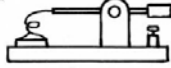


Spark-Gap Times



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The Old Old Timers Club



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DIST. 0 Leo I. Meyerson, W0GFQ #0707
SILENT KEY 4/13/2011 AGE 100, need volunteer.
***Replaced SK Jerry Mulberg W2MJJP**
****Replaced SK David Knight W4ZJY**
*****Replaced Paul Gerbracht SK8/13/2011**

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Information contained in articles printed in Spark-Gap Times does not necessarily represent the views of the Old Old Timers Club or the officers or Directors of the Old Old Timers Club.

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ACTIVITIES - Mark Titterington W1EOF
 w1eof@hamnutz.com

REGISTERED AGENT RHODE ISLAND
 Janice Lentz K4IJK

We honor these Silent Keys for their contribution to OOTC.

Earl E. Cline #0061 exW4PPZ
 Treasurer 1953-1958
 Secretary 1956-1957
 President 1959-1963

Raymond E. Meyers #0188 exW6MLZ
 Treasurer 1970-76 Secretary 1970-1978
 President 1979-1984

Leland E. Smith #1214 exW5KL
 President 1994-2004

L. F. "Ted" Heithecker #1263 exW5EJ
 President 1987-1990
 Secretary 1991-1993

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ODD NUMBER DISTRICT DIRECTORS SERVE 2 YEARS 2011 & 2012

1 CT, MA, ME, NH, RI, VT	MORTON BARDFIELD, W1UQ, #3027
3 DC, DE, MD, PA	HENRY SCHULTZ, WI3U, #2717
PAUL GERBRACHT, W3QPP, #2850, RETIRED AFTER 18 YEARS SERVICE TO OOTC.	
5 AR, LA, MS, NM, OK, TX	CHARLES STANTON, W5LBU, #3409
7 AK, AZ, ID, MT, NV, OR, UT, WA, WY	FRANK PISKUR, K7FP, #3628
9 IL, IN, WI	JOE SCHROEDER, W9JUV, #2967

THESE EVEN NUMBER DISTRICT DIRECTORS SERVED 2010 & 2011.
NO NOMINATIONS TO SERVE 2012 & 2013 WERE RECEIVED.
THEREFOR, THESE DIRECTORS CONTINUE IN OFFICE FOR 2012 & 2013.

2 NJ-NY.	GUS LEVY, W2LAP, #4094.
4 AL-FL-GA-KY-NC-SC-TN-VA-PUERTO RICO	DONALD TRAYES, WN3USA, #4544
6 CA-HI.	LEE R. WICAL, KH6BZF, #4444
8 MI-OH-WV.	JOSEPH WEHNER, W8KNO, #4030.
0 CO-IA-KS-MN-MO-NE-ND-SD. W0GFQ	Silent key, need volunteer for DISTRICT 0.

OOTC ON THE AIR MEETINGS

EUROPEAN CHAPTER #5 CALL IS DL00TC

SSB 7:30 CE(S)T 3624 kHz, Tue, NCS DJ5ND, Willi Kreibohm SK,
temporary NCS Guenter Pesch DJ2XB.

SSB 11:00 CE(S)T 7090 kHz, Tue, NCS DJ2XB, Guenter Pesch.

CW 17:30 UTC 3576,5 kHz, Tue, NCS DL1MEB, Karl Maerz.

CE(S)T = Central European (Summer) Time = UTC + 1(2).

Chapter #1 - New Orleans LA no report

Chapter #2 - CA - Tuesday, 1600 local 3918kHz. NCS W6HV, Troy Wideman.

Chapter #6 - Lansing, MI no report

Chapter #16 - AZ: Tuesday, 1600 local, 3913 kHz. NCS W7LGB, Lyle Brow

Chapter #82 - (N.East) TN & SW. VA. Sun, 9:00PM E. 145.110mHz. down shift
Thursday, 1330 local, 7230 kHz. NCS K2VNM, Robert Kerns.

OOTC get-to-gether Frequency 14047 kHz. Fridays, 1700 UTC
--

SUPPLIES AVAILABLE –includes postage.

OOTC BADGE \$10.00 - \$11.00 - \$11.00 - \$12.00, picture pg 14, order pg 26.

OOTC 4"Dia. Jacket patch Round (Iron-on) \$5.. (sew-on) \$4..picture pg 14.

Free gold 1" stamps glue back, sheets of 63, send S.A.S.E.

Replacement pins 40year(no number), 50year, 60year, 70year, \$3.50,

80 year pin is free. Request if eligible, picture pg 14.

Send U.S. Check, U.S. currency to: OOTC 3191 Darvany Dr., Dallas, TX 75220-1611
(credit cards not accepted)

NEW MEMBER JOHN E OWINGS, K4LSX, #4604 . See Photo pg 14

Born May 20, 1942, Memphis, TN. Spouse Gail, 2 children. Navy 1960-63 AT1(AC). I was first licensed as KN4LSX in 1956. Upgraded to General as K4LSX at end of one year as Novice. BSEE degree from Christian Brothers University in Memphis TN. Grad School in EE at Northeastern Univ. in Boston. Also hold FCC General Radiotelephone License with Ship Radar. Served in US Navy as 1st. Radio (it was all CW then!), Radar and Julie Op. on Lockheed Neptune SP2 ASW a/c. Participated in Cuban Quarantine with Patrol Squadron 26 based at NAS Brunswick, Maine. Ultimate rank AT1(AC). Left Memphis "forever" after college. Living in New England since. Worked for Raytheon and TRW Systems Group in microwave communications. Then for a short while writing modeling software for engineers with no computer literacy (pre PC days). Upgraded to Extra in mid/late 60s. Also held call signs WA1IKG & N1RR ultimately returning to original call sign - K4LSX. Also operate from our camp in N. Maine as K4LSX/1. Other than Ham Radio, interests are fishing, hunting, hiking, motorcycles and spending as much time as possible with my wonderful XYL at our camp in Maine and riding our BMW motorbike together. We have two grown children and four grandchildren. Our son is a new ham - KB1VUZ.

Member of ARRL, SOWP, QCWA, FISTS, Masons, Navy Amateur Radio Club (K4NAR #730), Scottish Rite, Shriners and Rotary International. 73, John p2vradioguy@gmail.com

NEW MEMBER JOHN COVINGTON, W4HC, #4605

Born March 9, 1961, Fayetteville, NC. WN4BRJ-1961, WB4CCL. I became interested in Amateur Radio by watching my grandfather (K4CHU) operate his station. Earned my novice at age 11 and have been active ever since. I teach electronics at ECPI University of Charlotte, and am working on my PH.D at UNC-Charlotte. Ham radio has motivated me to be a lifelong learner. I served as ARRL North Carolina Section Manager from 2000 to 2006 and remain active in many areas of the hobby. w4cc@arrl.org

NEW MEMBER DENNIS G MORIN, WD9GYW, #4606

Born December 30, 1948, Lowell, MA. 1st wireless U. S. Army 1961-1971 E-3. WN9SFX-1974

NEW MEMBER JOSEPH LEE PONTEK, SR., K8JP/V31JP, #4607

Born July 28, 1943, Lansing, MI. Spouse Ronnie(Rowena), 10 children, 10 grand children, 4 great grand children. 1st wireless KN8HKM 1957 having turned 14 years old. I passed general K8HKM in Detroit under the watchful eye of Dick "Crab" Cotton W8DX (OOTC#1613). In 1968 I passed my Advanced after failing the Extra code receiving test. I found I could not push the stick at 20 WPM even though I copied solid in my head.

I spent the mandatory month of waiting writing every bit of CW I copied using a, not very fast, ball point pen. In January 1976, I became K8JP or K8Joe "Palooka." I have been K8JP/VE3, /VE2 & /VA2. I have been VP5/K8JP and VP5JP from the Turks & Caicos Islands. In 1957, I became V31JP here in Belize.

I have over the years operated about every mode, but CW is my love and about the only mode I use these days.

My current station in Texas when I go up for VA hospital appointments is an OMNI VI with fan dipoles. I have a Winkeyer USB with Kent iambic paddles and a 1991 Vibroplex original.

At home in Belize, I have an IC765, various wire antennas, a Winkeyer USB and Jones Key paddles. I also have 1912, 1952 & 2005 Vibroplex originals, a 1955 Vibroplex Blue Racer Deluxe. I will soon be adding a 1928 nickel plated Vibroplex Lightning (waiting for me in Texas) and a 1936 Vibroplex Junior, on its way from the UK. I recently acquired a non-functioning Dentron GLS1000B that I will upgrade to use a 6I7B tube and, maybe, add 160 meters to it. If I can build back my house that burned to the ground four years ago, I have a 3 element 40 meter antenna and a 30 meter through 10 meter LPDA to use again.

