

# 10-10 INTERNATIONAL NEWS

Volume 41 Issue 2

\$1.50

April 2003 (SPRING)

## Remembering STS-107

Commander

Rick D. Husband

Pilot

William 'Willie' C. McCool

Payload Specialist

Ilan Ramon (Israel's first astronaut)

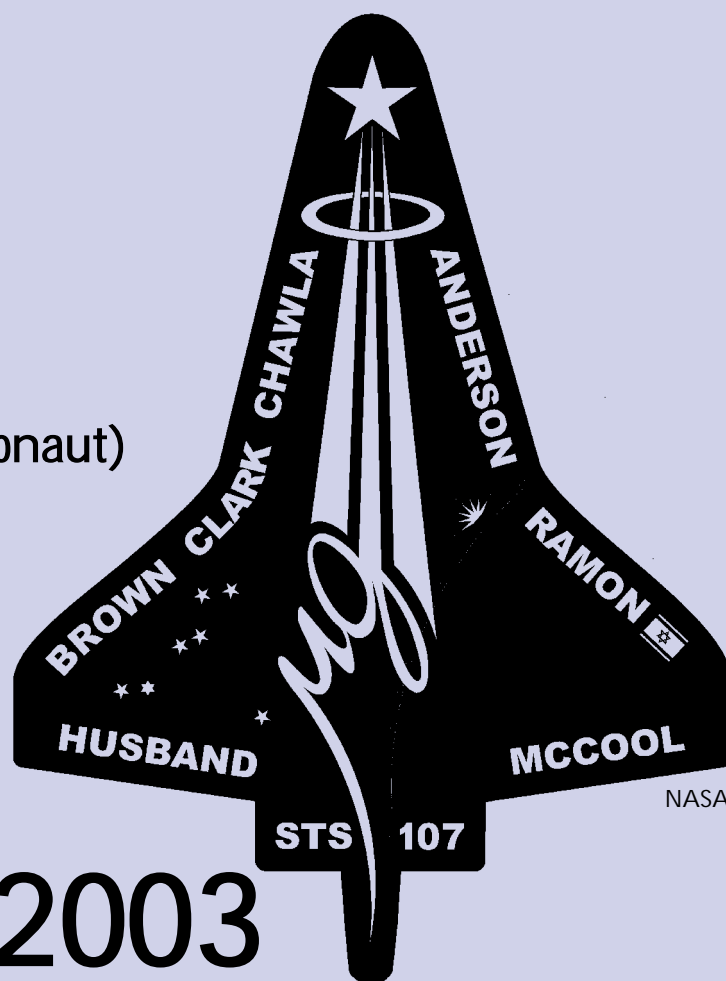
Mission Specialists

David M. Brown KC5ZTC

Laurel B. Clark KC5ASU

Kalpana Chawla KD5ESI

Michael P. Anderson



## February 1, 2003

IN THIS EDITION - IN THIS EDITION - IN THIS EDITION - IN THIS EDITION

**CONVENTION UPDATE and REGISTRATION - UPDATE for AOL USERS**  
**40th ANNIVERSARY and WINTER PHONE QSO PARTY RESULTS**  
**PSK...A REPLACEMENT FOR RTTY? - HAMVENTION 2003**

## The 10-10 International News

is published four times annually by the TEN-TEN INTERNATIONAL NET, INC. Publication dates are approximately mid January, April, July and October.

Each paid-up member will receive a copy. This is an independent publication. Permission to reprint is hereby granted, providing suitable credit is shown.

News items should be sent to the Editor. Technical articles and information on all 10-meter activities or news are welcome and solicited. All copy submitted must be typed, sent on computer disk or via E-mail. Suitable formats will be provided upon request.

Photographs are encouraged. Black and White or Color are acceptable. Include complete information on the back of each photo. Attach a label or other suitable paper to the back of the photo and write all information on the label, not the photo. If sending digital images, high resolution of a minimum 300 dpi must be used. Please do not send newspaper or digitally printed photos as they cannot be used.

Please mail all articles and photos to:

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**312 N 6th Street, Plattsmouth, NE 68048-1302**  
**Email: n0wy@alltel.net**



**10-10 CHAPTER ACTIVITY REPORTS** should be sent to the Chapter Coordinator  
**ADDRESS CHANGES:** Members with US Zip Codes should send address changes to the Data Manager. All other members should send changes to the DX Area Manager.

**NOTE: 10-10 IS NOT RESPONSIBLE FOR POSTAL SERVICE DIFFICULTIES**

**DEADLINE FOR NEXT ISSUE: 23 May 2003**

Member  
**AMATEUR RADIO NEWS SERVICE**



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## HOT OFF THE PRESS

Steve Rasmussen NØWY #68684  
Editor 10-10 News



What happened to the band? I had an opening for a couple of hours during the Mobile Contest, but have heard almost nothing since. I understand old Sol has been spraying away at us again. Maybe now with the Spring Solstice upon us, things will improve. Hope so, but not counting on it. I will take advantage of any openings I can. I will be active during the Spring CW QSO Party using PSK. Look for me on the waterfall. Oh yeah, regarding the waterfall...Jeff N7YG #65084 has written an excellent article on PSK31 beginning on page 16. I have been using PSK31 for about a year now and find it absolutely fascinating. During ARRL Field Day last year I operated PSK31 and had a blast. Certainly to be considered one of the fun modes.

Now on to contests. The results of the 40th Anniversary QSO Party are listed on page 9. We had a several entrants, some who did very well. The membership found 269 different members with a "40" in their membership number. Looks like contests were the best place to find them. How many of you will be looking for "41" this year? I have not been on the air much this year, and I've found five already. Please remember to log the mode of contact. I know most of you use SSB, but I had quite a few log CW and PSK contacts also.

The results of the Winter Phone QSO Party are listed beginning on page 28 and I did something different this time. Since I am doing the scoring, I tried a different output for the NEWS and it looks pretty good. Hope you like it. It looks like the big hitters in this contest were scattered all over the place. There was no one location to take all the glory, although W5 and W7 took 3 spots each, leaving W6, W2, Hawaii and Ireland one spot each. I will definitely be glad when I get my antenna up on the tower. Maybe then I can hear somebody, propagation willing!

There was a recent complaint from a member that he felt that Ten Ten had sold his name to a marketer's list. It seemed pretty compelling, since his name in the database had an error in it, and that error was showing up in mail he was receiving. I have spoken to the Database Manager and he states quite strongly that Ten Ten has NEVER sold any information, except as membership roster databases (such as XXIP and XXIQ) to the membership themselves. What happened after the member got it we can't know, but the fact is - Ten Ten didn't do it, and never will.

The next issue of the NEWS will probably hit a little earlier than usual. We are going to try and get it done IN TIME for the San Antonio Convention. That means I will be working on it sooner than usual. Deadline for unsolicited articles this time will move up from June 1 to May 23. If you have any pictures or articles you would like to see in print, please get them to me early! The earlier the better.

Hope to see you in Texas! Many 73 de Steve NØWY

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## 10-10 NET CONTROL STATIONS

ALL NETS BEGIN AT 1800Z

Monday (28.380) .....	Dick, K6PZE #01341
Monday (28.800) .....	Scotty, WA6TQC #00071
Tuesday (28.380) .....	Tom, KA9EKG #70731
Tuesday (28.800) .....	Russ, N6CEX #29906
Wednesday (28.380) .....	Chris, N7PVL #58018
Wednesday (28.800) .....	Louise, N6ELK #36654
Thursday (28.380) .....	Bob, N6OPR #45715
Thursday (28.800) .....	Robert, KQ4PK #63201
Friday (28.380) .....	Bill, KB9MJ #22313
Friday (28.800) .....	Alan, VE4ALN #69217
Saturday (28.380) .....	Ed, KC4RIY #58203
Saturday (28.800) .....	Donnie, KB6QLC #42822
Sunday .....	"NEVER ON SUNDAY"

Alternate Net Controller .....	Don, KBØON #29849
Alternate Net Controller .....	John, NS2M #72143
Alternate Net Controller .....	Bob, WA6GSV #07673



*from the office of the*  
**PRESIDENT**  
**10-10**  
**International**

**Chuck Imsande**  
**W6YLJ #19636**

As we begin this new year of 2003, I have established a number of goals for my administration.

One of my goals for this year is the increase in 10-10 membership by a net gain of 500 members. A look at last year discloses that we had a net gain of 240 members closing out the year 2002. This made the active membership 7237. We know of 442 members that became SK's last year. At year end we had 1217 life members. We have a good start for the year 2003 with 42 new members in January and 89 new members in February. The highest number issued, as of March 7, 2003 was 73804. It was issued to Arleigh Ronning, KD6KMQ, of Tehachapi, CA.

It is important that we maintain a high level of membership renewals. Every organization requires membership in order to continue to offer the membership services and activities that the membership deserves. We now send a letter approximately two months prior to the expiration of members dues, reminding them it is time to renew. If no response is received a second letter is sent approximately one month after their dues expires suggesting that they renew. You can always check the mailing label on your copy of the NEWS for your dues expiration date. It is shown on the right side of the second line of the address label. For example it is shown as 04/2003 with life members shown as 12/9999.

Another of my goals is to improve the visibility of 10-10. One way we accomplish this is the Dayton Hamvention. 10-10 will be there again this year with a booth and a forum. If you are planning to attend Dayton this year, please stop by the booth and say "hello" and plan to attend the forum. Check the program for the exact time and room number for the forum. Dayton is always an interesting gathering and should be attended at least once in everyone's ham radio lifetime.

You can help to improve the visibility of 10-10 by giving a program about 10-10 at a local ham club. We have a package of slides with a program that almost does it for you. Check with me for the loan of the slide package and some guidelines on how to present the program. It is easy!

Our club station, W6OI, #109, is available for your use at any time as a special event or for any other reason. We can even provide you with W6OI QSL cards for your special event at no charge. You can activate W6OI by requesting its use from our Station Trustee, Jack Moore, K5CC. Jack's phone and address are listed on page 2. Putting W6OI on the air is another way of improving the visibility of 10-10.

