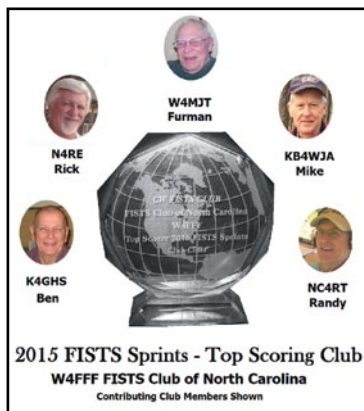


The KeyNote



Newsletter of the Americas Chapter, FISTS CW Club—The International Morse Preservation Society
Issue #1, 2016

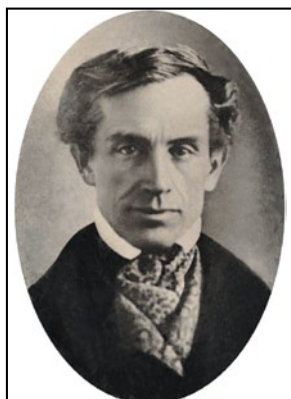
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"When you've worked a FISTS, you've worked a friend."

INFORMATION PAGE

When you have a question about FISTS, go to the source for the correct answer. Posting a question on a chat room or e-mail reflector may yield the answer, but your best bet is to ask a FISTS volunteer or look in the reference issue. Several volunteer contacts and/or e-mail addresses have changed from the last reference issue of *The Key-Note*. Please make note of the following listings.

When e-mailing a volunteer please put the word FISTS in the title of your e-mail. This will help the volunteer recognize that your e-mail is important and not spam.

Awards and Certificates

Dennis Franklin, K6DF, awards@fistsna.org
4658 Capitan Dr., Fremont, CA 94536-5448

QSL Bureau

Stan Reas, K4UK, k4uk@fistsna.org
1020 Long Island Dr., Moneta, VA 24121-1952

Club Call, KNOWCW

Cody Codianni, KC2LSD, kc2lsd@fistsna.org
413 Martin Court, Leonardo, NJ 07737-1317

Membership Questions; Renewals; Call Changes; Name, Mailing, and E-mail Address Changes

Dennis Franklin, K6DF, membership@fistsna.org
4658 Capitan Dr., Fremont, CA 94536-5448

Membership Application or Sample KeyNotes for Friends

Jim Ranieri, AA9LS, aa9ls@turbotoads.com
33778 Rebecca Rd., Kingston, IL 60145-8121

Website Changes (including getting your personal or club web page linked)

Dennis Franklin, K6DF, webmaster@fistsna.org
4658 Capitan Dr., Fremont, CA 94536-5448

Club Presentation Packets

Joe Spencer, KK5NA, kk5na@kk5na.com
3618 Montridge Ct., Arlington, TX 76016-4821

Code Buddy Volunteers and Buddies

<http://www.fistsna.org/codebuddy.html>

FISTS Sprints

Ed Wlodarski, N2ED, n2ed@fistsna.org
3 Shore Rd., Andover, NJ 07821-2240

Get Your Feet Wet Activity Day/G3ZQS Memorial Straight Key Contest

Karl Zuk, N2KZ, feetwetlogs@fistsna.org,
g3zqslogs@fistsna.org
15 Flintlock Ridge Rd., Katonah, NY 10536-2510

The KeyNote Newsletter

keynote@fistsna.org



Electrical Supply Co., Telegraph Sounder circa 1848 to 1881 used on a branch telegraph line and was usually keyed by a main line relay. From the collection of K6DF.

The KeyNote

The Newsletter of the Americas Chapter of FISTS
Issue #1, 2016



Send articles to:

keynote@fistsna.org

Design: Mary Cronin

www.marycronindesign.com

Americas Chapter Message

By Dennis, K6DF #3076

Once again I want to extend a warm welcome to all of our new members as well as a thank you to all our renewing members. There is hardly a day goes by that I do not receive one or more membership renewals and a new member application. Just take a look at our main web page and see the list of all our new members. Speaking of the website, be sure to check your dues expiration date by entering your call or FISTS number on the following web page:

<http://fistsna.org/expdate.html>.

This page will tell you when your next dues renewal date will be.

Several positive changes have taken place since the last *KeyNote* newsletter. I am happy to announce the following:

Tim, AC5SH, has agreed to manage our Dayton Hamvention booth for the club this coming May. He is currently lining up volunteers to help set up, run, and tear down the booth. Rumor has it that Larry, KF8HFN, will be back as our chief QLF examiner so make sure you stop by and get yourself QLF certified. After you qualify you will receive a nice QLF certificate to hang on your shack wall. Please stop by the booth and chat with Tim and the other volunteers.

Will Dix, KA4IZE, has taken over the management of the FISTS Store and should have things back in operation by the time you receive this *KeyNote*. Check the Americas Chapter web

site store page for details and a list of FISTS items available for purchase.

Cody, KC2LSD, has been keeping the KN0W-CW Americas Chapter Club aall on the air and I want to remind our membership that you to can operate KN0WCW by contacting Cody to sign up to use the call. Operating KN0WCW is fun and you will be giving 3 points toward awards for those stations that have a QSO with you.

I would like to bring our Code Buddy program to the attention of our new members, especially those who are rather new to using Morse Code. Please take a look at the Code Buddy web page (<http://fistsna.org/codebuddy.html>) to see a list of volunteers that have agreed to help our members who are new to code or those that want to brush up on their code. If you need a little help with the code, just contact one of the Code Buddies listed on this page.

One of my new-year resolutions was to make more CW QSO's in 2016 than I did in 2015. So I will be looking for more FISTS contacts on and near the .058 frequencies. If you hear me on the air please give me a call, as I would be happy to have a nice chat with more of our members. I wish you and yours good health and happiness throughout 2016. Take care and good DX to you.



FISTS AWARDS

By Dennis K6DF

Once again we have a pretty good list of award recipients since the last newsletter. A great number of the awards were issued to DX stations. I invite all of our new members to take a look at the “Awards” web page for a list of operating awards that are available FREE to dues-paying members. In addition to the many FISTS CW Club operating awards, you may also find additional Chapter Awards available through some of the other FISTS Chapters. Links to other FISTS Chapter websites are available on the following web site:

<http://fists.org/>

You may use the following e-mail address: awards@fistsna.org to send in your award logs. Excel, Word, Open Office, and Text files are the only file types accepted. Please read the e-mail log rules on the FISTS web site (shown below) for details.

You may also use the “FISTS Log Converter,” written by Graham, G3ZOD, to automatically send in your award logs. You can download and give this FREE software a try from the following web page: <http://www.fistsna.org/logconverter.html>. The Log Converter software will not only track your FISTS Awards but when you’ve completed an award it will send in your log to me at the touch of a button! You can’t beat that for making things easy!

Send in complete logs for awards. That means all of the following information: Call, Date of QSO, Band, FISTS Nr., Point(s) claimed for each QSO. Incomplete logs will cause a delay in processing your awards.