I am retired, more or less, at 68 though I do operate a small tool repair and tool rental shop here in Belize and am raising our 8 and 4-year old sons. I have been getting into restoring old speed keys. I worked mainly as an electronics technician or in technical management. I worked for IBM, Xerox, Motorola and MobileComm over the years and some smaller companies including one of my own. I am the editor for the FOC monthly 'News Sheet' and their quarterly magazine, 'FOCUS.' I keep busy.

k8jp@arrl.net v31jp@netzero.com

END MAN-MADE NOISE WITH THE NC

by Fred Brown, W6HPH

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Noise is the enemy of radio communication. Even at UHF it is now possible to make almost noiseless receivers. So most of our noise comes in from the antenna, whether atmospheric, cosmic or human in origin.

Local man-made noise can be completely canceled with the noise canceller (NC). Its principle can be understood from Fig. 1. The noise antenna is positioned to pick up as much noise and as little signal as possible. Usually a ground mounted quarter-wave vertical is the best noise antenna. The noise is applied to a variable phase-shift network, amplified, and fed to the receiver input through a variable resistor, R. If R is large compared to 50 ohms little signal energy from the main antenna will be lost in it.

If noise from the NC is applied to the receiver input, equal in amplitude but 180 degrees out of phase with noise from the main antenna, complete cancelation is possible. It is necessary that the noise source be fixed, however. The NC will not work on noise from passing vehicles, noise from distant thunder storms and similar sources.

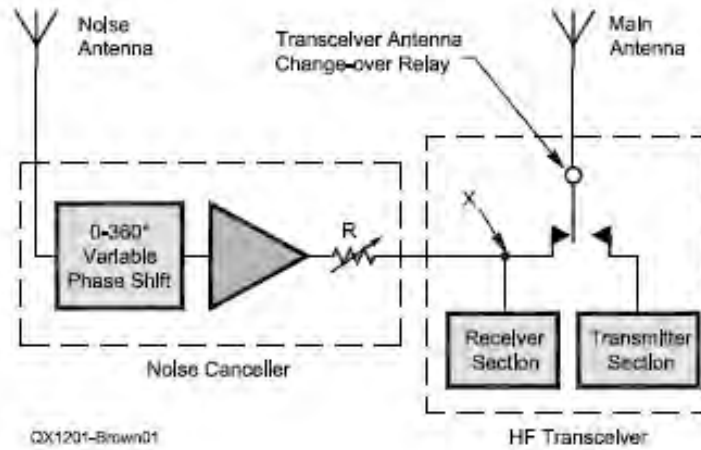


Figure 1 — This block diagram shows how the Noise Canceller can be connected to an HF transceiver, so that it will not affect transceiver performance. A connection is made to the receiver circuit inside the transceiver at the point marked with an X on this diagram.

The RC Phase Controller

The RC phase controller shown in Fig.2 is basic to the NC. With this arrangement, you can achieve a range of phase control of more than 90 degrees by means of the variable resistor. With proper choice of component values there will be little change in amplitude throughout the control range. Two of these circuits cascaded will give more than 180

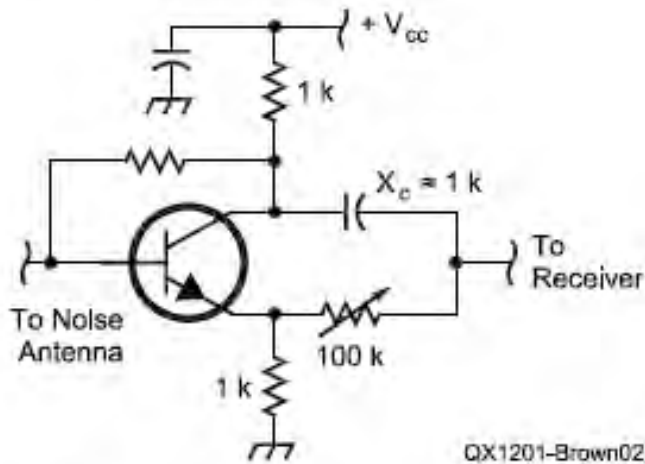
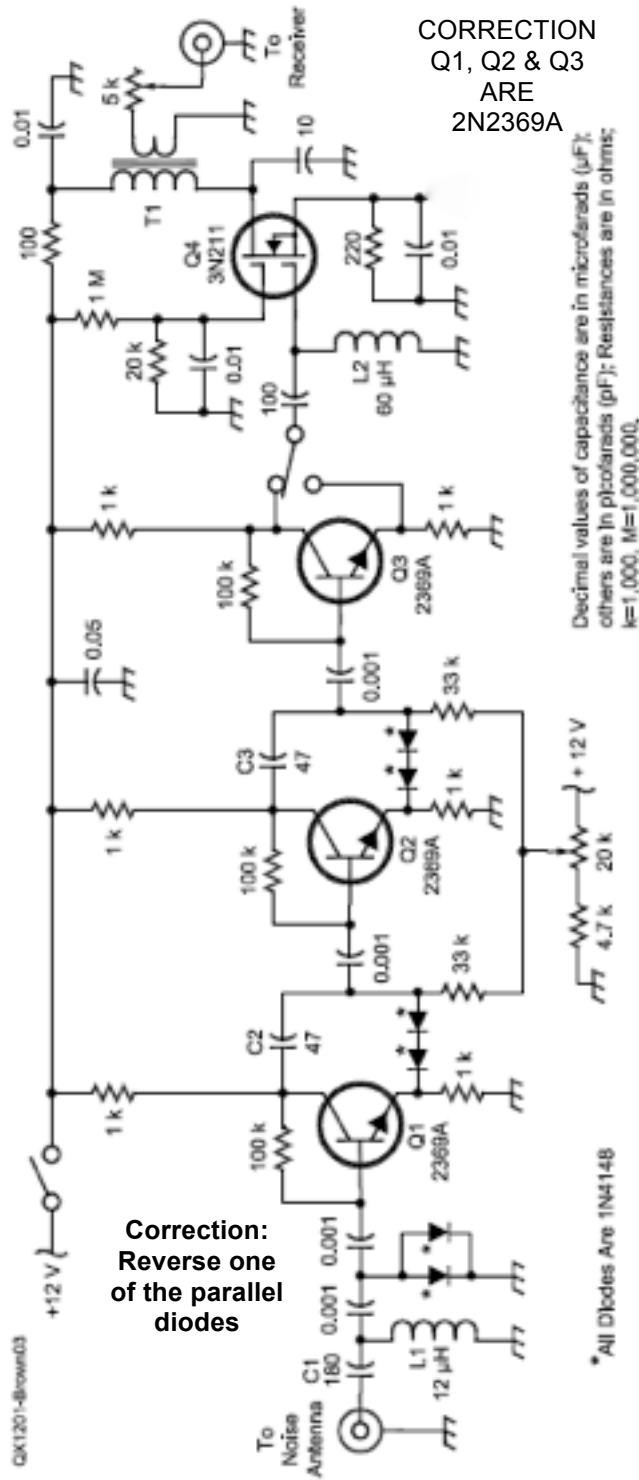


Figure 2 — The variable resistor provides more than 90° of phase control, with very little change in amplitude.

degrees of phase control, and if used in conjunction with a phase splitter, you can achieve a full 360 degrees of control.



<< Figure 3 – Here is the complete schematic diagram of a 75 m version of a Noise Controller. All diodes are 1N4148. T1 is an 80 uH toroid, with a 20 turn primary and a 2 turn secondary. Other bands will require changes in the values of C1, C2, C3, L1, L2 and T1.

75 Meter Version

Figure 3 shows a 75 meter version of the NC. The variable resistor of Fig. 2 is provided by the series-connected diodes on the emitters of Q1 and Q2. Noise from the noise antenna first passes through the high-pass filter of C1 and L1. This combination also provides an impedance transformation from 50 ohm to the 5000 ohm input impedance of Q1. The back-to-back connected diodes provide some protection from your transmitted RF. A choice of either zero or 180 degree phase shift is provided by the switch on the phase splitter, Q3.

Amplification is provided by the dual-gate MOSFET, Q4. The 60 uH inductor resonates with the input capacitance of Q4, so there will be no amplitude change when switching between the Q3 emitter and collector.

Other Options

There are numerous other possibilities. You could replace the diodes on the emitters of Q1 and Q2 with a dual potentiometer. You could also replace capacitors C2 and C3 with varactor diodes.

It should be possible to make a multi-band version of the NC. My experiments with a 20 meter version showed that the phase shifter network would also work on 80 and 40. So you could have 80, 40, and 20 meter with fixed values of C2 and C3. The 20-meter version required that C2 and C3 be reduced to 12 pF. I also found that it was necessary to reduce the 1k emitter resistors on Q1 and Q2 to 470 ohms to maintain reasonably constant amplitude across the phase control range. Of course I also had to change C1, L1, L2, and T1. The phase shift part of the 75-meter version worked on 160 but not on 40 meters.