Our Scholarship Foundation fell a bit short of meeting our goal of \$5000 in contributions for the year 2002. The actual amount received was \$3635, a short fall of \$1365. Another one of my goals for this year is meet our requirement in contributions of \$5000 so that we can fund our Scholarship program without any help from the 10-10 treasury. We are committed to 5 \$1000 scholarships for 2003 and if contributions do not meet that commitment, the 10-10 treasury will have to make up the short fall.

10-10 has received a good amount of publicity regarding our Scholarship program. We have one of the largest scholarship programs of any amateur radio organization with our five \$1000 awards each year. It is the hope of the Board that Scholarship Fund will be self-supporting with contributions so that we can maintain the five scholarships each year. Since establishing the Scholarship Foundation all contributions are tax deductible.

Your consideration in making a contribution for the year 2003 to the Scholarship Foundation will be appreciated. Remember your kids or relatives are eligible to receive one of our five scholarships. Information on how to apply for one of our scholarships was listed on page 22 of the January issue of the NEWS.

Another one of my goals for this year is to improve membership services. If you have any ideas or suggestions on how we can improve, or add to our membership services, please let me know.

Our web site, [www.ten-ten.org](http://www.ten-ten.org) is an excellent membership service. We have recently gone through a detail update. A new feature has been added. On the left side of the title page a button has been added "Ask 10-10". A click on this button takes you to a page that lists all of the 10-10 Committee assignments. From this you can determine just who to send your e-mail in order to get answers to questions or problems that you need resolved.

And one of my important goals is that we all operate within a clean and enjoyable 10-meter band environment. This is possible if we all try to observe good radio manners. I think we can all remember our early days on the air. Our first few contacts were "nervous time". We were not sure just what to do or say, and I am sure we all made mistakes in our operating procedure. That's why we had "Elmer's". Let's give the new hams and our new 10-10 members help in "getting their feet on the ground".

Those are some of my goals for this year and for the future of 10-10. I hope you will help me achieve these worthwhile goals.

I am looking forward to seeing many of you at Dayton at the 10-10 booth, and also at the Convention in San Antonio. A great time is being planned by the Convention Committee under the direction of Ray Dobson, N5DAS, with an unbelievable list of prizes.

## How the list and website work from the 10-10 perspective

*LB Cebik W4RNL #41159, tentenlist coordinator*

It struck me that some folks who have more recently subscribed to our list/digest may not be too familiar with how 10-10 maintains a website and e-mail list. There are several levels to think about.

The tentenlist coordinator is also the "webmaster." Essentially, we have a site and domain, and we do the work of keeping the website up to date. G4BLH, Mike, is the Board member assigned to oversee the process, and he has recently provided me with information to update the members-on-line list. Other members of 10-10 provide me with copy for the website in various categories, such as the beacons list and XXIQ. Of course, the Board provides me with information to keep official statements up to date. Sometimes, there is a delay between a Board decision and posting at the site, but that is a matter of preparing copy for the site. So I get lots of assistance, but am the designated uploader of new or revised information, including links to sites, such as the 2003 Convention site.

The list coordinator is also the liaison for tentenlist and digest. This means receiving problems reports and attempting to solve them. It also means trying to keep the postings within the limits set by the Board of Directors and reflected in the procedures and policies contained in the welcome message. So any list problems should be sent to the list coordinator. If they need to go elsewhere, then I can forward them.

Mike, G4BLH, is the Board member overseeing the site and list. So if you desire to see any policy changes, etc., then he is the first line of communications in that regard. He will then take such actions as may be needed to make the officers and/or Board aware of the request, etc. Of course, any member may write any Board member about anything, but if it relates to the list or website, it will eventually cycle through Mike. Some things may seem small enough that only an operational fix is needed. For example, I have added a button or two to the contents list at member request. So if it is small--or a matter of a typo or revised URL--you can send that directly to the list coordinator for action.

On the other side of the system is the server administrator. We are hosted by Sage-American, whose head is Jack Stone. He welcomes inquiries, but if it is a matter for coordination, he will be sure that I get a copy of the inquiry. Jack essentially keeps the computer system running that hosts the website and tentenlist/digest. This involves not only maintenance, but also system upgrades. The internet and e-mail systems are expanding exponentially in use--especially in the realm of advertising--so upgrading systems is almost a continuous effort. Every new upgrade needs fine tuning, so we shall occasionally find ourselves in a test situation and need a little patience while tweaking is done (not unlike a QSO in which someone turns on an amplifier and takes time to tune it). For the most part, the server works through the coordinator in matters relating to the 10-10 list and the website. Only rare test messages and even rarer explanatory message emerge on the list from the server administrator.

However, he is available if you have a server-related question or suggestion. Remember that a server administrator is located at a server that provides services to a wide variety of clients and hence is not exclusively devoted to our mail and web services.

So that is the basic layout of the system, with the tentenlist coordinator/webmaster a solitary volunteer in the middle. The label "coordinator" was chosen in lieu of the more common label "manager" used in other 10-10 activities. That's no accident. Instead, it is how the system works.

-73-

LB, W4RNL

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## 10-10 TO BE AT HAMVENTION 2003

10-10 will again be at Hamvention 2003 to be held in Dayton, Ohio. They will have an indoor exhibit and hold a forum. Stop by the exhibit and sign the log book and meet the 10-10 President and other Officers and Board members. The 10-10 forum will be on Saturday in Room 2 from 4:15 pm to 5:00 pm. Chuck W6YLJ #19836 will give a report on what's happening in 10-10 and the upcoming 10-10 convention. Keith KR7RK #63324 will again present some interesting facts about 10-10.

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## 15th ANNUAL HILL COUNTRY PICNIC

The 15th annual 10-10 Hill Country Picnic will be June 1st at the QTH of K5CC. The picnic is open to all, including family and friends. Barbecue is served and no one has gone home hungry. There will be ten meter activity with several club stations on hand, however most folks just like to sit back and talk with old and new friends. The 10-10 Convention will be held three weeks after the Picnic and we realize some people will not be able to attend both events, however if you can't make the Picnic this year we will look for you in 2004. For more information contact Jack K5CC, Bill WD5EDR, Ray N5DAS or Cliff K5FBS.

---

## SPRINGBOK WILL BE AT CONVENTION

The Springbok Chapter is still alive well and kicking with membership now at 2467. We will have a Table at the convention in June. All members are asked to stop by and say Hello and sign in for a Bonus and all Non members can stop by and sign up if they so desire and get the bonus or just say Hello. I will have my camcorder taking pictures of all the happenings. We hope to be able see everyone there and please stop by our web page at <http://springboknet.com>

73/88 to all, Jim KC4RHW and Phyllis KF4CKB

# 10-10 INTERNATIONAL NEWS

## SATEXTENCON (San Antonio Texas Ten Ten Convention) UPDATE

Just a reminder that the registration form and the general convention information can be found on pages 6-7 of the October 2002 (Fall) issue of the 10-10 International News.

Currently, arrangements are being made for the seminars to be held on Saturday. Presently scheduled are: DX, Counties, PSK31/RTTY/Slow Scan TV, and 10-10. Hopefully, antennas and the WIN1010 program will be added.

Here are the persons that, as of 3 March, are known to be attending:

DX: DK7LA & XYL DJ3LA, DL1KBQ & XYL DH3KAT, G4YNO, HP3XBS, VE9TER

LOCAL: AA7ZW, AC6FU & XYL, AD5KM & XYL, AJ5ZX, AK5Y & XYL, K0GO & OM W5VD, K0DBK & XYL KC6MJO & SON KCOCHA, KONO & XYL, K4ADB & XYL, K4QHH & XYL, K5CC & XYL, K5FBS & XYL KB5DPM, K5HWI & XYL, K7BOI, K7OMK, K7POS & XYL, K7PVZ & XYL, KA2SKO & XYL, KA3WWG & OM, KA5EYH, KA5VVD & XYL, KA6GPC & XYL, KB6UPG & XYL, KB7ARN, KB9ARA, KB9MJ & XYL, KC2GCL & XYL, KC4RHW & XYL KF4CKB, KC4RIY, KC5QCB, KC6QXU, KJ6DB & XYL, KM5FF & XYL, KR7RK, NOWY & XYL, N1DO & XYL, N2TDT & XYL, N3FNE & XYL, N3NOP & XYL N3PEK, N3TF & OM WA6LHQ, N4WAB & XYL, N5DAS & XYL, N5PTR & XYL, N6OPR, NC6V, WOHK, W5GVP, W5QVS & XYL, W6YLJ & XYL KB6HW, W7STN & XYL, WA2OIZ & XYL, WA6GSV, WA6POZ & XYL, WA9TWE, WB1DBZ, WD5EDR & XYL

CHAPTERS to be represented (also as of 3 March): Air Capital; Branding Iron/Branding Iron/Trail Drivers; Chesapeake Bay; Electric City; Elmer J. Fudd Net; GB Ten; Gold City; Kansas Trails; Keystone/Keystone Stars; Major League Baseball; New Waterkant; Outlaws on 10/Bounty Hunter; Portland 500; South Texas Lighthouse Brigade; Springbok; Twin Cities

Reservations for the hotel continue to be made. An additional 35 rooms had to be requested for the night of 26 June to bring the total for that night to 85. If you have not made your reservations thus far, it might be a good idea to do so in order to insure yourself of a room at the special rate. Getting your registration in might also be a good idea to insure yourself a seat at the Saturday night banquet.

If you have something that you would like to donate for a door prize, either send it to Bill, WD5EDR, or bring it and turn it in at the registration desk. All donations are/will be much appreciated.

The response to the pay-as-you-go dinner at the Alamo Cafe has been great. The Cafe is located directly across Interstate 10 from the hotel, so it is really convenient. We are going to request that the hotel furnish transportation via their shuttles. If you plan on going and did not so indicate on the back of your registration form, just drop Cliff, K5FBS, a note via email. We will be going at 5:30 P.M. so that the members of the Board of Directors can participate before their Thursday evening BOD pre-meeting get-together.