Check the FISTS Web Page for additional information regarding current FISTS awards and how to apply for them:

<http://www.fistsna.org/awards.html>

If you have any questions about the awards that are not answered on the FISTS awards web page, feel free to e-mail your questions to me at: awards@fistsna.org.

I look forward to a QSO with our members throughout the year in 2016. I wish you good health and good DX.

73, Dennis K6DF ..._ . ____

FISTS AWARDS ISSUED: Nov 7, 2015–April 18, 2016

Century Award:

SP9NLI, PA0KVA, ON7AMI, G0DDX, F5OGJ,
EA4BL, DL5CL, IK2DJV

Silver Award:

G0ILN, SP9NLI, DL5CL, IK2DJV, GM0EPO,
F6EAZ

Gold Award: DL5CL

Diamond Award: G4PRL

1 X QRP Award:

G4LHI, G4PRL

2 X QRP Award:

G0ILN, G4LHI

NANFA Award: F6HKA

WAS 20 Mtr Endorsement: F6HKA

Rag Chewers’ Club Award:

G3XVL, W3QT, 2E0EML

RCC 2 Mtr Endorsement: G4LHI

Spectrum Award:

W2RAN, F6HKA, GM0EPO

(continued on page 5)

FISTS Awards (continued)

Spectrum Endorsements:

80 Mtrs: G4MLW

40 Mtrs: WA6OEF

20 Mtrs: W2RAN, F6HKA

15 Mtrs: WA6OEF, F6HKA

17, 12, & 10 Mtrs: F6HKA

Perpetual Prefix Award:

F6HKA, DL5CL, G0PNM

Prefix 50, 100, & 150:

F6HKA, DL5CL, G0PNM

Millionaire Award:

SP9NLI, GM0EPO, F6EAZ, DL5CL, IK2DJV,
G0POT

2 Million Award:

W2RAN, G4PRL, G3XVL, DL5CL

3 Million Award:

W2RAN, G0PNM, DL5CL

4 Million Award: W2RAN

5 Million Award:

W2RAN, KE5HL

6 Million Award: W2RAN

7 Million Award:

W2RAN, AB0BM

9 Million Award:

G4LHI, WA6OEF

10 Million Award: WA6OEF

20 & 21 Million Award: F6HKA

22 & 23 Million Award:

F6HKA, W5GXV

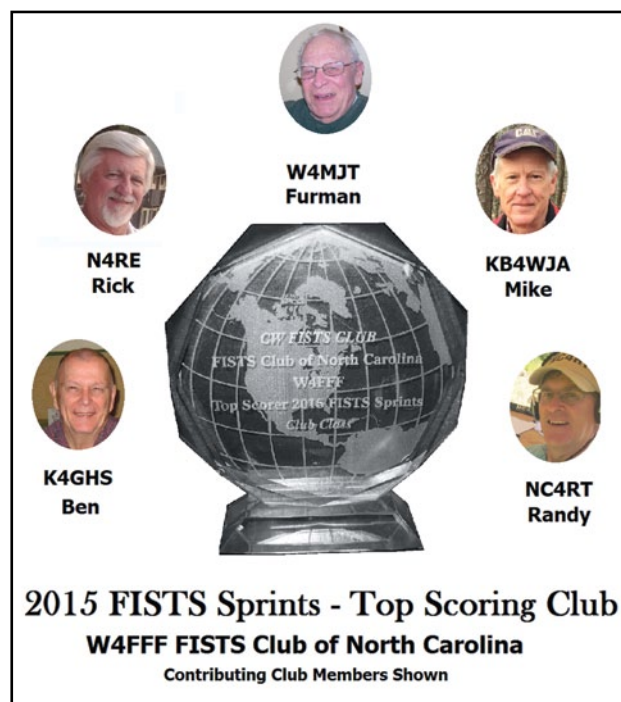
24 & 25 Million Award: F6HKA

Sprints Top Scoring Club!

The FISTS Club of North Carolina was honored as the 2015 Sprints Top Scoring Club. The award is an amazing crystal plaque, which we were certainly surprised to receive. Many thanks to The America's Chapter of the FISTS CW CLUB for recognition of our participation in the Sprints. Each and every one of our W4FFF Club members enjoys operating CW and promoting the Morse Mode. We challenge other Clubs to participate in the Sprints and encourage members and non-members alike to join in the fun and camaraderie that FISTS offers.

TKS & 73,

W4FFF FISTS Club of North Carolina
(Rick-N4RE)



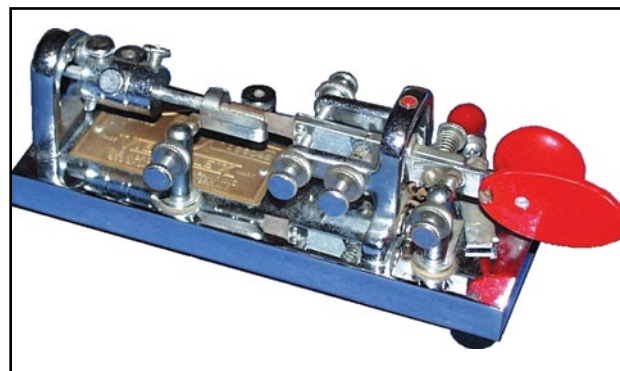
WELCOME NEW FISTS AMERICAS CHAPTER MEMBERS

Call	FISTS#	First Name	S/P/C	Call	FISTS#	First Name	S/P/C
KD4JVG	17538	Gregg	GA	W1FRA	17577	Frank	ME
VE3WMZ	17539	Bill	ON	AK4NY	17578	Tom	GA
KD2JQG	17540	Marty	NY	KD2JZS	17579	Michael	NY
W1WI	17541	Nicholas	TX	WD8JVV	17580	Edward	OH
KE4PEY	17542	David	NC	WG9WG	17581	William	IL
W6RRA	17543	Ron	CA	KF4RIF	17582	Michael	NC
KN0KN	17544	Karl	CO	KE2F	17583	Rollins	FL
VA7NCC	17545	Keith	BC	WB6MCW	17584	Carlos	CA
AC8RB	17546	Ronald	MI	KE0FFT	17585	Michael	CO
AG4XF	17547	Sam	AL	N9OAT	17586	Ralph	IL
N7PXY	17548	Patrick	WA	W4FCE	17587	Archie	FL
W6SU	17549	John	WA	W4OCO	17588	Mike	VA
KA0RSN	17550	William	CO	K9GHL	17589	Howard	IL
N4MB	17551	Mickey	FL	K5WTX	17590	Markus	OK
WA7CC	17552	Keith	UT	WA8FZZ	17591	Bill	NC
KE8PA	17553	Steve	WI	AE9Q	17592	David	AL
XE2HOE	17554	Modesto	DX	KE8CHG	17593	Richard	MI
KC1AID	17555	Len	MA	KF5RZG	17594	Eugene	LA
AD0DA	17556	Roberto	CO	KC9TUI	17595	John	IN
KA5WGL	17557	Alan	AR	W9MET	17596	Gerald	TX
WO7G	17558	Russ	CA	WZ0W	17597	Scott	MO
N4CVX	17559	David	TN	K4RDH	17598	Robert	KY
N7ETI	17560	Mark	OR	K5TSK	17599	James	AR
NJ2O	17561	Richard	NJ	KW4OH	17700	Lawrence	TN
KL7QW	17562	David	MO	W6VFW	17701	Tony	CA
K9NRW	17563	Barry	IL	N1JI	17702	Jock	NH
KC9KWS	17564	Alexander	MI	N7IBG	17703	Bill	ID
N7HSI	17565	Martin	AZ	KA9VAU	17704	Paul	TN
KM4FXK	17566	Edward	TN	N4KPJ	17705	Ron	FL
VE3RDE	17567	Roger	ON	AF5AF	17706	Rocky	AR
KA9P	17568	Scott	IL	KM4QDB	17707	Jeffrey	SC
AA7US	17569	John	CA	N5UZZ	17708	Mark	TX
W6MVM	17570	Michael	CA	W4CAN	17709	Craig	SC
KO4KL	17571	David	NC	WD8TD	17710	Tim	MI
K1LB	17572	Woody	NV	WA2KSM	17711	John	NY
N8QC	17573	Gary	MI				
VE3ZCV	17574	Cory	ON				
K0RTS	17575	Ross	CO				
KD0WRR	17576	Thomas	CO				