A multi-band version would require that the input circuit, C1 and L1, be replaced by a high-pass filter to keep out AM broadcast stations. The tuned output amplifier would also need to be replaced with a high input impedance wide band amplifier. You can easily check the performance of the phase shift network with a dual-trace scope and a signal generator. Be sure to keep the input below 10 mV so the diodes will not be driven into non-linear operation.

Operating Instructions

Some modern transceivers have a separate receive antenna input, to which the NC could be connected. If your transceiver does not have this feature it will be necessary to connect to the antenna input of your transceiver, shown as point X on figure 1. Usually there will be an unused pin on the accessory socket, which will permit a no-holes modification. If there is no unused pin, there will often be a connection for some function you are not using that can be disconnected to free up a pin for the NC. The accessory socket will also usually provide a ground connection and +12 volts to power the NC.

With the NC disconnected or turned off, first note the level of noise coming from the main antenna as indicated on the S-meter. (Of course this is with the receiver tuned to a quiet part of the band, free of signals.) Now replace the main antenna with a 50 ohm resistor and connect the NC. Set the noise from the NC to the same S-meter reading. Then reconnect the main antenna and search for a null with the phasing control. If no reduction in noise occurs, flip the phase reversal switch and search again. When the point of minimum noise is found, alternately adjust the amplitude and phase control until the noise is completely wiped out.

NEW MEMBER STANLEY M. ROSS, K5VR, #4608

Born March 9, 1957 Van Buren, AR. Spouse Linda K5LIN, 2 children. Sponsor is K5ALU OOTC #3870. WN5FMK-1971, 1st QSO on 40m CW with WN4WFT, using a Heathkit HW-16 crystal controlled. My "elmer" was my grandfather, K5VRC (SK 1972). He was licensed in 1959 when I was 2 years old. I grew up playing with his radio and test equipment in his shack and radio/TV repair shop. Finally got my own license in 1971 as WN5FMK. He became SK in 1972 just before I passed my General. Some of my fondest childhood were those times tinkering with radios with my grandfather in his ham shack. Have enjoyed the hobby, especially CW, ever since. Obtained K5VR in his memory in '77 since K5VRC wasn't available at the time (1977) when I passed the Extra. k5vr@arrl.net

NEW MEMBER PAUL A. LUNDY, W0PAL, #4609 w0pal@arri.net

Born August 30, 1944 Sioux Falls, SD. Spouse Mary Ann, 2 children. ARRL off and on since 1957; Diamond Club since 2007. Rag Chewers Club (1958). Appointments; Appt. EC Potter Co SD 11/26/59; IOWA PAM 1 Jan 73 to 1978; Asst. EC Story Co. IA 8/12/87 to 1989. Awards: 50 year continuous licensed 2012; 55 year certificate QCWA 2012; WAS January 1971; PSA(1) 3/73; PSA(2) 10/79 (Pope JP II visit); Red Cross Commo Award August 1993. Other memberships: Sioux Valley ARC 1960; SD Section Net 1961-62; Story County ARC off and on 1969-present; Amateur Weather Observers Network of Iowa (AWONI). 1966; Navy/Marine Corps MARS 1971-73; Breakfast Club #883 Oct. 1969 – present. Professional: BS Engineering, (Geol. Engr.) 1967 South Dakota School of Mines and Tech. Commissioned 2LT. January 1967. Served US Army/Army Reserve 1967-1987 Ret. Major Dec. 1987. Licensed Professional Engineer 1971-present. Retired State of Iowa 2004. Graduated certificate in Diaconal Studies 2004 Garrett Evangelical/Theological Seminary. Diaconal Minister, United Methodist Church 2004-present. Retired Friendship Ark Homes (Residence environment for adults w/intellectual disabilities) October 2011.

NEW MEMBER RAYMOND G. SMITH, WB4ZDU, 4610

Born November 17, 1951 in Louisville, KY. Spouse Susan. WB4ZDU-1972. I have been an attorney in Louisville, Kentucky since October 1977. Since September 1, 1978, I have practiced law with the firm of Boehl, Stopher & Graves, L.L.P.

I was first licensed (General Class) on March 14, 1972. I operate all HF bands and 2 meters. Equipment includes: Yaesu FT-1000D, Drake R-4B and T-4XB (my original radios), Johnson Valiant II, Ranger II, and MLA-2500 amplifier.

I operate CW the majority of the time using a McElroy Mac-Key and a Burnell straight key. I have participated in NCS for about 35 years. I am currently net control station on KYN on Tuesday evenings, and also QNI 9RN. I enjoy DXing and occasionally participate in either a dx contest or a 160 meter contest.

Awards include WAC, DXCC (all CW), WAS, & A-1 operators club.

Memberships include ARRL, QCWA, FISTS and SKCC.

Other hobbies include golf. **wb4zdu@aol.com**

From DAVE BELL W6AQ #3354 DBellW6AQ@aol.com

If I have a claim to fame in amateur radio, it's probably that I produced the first television documentary about ham radio that got worldwide distribution. And then I made several others before I "retired" from the ham radio film/video hobby-within-a-hobby and got to making a living producing TV Movies, specials, documentaries for all of the networks including HBO and TV series and a few theatrical feature films.

One of my TV Movies won an EMMY as best movie, and also a Peabody. My docs have won numerous film festival awards. Hey, if you don't blow your own horn, who's gonna? Some of the ham radio films were titled THE HAMS WIDE WORLD, THE WORLD OF AMATEUR RADIO. THIS IS HAM RADIO and MOVING UP TO AMATEUR RADIO (for CBers during that craze). In 2011 the ARRL will have all of the preceding films

plus AMATEUR RADIO TODAY and the original B&W live television show also entitled THE HAM'S WIDE WORLD on one DVD. Now there will be a nostalgia trip. I've also helped Bill Pasternak, WA6ITF and the late Roy Neal, K60UE, with a couple of their ham films. Most recently in 2002 I officially came out of ham-radio-film retirement to direct AMATEUR RADIO TODAY, a 6 minute video about emergency preparedness which is downloadable from the ARRL Website.

I hear it's been downloaded about 20,000 times, which is great. It is narrated by Walter Cronkite, KB2GSD, (who was a very nice guy, incidentally and more than just casually interested in amateur radio) written by Alan Kaul, W6RCI, produced by Bill Pasternak, WA6ITF. and Bill Baker, W1BKR, and edited by Keith Glispie, WA6TFD.

I'm the former chairman of the ARRL's PR Committee and a fairly frequent speaker at ham radio gatherings, and have MC'd many of the International DX Convention banquets for the Southern California DX Club of which I'm a past president. As a result of my MCing and other activities on their behalf, the SCDXC made me DXer of the Year in '84. For my films and general ham radio boosterism, I received the Ham of the Year award at the Dayton Hamvention, also in 84. In 2003 the ARRL gave me their first Lifetime Achievement Award, for my work on films and videos about amateur radio.

While I've not totally retired, I've slowed my career down a bit and even bought a video camera with the vague notion of making a film about WRTC 2000 in Slovenia, which I did. It's called THE HAM RADIO OLYMPICS and the DVD is available from the ARRL and The Northern California DX Foundation. At the formidable urging of Martti Laine, OH2BH (ootc #4289), I shot most of the WRTC 2002 video in Finland. The finished production is available from James, 9V1YC and he did a great job on it.

Oh, yes. I'm also a contester albeit a casual one, and have recently rediscovered VHF UHF weak signal work (though as a low band DXer and contester the thought of being a "weak signal" doesn't sit quite right), but I didn't come up with that moniker. It just comes with the territory.

Since 2001 was my 50th anniversary as a ham, I celebrated by going to E. Malaysia where I was 9M6AQT and 9M6V during the ARRL DX CW contest and in 2003 I was ZK1SSB in the CQWW DX Phone contest with my pal Don Lisle, K61PV who also went to Malaysia with me. I'm going to head out on another DXpedition or two if I can get my act together and the creeks don't rise.

Lately I've gotten into QRP contesting with my Elecraft K3. QRP is a bit frustrating now and then, but a lot of fun. Satellites are next for me. It's a great hobby, isn't it?

Oh, yes. I'm also writing a book about my ham radio experiences, including my visits to film King Hussein of Jordan, JYI, and the Honorable Barry Goldwater, K7UGA. The book is at www.WorldsBestHobby.com and each chapter appears as I get it finished.