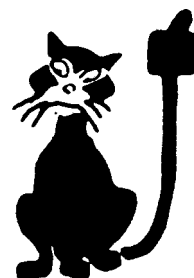
Don't forget that the postmark date for the early registration door prizes (Ranger RCI-2950DX for hams and \$200 for non-hams) is May 27, 2003.

Hope to see you here in beautiful, historical San Antonio in June.



73, Cliff, K5FBS  
Secretary, SATEXTENCON Planning Committee

*There will be an open house (refreshments provided)  
in the Presidential Suite on Friday, June 27, from 7 to 10 PM*



# 10-10 INTERNATIONAL NEWS

## **DO NOT TEAR THIS PAGE FROM THE NEWS - PLEASE MAKE A PHOTOCOPY INSTEAD** **10-10 INTERNATIONAL NET, INC. 2003 NATIONAL CONVENTION** **SAN ANTONIO TEXAS - JUNE 26-28 2003**

CONVENTION PRE-REGISTRATION/REGISTRATION: Please Print

Name: \_\_\_\_\_ Call: \_\_\_\_\_ 10X \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ St: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Country: \_\_\_\_\_

Email Address: \_\_\_\_\_

Number of People Attending @ \$10.00 each \_\_\_\_\_ Total \$ \_\_\_\_\_

Number for Banquet: Chicken @ \$25.00 each \_\_\_\_\_ Beef @ \$28.00 each \_\_\_\_\_ Total \$ \_\_\_\_\_

*please identify special dietary needs, if any* \_\_\_\_\_

Hill Country Tour @ \$28.00 each \_\_\_\_\_ (Please pre-register) Total \$ \_\_\_\_\_

San Antonio Tour @ \$18.00 each \_\_\_\_\_ (Please pre-register) Total \$ \_\_\_\_\_

ICOM 706 Tickets @ \$5.00 donation each OR 6 for \$25.00 (2 will be given away) Total \$ \_\_\_\_\_

Shirts @ \$6.50 Sizes: Small \_\_\_\_\_ Medium \_\_\_\_\_ Large \_\_\_\_\_ X-Large \_\_\_\_\_ Total \$ \_\_\_\_\_

Group Picture @ \$3.00 \_\_\_\_\_ Total \$ \_\_\_\_\_

Badges @ \$4.50 \_\_\_\_\_ Non-10Xer Name \_\_\_\_\_ Relationship \_\_\_\_\_ Total \$ \_\_\_\_\_  
(Please list, on back of this form, names and relationships for other badges)

Chapter Tables @ \$10.00 each OR 2 for \$18.00 \_\_\_\_\_ (Need electrical outlet \_\_\_\_\_) Total \$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

Mail this form and a check (Payable to JACK MOORE, 10-10 INTERNATIONAL) to: Cliff Taylor, K5FBS, 22707 Red Mountain Drive, Elmendorf, TX 78112-6034

The convention will take place at the Omni Hotel, 9821 Colonnade Blvd., San Antonio, TX 78230. Room reservations may be made for the Omni Hotel as follows: Phone: (800) 843-6664. Cut-off date for the block of reserved rooms is June 1. Afterwards rooms will be on an "as available" basis. Reservations must be made and confirmed with major credit card. Make sure that you mention 10-10 International Net, Inc. to obtain the convention price of \$79.00. This convention price will be in effect for 3 days prior to and 3 days after the convention dates. Check-in time is 12 noon unless notified to hold, or room will be released.

PRE-REGISTRATIONS will commence on November 1, 2002, and must be postmarked no later than May 27, 2003. Pre-registration prizes of a Ranger RCI-2950DX (for hams) and \$200.00 (for non-hams) will be drawn for at the banquet. You may register after May 27, but you will not be eligible for the drawing. The registration desk, for WALK-IN REGISTRATIONS and pick up of registration packets, will be open on Thursday, June 26, from 1000-1600 (10 A.M. - 4 P.M.) in the foyer by the swimming pool. Please bring a QSL card and turn it in when you register.

Chapter tables set-up will begin at 0800 (8 A.M. CST), Friday in the Grand Ballroom, Sections A, B, and C. Chapters must pre-register to obtain a table. Breakdown of tables, etc., must be done by 1700 (5 P.M. CST), Saturday.

If you are driving an RV to the convention and do not need a hook-up, parking on the hotel parking lot is permissible. If you want to park at an RV campsite, campsites are available a short distance from the hotel. Information on campsites is on the convention website or in the convention information in the 10-10 News.

To insure that you have a seat at the banquet, the convention committee highly recommends that you pre-register for the banquet. If the attendance at past banquets is any indication, there will only be a very limited supply of tickets available for late registrants.

Once again we ask all chapters to donate a prize, and, in addition, we would ask others to donate a prize(s). These can be sent to Bill Heberling, WD5EDR, 6819 Farrow Place, San Antonio, TX 78240-3428. Prizes may also be dropped off at the registration desk.

Address questions re the convention to: Ray, N5DAS, n5das@juno.com; Cliff, K5FBS, catk5fbs@aol.com; Jack, K5CC, k5cc@gvtc.com; Bill, WD5EDR, weberling@satx.rr.com; or Will, AK5Y, ak5y@arrl.net. Information on the tours, badges, shirts, etc. can be found on the convention website, www.drhnet.com/STLHB/ or in the 10-10 News.

**DO NOT TEAR THIS PAGE FROM THE NEWS - PLEASE MAKE A PHOTOCOPY INSTEAD**



The Meriden Amateur Radio Club - W1NRG, and The Castle Craig Chapter of 10-10 honored Frank Darmofalski, 10-10 # 10226 who is celebrating his 70th year as an amateur radio operator. The club surprised Frank with a cake at it's February 13th business meeting.

Frank was first licensed when he was 15 years old. He is one of the founding members of The Meriden Amateur Radio Club, the sponsor of The Castle Craig Chapter of Ten-Ten. Frank is also the trustee for W1NRG club 10-10 # 29650.



Recently we received a nice note from Bob WB8CAC #01533. Here is what he says: "I joined 10-10 in 1970 and received number 1533. After my initial activity I disappeared from 10 except for brief occurrences. After seeing this site, I sent in my renewal and am heading back for 10. 73, Bob WB8CAC (ex: AI8J)." What site is he talking about? Why, the Ten Ten International WEB SITE, of course!!! He was also nice enough to send along a copy of his original certificate. Thanks Bob and welcome back!!!



On January 25, Bill AA7ZW #62075 and his wife Norma left on vacation to Hawaii. They sailed from Los Angeles on the Sun Princess, a ship from Princess Cruises, and visited the islands of Hawaii, Oahu, Kauai and Maui. While on Hawaii, they met some of the Alii's gang and had a great time.

They arrived in the port of Nawiliwili on the morning of February 2, and Richard WH6S #64994 met them at the pier. They drove to a very nice Chinese restaurant where they met up with Evillo KH6DRT #33751, Gemi KH6F #37649 and Sam NH6SJ #51801. They all enjoyed good conversation and excellent food. This was topped off with an impromptu parking lot net, where they used Richard's truck as their "net control."

For you Alii chapter members, Bill now has a Kukui Nut number, so be sure to ask him for it the next time you have a QSO.

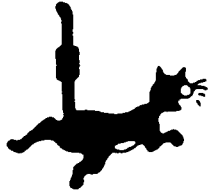
Bill says when they return to Kauai, they plan on spending more than one day, and enjoy the great Hawaiian hospitality that we received there.

Top row L to R: Bill AA7ZW, Richard WH6S, Evillo KH6DRT  
Bottom row L to R: Sam NH6SJ, Gemi KH6F



## 40th ANNIVERSARY QSO PARTY RESULTS

The results are in and we had a lot of interest. 44 logs were turned in and they show contact with 269 members that had a "40" in their membership number. We did have one problem in that we didn't account for a club entry, but as a result the awards were changed to match that of regular 10-10 contests, which means MORE awards to give out. See the revised rules at the right. Well, this was the first year, we expected growing pains!!! The 269 members with a "40" in their number? 37 of them were contacted ten or more times, 61 from three to nine times each, 34 with two contacts each and 137 singles. The top 40's? AK5Y #40839 with 36, W0HIK #40678 with 32, and K4QHH #26040 with 31.

TOP TEN			US CALL AREA W5		
CALL	10-10#	CTs	CALL	10-10#	CTs
01. KC0CMZ	70882	93	N5MT	24949	76
02. N5MT	24949	76	K5FBS	48461	55
03. KA9EKG	70731	58	AK5Y	40839	29
04. K5FBS	48461	55	W5EIJ	11732	25
05. KB0ON	29849	54	W5OYA	23691	18
06. W3SE	53431	40	KD5HIP	71476	17
07. WA4EEZ	15675	38	W5UFA	23660	14
08. DL2IAN	72712	33	KM5FF	50356	7
09. KB9MJ	22313	32	US CALL AREA W6		
10. N0WY	68684	31	CALL	10-10#	CTs
N1PDV	63955	31	W3SE	53431	40
US CALL AREA W0			KS4XI	70679	28
CALL	10-10#	CTs	NC6V	25057	23
KC0CMZ	70882	93	K6ASK	50969	22
N0WY	68684	31	KE6FQC	69047	21
KB0CQ	29836	20	W6ASP	73446	16
WA0OTO	02808	18	US CALL AREA W7		
N0WM	02724	17	CALL	10-10#	CTs
US CALL AREA W1			AC6FU	10937	25
CALL	10-10#	CTs	WA6GSV	07673	15
N1PDV	63955	31	K7WV	70018	13
W1SIX	35346	21	N7YBX	62538	12
KB1ALX	62468	13	N7QHC	59244	5
US CALL AREA W2			US CALL AREA W8		
CALL	10-10#	CTs	CALL	10-10#	CTs
WA2SUH	00407	18	WA8YQR	12544	12
US CALL AREA W3			N8KIW	72125	8
CALL	10-10#	CTs	US CALL AREA W9		
N3TGB	68129	25	CALL	10-10#	CTs
K2BIL	68799	19	KA9EKG	70731	58
N3FNE	52799	11	KB0ON	29849	54
US CALL AREA W4			KB9MJ	22313	32
CALL	10-10#	CTs	WB9MFC	11370	29
WA4EEZ	15675	38	CANADA		
K4QHH	26040	20	CALL	10-10#	CTs
KN4Y	17757	14	VA7TEN	24752	21
K4HAV	17605	6	GERMANY		
			CALL	10-10#	CTs
			DL2IAN	72712	33
CLUB ENTRIES			GERMANY		
CALL	10-10#	CTs	CALL	10-10#	CTs
WD0SFT	37933	54	DL2IAN	72712	33
			GERMANY		
			CALL	10-10#	CTs
			DL2IAN	72712	33

## ANNIVERSARY QSO PARTY RULES

### DESCRIPTION

A yearlong event that allows entrants that make legal 10-10 contacts with members that have 10-10's anniversary year contained in their membership number to submit a log of these contacts and earn recognition for their effort.

