30 PM. RACES members only.

July 12 - **Annual Colts Neck Inn Luncheon** in Colts Neck at noon. All amateurs and guests welcome.

July 12 - **VE Test Session** at Croyden Hall, Leonardo section of Middletown at 7:00 PM. For more information, contact Rich Evans, KB2MUN at 732-471-0237 (evenings).

July 14 - **Jersey Shore Amateur Radio Society (JSARS)** meeting in Riverview Park Recreation Building, Rt. 527 and Riverwood Drive in Toms River at 7:30 PM.

July 16-17 - **North American RTTY QSO Party** from 2 PM Sat. to 2 AM Sunday. See or July QST, p. 104.

July 16-17 - **CQ WW VHF Contest**, all modes 50 and 144 MHz bands from 2 PM Sat. to 5 PM Sunday. See or July QST, p. 104.

July 18 - **Monmouth County ARES Net** meets on 147.045 +600 at 7:30 PM.

July 19 - **Middletown Amateur Radio Club meeting** at 8 PM in Croyden Hall off Leonardville Road.

July 21 - **JSARS VE Test Session** at 7:30 PM Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino. WA2NDA at 609-971-2792 or wa2nda@aol.com.

July 22 - **W1AW Qualifying Run** at 9 AM (10- 35 WPM). See July QST, pp. 92 and 104.

July 23 - **Neptune ARC Meeting** at Bedrock Café in Bradley Beach at 9 AM.

July 25 - **Buttonwood Manor Lunch** at noon. Raritan Bay Amateurs. All are welcome.

July 25 - **JCDXA meeting** at 7:30 PM (6:30 for dining) at the Cobblestone Diner on Rt. 35 in Eatontown.

July 25 - **Monmouth County RACES** on 147.045 +600 at 7:30 PM. RACES members only to participate.

July 30-31 - **RSGB IOTA Contest**, CW/SSB from 8 AM Sat. to 8 AM Sunday. See or July QST, p. 104.

UPCOMING PUBLIC SERVICE EVENTS

Date	Event	Location	Contact
Oct. ??	Juvenile Diabetes Bike-a-thon	??	N2VFK
Oct. 16	CROP Walk	Red Bank Area	N2VFK

Contact Tom Cosgrove, N2VFK at 732-842-6020 (work), 732-747-3096 (home) or 732-778-4372 (cell).

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				30 Canada Day	1 K2YWI WB2BSJ Canada Day Blue Swan	2
3 QCWA News 8:30 P	4 Holiday	5 Mdtlwn Pncke Old Barney ARC QCWA News 9 PM	6 GSARA Mtg. CW Qual. Run	7 Hol. City Mtg. MCRA Net 8:00	8 K2QXW Blue Swan	9 OMARC Mtg. IARU HF
10 Sussex Hmfst IARU HF FISTS Sprint QCWA News 8:30 P	11 RACES Net	12 Colts Neck Inn Croyden VE 7 PM QCWA News 9 PM	13	14 JSARS Mtg. MCRA Net 8:00	15 Blue Swan	16 N.A. RTTY CQ WW VHF
17 N.A. RTTY CQ WW VHF QCWA News 8:30 P	18 N2IXO ARES/RACES 7:30	19 MARC Mtg. QCWA News 9 PM	20	21 JSARS VE MCRA Net 8:00	22 CW Qual. Run Blue Swan	23 Neptune Mtg.
24 QCWA News 8:30 P	25 Buttonwod Mnr. JCDXA Mtg. RACES Net	26 QCWA News 9 PM	27	28 MCRA Net 8:00	29 Blue Swan	30 RSGB IOTA
31 RSGB IOTA QCWA News 8:30 P						



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FIRST CLASS