**THE INCOMPARABLE FRED LINK. OOTC #1377 Spark Opr. 30V-1919 SK6/18/1998.
SUBMITTED BY G. MAX BLOODWORTH. KO4TV. #3763.**

Few people in the history of land mobile radio have contributed as much to the art as Fred M. Link, N2ALU. Fred, and his associate engineer, Fred Budelman, designed and built F-M equipment for the military, including the famous BC-603/604 series "Push-button" F-M radios used in army tanks and support vehicles. After WW-2, Fred designed and

manufactured the legendary 35-UFM transmitter and UF receiver combo that was used by countless police, public safety and utility services. The later versions of this equipment utilized "Loctal" tubes in all stages except the final Amplifier, which used the old "workhorse" 807. The transmitters were powered by 6-volt dynamotors, and the receivers by synchronous vibrator power supplies. In addition, Link manufactured base station equipment, ranging from 50 watts to 3 kilowatts. Fred was an early member of the Radio Club of America, and was a contemporary of Lee De Forest, Allen B. Dumont and Col. Edwin Armstrong. He was also an accomplished Raconteur, and frequently entertained attentive audiences with his tales of the early days of wireless, including how he often "loaned" Lee De Forest 5¢ subway fare to Radio Club meetings when Lee was impoverished by fighting numerous of lawsuits involving his patents of the Triode Vacuum Tube. (Lee DeForest Honorary OOTC Member #0005H)

It was my distinct pleasure to become acquainted with Fred at APCO (AmericanPublic-Safety Organization) conferences, and having Fred personally sponsor my membership in The Radio Club of America and signing my membership card. The accompanying photographs include what is most likely the last QSL (#1) ever sent by Fred before his death, along with a typical rambling commentary. Another photo shows Fred giving my wife Ruth, KE4DRI, a big hug (#2) at the 1989 APCO Conference in Sparks, Nev. The other photographs show a complete Link Mobile package (#3), which was obtained surplus from the N.C. Highway Patrol by the author, and subsequently traded to Sgt. Dean Hammond (Ret.) of the Connecticut State Police and installed by Dean in a restored 1940 Ford Patrol car. The photo of Fred Link (#4) talking on the radio just before it was permanently installed in the '40 Ford was the last time Fred ever keyed up one of his own production radios, shortly before his death. The remaining photo (#5) shows the author, Glenn "Max" Bloodworth, K04TV, retired Chief Communications Engineer of the N.C. Highway Patrol, with a Link 35-UFM Transmitter.

The radios that F.M. Link built were the absolute epitome of neat, orderly hand-wired construction, with all interconnecting wiring neatly cabled with waxed lacing cord, and laid at perfect right angles. Among the last production radios built by Link was the one-piece Model 2365, which used miniature tubes, except for the 2 final amplifiers, which were 2E26, and a dual vibrator power supply for both transmitter and receiver. The patents and rights for the 2365 series were sold to DuMont Corp. when Fred retired, and except for the DuMont nameplate remained unchanged in production for several years.

**REVISIT ED RASER, W2ZI - REPRINTED FROM THE AUGUST 1969 ISSUE
SPARK-GAP TIMES**

APRIL 1 1899 – OCTOBER 23 1985

Edward G Raser, W2ZI, was first Vice President of OOTC in 1969. Page 22 shows the cover of the August/September 1969 Spark-Gap Times. Pictured is Ed's old 1916 station, 3CS. It used a 'kw Packard transformer with home made rotary gap oscillation transformer, etc. Ed says, "This rig was my pride and joy, believe me! The regenerative tuner was my own design and construction as were the audion detector panel and 2-stage amplifier." Mounted high on the wall is an old Edison phonograph horn which was probably one of the very first loud speakers.

The editor, Fred Crowell, Jr., W9MIB, said, "One of the really great wireless pioneers and long active in the Old Old Timers Club is Ed Raser, OOTC's 2nd District Director." Here is the story .

EDWARD G. RASER, W2ZI—Wireless Pioneer

This is the story of one amateur radio operator who has really lived over a half century of wireless and radio. His early interest in wireless soon developed into a lifetime of activity which has dominated most of his waking hours, providing a satisfying career as well as rewarding friendships among the amateur fraternity.

Experimenting with coherer detecting devices as early as 1908 at the age of nine, Ed joined up the next year with Hugo Gernsback's Wireless Association of America, one of the earliest wireless clubs in the world. By 1910 he had worked a distance of ten miles with a quarter-inch spark coil, homemade tuner, a piece of silicon mineral, and a 75-ohm telephone receiver. The call letters were "RE", his initials in reverse!

After the Radio Law of 1912, he made his appearance at the Philadelphia Navy Yard and took the examination for a First Grade license. He recalls that the license was signed by a Lt. S. S. Payne, USN, as the Navy was the only government agency authorized to conduct examinations at that time. His brand new call letters were then 3NG. By 1915 he was working stations 400 miles away with a ½ KW Packard transformer and homemade rotary gap, using only a galena mineral detector, loose coupler and Brandies phones for receiving.

The impending war in Europe put an end to his experimenting. So not to be completely frustrated, he enlisted in the Navy as a wireless operator, and served a three-year hitch aboard various ships and at shore stations. During this period, while serving on detached duty at the Cape May Naval Air Station, he installed and test hopped the first E.J. Simon ¼ KW, 500 cycle spark sets ever to go aloft in an airplane, and using long trailing wire antenna. Other duty stations were on sub-patrol boats, and after hostilities ceased, at coast stations NAH, NAI and NSD.

Ed had received his First Grade Radiotelegraph license before War 1. After his Navy service he continued as a commercial wireless operator at both land and shipboard stations. In 1919 he was operator aboard the coaster S. S. LAKE STRABO, KEBR, on runs between New England and Gulf ports. In 1920 he transferred to the new collier S.S. ETHAN ALLEN, KUJQ, which carried a 2 KW Federal arc set. On its maiden voyage to Balboa and Chile he maintained contact over most of the trip with Charleston Navy Yard, NAO, and Colon, Panama, NAX, there being few stations along the way able to receive the ETHAN ALLEN'S arc signals. During his maritime days he worked for such early operating companies as Kilbourne and Clark, Marconi Co., and Tropical Radio Telegraph Co.

In April 1915 Ed had joined up with the then newly organized American Radio Relay League. He became the 381st member of this organization, which now has over 100,000 members throughout the U.S. and Canada. He immediately became active in long distance relay and traffic handling, and was assigned in May 1916, to old Trunk Line

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C, the then very busy line operating between Boston and Washington, D.C. He also was one of the first ORS(Official Relay Station) appointees in 1922, the year when this appointment was created. During his some 47 years of traffic work, dedicated to serving the public and amateur radio, Ed has held all ARRL field positions and appointments, as well as that of elected Director of the League for a two-year term.

In 1922 he received Special Amateur Station License number 9, and with it the call letters 3ZI. This allowed him special wavelengths out of the 200-meter amateur band for long distance relaying of messages. He and Irving Vermilya, W1ZE (OOTC Founder #0002), are the only two original east coast "Z calls" left on the air today as far as it is known---all others are reassignments. Other early two-letter calls were 3NG and 3CS, both well known sparks until 1924.

Amateur radio-wise, having passed through all the various stages of spark transmission from ¼ inch spark coil to the booming 1 KW sync-spark set In the mid 20's, Ed finally saw the light when a little 7½ watt tube began to run rings around his "Big Bertha". In late 1924 he gave in to the less noisy tweet of the CW signal. Then came the 5 watt "Colpitts" and "TNT" circuits, with basket weave coils and honey-comb tuners, all of which led up to the present pretty desktop gear of today.

As a pioneer broadcast engineer in 1922, Ed was to help establish WMAL, Trenton's first station, and later to design and construct the city's first 500 watt station, WOAX, which was considered high-powered at that time. His last participation in commercial radio came in 1935-6, when he returned to sea for the Columbian Steamship Co. Plying the banana boat routes, he served aboard the S.S. COLUMBIA, WKEG, the S.S. PASTORES, KDED. His trips to Haiti, Jamaica, the Canal Zone and Columbia brought him in contact with many a Carribbean wireless station operator.

Ed's interest in military radio stayed with him for many years. In 1926 he enlisted in the 112th Field Artillery, Headquarters Battery, N.J. National Guard, where he became regimental communications sergeant and senior signal instructor. In 1933 he transferred to the 119th observation Squadron, Army Air Corps Reserve, based at Newark, N.J. He was Communications Chief of the squadron, with supervision over twenty communicators, two ground stations and 13 observation aircraft types 0-46 and 0-47. During World War II he was engaged in vehicular radio development work as a radio engineer for the Signal Corps Radio Laboratories, Fort Monmouth, N.J. He traveled over most of the eastern United States on various communications missions, for the Army, Air Force and other agencies. One of his most notable assignments was to President Roosevelt's security network, with his headquarters in the White House.