As example: 2003 is the 41st Anniversary year for 10-10. Contact with members containing a 41 in their membership number (such as 72041 69415 64154 41126 00417) would count toward this contest.

Each year the anniversary number changes, making a whole new group of people the focus of the contest and promoting use of the 10 meter band.

### RULES

During the calendar year (Jan 1 through Dec 31) make legal 10-10 contacts (10-10#, Date, Call, Name, QTH) with members containing the anniversary year in their membership number.

Contacts must be made on the 10 meter band with any mode (AM SSB FM PSK CW, etc) but must be made direct and unassisted. As example, no repeater, satellite or internet assisted contacts are permitted. The mode is also to be listed in the log.

Logs must contain only one entry for each 10-10 number. Contacts must be listed in 10-10 number order, with the 10-10#, DATE, CALL, NAME, QTH and MODE listed as shown in this example (log is example only - numbers do NOT match with calls):

10-10#	DATE	CALL	NAME	QTH	MODE
00417	0202	K7XXX	GWEN	OR	SSB
08941	0813	KJ6XX	JAN	CA	PSK
14187	0902	VX2XXX	STEVE	QC	CW
18417	0202	SP8XXX	DON	POLAND	SSB
26410	1204	VK3XXX	MARY	AUSTRALIA	CW
50417	0210	VE7XXX	JOHN	BC	AM

To enter a log you must be a member in good standing (dues paid) on December 31st of the contest year.

Mailed logs MUST be postmarked no later than January 15th of the following year, regardless of what day January 15th falls on.

Logs sent via the internet MUST be sent in ASCII (text) format no later than 2359 utc January 15th of the following year.

Certificates will be issued the same as in regular 10-10 Contests and all entries will be posted in the April edition of the Ten-Ten News and forwarded to the web site manager for inclusion there.

Location of operation will be the same as your mailing address on record as of December 31 of the contest year, regardless of actual location of operations. QRP will only be allowed if ALL contacts were made QRP.

Send logs to:

10-10 Anniversary QSO Party c/o

Steve Rasmussen N0WY

312 N 6th Street

Plattsmouth NE 68048-1302

or via e-mail to <n0wy@arrl.net>

# An-Ten-Ten-nas

INFORMATION  
TO HELP YOU DECIDE  
ON THE BEST ANTENNA  
FOR YOU

L. B. Cebik  
W4RNL #41159



In each issue of the News, we shall try to clarify a significant cluster of ideas used in antenna work. Our object is to help you make the best decisions about the antennas you buy or build without imposing our own prejudices on you. The more you understand, the better your choices will be.

## No. 39: Frequently Asked Questions

In our column for the last issue, we covered some fundamentals of the material side of beam construction. That exercise brought to mind a number of more general questions that folks have posed from time to time about antennas. So, let's try to give some succinct answer to these questions.

### 1. With a wire antenna, does insulation make a difference in performance?

This question is actually two questions in one. First, once we get the antenna set correctly, insulation makes no difference in how well the antenna performs. The gain will be virtually the same, whether the wire is bare or covered with any of the standard insulating materials.

Second, insulation will make a difference in how long a wire must be to be resonant. If a bare wire is resonant on 10 meters (actually some specific frequency on 10 meters) at a length of 200", then an insulated wire will be resonant at the same frequency at a length from about 190" to about 198". Insulation creates a velocity factor (VF) so that the required physical length is always shorter than the required electrical length. If we set the VF of bare wire to 1.0, then the VF of insulated wire will be from 0.95 to 0.99.

The nature of the insulation and its thickness determine the VF of insulated wire. The higher the dielectric constant of the material and the thicker the insulation, the lower the VF value. Unfortunately, there is no handy chart that you can consult when you buy insulated wire to tell you what the precise VF is. For dipoles, you simply prune to resonance.

If you are thinking about a wire beam, where the elements are not resonant on the design frequency, then the best policy is to use the exact wire specified in the article or handbook from which you draw the design. There are techniques for handling insulated wire in these cases, but they generally require efforts or instruments that the average backyard antenna builder does not have.

### 2. Does the feedpoint gap make a difference in the antenna element length?

If a design that you are copying calls for an element length of 200", then this length remains constant, regardless of how large you make the feedpoint gap--within reason, of course. The gap can range (at 10 meters) from 1/4" to a couple of inches without disturbing the overall length of the antenna element. The leads from the feedline to the inner edges of the gap make up the missing element section.

Remember that the feedline is in series with the antenna element. The feedline itself begins where the line is at its proper form to create currents of equal magnitude and opposite phase. When you turn the wires of a parallel feedline at right angles to the line to make the antenna connection, those wires are part of the antenna. When you separate the coax braid and center conductor to make the same kind of connection, those leads are parts of the antenna element. Even if not identical in diameter to the antenna element itself, the length is short enough at HF not to make any difference in the way the element performs.

### 3. I have a multi-band doublet (or loop, etc.) that I use for all or most of the HF region. Can I connect a 4:1 balun at the antenna terminals and use coax to the antenna tuner in the shack?

The answer to this question is yes, but there are better ways to handle the situation. The impedance presented by the antenna varies from one band to the next, ranging from very high to very low. If your coax run is long--perhaps 100' or so, your losses will climb according to the SWR on the line and the frequency. Higher frequencies and SWRs multiply natural coax losses.

Let's look at alternatives to this system. The most efficient system is to run parallel transmission line from the antenna to the antenna tuner. Parallel transmission line naturally has much lower loss than coaxial cables (except for the very low-loss hard lines used at UHF and microwave frequencies). Hence, the multiplier that comes with high SWR values on the line tends to increase the loss by only a very little. Hence, in most cases, the losses in a high SWR parallel line system will be less than the losses in a perfectly matched 10-meter coax system.

The installation rules for parallel line--whether it is 300-Ohm TV line, windowed vinyl 450-Ohm line, or open wire 600-Ohm line--differ from the rules that apply to coax. Keep the line free and clear of everything by several times the width of the line. Conductive materials--even wet wooden posts or trees--can disrupt the balance in the line and reduce its effective operation as a transmission line.

### 4. If I run parallel into the house/shack, I get RF pick-up by the X (where X may equal the telephone, the TV, the rig, etc.). How can I have my parallel line and no interference?

The losses of coax increase with line length. Hence, a short piece of coax--something less than about 20' at 10 meters--will not create significant losses. Even at a 10:1 SWR, 20' of RG-213 will have less than a 1 dB loss. Now let's assume that we can place the antenna tuner within 20' of where the coax would pass through the wall/window/etc. to reach the outside world.

We can install our parallel line from the antenna to this same wall/window--keeping it free and clear of unbalancing forces in the outdoor run. At the entry point, we can install a 1:1 bead balun. From the coax end of the balun, we run our short length of coax to the antenna tuner.

a. I specified a 1:1 balun, not a 4:1 balun. Sometimes the 4:1 balun will do the job--sometimes it will not. Since the antenna shows a different impedance on every band, it is rarely matched to the feedline headed toward the shack. At every point along the line, the impedance is transformed to a new value--and some of these values will be very low. Further transforming the impedance to a still lower value by a 4:1 ratio is likely to yield such a low impedance that the tuner may not be able to handle it. Hence, a 1:1 balun is the better choice.

b. I tend to prefer bead baluns for this transition, although other 1:1 balun types may work. Bead baluns--originated by Walt Maxwell, W2DU--are compact and inexpensive (from such sources as the

Wireman in South Carolina). No balun will be lossless in this application, but the losses will be modest at moderate power levels.

c. At the coax end of the balun, run a short, heavy ground lead from the coax braid to a good ground rod. This measure helps prevent significant levels of RF from being on the outside of the coax braid and thus helps reduce coupling into conductors inside the shack.

This system is not perfect, but it is effective for using an all-band antenna with parallel feedline while suppressing unwanted RF coupling to systems other than the amateur radio equipment.

## **5. I have followed all of the recommendations and my all-band antenna will still not load up properly on 1 or more bands. What should I do?**

Let's assume that your system is flawless--good connections, not opens or shorts, etc. In this case, the most likely cause of a failure of the antenna to load is the length of transmission line.

Earlier, I noted that when the antenna feedpoint impedance does not match the impedance of the feedline, the impedance is continually changing along the line. It is possible to calculate the impedance at the shack end of the line, but only if we know the impedance at the antenna feedpoint. In most cases, we do not know the impedance at the shack end of the line.

The impedance may be a complex combination of a resistive value and a reactive value. Your antenna tuner has limits to the maximum and minimum resistive value that it will accept and transform. The reactive part of the impedance is the more likely culprit, since most tuner designs will compensate for only limited reactance. Depending on tuner design, the compensation range will be better for one type of reactance (capacitive or inductive) than for the other type. In most cases of a failure to provide a good match to the 50-Ohm requirement of the rig, the culprit an impedance at the tuner terminals that is outside the matching range of the tuner.