(continued, page 7)

New Members (continued)

Call	FISTS#	First Name	S/P/C	Call	FISTS#	First Name	S/P/C
AB6XG	17712	Richard	CA	K6IWA	17749	Bob	CA
N6XJP	17713	David	CA	KI7AFS	17750	Thomas	WA
KA3TTW	17714	Hugh	MD	N0DH	17751	Donald	MN
K3SUI	17715	Barry	WV	NJ3Z	17752	Larry	PA
W7TGG	17716	Timothy	AZ	N3CI	17753	David	OK
K0PGE	17717	Ronald	CA	K7KPX	17754	John	UT
KD0WNX	17718	Rob	IA	KG7BCK	17755	Roger	NV
NU7A	17719	Howard	WA	KC9SS	17756	Peter	WI
AE4ZR	17720	David	SC	WB8UTS	17757	Vernon	OH
WB2GTC	17721	George	NY	KI6RRD	17758	Jerry	CA
N3APD	17722	Paul	PA	KL2KL	17759	Chris	NH
KM4GBW	17723	David	VA	AA1PR	17760	Mike	VT
NI7F	17724	Richard	UT	KC4SIT	17761	Ernie	NC
W7PAZ	17725	Daniel	AZ	K2HG	17762	Steve	NY
AF8A	17726	Gary	OH	W5LDX	17763	Louann	TX
KD9VT	17727	Dave	IL	WB0MQA	17764	David	SD
KE0HJB	17728	Mark	IA	K8MPW	17765	Claude	ID
AF7HL	17729	Paul	WA	KC1CUH	17766	Peter	MA
KJ6RAT	17730	Brian	CA	W1RCP	17767	Robert	GA
KA5FVG	17731	James	TX	KF6FVD	17768	Joseph	CA
KH3AE	17732	John	WA	WSWL30	17769	Susan	CA
K4MZE	17733	Richard	GA	W8RJL	17770	Ronald	VA
K7CWA	17734	Carl	AZ	KM4NGV	17771	William	FL
W7ASL	17735	Club STN	AZ	W4HG	17772	Wayne	NC
K6CZH	17736	Erik	NV	W1VER	17773	Frank	MA
N8SY	17737	Scott	OH				
WB4HMA	17738	Joe	TN				
W7JKC	17739	John	WA				
AA7QK	17740	Nicholas	AZ				
N1NIJ	17741	Richard	CT				
AJ4VF	17742	Michael	TN				
N6RCD	17743	John	CA				
K4WAB	17744	Duane	VA				
N4YOK	17745	Jim	TN				
WH6YH	17746	Michael	GA				
WG9O	17747	William	TX				
W3JVC	17748	Joseph	OR				



1950 Vibroplex Blue Racer Deluxe. From the collection of K6DF.

The Story of a Special Key

by CW4 Karl Schulte, US Army SC (Ret); WA2KBZ

Its sits there on my desk, kind of big and worn and some say ugly—but it does have character. If you were that old and could still work as well, it would be amazing. So let's take a look the history of my favorite key, a key that sends Morse Code so smoothly and seemingly effortlessly that I have been accused of using an electronic keyer at 18 wpm on Straight Key night. They say a key needs to be broken in and that is true with most. I believe you will agree that this special key has been broken in for sure!



Karl Schulte's WW1 Key

As the final months of WW1 progressed, the British military shipped out this massive Marconi-style spark key. It was crafted out of a thick brass bar, heavy bearings and Bakelite (an early type of plastic). Its massive silver contacts were mounted on a wide, flat bronze spring on the base side and the key arm on the other. This avoided key bounce and made a solid contact for the high power currents of most military spark sets. A key (excuse the pun) to its smooth operation still felt today.

It was shipped to the Middle East Theater (possibly for the Dardanelles campaign or, more likely, further south to the Palestine/Arabian

Theater). There it sent war messages by the hundreds to and from field units such as those of Lawrence of Arabia and other British desert troops fighting the Turks, who were allied to the Germans. One of those units did not do well it seems, as it had to rapidly retreat and the key was captured.

During and after the war, this key, now in Turkey, saw continuous use by the Muhabere Bolumu radio units (i.e., Turkish Signals division). Finally, with its cover cracked in the Great War, which had been crudely re-glued and being thought obsolete, what with modern lower keying current tube CW rigs, it was replaced by a newer model and put in storage.

The old time operators passed on the story of the old captured key, down to the time when I was there working on the installation of a huge HF CW, RTTY and Secure Voice national and international radio system for their government. If you wonder where a few of the last HRO-500s went, there they were, in a secret site in Turkey. As I was bringing up the HF system's multiple remote transmitters and the receiver site, they used the sections that were running right away. Not yet fully set up on the RTTY and secure portions, the radio ops at comm central used their supplied keyers and paddles (and bugs too) to send encrypted as well as plain text "order wire" messages to sites around the country. They were very surprised when I grabbed a keyer and asked for a signal report myself. They had no idea that I knew code and was sending test messages and in Turkish as well. I not only knew good beginning Turkish, but the special Morse characters for Ç ö Ş ü, common in Turkish (as well as in German). I had learned both when I found out that I was heading to Turkey in the USAF some years before, after completing radio/microwave/tropo schools. In my spare time I had been helping

(continued, page 9)

Special Key (continued)

teach Morse to future military intercept operators and those “funny” characters were included in the course. This raised my stock in the Turkish operators’ and their commanders’ eyes considerably. None of the other systems engineers or techs knew Turkish, and I had also showed respect for them and their culture.