With all his on-the-air activity, and with commercial operating in between, Ed has found time to be active in radio club work. He served in 1915 as secretary of the very early YMCA Radio Club of Trenton, N.J. He joined the Trenton Radio Assn. in 1920 and was a co-founder of the Delaware Valley Radio Assn., Inc., now(1963) in its 33rd year.

continued on page 16



4" DIA. PATCH see Pg.3



ORDER BADGE PG. 26.



JOHN OWINGS K4LSX NEW MEMBER #4604 see Pg 4



Were you licensed at least 25 yrs ago & licensed now? Then you should join The Quarter Century Wireless Association.

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To replace lost pin or upgrade pin see Pg. 3. (80 yr pin is free)

WA6NLG #4364
DONALD S. GRANTHAM >

REPORTED SK BY HIS
DAUGHTER, APRIL

w6april@yahoo.com



Joseph Lee Pontek, Sr. #4607
K8JP/V31JP Page 4-5

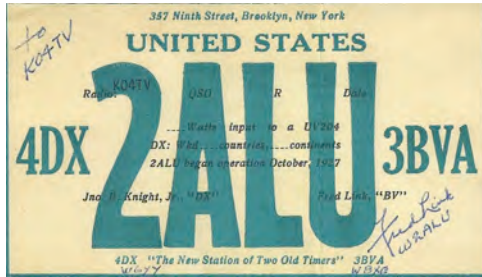
PAGE 15 VOL. 49 NUMBER 2 SPARK-GAP TIMES MAY 2012
(#1) Fred Link W2ALU Page 10-11 (#2)

Just some remembrances of the past.....

'MAX'
 You asked for it, and I am going to do something that I extremely rarely do---and that is send out a QSL card. In this case you may well have a item that not only is in short supply, but very rarely seen since the days of constant 'ham' effort (I mean 1920 thru 1931), when it was essential that we stop playing and get down to the serious business of trying to beat the days of selling pencils on the street corners in New York to survive--that being 1931 when the big depression took hold and for me, I started my Link Radio Corporation that became an industry fixture very quickly, and as a result I do not even remember what it was to be poor and all I CAN SEEM TO RECALL is getting a very small radio business to be a name recognized internationally. The period between 1931 and WWII were the growing years for Fred Link and LRC. I still be 30V, 3BVA And then W2ALU with JOHN KNIGHT W4EYV.



(#3)



(#4)



(#5)



-continued from page 11 - REVISIT ED RASER, WZZI

He is also a member of many other radio organizations: The Radio Club of America (the world's first radio club), Charter member of The DeForest Pioneers, The Veteran Wireless Operators Assn., Life member of the Quarter Century Wireless Assn., Morse Telegraph Club of America, Charter Member of the Old Old Timers Club (40 years in radio), The Antique Wireless Assn., and Senior Member of the Institute of Radio Engineers.

SILENT KEY 4/12/2012 ROBERT L. SHRADER, W6BNB, #3007



The world has lost one of the most amazing men who ever lived, and our family has lost a marvelous husband, father, grandfather and great-grandfather.

Born in Oakland, CA October 20, 1913, Bob passed away quickly and peacefully at age 98 with his family at his side on April 11, 2012 in the home that he and his wife built near Freestone, CA. It was time for him to go. He had done everything a man could do in a lifetime.

Bob "W6BNB" is survived by Dorothy "W6ECU", his loving, devoted wife and constant companion for over 71 years of marriage. Also survived by son Doug "KJ6TEJ" (Juanita) of Santa Rosa, daughter Patricia (Tom) Niles of Owego, NY, grandson Scott (Erin) Niles, granddaughters Kristen Shrader and Dawn (Sadegh) Yazdi, great-grandson Jake Niles and great-granddaughters Leah Niles, Hanna Yazdi and Parisa Yazdi.

Starting at the age of 10 by building crystal radio sets, he began the pursuit

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of his lifelong passion for wireless radio communication and electronics which began while on a cruise to Hawaii with his parents in 1923. The ship's radio operator was a man from Sebastopol, Earl Wohler, who invited Bob up to the ship's radio room. Thus began a lifelong friendship that lasted many decades until Earl's passing. Upon graduation from high school Bob obtained his amateur radio license, W6BNB, and became a licensed commercial radio operator. This was at the height of the Great Depression. Jobs were scarce but he was hired on as a shipboard radio-telegraph officer for the Dollar Lines, something unheard of for someone so young. Over the next several years he sailed around the world 6 times and trans-Pacific many more. Oh, the stories he has told about adventures in exotic ports-of-call all around the globe.

In 1939 Bob became a deputy sheriff in Alameda County in charge of radiotelegraph operations. He married the only love of his life, Dorothy Fox, in 1941. At the beginning of WWII he began teaching radio and electronics to cadets on Treasure Island. He was assigned the rank of Lieutenant in the US Maritime Service and soon moved to King's Point, NY, where he instructed cadets at the US Merchant Marine Academy. He returned to his sheriff's position at the end of the war, but soon found his calling teaching electronics at Oakland Central Trade School, later known as Laney College. Bob turned his teaching materials into one of McGraw-Hill's top selling textbooks, "Electronic Communications", published in 1959 and in continuous production through edition 6 in 1991. This book was followed by many others, published in several languages. He retired and moved to Sebastopol in 1969 and built his home 5 miles west of town at the top of a hill among towering redwood groves. Bob continued authoring books and publishing numerous technical articles for national magazines. He joined the Freestone Fire Department in 1969 and quickly advanced from firefighter to Captain to Chief of the department. He orchestrated the merger of Freestone FD and Twin Hills FD in 1978 and served as President of the Twin Hills Executive Board after that. In 1997 he wrote and published "Fire Fighting, How It's Done".

Bob was the founder and member of local, national and international radio organizations and the recipient of awards and honors too numerous to list. At the age of 97 he researched and wrote "A Freestone Area Story". He was active and alert until his final day. The photo above was taken one day prior to his passing. You could see the sparkle in his eyes the moment he put on his old Merchant Marine officers cap. There will never be another like him.

There will be no services. If you would like to honor Bob's memory, the family suggests making a donation to: Mid-Florida Multiple Sclerosis 2701 Maitland Center Pkwy, Suite 100 Orlando, FL 32751



Her contributions to OOTC and to ham radio would fill a few books.

This is Eunice R. Thompson, operating 1XE Tufts College station about 1920. Eunice, W1MPP, listed her 1st call 1CDP-1920 when joined OOTC on June 23, 1960, member #0168. Husband George K. (Ken) Thompson, K4RO, joined OOTC #0230, February 18, 1961, listed 1st call 1PS-1907. At that time, they were the 1st husband/wife members. She was one of the 1st women to hold an amateur license.

Eunice then was a broadcaster over WGI, successor to 1XE. She was employed by Ward-Leonard, and other companies, such as New England Power Co., as supervisor of the System Maps Department, retiring in 1961.

In 1964 she became Secretary-Treasurer of OOTC and did a remarkable job. Things were not good for OOTC at that time. She worked on the old "Blue Book" which she finally completed in the 1960's.

The "Blue Book" contained short Bio's and pictures of members (as available) up to #2520. No longer available in print, it has been scanned to PDF (portable document files) and can be accessed on the OOTC website. In your browser enter

<http://ootc.us/bbuk.html>

**Would you volunteer to bring the "BLUE BOOK" up to date?
I will provide the info for you to bring it up to date. (2521 – 4610)
CONTACT SECRETARY email ootc@ootc.us**

The Rules Say...

John B. Johnston, W3BE

Hams At Sea

Q I am taking an extended Caribbean Sea cruise for which I intend to take a HF rig and antenna along with me. As I understand it, I will have to append /WW to my call sign for the station identification announcement. That would make it W4***/WW. Is this correct?

A. No, that is not an obligation as far the FCC rules are concerned. Section 97.119(a) says:

Each amateur station, except a space station or telecommand station, must transmit its assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication, for the purpose of clearly making the source of the transmissions from the station known to those receiving the transmissions. No station may transmit unidentified communications or signals, or transmit as the station call sign, any call sign not authorized to the station.

According to your license grant shown on the FCC ULS, your station's FCC-assigned call sign is W4***. Your station, therefore, - at least while it is transmitting solely under the authority of your FCC-issued license grant - is obligated only to transmit that unadorned FCC-assigned call sign when making the station identification announcement.

Q. But I anticipate that an indicator appended to my station's call sign might help in making more QSOs. I want to alert my listeners on the band that I am aboard a Caribbean Sea cruise ship. Otherwise, they may not realize that my station is at sea and overlook its transmissions. How should I add one?

A. Just say something like: *This is W4*** slant mark aboard the cruise ship Colossal Mermaid of the Caribbean Sea* or whatever.

Q. But I only intend to work CW. That wordy indicator has too many characters to key. I need something a whole lot shorter. What should I use?