Wait--do not throw away the tuner. Instead, change the length of the line to obtain a different combination of resistance and reactance at the tuner terminals. You can splice in a section (4 to 10 feet) of parallel line, either permanently or with knife switches. Just keep these added sections from folding over each other or coiling up. In other words, they should be free and clear like the rest of the line.

Sometimes, you can find a single length of line that allows you to tune all bands with your multi-band wire antenna. In that case, you can make the connections permanent. In other cases, you can find two line lengths that between them allow you to handle all bands. A simple knife-switching system makes quick work of changing the connections.

## **6. I have the ground line at the shack entry point. Is my system safe from lightning?**

Not especially. The safest system for an amateur station that does not need to operate during a thunderstorm is one that disconnects the antenna line from the shack lead and reconnects it directly to a ground rod. Then any charges that accumulate on the antenna go to ground and

not to the equipment.

In addition, set up your station so that you can do a complete disconnect in preparation for a thunderstorm. Disconnect--pulling the plug is best--the AC lines. Also disconnect the equipment from the outside ground line. Now the equipment is disconnected from every source of electrical surge.

Sensitive solid state devices do not care if the supply line has a high surge or whether the ground-side of the device has a high surge. In either case, the voltage across them is destructively high. Hence, isolating the equipment from both the supply voltage and the grounding lines is necessary to prevent surge damage. Surge protectors help, but when the storm is near, nothing succeeds like isolation.

You can design your station to make all of these disconnects easy--easy enough to apply whenever you shut down after an operating session. The only step that requires a trip outdoors is changing the antenna lead from shack lead-in to ground rod. If you disconnect the antenna routinely along with the other indoor disconnects, you can save the trip outdoors for an impending storm and still be relatively safe. Of course, if you travel out-of-town, set up the station as if you will have a thunderstorm every day that you are gone.

## **7. I have a beam on a tower. The base of the tower is strapped to ground rods. My coax from the antenna enters the shack, and I can change it from the rig to a second connector that goes to a ground rod outdoors. Am I safe?**

Maybe--maybe not. Experts suggests that most of the current in a lightning strike is in the coax braid. This current is very high, capable of destructively melting the insulation and arcing to other conductors. It is best if this current never enters the house at all. Hence, having an outdoor grounding system so that the coax never gets indoors during a thunderstorm is best.

There is a second move that you can make. Since your have well grounded the tower, and since the bulk of destructive lightning-induced current is in the braid, consider this measure. Near the top of the tower, clamp a small plate to a tower leg. On the plate, install a coax bulkhead connector--a double female connector with mounting hardware. Now run the antenna lead from the antenna to the connector and a second length of coax from the connector to the outdoors disconnect near ground level. The coax braid is now at the same potential as the tower leg and connected to the ground system serving the tower. You can add a second plate and connector at the tower base for added safety.

If you maintain this system so that the connectors make excellent contact with the plates and the plates make excellent contact with the tower legs, you shunt currents on the outside of the braid to ground. However, this measure does not remove the need to disconnect the coax from the shack lead-in before it enters the shack. It just adds to the overall protection.

There are more questions on my FAQ list. But these are enough for one column.

## **ARE YOU REALLY INTERESTED IN ANTENNAS ?**

L.B. Cebik has been writing a column about antennas for the 10-10 News for the past few years. 30 issues of this material have been compiled into one book which is available for the low price of \$12.95 USD plus shipping and handling (US Zip Codes \$5 USD - all others \$8 USD). You may pay by Check, Money Order or IRC's (\$1 USD per IRC). VISA and Mastercard are also acceptable. Please provide Card Number, Expiration Date, Name on Card, Phone Number and signature of Cardholder (please note that our credit card agent is RSVP of Omaha, NE). Orders can be made via mail to: **10-10 INTERNATIONAL NET, INC., 643 N 98TH ST #142, OMAHA NE 68114-2342** or by FAX to 402-891-2481. *All profits from the sale of this book go to the 10-10 Scholarship Foundation.*

## CHAPTER COORDINATOR'S COLUMN

by Dave Smith, K6RDK #65812



**Re-Affiliated:** Keystone, Brea, CA

**Reports Due This Quarter:** 59/62, Lake Geneva, Republic of Texas, Steel City, Trotters and Pacers, Twenty Eight Chapter

**Reports Past Due:** All America City, Appalachian Mountain, Bauxite, City of Melbourne, Crazy Eights, Dick Bass Memorial (Michiana), Kansas Trails, River City/Cameilla Capital

**In Extremis:** Golden Bear, Palmetto Chapter, Samuel Clemens/King Arthurs Court

**REMINDER** - To remain affiliated with 10-10 International, all chapters must fill a chapter report at least once each year. This information is used to update the 10-10 Awards guide and the monthly Guide updates. We don't want the membership wasting their time and money on a chapter that is no longer active. If the name of your chapter appears above, please advise the Chapter Coordinator if there has been a change in status of the chapter.

Chapters wishing to file the Quarterly Report on line may do so; email me (k6rdk@arrl.net) for the link. Once the initial form is filled out I will make a customized form with your default information fields already populated. If there are any changes just make them and let me know in the comments and I will change the form.

### Re-Affiliated:

Keystone - Keystone has re-affiliated. The CH/CM is KA6GPC Gary Miller, 385 Amberwick Lane, Brea, CA 92621. Email: ka6gpc@aol.com

Basic membership is to work 5 Keystone members or 1 IQ. The Keystone Certificate is available either by regular mail, or you may send your application for a number only to the Certificate Manager at KA6GPC@AOL.COM. If you apply by mail, the price of the basic certificate is \$1.00 and 2 first class stamps. The price for DX is \$2.00 in US currency only. Upgrades may be obtained by either email or regular mail. For mail application information please send an email to the Certificate Manager.

Their weekly net meets Saturdays at 1800 UTC on 28.765

### Chapter News:

**Colorado Centennial** - Any member who has a "number only" can receive the basic certificate by just sending two first class stamps to the CM, NØCKW.

**Fort McHenry/Cornerstone** - Special, Apr 1-30, 2003. Collect Fort McHenry Freedom numbers for 1 FTMCH points each. Collect Cornerstone Starfort (WAS) numbers for 5 Cornerstone points each. Upgrades must be postmarked no later than 31 May, 2003.

**GB Ten** - Information on the Scarlet Pimpernels from the GBTEN Chapter.

Instead of the normal 2 week rotation there will be a change.

There will be 3 sets of 5 stations issued with the Scarlet Pimpernel designation. Each set of three is valid for 9 day's only. They will run concurrently. This will give a total of 15 members available. Work as many as you can at 10 points each one. Please do not return any of them until after the 1st of March. At the end of February you will be asked a question, via the service groups, and the web site [www.raynet-forestheath.info](http://www.raynet-forestheath.info). If you answer the question correctly, you will receive extra bonus points! Please feel free to re-distribute this info to all members.

With effect from the 2nd February 2003 members chosen to act as Scarlet Pimpernels will also receive the 10 points to match the collectable values other members receive when turning them in for credit.

**Laurel Mancunium** - We have had a very interesting Year The New certificate the Millennium V.I.P. has been an even greater success than the first year and this has resulted in more stations joining the chapter and more members who had been RESTING coming back to join in. The reason is that one of the requirements is that before they can go on to the Millennium V.I.P. all previous certificates have to be completed. The old ones now take a short while to complete as there are so many points out there that a couple of check ins does the trick but then they do have to work at it. The other success was our first special based on the classic Scotch Whiskeys of Scotland it was very well received and well supported so could do with another bases on a different. Conditions have not been too good when the band first opened and nets varied from 10 to 40 on Thursdays with even up to 60 on Sundays. Looking forward to a better year in 2003.

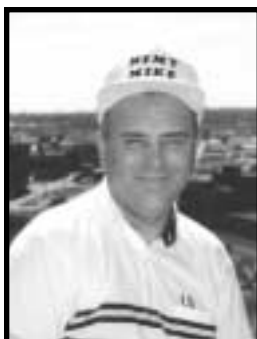
**New Waterkant** - No Chapter upgrades between 25 May 2003 and 25 July 2003 because of vacation and Convention. The mails will be read by DJ3ADK, but there will be no response. If you like to upgrade before the Convention, please send it in time!

On mails being late I will work in order they had come in after 25 July.

At the Convention we will give out a collectable "CON-A" seal and some activity points to all (new) members who sign the list.

**Pine State** - Due to many improvements in our Pine State ARC clubhouse, our local chapter will be able to begin entering some of the 10-10 sponsored radio contests very soon. The club call is N1ME, #69644.





**Mike Davidson**  
N5MT #24949

I just finished working the last two states I needed to complete my WAS Mobile award. Thanks to Evillo **KH6DRT/M** #33751 from Hawaii and Lloyd **KL7JGN/M** #27834 from Alaska, for operating mobile. Now I have to collect all the QSL cards to submit for the award.

The ARRL DX Contests are over and I am looking at my two logs to see what DX was worked. I noticed that the northern European countries were not worked/heard. I concluded that propagation into Europe and Asia has fallen to a lower level as a result of the decline in the Solar Flux which has yielded lower contest scores for many.

A drop in the Solar Flux to a low of one hundred two has not been seen in four years. I hear complaints about the weaker DX signals on ten which has resulted in fewer contacts in the log. However, during the last year, six new 10-10 countries have been reported and logged. There are now **307** countries documented with 10-10 activity, a new record! There are about three dozen countries that remain unworked for a new 10-10 country.

**The second most wanted country, Ducie Island will again be active as I finalize this article!** There are three 10-10 members: **DK9KX** Hans #21879 on CW, **N6TQS** Doug #72301 on RTTY, and **VP6MW** Miralda #50434 on CW/SSB. Miralda was confirmed to be the CW operator on 18 and 24 meters for the second Ducie trip. The ship Braveheart did leave Pitcairn on the 6th, for a two day trip to Ducie. QSL manager is JR2KDN.