When I mentioned that I preferred a straight key for slower crypto messages (5 letter groups like guxdr kbidt jswqb) they went to a closet in the supply room and brought me a massive brown key with a broken, badly re-glued cover. It was dusty and looked really old. But when I opened the case, I was impressed by the heavy construction and the dime-sized, 1/4" thick silver contacts. When I set it down to try it, the action was a little stiff; a touch of oil quickly fixed that. I then started sending at a steady 18 WPM and it was as though it was sending effortless code for me. Maybe the spirits of its many former operators haunted it! But send it did. I don’t quite know why, but I guess a combination of the nearly inch-thick brass armature and the spring loaded massive contacts were responsible for the wonderfully smooth sending—plus those ghosts of old time radiomen! They asked me if I wanted it, and as they wanted to show appreciation for the respect and help I had given them, I accepted (of course! I lusted after that terrific key!). They then told me of its history as it had been passed down for 50 years or so. So this great veteran is still pounding out Morse for a fellow veteran today.

It sits on my desk in a place of honor next to my Dad’s Vibroplex paddle and his bug and WW2 flameproof (from when he was assigned convoy radio op and instructor duty in the N. Atlantic, although he was an Army SC officer).

His call, W5EWF, is preserved as a club station (see QRZ for that story). It is joined by my J3 and WW2 Signal Corps bug and WW2 Luftwaffe straight key with fancy fine tuning controls. I like and use them all, and have them set for different speeds, but this old WW1 is my favorite for serious slow/medium speed Morse and it cruises along at 16-20 for me. Sadly, Morse in Turkey, even on the land-line system, is nearly gone, as it is in almost all commercial and military operations around the world. Only our wonderful Amateur Radio hobby preserves its heritage and mystique. I hope my great old spark key, as well as my other special keys, will continue to pound brass and send out crisp, clean, beautiful code long after I am gone. LONG LIVE MORSE CODE!

73 de Karl, WA2KBZ/W5EWF

Learning CW

by Henry Koenig WD8Q #10010

In January 2003, I got back on the air after several years off the radio. After listening to the Ohio Slow Net (traffic net) for a couple of nights, I nervously checked in. Later that year I started taking the Maryland Slow Net traffic training course. After about 3 months, I copied radiogram number 188 and completed the course.

Since then, over a nine-year period, I’ve copied and sent about 20,000 radiograms on NTS and independent traffic nets, about 70 percent via CW.

The Morse Code traffic handlers of today are a small but dedicated army of public service volunteers. We certainly could use some assistance handling traffic. The average age of a CW traffic

(continued, page 10)

Learning CW (continued)

handler is between 65 and 80, and we lose more each year to the consequences of old age.

On any given contest weekend, literally thousands of signals are heard on the CW sub bands. I don't ask that CW operators give up their contests, or wallpaper searches, but if 10% of licensed radio operators would check into a CW traffic net just once per week, or even once per month, that would add about 70,000 traffic handlers to the mix, and would create a revolution of new stations handling traffic via CW.

I have a confession. I have enjoyed Morse Code since my late teen years, and while dating my girlfriend (now my XYL of 51 years), I would listen to W1AW on her family's console radio. There was no BFO (beat frequency oscillator) on that receiver, so I listened to the hisses caused by on/off energy of dits and dahs. That was mid-year 1960.

After 20 more years went by I finally got licensed with the call KA8KXE. In 1986 I upgraded to Extra class and changed my call to the current WD8Q. CW is first and foremost in my operating preferences. Yes, Morse Code is not the simplest thing to learn and use in amateur radio, but I suggest, it is the most rewarding. It is about the only learned skill left in the hobby. Almost everything else is "plug and play." It is part of our heritage and it would be sad to see it disappear, If licenses don't give it a try, it just might disappear.



J-51 key was used a long cord to key the SE-11 Signal Lamp so the operator could get away from the lamp. Enemy soldiers would shoot at signal lamps hoping to hit the lamp or the operator. From the collection of K6DF.

W8CYG'S STEALTH ANTENNA

by Earl J. Schnur, W8CYG

I first tried to pass the 13 WPM code test at 12 years of age. By the time I was 15 I had tried three more times with no success. I could copy 13 WPM off the air but the sound of the tape spacing really bothered me. In the spring of 1948 I contracted one of my many sore throats. At that time they put you to bed for a week. It so happened that my father had purchased a BC 348 military surplus receiver. With nothing to do I turned on the receiver and listened to NSS, the navy bulletin station. They sent code at about 18 WPM and a lot of it was five letter code groups. After a solid week of listening to nothing but tape spaced code, I was ready. I immediately went down to the FCC and passed with flying colors. Hooray! Now to get on the air.

I knew a few hams in the area and they advised me to get some kind of phone rig because I did not have an aptitude for CW. That was economically out of the question so I purchased a BC459 surplus transmitter, built a power supply, and I was on the air. For the first three months I never worked any one that I could copy solid. After three months of four hours a day I copied everyone solid.

Then disaster struck. I came from a broken family and we were forced to move into a housing project. NO ANTENNAS ALLOWED! I tried putting up an indoor antenna but the walls and ceiling had plaster lath with steel reinforcing. Then I had a brainstorm. I would put up an invisible antenna!

I bought a roll of #26 enameled wire, and cut it to a half wave on 40 meters. I then took one of the half-inch ceramic washers that I had laying around and pressed it into service as an

(continued, page 11)

Stealth Antenna (continued)

insulator. I link-coupled my final tank circuit to another tank circuit for DC isolation. I connected one end of the half-wave antenna to the linked tank circuit and, opening the window about 2 inches, threw the rest out the window. We were in a second story apartment so this was about 15 feet off the ground. I took the ceramic washer and tied another piece of #26 wire to it. I then went up a tree and fastened the end about 16 feet off the ground. Voila! An end-fed Zepp without feed-line losses!

The matching method was really crude. I cut off the brass end of a lead pencil and wrapped it with insulating tape. I adjusted the L-C ratio of the tank for the biggest arc with the pencil off the near end of the antenna. I figured if it was hot on this end, it would be hot on the other end. Fifteen-year-old kids tend to be quite pragmatic. That antenna worked like a charm. I even worked LA7Y in Norway in the middle of a DX contest. The only problem was wind. Every really heavy wind storm would take me off the air. Of course I did my antenna repair at night. The other people in the project were sure that I was crazy. They would see me doing things with my hands and then climbing a tree and there was nothing in my hands. Nevertheless, I was back on the air and have been ever since.

W8CYG later joined the USN and became an electronics technician, received a BSEE from Wayne State University in Detroit, Westinghouse Chief Engineer, and finally a Consulting engineer. Still operates all bands CW and 2-meter phone. The Amateur Radio start really paid off.