A. Section 97.119(c) says:

(c) One or more indicators may be included with the call sign. Each indicator must be separated from the call sign by the slant mark (/) or by any suitable word that denotes the slant mark. If an indicator is self-assigned, it must be included before, after, or both before and after, the call sign. No self-assigned indicator may conflict with any other indicator specified by the FCC Rules or with any prefix assigned to another country.

To make it meaningful, you need for the listeners to your station's ID announcement transmissions to comprehend what it is you are trying to tell them. That's where the identifier appendage comes in. It might give them a clue that your station is transmitting from somewhere other than your postal mailing address shown on the ULS.

For a station transmitting from a vehicle traveling in a place where our amateur service is regulated by the FCC, BE Informed No. 52 recommends appending to your station's FCC-assigned call sign WW for waterborne vehicles. That selection is within the ITU-assigned nationality identifier series WA-WZ assigned to the United States.

Read the rules - Heed the rules

Visit <http://www.w3BEinformed.org> for links to amateur service rules and information sites. E-mail your questions to john@johnston.net.

A MESSAGE FROM THE PRESIDENT

I want to thank those members who have brought their dues up to being current. These days of tight money hits all of us and OOTC is certainly not immune. Those of you who may still be behind but can squeeze out enough for your dues will help keep the Spark Gap Times afloat. OOTC was forced to reduce the issues of SGT from four to three times a year. We would hope to be able to go back to the former number of issues.

Were you affected by the significant solar flares? Chapter 2 was just lining up for the Tuesday afternoon net last March when we were hit with a nearly complete blackout! That hasn't happened in quite some time. Another disappointment is the current sunspot cycle for those who like DXing on the higher bands. However, those that chase DX on 80 and 160 meters are enjoying better than average conditions.

In this issue of the SGT we are fortunate to have an article by a friend, Fred Brown, W6HPH. He designed a noise canceling circuit that is quite simple yet very effective. I built one and am very much impressed. I found it to have more phase reversal range than a commercial unit I had tried. It was very easy to build using perf board. The only problem I had was to find a suitable noise antenna. Fred suggested I might try the house mains ground. I checked to make sure the ground wasn't "hot" and then coupled to it through a .01 μ f capacitor and found it worked for me. Also, my rig has a receive antenna input so I did not have to try and couple into the rig. I did build a small relay switching circuit to short the input to the NC when transmitting.

His article was originally published in the ARRL magazine QEX. OOTC was given permission by QEX to include the article.

I wish a great summer for you all.

73, Troy, W6HV

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REPORTED SILENT KEYS

REPORT A OOTC MEMBER "SILENT KEY" TO OOTC 3191 DARVANY DR. DALLAS, TX 75220-1611 or ootc@ootc.us
CALLS LISTED HERE MAY HAVE BEEN REISSUED.

NAME BIRTH	MBR# 1 ST WIRELESS	CALL SK FROM	SK DATE	NAME BIRTH	MBR# 1 ST WIRELESS	CALL SK FROM	SK DATE
WILLIS T BIRD 12/15/1935	3167 WN4WUL-1952	W4WUL QST	??/??/2011	THOMAS W THATCHER 11/5/1920	3982 W9QPI-1938	W2TFT SON, GREG THATCHER	12/21/2011
ALBERT WEISS 2/2/1912	2236 W2BNH-1928	K6VU QST	??/??/2005	NORMAN E. FRIEDMAN 8/7/1922	3348 K2BDG-1952	W6ORD QST	??/??/2011
RICHARD W. BUDD 4/28/1921	3487 MI-1943 KB7JJA-1989	W7RWB QST	MISSING	HARRY D AZADIAN 5/5/1923	3785 MI-1944 W1ODO-1948	W1ODO QST	??/??/2011
THOMAS J. MUSSATT 4/8/1928	2830 W9EBY-1948	W9EBY QST	??/??/2011	LOUIS J REMPE 4/14/1930	4443 MI-1958 WB9JVR-1972	K9LJR QST	??/??/2011
CLETUS M. DUNN 12/8/1912	1220 W9DZE-1930	W1DIT KS5A, GUFF, #4223	12/13/2010	DONALD R OSTI 9/16/1923	3393 MI-19434 KN6KJK-1955	K6KJK GR-DAUGHTER WENDY	1/19/2012
WILLIAM H. ECKELS 7/9/1925	3843 W9ZAN-1941	W8ZNH MARY D. ECKELS	1/8/2012	HALLIDAY JOHNSTON 12/14/1920	3098 W7ICO-1940 W7IEI W5LCJ	W0TKW JO ROBERTSON	11/15/2011
WILLIAM H. SEXTON 11/11/1920	2674 MI-1944 D4AEY-1945	W1EEE SSDI	??/??/2008	ARMOND M NOBLE 12/21/1934	3248 MI-1934	N6WR MAIL RETURNED SK	2/1/2012
JOSEPH F KEESE BORN 1916	1787 W9KEH-1932	W8VSK PONTEK #4607	2/12/2012	DONALD S GRANTHAM 6/3/1925	4364 ?-1937, 1960-WA6NLG	WA6NLG Daughter. APRIL	2/26/2012
JOHN HARVEY CHASE 8/29/1913	1416 W9CLT-1931	W4TG QCWA VIA VE3JX	3/6/2012	LEONARD J. KNIRKO 8/14/1923	2914 W9MOL-1937	W9MOL Daughter Caroline Kallevang	11/??/2011
RAYMOND A ALLARD 9/11/1946	4489 K1MFZ-1959	W1RAA QST	MISSING	TRAVIS MCKEE 2/25/1935	3653 WN5JBH-1954	W5JIF QST - SSDI	??/??/2011
STEVEN MARTEK 3/21/1927	2736 MIL-1945 KA8ZAO-1096	NZ8K QST	MISSING	FREDERICK O MAIA 8/28/1935	3405 MIL-1954 WN1NTK-1955	W5YI ARRL VIA W6HV	3/28/2012
ROBERT L SHRADER 10/20/1913	3007 SPARK-1925 W6BNB-1931	W6BNB SidesWIPER NET	4/12/2012	BARRY J MINSKY 1/1/1943	3723 WN3GAP-1955	W2BJ Spouse Nancy Minsky	12/18/2011
JERRY S. STOVER 7/11/1919	1713 W9PEV-1933	W5AE QST	MISSING	WILLIAM G. WELSH 12/13/1927	2820 W1SAD-1939	W6DDB QST	MISSING
CLEMENT K CHASE 7/16/1915	3419 W7JGU-1946	W7JGU QST	MISSING				

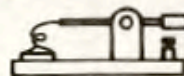
NEW MEMBERS

NEW MEMBER	CALL	#	REFERRAL	NEW MEMBER	CALL	#	REFERRAL
WA2KXE's biography was in the January Spark-Gap times but was not in the new member list. Here 'tis --- Arthur Altarac WA2KXE 4601 Secretary							
John E Owings	K4LSX	4604	QCWA JRNL	John Covington	W4CC	4605	K4HF Charles Littlewood #4151
Dennis G. Morin	WD9GYW	4606	Secretary	Joseph Pontek Sr.	K8JP	4607	W8VSK #1787
Stanley M. Ross	K5VR	4608	K5ALU #3870	Paul A. Lundy	W0PAL	4609	Secretary
Raymond G. Smith	WB4ZDU	4610	Secretary				

Spark-Gap Times



Published By
The Old Old Timers Club



MAY-JUNE 1983

VOLUME 20, NO. 3



ED. G. RASER 3CS-3ZI 1916

THE MAGAZINE OF THE WIRELESS PIONEERS

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BIRTHDAYS MAY, JUNE, JULY, AUGUST 2012.

Notice: Report member SKs to ootc@ootc.us or 3191 Darvany Dr. Dallas, TX 75220-1611. Some calls listed may have been reissued. Members that we have lost contact with are not listed. If any lines entry is blank, the member was reported SK after this list was created and was removed from the list.