A short list of call signs worked this past quarter: **Dem Rep Congo 9Q/9S1X** by Pat #66013. **Greece SW1W** by Dimitris #68921. **S.Africa ZS5NK** by Gary #38361. **Haiti HH2JR** by Jean #27279. **Japan JI1KXL** by Aki #73405 and **JI1IXW** Sei #32978. **Guatemala TG0AA** by Dennis **K7BV** #5414. **Mexico 6D2YFM** by Mike **K5NZ** #64303. **US Virgin Island.** by Norm **KP2/K8NI** #54103 and Tony **N2TK/NP2** #22425, was signing **WP2Z**. Puerto Rico by Nelson **WP4KZN** #70292. **Ireland** by Pat **EI9HX** #72414. **Belarus** by Nick **EU6TV** #73407.

General 10-10 DX:

**7P Lesotho.** Andre **ZS6WPX** #73604, was active as 7P8ZZ in the 10 Meter contest in December. I gave Andre

his new 10-10 number over the air when we worked.

**CE Chile.** 3G5A by Ferdi **XQ5SM** #36136, we worked recently in a DX contest for a new prefix.

**EY Tajikistan.** Look for Nodir **EY8MM** #52767, to be active in many DX contest. QSL via K1BV.

**3C Equatorial Guinea.** Vitaly **VE6JO** #35994, used the callsign 3C2MV. His DXpedition was approved for DXCC credit and this will increase the 10-10 country count to **308** when the QSL cards come out this month. Vitaly did a very nice job doing everything by himself. Any donation to help with QSL expenses is appreciated.

**HR Honduras.** Gerard **HR5/F2JD** #63443, gave me a new prefix recently and leaves in March. Tom **W0GLG** #72295, was in Puerto Limpera from Feb. 14 and March 5.

**S9 Sao Tome.** Charles **S9SS** #16955 (KY4P) is on ten SSB about 2230Z on 28377. QSL to N4JR.

**SV Greece.** Dimitris **SV1CIB** #68921 gave me a new prefix when he used the call SW1W. QSL via SV1CIB.

**V2 Antigua.** Doug **W3CF/V26DX** #55779, and a group of operators were active as V26DX from March 1-2 from the Royal Antigua Hotel. QSL via KU9C. Bill **W4WX** #62600 may have operated as V25WX February 17-25th.

**V5 Namibia.** Hubertus **DJ1HN** #25951, has been active as V51/DJ1HN in January. QSL to home call.

**VP5 Turks and Caicos Island.** Chrissy **KB9VAL** and her father Gary **VP5/K9SG** #62951, used the station of Judy **VP5JM** #52729, from Jan. 31st until Feb. 3rd. Chet **VP5/W6XK** #27737 and Ron **VP5/N6EE** #10392, were active using CW, SSB and RTTY until January 7th.

Upcoming DX & New 10-10 Activity:

**A7 Qatar.** Roger **W9ROG** #67454, is in Qatar for three months and has applied for the call A71ROG. New one!

**VK9C & VK9X, Cocos-Keeling & Christmas Island.** The YL's who operated **VK9YL** and **ZK1XYL** last year, namely Gwen **VK3DYL**, June **VK4SJ** #63451 and Elizabeth **VE7YL** #50488 (CW), will activate Cocos Keeling Island from October 12-25th, and Christmas Island October 26th through November 9th.

**HH4 Haiti.** Jan Heise **K4QD** #13423, a radio team will be part of a humanitarian mission team traveling to Haiti. They will operate three stations at the Mission from March 10-21st. The 10-10 members are Jan **K4QD** #13423, Bob **K9MDO** #24292 and Bill **W4WX** #62600. Website address: <http://www.geocities.com/n2wb2003/>.

**DP1 Antarctica.** Felix **DL5XL** #55519, will be at a German Antarctic research base from March through November 2003. His callsign will be DP1POL when he is not working as a radio operator and engineer at the base on the Ekstroem Ice Shelf, Atka Bay. QSL to DL1ZBO.

**HV Vatican.** Stefano **IK0OER** #62293 was active from the Vatican as HV5PUL last year. This call only transmits twice a year for a few days in May and November. The Vatican is a wanted country as it is not on the air often.

**Yugoslavia becomes Serbia-Montenegro:** Yugoslavia's parliament has voted to abolish that nation and replace it with a new name. For DXCC purposes, it will be the same country and amateurs there are expected to continue using YU/YT prefixes. In three years, residents will vote to either stick together or go their separate ways.

**Propagation:** The first peak of this Solar Cycle 23 was in April 2000 and the second peak was in November 2001 just over two years ago. In the USA, the winter months, give us the best DX period, until the spring. My six month prediction is for the Solar Flux to range from 95-150 for mid-2003. Phase II is ending because the flux has dropped below 125 and we have moved into Phase III with lower flux readings. This means fewer openings to Europe for the next few years until the cycle ends in 2006-2007.

**Cycle 23 is now 5 1/2 years old.** The flux continues to stay moderate but last year was a better year than 2003 is expected to be. **On March 1st, the Solar Flux was 125 the A index 18 and K index 3**, which is lower than the flux was 3 months ago and the average flux continues to fall. One year from now, I expect a flux range of 85-125.

**Expect the best conditions on March 4-8, April 1-4, & 27-30, May 23-27 and June 19-23.** USA stations, expect a 30% chance of DX to Asia, Europe or Africa and a 50% chance into S. America in the mid-afternoon. Expect a 2% chance of Long Path into Asia or Europe, at sundown for central USA. The beacons from **28.175-28.300** will tell you what is open, especially 28.200. Good luck.

**IOTA: North America: C6 Bahamas.** NA-001. Ivars **KC4PX** #8549, was active as C6APX from Nassau, from February 8-15th. **VP5 Turks and Caicos Island.** NA-002. David **K3LP** #13394 and Jim **WX3B** #70445, were on North Caicos from Feb 12-19. **ZF Cayman Islands.** NA-016. Bruce **K5PX** #20946, used the call ZF2PX. **8P Barbados.** NA-021. John **K4BAI** #45389, was active as 8P9HT in December. **J3 Grenada.** NA-024. Bill **VE3EBN** #24663, was active as J37LR between Jan. 31st and April 2nd. **J7 Dominica.** NA-101 Bob **AA1M** #17930, and Mike **W1USN** #51238, signing J75PL and J75RN from Jan. 21-28th. **KP2 U.S. Virgin Islands.** NA-106. John Walker **WZ8D** #48825, and Joe Pater **W8GEX** #41393, went to the Caribbean in January. **V3 Belize.** NA-180. Art Phillips, **NN7A** #39677, will operate as V31JZ/p from South Water Caye in January.

**S. America: PY0F Fernando De Noronha.** SA-003. Bill **W9VA** #2706, was active as PY0ZFO from February 12-18th. **PJ2 Netherlands Antilles.** SA-006. Bill **W9VA**

32706 and Jerry **K9BG** #5184, used the call PJ2T. **P4 Aruba. SA-036.** Alan **K4AVQ** #15889, was active as P40AV from January 4-18th.

**Oceania: KH6 HAWAII** OC-019 Marty **K2PLF** #13123, is visiting Maui and will be active to March 14th. **YB Indonesia.** OC-021. Stan **OK1JR** #20103, was active as YE0X from Jawa Island. **V6 Micronesia.** OC-059. Bert **WH7USA/V73GOD** #72117, used the callsign V63USA from Kosrae from Feb. 15-23rd. He then traveled to the Marshall Isl. QSL: P.O. Box 1480, APO AP 96555, USA.

**Europe: MM0 Scotland.** EU-005. Leo **W3LEO** #48035, will again be active as MM0LEO from Portpatrick from March 4th to April 3rd. **Aran Island.** EU-006. Declan **EI9HQ** #71019 was there Feb. 28th. **MJ Jersey.** EU-013. Pete **K8PT** #24099 will be in the Channel Island of Jersey again and will be operational from March 19-24th. **OY Faroe Island.** EU-018 Tom **GM4FDM** #31864, will be on March 24 to April 3rd with the call OY7TW along with Bill **AK0A** #13996 as OY7WB. **Isle Of Poel Island.** EU-098. Andy **DL4OK** #18412, was activate from a lighthouse for a few hours each day from Feb 14-18.

**Africa: VQ9 Chagos Island.** AF-006. Larry **WD0HSP** #30784, is using the call VQ9LA on Diego Garcia, for the next year. **CT3 Madeira Islands.** AF-014. Hermann **HB9CRV** #72110, was here and also on the neighboring island of Porto Santo until February 12th.

**The 28555 DX Net on Sunday 1400utc will stop meeting April 20 until the DX season begins in late Sep. I will be speaking at the 10-10 Convention DX Forum in June where you will get the latest country info.**

**QSL Help:** <http://files.billnjudy.com/> .

**New DX members Dec. 2002 to March 2003:** 73600 DH8BM, 73601 DH1HF, 73602 VE4AHH, 73603 F6BDM, 73604 ZS6WPX, 73605 VE7RCF, 73606 VE4HST, 73607 ON6LY, 73608 VE6DDT, 73609 DL3OT, 73610 EI2JD, 73611 VK3DBQ, 73612 MD0BJM, 73655 VE7WGG, 73675 VE4ROG, 73699 WH6AQI, 73737 GB3RS, 73771 HB9DTE.

**10-10 Bar Awards:** Congratulations to Rawn **VE5RMO** #70608 for his 1000 Bar, Alfred **DK4QO** #69087 for his 1000 Bar, Alan **VE4ALN** #69127 for his 2300 & 2400 Bars, Club **VE4WSC** #50470 for 1000 thru 2100 Bars, and Nel **LU5HE** #10334 for his 7600 Bar.

**Countries Award:** There are now 593 basic certificates issued, I processed 4 basic certificates and 23 upgrades this quarter. I can email a list of your country credits.