Wanting to Be a Radio Ham

By John Mcleod, N6RCD

For many years, I wanted to be a Radio Ham. In Britain, they are known as Radio Amateurs, but either way, I wanted to play. I built myself a single tube (valve) TRF receiver from instructions in the magazine *Practical Wireless*, and fired it up, powered by two dry cell batteries. I had a long wire antenna strung out of the window down to the bottom of my parents garden, with no tuner, or any regard to tuning. Unfortunately, the receiver was not equipped with a BFO, so I could not hear any bands with Morse transmissions. Not only that, but at the time (the 60s), SSB had become the preferred voice mode, and I couldn't resolve those either. As my reasons for building the radio in the first place were to achieve these aims, you could say that I failed almost entirely. I did however, listen to broadcast stations from Europe, and tried to convince myself that the reception was better than from my parents old Philco tube radio downstairs, which, along with most radios of that era, had all the shortwave broadcast bands, and the amazing Philco tuning "eye." Oddly, right from the outset, the idea of communicating with someone on the other side of the earth with a Morse key was an irresistibly romantic ideal. I imagined myself to be on a remote island, tapping out messages to those unfortunates who had to live in smoky cities. Either that, or I was working for the SOE during WWII as a resistance fighter in occupied France, tapping out clandestine messages to the brave boys back in Blighty.

These were the days when if you didn't know somebody who could teach you about this stuff, or weren't fortunate to find a suitable book in the library, you were probably out of luck. I have tried to impress on my kids how different it was

(continued, page 12)

Wanting to Be a Radio Ham (continued)

to be in the lap of ignorance for quite a long time before things could be made clear. I mean, how could I have built a radio that did not have a BFO in it? If I'd had access to the Internet of the future, or an Elmer, I would never have made that mistake. On the other hand, I suppose there is no substitute for experience and the things you learn from failures. Do you believe that? No, neither do I. I was very disappointed.

Anyway, back to Morse Code. One day, I found a store in the nearby town of Reading that sold army surplus stuff. One of the things they had was (oh boy, oh boy) a surplus GPO Morse Key. I snapped it up, and without an oscillator, I was tapping out code. Again, not having access to the relevant advice, I didn't realize that sending was the easy bit, and not being able to listen to Morse on the air, and not having a tape machine or MP3s to play, I lived in blissful ignorance as to how one was supposed to learn this mysterious art.

The years rolled by, and it was not until I moved to the USA in the mid 80s that I was able to afford to buy a real radio, a Kenwood R-2000. This I used to listen to the BBC and SSB ham conversations, and, finally, CW! At the end of the 80s, I finally got around to getting a ham radio license, and learned the code at 5 wpm. This was taught at the time as slow-speed Morse—none of your Farnsworth stuff, so each character was interpreted as a little picture in my mind, and how I passed the test is quite a mystery. I could copy behind quite well, which I think saved my bacon. I eventually got on the air with an ICOM IC-735 and a 10m vertical, and worked the world on SSB during the peak of the solar cycle, and once again, my CW aspirations were somewhat side-stepped. I did purchase some tapes from Jerry Ziliak, KB6MT, and as these were taught

from the aspect of listening to the rhythm of the code rather than remembering the pattern of dits and dahs, I made some progress. At this time in my life however, I spent an inordinate amount of time commuting from Mendocino County to Silicon Valley, so the only time I had to work on the code was in my car. This didn't work to well for me, and although I had the characters down, my speed didn't progress much beyond 10 wpm.

So, where am I in this process now? I got back into radio with the advent of digital technology, using WSPR and playing with DMR and DSTAR. I still like WSPR, and playing with antennas is great fun. However, using the digital voice modes, I finally realized that I really don't have much to say on the air, but more to the point, I realized after all these years that I was microphone shy. When I worked in Scotland in the early 80s, one of my bosses at the electronics company (Ferranti) was a ham, and he showed me his HF Transceiver, quite a fancy Japanese radio with all the knobs and buttons and lights. He told me that he was microphone shy, and to my chagrin, I laughed at him and asked why he had such a fancy radio if all he was going to do was use Morse Code. To this day, I still wish I could see him again and retract that cutting statement.

So. It has taken me all of 50 years to get to the point at which I realize that I want to learn CW properly, and get on the air and use it. I finally sat down with the G4FON trainer, some MP3 code tapes and my iPhone, and here I am, two weeks into the process, and I'm able (on a good night) to copy 30 wpm characters at 12-15 wpm. I'm sure all those years helped install the patterns in my head, but only now am I seeing that I am starting to copy each character without thinking about it. At 62 years old, I am finally going to do what I wanted to do as a young boy.

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Wanting to Be a Radio Ham (continued)

Why am I writing all this stuff? Well, for one reason, I thought some of you might enjoy the tale, as I'm sure I'm not alone in my experiences, but more than that, I would like to encourage you to think about what you really want to do with Ham Radio, and not what the media would try and persuade you to do. Yes, I know this is a difficult thing to do, but I do wish that I'd had an Elmer, or at least somebody who could give me the benefit of their sage advice. The Internet is indeed a great place to get such information, but I think I would have liked to have learned this stuff the old fashioned way, by word of mouth, as somehow, it fits in with the old-fashioned roots of CW and radio, and my romantic ideal of what radio is about. Anyway, here's to the next 20 years of using Morse Code. See you on the air!



Late 60s, Ham Key HK-1. From the collection of K6DF.

History of KN0WCW—FISTS USA Club Call

Nancy Kott (WZ8C now SK) felt that our chapter should have a club call following on our FISTS friends across the big pond to the east. However, as we were, at that time, the North America Chapter the call would have to be restricted to use by US licensed members, only.

She first obtained the KC8VIO call. Then she applied for a suitable vanity call, which would reflect it being FISTS CW Club and also the statement that by a majority we were in favor of all US amateurs knowing CW (KN0W CW) for their respective license class. She obtained KN0WCW as our FISTS USA Club call.

Since that time KN0WCW has appeared in thousands of logs throughout the world thanks to hundreds of US FISTS members who put the club call on the air.

Any active US licensed FISTS member can request to operate the KN0WCW call. We make it simple as possible. If you are interested, please contact Cody Codianni, KC2LSD, the KN0WCW Sked and QSL MGR at kc2lsd@fistsna.org. More information about using the FISTS Club call is available on the following web page:

<http://www.fistsna.org/KN0WCW.html>

A Dashing Man of Vision

Researched by Tom Wedding, AI4QP #10001

This young man was born in the late 1700s in Charleston, MA. He had a great passion for painting and sculpture. He was a real artist at heart with a keen mind for inventions.

He went to Yale University and studied with Benjamin Silliman, a great man of science, and studied natural philosophy with Benjamin Day. These men also lectured on the new science of electricity. He learned a great deal from them about batteries and constructed several of his own. But, his real passion was art.