May-01,K2VNM,KERNS	May-12,W7GB,CALBICK	May-21,KJ4HQ,JORDAN	May-29,W0CI,REMHOFF
May-01,W5IG,CHEEVER	May-12,AE3Z,KIMBLE	May-21,KF2JJ,FIRST	May-30,W0VT,BAHR
May-01,N1BCL,DUNN	May-12,W8CA,WRIGHT	May-21,W4KL,WATKINS JR	May-30,W1DOH,LUKAS JR
May-01,W6GWJ,JACKMAN	May-12,AB6E,D'ANGELO	May-21,W1ZFJ,GILDEA	May-31,W8RTN,TIPPETT
May-01,W9QS,BROGA	May-12,W9HMR,NEEDLER	May-21,KW4RL,LENZ	Jun-01,K8JRE,CUCHETTI
May-01,K0GZR,WILKERSON JR	May-12,W0TM,YANTIS	May-21,DM3FZN,SCHOLZ	Jun-01,K2JQB,MASON
May-02,H89QA,DE MADDALENA	May-12,N5TI,BOSSMIN	May-22,KE7K,CHAMBERS	Jun-01,K1FPV,BIBEAU
May-02,W1CX,WILBUR	May-13,K5AVT,RIISE	May-22,W2QBR,HAMLET	Jun-01,N8HGL,STEELE
May-02,W1PD,ANDERS	May-14,KR1S,KEARMAN	May-22,W1CKT,WEISSMAN	Jun-01,W2GB,BRADKE
May-02,KF5EH,WALTER JR	May-14,DC0UH,MOHR	May-22,KD8PI,GRAHAM	Jun-02,W3TFA,BRIGHAM
May-02,W2TMT,THOMPSON JR	May-15,DL1VU,HILLE	May-22,K8LJG,KROLL	Jun-02,K0HQW,ISAACSON
May-03,W9ZC,PRATT	May-15,W5YCY,LINDELL	May-22,W2HYN,SHAW	Jun-02,W9NX,MANDRELL
May-03,K1ZOK,LAMBERT JR	May-15,K6YR,GRIFFIN	May-23,W1DO,BOSELNAN	Jun-03,W6TJO,ESSEX
May-04,W6HPE,LA MANNA	May-15,N9JZ,ZACHER	May-24,KF9KP,VEYSEY	Jun-03,K6CJM,LANTZ
May-04,W4RTE,EMBRY	May-16,W8K0X,FEENY	May-24,W2UGZ,BIEBER	Jun-04,K3AXB,DEFGIO
May-04,W6TEE,COBB	May-16,W1EOF,TITTERINGTON	May-24,W3RCB,BARTEL	Jun-04,W4STX,PENHALLEGON
May-04,K9WVM,MALLEK	May-16,AF1E,SPEARS	May-25,W8HNI,FAIVER	Jun-04,W3EH,RAND
May-04,K4BYF,FALKENHOF	May-17,DJ8OT,WARNECKE	May-25,W9HTK,GOODRICH	Jun-04,W3DEF,AUG
May-05,K17PG,SWANK	May-17,W2VRK,RICICKI	May-25,KK6O,WENDELBO	Jun-04,W6HK,BOURNE
May-06,W6UGI,WHISNANT	May-17,W7MET,TIMBLIN	May-25,W1ZS,ELDRIDGE	Jun-04,W3DF,FLANAGAN
May-06,W4FOA,MARTIN JR	May-18,W8CK,KIDDER	May-25,K0LWV,MERGEN	Jun-05,W1ZPK,MORIN
May-06,W4CZ,PRICE	May-18,NU5C,CARROLL	May-25,K9MX,BOYD	Jun-05,K0WPK,FEHR
May-06,KA1RFD,SCRIBNER	May-18,WJ2A,LINDEN	May-26,DL7CY,DÖRFLER	Jun-06,N10I,WILSON
May-06,N5NE,BASINGER	May-18,K2DNF,RATAY	May-26,K2KAD,WHITE	Jun-06,K4OP,MC CARTHY
May-06,K4ITV,WHICKER	May-19,W5GPI,PATTON	May-26,KR4R,RITTER JR	Jun-07,W2ND,CAMPBELL
May-06,W1RCC,GOWDY	May-19,KZ1H,YOUNG	May-26,KZ3F,HORLICK	Jun-07,N6FY,FIELD
May-07,W3IF,CROCKER	May-20,W8AHB,WAGNER	May-27,K6CD,SAUGIER	Jun-08,W4NXX,KRESGE JR
May-08,KT2L,RUBIN	May-20,N3HWA,DAVIS	May-27,W5KSI,GLORIOSO JR	Jun-08,W6LUE,ARNAUTOFF
May-08,NQ5T,YOUNGMAN	May-20,K6RXU,SILVERN	May-27,N0DMH,HORSTMANN	Jun-08,AG5G,MINCHEN
May-09,W4AGI,SMITH	May-20,WA2MZF,PRENTICE	May-27,K7RA,COOK	Jun-08,DL6AB,BEUICHE
May-09,K1HGK,JOHNSON	May-20,KJ6YK,LOWRY	May-28,SM5TRT,PERSSON	Jun-09,DL6QZ,MEUTER
May-09,WA7BDK,SHANNON	May-20,W1JGS,SCHATZ	May-28,JA4ENN,NAKATSUI	Jun-09,W3YMB,YODER
May-09,W6LAR,ANDERSON	May-20,W5OU,JONES	May-28,K3GG,GROVES	Jun-09,W2LAP,LEVY
May-10,W7LGB,BROWN	May-20,WB4GKI,HUCKABY	May-28,WD8E,TENDER	Jun-09,WA2TWS,BROWN
May-11,AA6LY,GREENE	May-20,W6VI,PENDERGRASS	May-28,WA2KXE,ALTARAC	Jun-10,WA2VQV,YOUNG JR
May-11,W7NSN,HORN	May-20,K4LSX,OWINGS	May-29,W6HV,WIDEMAN	Jun-10,K4GDC,HENDERSON
May-11,W2BHK,SHEINMAN	May-21,W20EQ,HELLMAN	May-29,K2VE,FRIEDMAN	Jun-10,DJ4WS,SCHWERTER