Thanks to the on-line DX List, QRZ-DX, Lee **KH6BZF** #8888 & Ohio/Penn DX Bulletins. Send photos to Mike Davidson, 3518 Bellefontaine, Houston, TX 77025 USA Email: N5MT@aol.com

DX IS!                      73 Mike Davidson N5MT #24949



## PSK31, an RTTY Replacement?

by Jeff Steinkamp N7YG #65084

Since its introduction in 1997, there has been a significant increase in PSK activity in the amateur radio world, especially with the decreasing cost of the home computer and the fall of the sunspot cycle. Over the past year, many chapters began providing special certificates and awards for PSK contacts and there are now recommendations for a specific PSK category in our QSO parties. Unfortunately, many members have seen the PSK31 acronym but have very little knowledge on the subject, thus the reason for this article - long overdue.

So, what is PSK31? PSK is the acronym for Phase Shift Keying and 31 is the bandwidth of 31 hertz. Now let us not fire off emails to the newsletter editor for lack in proofreading skills, 31 Hz is not a misprint. If this opportunity for narrow band communications has piqued your interest, please read on.

### PSK31 Modulation Theory

The 31-baud BPSK (binary phase shift keying) modulation system used in PSK31 was introduced by SP9VRC in his SLOWBPSK program written for the Motorola DSP56002EVM and further developed by Peter Martinez, G3PLX. Instead of the traditional frequency-shift keying, the information is transmitted by patterns of polarity-reversals (sometimes called 180-degree phase shifts). This process can be thought of as equivalent to sending information by swapping-over the two wires to the antenna, although, of course, the keying is usually done back in the audio input into the transceiver. A well-designed PSK system will give better results than the conventional FSK systems that amateurs have been using for years, and is potentially capable of operation in much narrower bandwidths than FSK. The 31-baud data rate was chosen so that the system will just handle hand-sent typed text easily. There is a problem with PSK keying which does not show up with FSK, and that is the effect of key-clicks.

We can get away with hard FSK keying at moderate baud rates without generating too much splatter, but polarity reversals are equivalent to simultaneous switching-off of one transmitter and switching-on of another one in reverse phase: the result being key-clicks that are TWICE AS BAD as on-off keying, all other things being equal. Therefore, if we use computer logic to key a BPSK modulator such as an exclusive-or gate, at 31 baud, the emission would be extremely broad. In fact it would be about 3 times the baud rate wide at 10dB down, 5 times at 14dB down, 7 times at 17dB down, and so on (the square wave Fourier series in fact). The solution is to filter the output, or to shape the envelope amplitude of each bit which amounts to the same thing. In PSK31, a cosine shape is used.

To see what this does to the waveform and the spectrum, consider transmitting a sequence of continuous polarity-reversals at 31 baud. With cosine shaping, the envelope ends up looking like full-wave rectified 31Hz AC. This not only looks like a two-tone test signal, it IS a two-tone test signal, and the spectrum consists of two pure tones at  $\pm 15\text{Hz}$  from the centre, and no splatter. Like the two-tone and unlike FSK, however, if we pass this through a transmitter, we get inter-modulation products if it is not linear, so we DO need to be careful not to overdrive the audio. However, even the worst linear amplifiers will give third-order products of 25dB at  $\pm 47\text{Hz}$  (3 times the baud rate wide) and fifth-order products of 35dB at  $\pm 78\text{Hz}$  (5 times the baud rate wide), a considerable improvement over the hard-keying case. If we infinitely overdrive the linear, we are back to the same levels as the hard-keyed system.

There is a similar line of reasoning on the receive side. The equivalent to "hard-keying" on the receive side is a BPSK receiver which opens a gate at the start of a bit, collects and stores all the received signal and noise during the bit, and then "snaps" the gate shut at the end. This process gives rise to the receive-side equivalent of key-clicks, namely

side lobes on the receiver pass-band. So, although this "integrate-and-dump" method is 100% efficient in the task of sorting out signal from noise, it will only reject signals by 10dB at 3 times the baud rate wide and so on, the same spurious rejection figures that we got as spurious emission figures for the transmit side. The PSK31 receiver overcomes this by filtering the receive signal, or by what amounts to the same thing, shaping the envelope of the received bit. The shape is more complex than the cosine shape used in the transmitter: if we used a cosine in the receiver, we end up with some signal from one received bit "spreading" into the next bit, an inevitable result of cascading two filters which are each already "spread" by one bit. The more complex shape in the receiver overcomes this by shaping 4 bits at a time and compensating for this inter-symbol interference, but the end result is a pass-band that is at least 64dB down at  $\pm 31\text{Hz}$  and beyond, and doesn't introduce any inter-symbol-interference when receiving a cosine-shaped transmission.

### Required Equipment

With the boring technical stuff behind us, what do I need to generate a PSK signal? If you own a personal computer with a sound card, you already have the main ingredients for a PSK station. Your selection of a sound card will determine your success at decoding PSK signals. Contrary to what computer manufacturers want you to believe, not all sound cards are the same. While most are considered "Sound Blaster Compatible", the operative word here is compatible. If your PC is equipped with an onboard sound chip such as the AC97 or similar, I do not recommend using this for PSK operations. While this sound implementation is good for playing your hacked music CD's, it does not have the filtering required for good digital signal processing (DSP). Purchase and install a good quality PCI sound card. Any good motherboard will support multiple sound cards and dedicating one sound card for ham radio and another for the windows sound system just makes sense.

### Interface and Hook-up

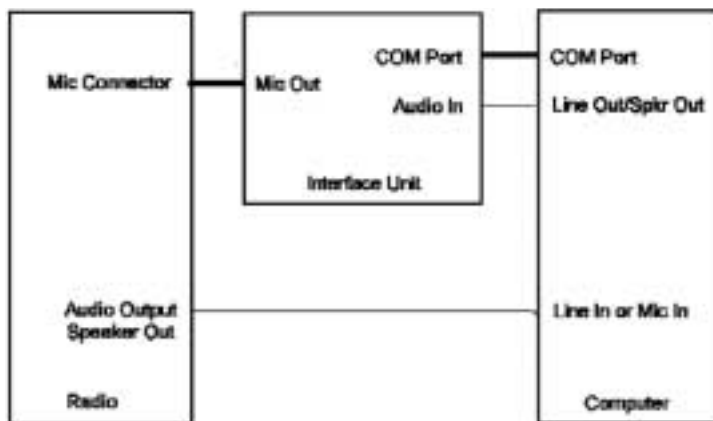


Figure 1.

Figure 1 above illustrates the recommended connections between the radio and the computer's sound card. The interface unit can be any of the commercially available units on the market or a home brew unit. While construction of an interface unit is beyond the scope of this article, there is a multitude of information available from the internet to construct these units and many are specific for a particular manufacture of radio. The premise behind the interface unit is to provide the necessary isolation between the output of the sound card and the input of the radio.

Transmitter keying is normally provided by the RTS or DTR line from a specific serial port. These low current data line are not designed to handle the keying requirements of many of today's radios, especially some of the older tube type radios. Therefore, some form of isolation is required. Likewise, connecting the sound card output directly to the microphone input is just asking for impedance mismatching problems.

and ground loops. Appendix 1 provides a list of manufactures of commercial interface units. Check your software's help file as many include various different circuits for interfacing.

## Software

This article is based on the software implementation of PSK31. There are hardware alternatives that are on the market. I have no experience with these products so I cannot comment, but Kantraoics has just released their KAM XL that includes PSK31. The Tucson Amateur Packet Radio Association has an excellent primer on hardware DSP with links to site that offer information on hardware DSP kits.

The original Windows software implementation was written by Peter Martinez, G3PLX and that program is still available today, although not widely used. The main players in the Windows software arena are Mixw, DigiPan, and WinPSK (refer to appendix 2 for a list of all available PSK31 software). Software is also available for the Linux and Mac platforms. I have used the Linux products and while their graphical interfaces are not as robust as the Windows version, they do an excellent job of decoding PSK signals.

The majority of the windows software is wrapped around the PSKCORE.DLL written by Moe Wheatly, AE4JY. Moe has an extremely informative Technical Specification available in PDF format on his web site. The DLL application performs all the necessary DSP processing and provides the calling software with the decoded data along with various messages on signal strength, amplitude data for spectrum displays along with other software control messages. Any programmer with a basic understanding of calling subroutines from a DLL file can write their own software package in a matter of minutes. As I write this article, I am in the testing phase of a new product called MSPSK that should be available for download ([home.earthlink.net/~n7yg](http://home.earthlink.net/~n7yg)) as you read this.

Installation of any of the software packages is a matter of simply executing the supplied installation program. Unless you are computer whiz, I recommend using the default folders setup by the program author. I have run across programs that assume you are installing them in the recommend folders and will not function correctly when installed on different drives or folders (poor programming practices!). Once you have the software installed, read all the included help files and README files that are included with your software. They will inform you about all the unique program features, specific setup requirements, and program functionality.

One item these help file miss is the Sound Card Sample Rate. On older Win9.x systems, there was a specific setup for the sample rate and could normally be found with the driver software. If you are running the older Win OS, you will need to set this for the highest rate possible, at least 11025 KHz. This setting can be found in many of the older PSK software setup routines. All the new software will use the Sample Rate Conversion Quality setting in the Sound Card and Audio Devices found in the Windows Control Panel. Set this to the highest setting available. This will ensure the best quality conversion. There is a price you pay for this increased quality - more system resource usage. Therefore, it is recommend you use the faster computer you can lay your hands on, load it up with memory and disable any screen savers.

Setting up the software to key the PTT line is an extremely important setting. All the programs I have used provide this function via the DTR and RTS data line using one of the available serial ports. Make sure you select the correct COM port and keying line if using an interface unit. Most interface units will use either line. Do not use VOX. The VOX circuits in all the current production radios are tailored for the human voice and function poorly with the high frequency tones generated by the sound card.

If you are feeding your tones in via the microphone connector or an auxiliary microphone connector, make sure you do not have the

microphone active when the transmitter keys. Ambient room noise picked up by a microphone will cause untold distortion on your transmitted signal. Turn off any speech processing circuits and audio compressors as they also create unwanted distortion.