He graduated from Yale in 1810 and the following year, he finally got permission from his parents and the funding he needed, to study art abroad. This was a great undertaking back then, you couldn't just hop a plane and go abroad! He studied in London with two American-born masters: Washington Allston and Benjamin West. He studied at the Royal Academy of Arts. His first and only sculpture was a figure of the dying Hercules, which won great acclaim and a gold medal in the Adelphi Society of Arts Competition. After spending all the funds that his parents could spare, he had to return back to the states.

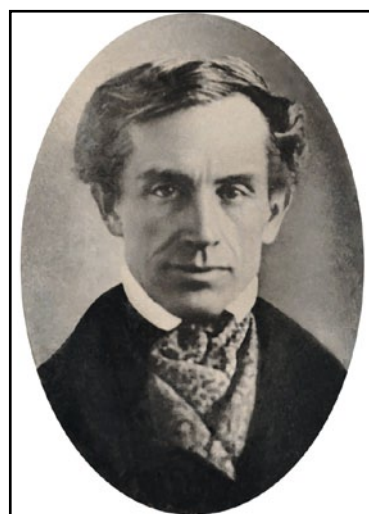
Back in the states, he became quite a portrait painter for many people of fashionable society, one of whom was James Monroe, the 5th President of the United States. He also did a portrait of the inventor Eli Whitney and a famous French soldier and statesman, Marquis de Lafayette. Not a bad clientele! Even with this work, he had a hard time earning a living as an artist. He and thirty other artists founded the National Academy of Design in 1826. He also served as its first president, from 1825-1845. During that time he traveled back to Europe and perfected his artistic technique.

In 1832 he was appointed professor of painting and sculpture at the University of the City of New York (now NYU). All this led to an involvement in quite a few other interests, one being politics. In 1836 he ran for Mayor of New York City, but lost. What ambition! He even tried to get commissioned to paint historical murals for the rotunda of the capital in Washington DC. He ran for Congress in 1854, but lost again.

Painting and art were still his greatest loves but it was just not paying the bills and allowing him to pursue his passion as a serious artist. He had to fall back on his ability as an inventor. He invented a pump for the fire engine and a marble cutting machine to reproduce statues mechanically, but his most successful effort was the telegraph. With help from colleagues and a grant from Congress, on May 24, 1844 the famous message "What hath God wrought" was tapped out over the wire.

In the 1860s he also became Vice-President of the new Metropolitan Museum of Art and a trustee of Vassar College. He was honored by the telegraph industry with a statue in Central Park in New York City (in 1871).

My hat is off to this dashing man of vision: Samuel Findley Breese Morse 1791-1872.



Samuel Findley Breese Morse, 1840

NOTICES

Expired Membership Dues

If your membership dues expired after November 7, 2015, this is your last mailed issue. You can look up your FISTS dues expiration date on the following web page:

<http://www.fistsna.org/expdate.php>

Membership can be renewed for up to 5 years at a time. One year FISTS membership is \$10. If you desire to renew for 2 years, your dues would be \$20, 3 years for \$30, etc.

If you wish to renew your membership dues, you may do so on the following web page via PayPal:

<http://www.fistsna.org/howdoi.html#join>

If you are going to renew your membership dues via the mail, please send a check made payable to "FISTS CW Club" to this address:

FISTS CW Club
c/o Dennis Franklin, K6DF
4658 Capitan Drive
Fremont, CA 94536-5448

Dayton Hamvention May 20-22, 2016

Please remember to visit the FISTS CW Club booth "NH0136" when you visit the Dayton Hamvention.

Pick up a free pen and try your luck at sending Morse Code with your left foot. If you pass the test (it's an easy test) you will receive a handsome QLF Certificate you can hang on your shack wall.

Remember to see us in the North Hall at booth NH0136.

See you there!

We need articles and reviews for *The KeyNote!*

NOTE: Image files need to be high resolution
JPGs or 300 dpi TIF files at least 5" wide.

Send your Word or text files to
keynote@fistsna.org

FISTS STORE

The FISTS Store Has Re-Opened!

The FISTS CW Club Store has re-opened and is ready once again to fulfill your orders. Will Dix, KF4IZE, of Fayetteville, NC is our new Store Manager and can be reached via e-mail at:

fistsstore@fistsna.org

Store orders will be shipped out each week. Prices shown include USA postage ONLY!

Please contact Will Dix at the above e-mail address for postage and shipping to DX addresses. Visit the FISTS Store web page or a complete list of all store items available for purchase. Photos of all items are presented on the store website page.

<http://www.fistsna.org/store.html>

You may purchase store items on the webpage via PayPal or you can send a mail order to Will at the following address:

FISTS CW Club
 c/o Will Dix KF4IZE
 2028 Merrimac Drive
 Fayetteville, NC 28304-2619

If you intend to send your order by mail, contact the Store Manager Will Dix, KF4IZE, to check item availability and to hold item(s) for you.

Make your check out to "FISTS CW Club", mail your check along with your order. Be sure to include your shirt size, if ordering shirts, shipping address, and an e-mail address or telephone number in case Will needs to contact you about an item that is currently out of stock. If you include an e-mail with your order, a tracking number will be sent to you so you can track your shipment.



The Original Digital Mode T-Shirt

Light sand color made by Gildan®. 100% heavy-weight cotten, preshrunk, without pocket.

SKU# NA014T

\$9 each, incl. postage

Sizes: M, L, XL, 2XL, 3XL



White T-Shirt with Color FISTS Key Logo

Gildan® brand, 50/50 preshrunk, white color, no pocket. Color FISTS logo on front only.

SKU# NA015T

\$11 each incl. postage

Sizes: M, L, XL, 2XL, 3XL



My Fingers Do My Talking T-Shirt

Carolina Blue color made by Gildan®. 100% heavy-weight cotton, without pocket.

SKU# NA017T

\$9 each incl. postage

Sizes: M, L, XL, 2XL, 3XL



Light Blue Polo Shirt—FISTS CW Club Key Logo

Jerzees® brand, 50% cotton/50% polyester. FISTS logo embroidered over left breast, no pocket.

SKU# NA001P

\$15.50 each incl. postage

Sizes: M, L, XL, 2XL, 3XL

LETTERS TO THE EDITOR

Editor:

I don't know how many readers don't know this. It was a massive surprise to me to find this noted in "The Telegraph Instructor" by G M Dodge: A telegraphy station consists of a battery, a relay, a sounder and a key with locking arm. Earth ground was the return for the negative side, hence only one wire was typically used leading to another station. I was skeptical that the earth would have low resistance for this to allow a current path to another station. Perhaps someone would want to write a follow up on this.

Jerry Peterson, K9BWE

Dear Editor:

Loved my first edition of The Keynote (#4, 2015). Many thanks to Randall Noon/KC0CCR for his "Three Secrets of CW QRP" article. I pass for information only: folks in need of a 600 Hz side tone for ZeroBeating that find themselves with YouTube access may find this 30 second 600 Hz clip a great help <https://youtu.be/ERHcqYNLHyg>. Oh, and if one were able to record that to a mini-digital voice recorder, or had the clip on a smart phone with network coverage, they'd also have a handy-portable audio ZeroBeat tool for the road. Another option for kit builders is the "Grandson of Zerobeat Kit" found at <http://wb9kzy.com>, which provides a 'green' light when you've tuned your QSO partner's signal to 600 Hz.