Jun-10,K2BLA,HELFRICK	Jun-23,W1FSM,SEATON	Jul-11,N4CC,WILSON	Jul-25,W7KLH,SANSONE
Jun-10,K4ROT,JOHNSON	Jun-23,W2HLD,VINOCUR	Jul-12,WY60,CANARIS	Jul-25,W3NU,RING JR
Jun-11,KN6PR,TERRAZAS	Jun-23,W7UY,GIESE	Jul-12,WY60,CANARIS	Jul-25,AA6YT,HOLDEN
Jun-11,W8WM,ZELLER	Jun-24,W5GK,FLANAGAN	Jul-12,N6NP,COOPER	Jul-26,K0RIO,SCHLENK
Jun-12,W4IWW,MARSH	Jun-24,W1HI,ZUROMSKI	Jul-12,SP2DX,WY SOCKI	Jul-26,WA6FEJ,GREGORY
Jun-12,W0UCE,RITTER	Jun-25,AB6CF,HOPPER JR	Jul-12,K9UQN,BACKYS	Jul-26,W6IP,STOLTZ
Jun-13,DL7BZ,BURKOWITZ	Jun-26,W8CBH,GERBER	Jul-12,KA5CVA,BLACKARD	Jul-26,W5YCK,ELLIS
Jun-13,N2JAV,AUZIN	Jun-26,K4TF,WILLMOT	Jul-12,K2DC,COLLINSON	Jul-26,K5MET,BREWER SR
Jun-13,W3YOZ,JOHNSON	Jun-27,W5KTX,JANKOWSKI	Jul-13,KP4MO,VILA	Jul-26,W6HB,DOWDS
Jun-13,K6ISN,LIPMAN	Jun-28,W1AM,WESTNEAT JR	Jul-13,WA1FYF,FIELD	Jul-26,KC4D,PERKINS
Jun-13,DJ2YE,BURBERG	Jun-28,W4VS,OWEN	Jul-13,K1IGD,WALBRIDGE	Jul-26,W6BFB,FLESH
Jun-13,N0JW,KNOX	Jun-28,W4VZ,RAUCH	Jul-13,K5SAC,HELMS JR	Jul-27,W0RTV,WARD
Jun-13,W8NO,ELLIS	Jun-28,K6RHA,TURNER	Jul-13,K9POV,SIMKUS	Jul-27,KB5WZJ,HARRISON
Jun-14,K4BG,GOOD JR	Jun-29,K8LEN,O'BRIEN	Jul-13,W0CKK,KING	Jul-27,K6LLD,CELENTANO
Jun-14,AE5K,JACKSON	Jun-30,W2LAE,SCHAEFFER	Jul-13,K4LZ,SMITH	Jul-27,W0RQ,TYSON
Jun-14,K4JWR,RICHARDS	Jun-30,W0GNJ,PAARMANN	Jul-14,W3ZIF,KRAMER	Jul-27,WD8ITD,SCRITCHEFIELD
Jun-15,K9ZZS,SCHREIBER	Jun-30,K7NIB,TAYLOR	Jul-14,N5YJ,CHENETTE	Jul-28,W2ABG,WENZEL
Jun-16,W1RPM,DILLARD	Jul-01,W4WD,WICKER	Jul-15,W4KGJ,PORTER	Jul-28,W6IRT,LEFCOURT
Jun-16,AE2L,BREHM	Jul-01,W0UHL,WOOD	Jul-15,W3FZV,BATTEY	Jul-28,K5BJ,BIGGERSTAFF
Jun-16,W4PHL,RICHTER	Jul-01,W5DKK,HUNT	Jul-15,W4FWG,FERGUSON	Jul-28,K8JP,PONTEK SR
Jun-16,W7TUNE,BURNETTE	Jul-01,W5AJX,ZELENKA	Jul-16,AE5B,DYER	Jul-29,K5ALU,CRANFORD
Jun-16,W0KXP,CHURCH	Jul-01,W1FKD,THOMASON JR	Jul-16,KG9QC,SCHLECHTE	Jul-29,W4YDY,LANGLEY
Jun-16,W1IRH,PICHULO	Jul-01,W7IG,PILOTTE	Jul-16,K9QCC,SCHLECHTE	Jul-29,WA7QIQ,HOOD
Jun-17,N6TKL,HURZELER	Jul-02,KA1GSX,WELLS	Jul-16,W3MGL,BOELLHOFF	Jul-30,W5UYA,CHADWICK
Jun-17,DL1MEB,MAERZ	Jul-03,KB5KST,HARRISON	Jul-16,WA0LST,PARKER	Jul-30,G3XVF,DAVY
Jun-17,W9VZR,KLAWITTER	Jul-04,N8PRB,CARTLEDGE	Jul-17,W3GNG,BURNHAM	Jul-30,W6KL,REID
Jun-17,K1BI,DINMAN	Jul-04,W4SQE,POTEETE	Jul-18,K0DEW,WHEELER	Jul-31,W3ENL,SCHWARTZ
Jun-17,W1UVJ,SPRAGUE	Jul-04,W9CBT,SYLVAN	Jul-18,K4CNK,KAEFF	Jul-31,K1DWZ,KING
Jun-18,W6MI,SIMMONS	Jul-04,N2JNK,HENNE	Jul-19,W1TTY,SCHERMERHORN	Aug-01,W6JOA,KERR
Jun-18,K8AUH,STAHLLEY	Jul-05,W5UP,SICURO SR	Jul-19,NJ2J,O'BRIEN	Aug-01,K6CMS,SEALOCK
Jun-18,K3CKT,BARRETT	Jul-05,K1DX,WOODS	Jul-19,W4EBA,ENGEN	Aug-02,W6UUC,SNOW
Jun-18,K1CW,GIBBEMEYER	Jul-06,W0HPD,SWISHER	Jul-19,W6ILL,HITTERDAL	Aug-02,WA2DUV,USTASZESKI
Jun-18,W1AKN,BUCKLEY	Jul-06,PR7CPK,DO O	Jul-19,K1CSW,SAWYER	Aug-03,N3NN,MEHNERT
Jun-19,W1RGH,CHAET	Jul-06,W7FKF,KINCAID	Jul-20,K5HGL,ENGLEMAN	Aug-03,K5AY,BLAIR
Jun-19,K4KB,MESTRE	Jul-06,AA0PP,OSS	Jul-20,W4KE,LETTEER JR	Aug-03,WA1SMI,ISAACS
Jun-20,WB2CEB,PANASUK	Jul-07,DK9LG,LIPPOK	Jul-20,W6SVU,ROBISON	Aug-03,W3GH,KING
Jun-20,KB7VUH,WAMBSGANS	Jul-07,W2WW,LA PLACA	Jul-21,WB6BWZ,LEE	Aug-03,W3OR,ALLEN
Jun-20,KA3QNO,WHITLOCK SR	Jul-08,N6NWR,O'NEIL	Jul-21,K2ATB,BRILL	Aug-03,WB0IXV,O'FARRELL
Jun-21,KD4EZF,MOORE	Jul-08,W1NXW,BASILESCO	Jul-21,DL3VZL,SCHLETTIG	Aug-04,W5USM,SMITH
Jun-21,K5RB,BAUER	Jul-09,W6QHD,LUSTER	Jul-22,K4DWW,TODD	Aug-04,KC5TK,ABELL
Jun-21,K1LWI,BOYDEN JR	Jul-09,KA2JUP,PUSKA SR	Jul-22,WA1MJE,JAWORSKI	Aug-04,NX7G,HAINES
Jun-22,W4OGG,GOGGIO	Jul-10,K6ZE,MITCHELL	Jul-23,W3IUW,CHILD	Aug-04,KC8D,ROTEN
Jun-22,N7XFD,LESLIE	Jul-10,K1FP,PITMAN JR	Jul-23,K3MD,THOMPSON	Aug-04,K3FOB,HOFFMAN
Jun-23,WI3U,SCHULTZ JR	Jul-10,W9TNZ,GREENFIELD	Jul-23,W0EBC,CILIA	Aug-04,K8SPE,SHUMAN
Jun-23,W1UQ,BARDFIELD	Jul-10,WA6IPD,RIDEOUT	Jul-24,K6USI,BRADLEY	Aug-04,W6TCY,ENGS

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Aug-05,W5WE,BROWN JR
Aug-05,K2GG,MARKOWITZ

Aug-05,W3BV,GRAY

Aug-06,K0LW,WARD

Aug-07,W6UZ,GRAY

Aug-07,KB6FB,POMERANZ

Aug-07,W9EK,SYLFEST

Aug-08,W3QBZ,GONTARZ

Aug-08,AA8RU,PETH

Aug-08,W8KP,WITTLA

Aug-08,W4DK,KNIEF

Aug-08,W2PL,LENNAN

Aug-08,W9KX,OLDFIELD

Aug-09,K1IAG,DESILLIER JR

Aug-09,W8AUV,MAIER

Aug-09,K2ABX,FISHER

Aug-10,W8KF,HEVENER

Aug-10,K6GT,DEMING

Aug-10,K5ZY,BRODIE

Aug-11,DL1CC,KRUGER

Aug-11,WA1ENO,MANNA

Aug-11,KS6A,JOHNSON

Aug-12,K5KC,CASE

Aug-12,KO4TV,BLOODWORTH

Aug-12,W3BE,JOHNSTON

Aug-13,W0KWS,WARREN

Aug-13,K9GAW,JOHNSON

Aug-13,WN3R,HAYMAN

Aug-14,W7OTA,LETCHER

Aug-14,N5DRV,DUKE

Aug-14,N6UA,TABOR

Aug-15,W1RY,BINTLIFF

Aug-15,K9ADO,BALL

Aug-16,W5NJJ,OLIVIER

Aug-16,W4RA,PRICE

Aug-16,K2DYB,HARRINGTON

Aug-16,K7AMR,RIBEIRO

Aug-16,DL1UF,GEISSLER

Aug-16,K1RST,FOUNTAIN

Aug-17,N4MM,KANODE

Aug-17,KB4KGL,MAIDEN

Aug-17,KI4PUK,OUTLAND

Aug-17,WB8N,WAYNE

Aug-17,K3XA,ROHDE

Aug-18,W5HS,MAKEEVER

Aug-18,W2ZBK,BRODY

Aug-18,W0FP,PHILLIPS

Aug-19,W4UKJ,SIMMONS

Aug-19,W6KC,STOCKWELL

Aug-20,WB9UAD,STEVENSON

Aug-20,K6PPJ,WILLIAMS

Aug-21,W3QYL,FRIEDMANN

Aug-21,K3JA,JANKAUSKAS

Aug-21,WA2SEI,CZYZEWSKI

Aug-22,W8SEL,WALTERS

Aug-22,W1TT,CHICK

Aug-22,K6EON,LAUBHAN

Aug-22,W3YCH,FLENNER

Aug-22,KF5ZE,SCHMELZER

Aug-22,W5OF,ALEXANDER II

Aug-22,N4JJ,JACKSON JR

Aug-23,K6SSD,RUSSELL

Aug-23,N4JR,ROSSANO

Aug-23,K5RN,NIELSEN

Aug-24,W1WP,HARRIS

Aug-24,K7ABX,MULLOY

Aug-25,W2CC,POPKIN

Aug-26,W6CBA,BARRETT

Aug-26,W3RMB,RZODKIEWICZ

Aug-26,KJ7UK,CRELEY

Aug-26,WA2LKJ,KASS

Aug-27,W6WOW,DANE

Aug-27,W5TEH,ROSSON

Aug-27,W0NYG,THOMPSON

Aug-27,K9VKY,ROBERTS

Aug-28,W0CM,WESSEL JR

Aug-28,W9IL,HODGES

Aug-28,N7CXJ,WILLIAMS

Aug-29,W2ZXQ,WARREN

Aug-30,W6IST,GAYNOR

Aug-30,WA5FLV,SHERARD

Aug-30,DL1AY,TAUCHE

Aug-31,DL7IL,HORMANN

Aug-31,K5ZOL,IRISH JR

Aug-31,WA9BXB,BRECKINRIDGE

Aug-31,W0RM,WAHLIN

Aug-31,W5SWL,FANT

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