73, Duane/K4WAB/#17744

Editor:

In issue #4 of 2015, Randall's article (KC0CCR) "Three secrets of CW QRP" was a winner. It provided the theory behind successful QRP contacts, and I learned a lot from it. That's an article to be kept and re-read from time to time.

72 de Terry W1QF

Elaine gave permission for her note to also be published as a "Letter to the Editor"/SK report of her husband. We extend our sympathies and deeply regret Lynn's passing. His FISTS number was 13897.

Editor

Hi!

Please remove Lynn Rabacher, K8ETR, deceased, from your email list. Lynn passed away in May, 2014. He was a gentle, caring man who loved "fisting." I can still picture him at his radio, transmitting. He was so excited when he received a contact from someone overseas. The walls in his ham radio room are still covered with QSL cards from all over the world. He was dearly loved and is greatly missed. Thank you,

Elaine Rarabacher

SPRINT INFORMATION

FISTS Sprints are a great way to meet other FISTS members, collect FISTS numbers, and have a lot of fun. We hope to work you in the next FISTS SPRINT.

OBJECTIVE:

To exchange specified information with as many FISTS members as possible using Morse Code only, and within the time frame stipulated.

PARTICIPANTS:

Any properly licensed amateur radio operator, FISTS member or non-member is invited to take part in the contest. At least one of the two stations in each QSO must be a FISTS member.

DATE AND TIME:

Fall **SLOW SPEED SPRINT**—runs from 1700 to 2100 UTC on October 3, 2015

Fall **UNLIMITED SPRINT**—runs from 1700 UTC to 2100 UTC on October 10, 2015

Winter **SLOW SPEED SPRINT**—runs from 1700 UTC to 21 UTC on February 6, 2016

Winter **UNLIMITED SPRINT**—runs from 1700 UTC to 2100 UTC on February 13, 2016

BANDS:

Operation is limited to the following amateur bands: 3.5, 7, 14, 21, and 28 MHz amateur bands. Look for other participants around the FISTS frequencies: 3558, 7058, 14058, 21058, and 28058 kHz.

Work stations only once per band.

ENTRY CLASSES:

There are three entry classes: Club, QRO, and QRP.

QRO: Over 5 watts–100 watts output power. 100 watts is the maximum output power allowed.

QRP: 5 watts output power or less.

Club: (regardless of power).

Entry class **MUST** be shown on logs to be considered for entry in a particular class, or will be assumed QRO. An entry must be **ONE** class only, no combination of classes is allowed.

EXCHANGE:

The following information must be exchanged by both stations to count as a valid contest QSO:

FISTS members: RST, U.S. state/Canadian province/DXCC country, first name, FISTS number.

Non-FISTS members: RST, U.S. state/Canadian province/DXCC country, first name, output power.

DX COUNTRY STATUS:

U.S. states and Canadian provinces are those states and provinces that are contiguous and found within the North American continent. DX are those entities listed in the current ARRL DXCC publication, other than the above.

MULTIPLIERS:

Each U.S. state and Canadian province counts as 1 multiplier. Count each only once, no matter how many times worked. Each DXCC entity counts as 1 multiplier. Count each only once, no matter how many times worked.

SCORING:

Each QSO with a FISTS member: 5 QSO points.
Each QSO with a non-FISTS member: 2 QSO points.
Final score is total QSO points times multipliers.

CERTIFICATES:

Certificates will be awarded to the first, second, and third place finishers in each Entry Class.

LOG SUBMISSIONS:

All log entries must be received within 30 days after the Sprint to be considered valid. Logs not sent to the proper address will not be considered for entry. The logs will be spot checked for accuracy and correct scoring procedures.

All logs **MUST** contain the following information to be considered for entry: Your name and call sign. Club name if entry is for a club. Your FISTS number if a member. Entry class. Your claimed score. List of claimed multipliers. The entry form is the best way to record this information.

ELECTRONIC LOGS:

We accept electronic logs in standard Cabrillo format or ASCII text files. If you're not sure about your format, please contact me before the contest entry deadline. E-logs are sent to n2ed@fistsna.org ONLY.

PAPER LOGS:

Send log and forms to: FISTS Sprint Log, c/o Ed Wlodarski N2ED, 3 Shore Rd., Andover, NJ 07821-2240.

FISTS WINTER 2016 SLOW-SPEED SPRINT RESULTS

Slow-Speed QRO Category

Call	Name	State	FISTS#	Total Qs	Score	Items Won
AF0E	Alex	CO	13566	58	6118	Shirt, Mug and Pin
K5YQF	Cecil	TX	8077	19	1360	Shirt and Pin
KN0WCW	Cody	NJ	10000	16	852	Director
K9AAA/4	Dave	FL	5058	10	423	Pin
K2HT	Dick	MO	11565	8	259	Pin
EA8/HB9FIH	Erich	DX	16938	5	125	Pin
N5XGG	Joe	TX	9974	4	80	
WS9E	Joe	WI	6791	4	80	

Slow-Speed QRP Category

Call	Name	State	FISTS#	Total Qs	Score	Items Won
W2FAM	Phil	NY	12650	24	1887	Shirt, Mug and Pin
K3JZD	Jody	PA	17513	20	1092	Shirt and Pin
W1WQG	Bruce	CT	13876	3	36	

Soapbox

Call	Comments
W1WQG	<i>Ran QRP. Very poor conditions.</i>
K3JZD	<i>Was pretty lonely on 15m and 20m. Conditions were fair on 40m. Used a Softrock RXTX and a small QRP amp to obtain 5 watts.</i>
EA8/Hb9FIH	<i>I worked with 13 wpm but too slow, if QSB no chance for a slow QSO. 16 much better but as maximal and all with more should be disqualified.</i>
W2FAM	<i>I wish I heard more FISTS on the air. Lots of QRM from other contests. However, always lots of fun.</i>
N5XGG	<i>Just renewed membership last fall. Have not been on radio the last 2 years. Doesn't seem to be as much FISTS activity as observed a few years ago. Hope to participate more this year!</i>

FISTS WINTER 2016 UNLIMITED-SPEED SPRINT RESULTS

Unlimited-Speed QRO Category

Call	Name	State	FISTS#	Total Qs	Score	Items Won
N2ED	Ed	NJ	2454	70	10778	Director
W2FAM	Phil	NY	12650	34	3358	Shirt and Pin
K3JZD	Jody	PA	17513	33	2508	Mug and Pin
KE4COH	Bryan	SC	7678	14	832	Pin
K9AAA/4	Dave	FL	5058	10	423	Pin
K5YQF	Cecil	TX	8077	7	192	Pin
K8BAT	John	OH	16091	6	150	Pin
OK2VWB	Vasil	DX	17006	4	80	
WS9E	Joe	WI	6791	4	80	

Unlimited-Speed QRP Category

Call	Name	State	FISTS#	Total Qs	Score	Items Won
KG4UPO	Wiley	VA	10035	12	513	Shirt, Mug and Pin
W1WQG	Bruce	CT	13876	8	259	Shirt and Pin
KB3CVO	Tom	CT	8110	10	228	Mug and Pin

Unlimited-Speed Club Category

Call	Name	State	FISTS#	Total Qs	Score	Items Won
W4FFF	Randy	NC	970	70	8758	

Soapbox

Call	Comments
W2FAM	<i>Sure had fun as always. Thanks all those responsible for our Sprints.</i>
KB3CVO	<i>5 watts only could work for 1.5 hours. Had fun.</i>
K8BAT	<i>I enjoyed the Sprint!</i>
W9SE	<i>Happy New Year! I was using oldest rig, a TT OmniV and a "stealth dipole" only up about 20 feet. Too cold to mess with till spring.</i>

FISTS SPRINT ENTRY FORM

Entry Class: QRO _____ QRP _____ CLUB _____

SCORING: _____ QSO points X _____ multipliers = _____ final score

CLUB Name _____ FISTS Club # _____

Name _____ Call sign _____ FISTS # _____

Address (Street, City, State, Zip Code) _____

E-mail Address (optional) _____

MULTIPLIER CHECK-OFF LIST

1	2	3	4	5	6	7	8	9	0	VE	DX
CT	NY	DE	AL	AR	CA	AZ	MI	IL	CO	NB	NF/LB
MA	NJ	MD	FL	LA		ID	OH	IN	IA	NS	NT
ME		PA	GA	MS		MT	WV	WI	KS	PE	YK
NH			KY	NM		NV			MN	QC	BC
RI			NC	OK		OR			MO	ON	
VT			SC	TX		UT			NE	MB	
			TN			WA			ND	SK	
			VA			WY			SD	AB	

Please enclose paper logs ONLY, photos, comments, ideas, etc., with your entry and mail promptly to:

FISTS Sprint Logs

Ed Wlodarski N2ED
3 Shore Rd.,
Andover, NJ 07821-2240

I HAVE OBSERVED ALL FISTS SPRINT COMPETITION RULES AS WELL AS ALL REGULATIONS FOR AMATEUR RADIO IN MY COUNTRY. MY REPORT IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE. I AGREE TO BE BOUND BY THE DECISIONS OF THE FISTS AWARDS COMMITTEE.

Date _____ Signature _____ Call sign _____

Comments:

TO JOIN OR RENEW YOUR FISTS MEMBERSHIP

If you live in North, South or Central America, you may join the Americas Chapter of FISTS. Membership is open to all people interested in Morse Code, irrespective of their speed and ability. You can download a North American membership application from <http://fistsna.org/pdfdocs/nafists.pdf> or use the application form on the inside back cover of *The KeyNote*. You can also have an application e-mailed to you by sending your name and address to Jim Ranieri, AA9LS, aa9ls@turbotoads.com, or mail a SASE to Jim at 33778 Rebecca Rd., Kingston IL 60145 and Jim will send you an application via return postal mail.

The membership fee to join or renew is \$10.00 per year. This includes having *The KeyNote* mailed to you. You may join or renew for up to 5 years at one time. Family members of a current dues paying FISTS member may join and receive a membership number without paying additional dues, but only one issue of *The KeyNote* will be mailed to a household.

The membership fee to join or renew as a regular member and receive *The KeyNote* electronically (PDF file) is \$10.00 per year. Again, you may join or renew for up to 5 years.

FISTS numbers are not reassigned, so if you had a number in the past and renew your membership, you will retain the same membership number.

If you are age 80 and older, or under age 18, or have a family membership, membership is free. If you qualify for a free renewal, please drop Dennis K6DF a note by email or by postal mail around the time of your renewal each year. Let us know you are still interested in CW and FISTS so we can update your membership info and keep you on the Active Members List.

To join or renew, send a check or money order with your membership fee, along with your membership application, to Dennis Franklin K6DF, 4658 Capitan Drive, Fremont, CA 94536-5448. Please make checks payable to "FISTS CW Club." Include your call sign and FISTS number (if you are currently a member) on the memo line.

If you wish to pay your membership fee using PayPal, go to <http://fistsna.org/howdoi.html>. Use the proper PayPal box (JOIN or RENEW) to select the number of years you wish to Join or Renew. Enter your CALL and NAME to JOIN or enter your CALL, NAME, and FISTS Number if RENEWING in the space provided. For the over 80 or under 18 age groups, also include your date of birth, please. Be sure to include your home mailing address if it is different from the one you use for PayPal. Then click "Pay Now."

For non-US applicants and renewals, please make sure checks, money orders and PayPal funds are in USD (US Dollars).

Members that elect to receive their newsletters via on-line download will be send a User ID and Password from the newsletter server once their membership application has been processed. Links to change or reset your password are available on the main page of the Americas website <http://fistsna.org>.



FISTS CW CLUB Membership Application/Renewal



For North, Central, and South America including all territories and islands.

Call sign _____ NEW Member or Renewal, Enter FISTS # _____

Name _____

Address _____ City _____

State _____ ZIP+4 _____ Phone _____

Rig (optional) _____

Other club affiliations (optional—AARL, RSGB, etc.) _____

A User Name and Password will be sent to the e-mail address you provide below to give you access to current On-Line Newsletters as well as Member Only Areas of the FISTS CW Club web site.

E-Mail _____

Please check the appropriate box and enclose annual dues of \$10 per year in U.S. funds. Example...\$10 for one year, \$20 for two years, \$30 for three years, etc.

Regular Membership-\$10 per year Please Circle...**Mailed** and/or **On-Line*** Newsletters
(We encourage members to elect to download the newsletter to help lower printing and mailing costs.)

Family Membership-FREE—Please provide the Name, Call, and FISTS # of the dues paying family member.

Name _____ Call _____ FISTS # _____

Under Age 18-FREE Membership—Birthdate Required mm/yyyy _____

Over Age 80-FREE Membership—Birthdate Required mm/yyyy _____

Signature _____ Date _____

Please make checks payable to “FISTS CW CLUB” and send to:
Dennis Franklin, K6DF, 4658 Capitan Dr., Fremont, CA 94536 USA

*E-Mail required
09/24/2015

Americas Chapter, FISTS CW Club
c/o Dennis Franklin K6DF
4658 Capitan Drive
Fremont, CA 94536-5448
www.fistsna.org
webmaster@fistsna.org

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PULASKI, TN 38478

You Can Find Your Renewal Date on the Mailing Label
Or On the Following Web Page

<http://www.fistsna.org/expdate.php>

Send in your stories and photos for *The KeyNote!*

When you've worked a FISTS, you've worked a friend.