## Tuning and Receiving a PSK31 Signal

The hardware is connected, the software is installed and running, now what? Locating and tuning a signal is actually quite simple with the controls provided in most software. Tune the radio to the 20 meter PSK frequency (14.071 MHz) and observe the waterfall. You should see a green (or blue) speckled background as the waterfall 'paints' its display. The speckled pixels represent the background noise. You may also see some higher intensity vertical lines similar to a set of railroad tracks. This is a PSK signal.



Figure 2

Figure 2 is a screen shot of a waterfall display with a number of signals across the selected bandwidth. The vertical white line is the tuning indicator and can be placed anywhere in the waterfall display simply by placing the mouse over a signal and clicking with the left mouse button. If you have captured a PSK signal, you will immediately see the decoded characters in the terminal window. This screenshot shows six PSK signals of different amplitudes and one constant carrier tone. The trace just to the right of the captured signal is an extremely weak PSK signal, but I was able to maintain an 80% copy on this station. If your display does not look similar to Figure 2, then you will need to adjust the incoming audio level in the Windows Volume Control and Audio Mixer Panel. Most software I have used provides a hook to this program somewhere in the menu structure. Adjust the Line IN or Mic In level controls to achieve a good contrast difference between the noise level and the brightness of the PSK signals. If you adjust the level too high, you will 'flood' the display with noise. If you adjust the control too low then the display will become black.



Figure 3

Figure 3 is a screen shot of a signal in the spectrum display. This display will show the relative amplitude of each frequency step across the selected bandwidth. Although it may not be evident with this screen shot, there is a slight amplitude dip between the two signal peaks. This is the sign of a properly tuned transmitter. Using the Waterfall Display and the Spectrum display, you can quickly identify and tune a PSK signal.

## Transmitting PSK

Setting up your transmitter is a little more challenging than receiving. The main thrust to write this article was the number of poor quality PSK signals I have observed on the bands over the past few months. When transmitting a PSK signal you are subjecting your transmitter to 100% duty cycle similar to RTTY, FSK, or SSTV. Blow the dust off the equipment owner's manual and familiarize yourself with the manufactures limits for 100% duty cycle transmissions. You might be surprised to discover your 120-watt radio is rated at 40 watts 100% duty cycle for a specific time duration. Armed with these limitations we can now set the software for transmission.

The audio output level will require the adjustment of the radios RF gain control, mic gain control, the audio mixer volume slider and the

wave slider. These setting will differ depending on your individual equipment, so experiment to get the best quality signal. Start with the RF power control at the maximum setting and the mic gain around the nine o'clock position. The volume and wave sliders will affect each other depending on where you are taking the output from the sound card. Set your radios meters to show output power and ALC. Active the software's transmit function to send an idle tone. Adjust the controls so you are not exceeding the manufactures power limitations and you have no noticeable ALC action. If you have a friend who can listen to your signal locally, this is the best method to determine if the signal is clean.

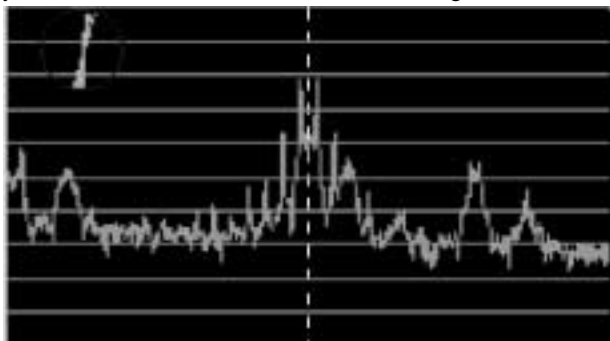


Figure 4

Figure 4 is a good example of an overdriven PSK signal. Notice the distortion on either side of the signal peaks. This signal was accompanied with an IMD reading of -12 dB. Strive for an IMD reading on the other end of something less than -25.

## Making the Contact

The first contact is always the most difficult especially when using software you are not accustom to. Search the band for a CQ and answer by activating the transmit function and typing your text into the transmit buffer window. Everything you type will be echoed into the receive buffer window. If you have the transmitter setup correctly, then the other station should hear you depending on conditions. Remember when you

are finished typing to return the software to the receive mode. You could try a CQ. Locate an unused slice of spectrum and click the mouse in the spectrum or waterfall display to set the receive and transmit frequencies. Activate the transmit function and type your CQ message. Alternatively, if you have a pre-defined CQ macro, click that button and your CQ will be sent.

## Macros and Brag Files

Every PSK31 software package I have used to date, including my entry into the software market has a facility for macros. Macros are used to define bits of information that are used repeatedly. Most software packages have a primitive editing package that will allow you to edit the text for each macro. Some programs will require you to edit a special macros file. In either case, refer to the software's help manual for procedure on using and setting up the macros.

Brag tapes (Brag files) date themselves to the Model 15 and Model 35 KSR era. Basically, there were a small length of paper tape the operator made that included information on the station setup and some personal information about the operator. The tape was then inserted into the tape reader and the content of the tape were transmitted. Today, a brag file is simply a small text file stored on the computers disk drive. PSK is 100% duty cycle so keep the bragging rights to a minimum. A 10 minutes dissertation on the architectural construction of the swimming pool will be better handled using that new Web Cam the XYL gave you for Christmas.

## Summary

PSK is an excellent weak signal mode for digital communications that requires nothing more than the computers soundcard and an external interface unit. The extremely poor band conditions for the 2003 Winter QSO party is indication of the decline on the solar cycle and will be the 'acid test' for PSK over the next few years. Voice communications will become difficult on 10 meters as many of us who have experienced a few previous cycles will attest. We now have the opportunity to keep 10 meters rolling and pickup some new 10-10 numbers. 'Lets Roll!'

# HARDWARE and SOFTWARE

This is some of the Hardware and Software available. This is not an endorsement. It is up to you to determine what is right for yourself.

<u>Hardware Name</u>	<u>Manufacturer</u>	<u>Website</u>
RigBlaster _____	West Mountain Radio _____	<a href="http://www.westmountainradio.com">http://www.westmountainradio.com</a>
MFJ-1275/1279 _____	MFJ Enterprises Inc _____	<a href="http://www.mfjenterprises.com">http://www.mfjenterprises.com</a>
SignalLink SL1 _____	Tigertronics _____	<a href="http://www.tigertronics.com">http://www.tigertronics.com</a>
RASCAL _____	Bux CommCo _____	<a href="http://www.packetradio.com">http://www.packetradio.com</a>

<u>Software Name</u>	<u>Website</u>
MSPSK _____	<a href="http://home.earthlink.net/~n7yg/mspsk">http://home.earthlink.net/~n7yg/mspsk</a>
WinPSK _____	<a href="http://www.qsl.net/ae4jy/">http://www.qsl.net/ae4jy/</a>
Mix32 _____	<a href="http://tav.kiev.ua/~nick/my_ham_soft.htm">http://tav.kiev.ua/~nick/my_ham_soft.htm</a>
WinPSKse _____	<a href="http://www.imiwebs.com/winpskse">http://www.imiwebs.com/winpskse</a>
PSK31SB _____	<a href="http://www.qsl.net/wm2u/p31sbw108.zip">http://www.qsl.net/wm2u/p31sbw108.zip</a>
Zakanaka _____	<a href="http://www.qsl.net/kc4elo/">http://www.qsl.net/kc4elo/</a>
Digipan _____	<a href="http://www.digipan.net/">http://www.digipan.net/</a>
WinWarbler _____	<a href="http://www.qsl.net/winwarbler/">http://www.qsl.net/winwarbler/</a>
Multi-Mode (MAC) _____	<a href="http://www.blackcatsystems.com/software/multimode.htm">http://www.blackcatsystems.com/software/multimode.htm</a>



## UPDATE for AOL Users

by Jeff Steinkamp N7YG #65084

In response to the problem AOL users are experiencing trying to post to the Ten-Ten mail list I spoke with a couple of friends I know who work for AOL here in Tucson (they asked not to be identified). Along with some other research, and their comments, here is what I have been able to determine for AOL users. It isn't pretty!!!

### Discussion

With the release of version 6.0 of its Windows client software (and continued in Windows AOL 7.0 and 8.0, and AOL for Mac OS X 10.2.1), AOL began to embrace the use of full HTML in email. This included a controversial feature in the sending of email to the Internet, in which messages were sent in a format known as multipart/alternative (see RFC 2046, 5.1.4), which uses MIME enclosures to include two copies of every message: one in plain text, and one in HTML. Ideally, Internet email programs should be designed to display the version that they understand. HTML-compliant programs can display the HTML section, showing the formatting that the original sender included with the message; while text-only programs would only show the text section. Even HTML-enabled programs could be made to allow their users to choose (or switch to) the text portion if they prefer simplicity. However, some Internet email programs were never designed to recognize these MIME sections, resulting in the recipient of such a message seeing both the plain text and HTML versions of the email. This also causes problems with some mail systems that will not accept individual lines in excess of 998 characters (per RFC 2822, 2.1.1), and AOL (like many mailers) does not wrap lines in HTML messages.

This issue was partially corrected in AOL 7.0, which does not send HTML if the user sticks with the default font and formatting. The problem got worse in AOL for Windows 8.0 and AOL for Mac OS X 10.2.1, neither of which seems to be capable of sending plain text email.

(Amusingly, AOL versions prior to AOL 6.0 for Windows and AOL 5.1 for Mac OS X are not very good at handling multipart messages. Although mail sent from a member using AOL 6.0 or later directly to someone using AOL 5.0 or earlier will not show both copies, the same mail sent first through the Internet (perhaps through a mailing list) will result in the AOL recipient seeing both copies.)

### Solution

Ideally, users should try to pick a version of AOL that allows better control of the sending of HTML email (such as AOL 7 for Windows, AOL 5.1 for Mac OS X, or AOL 5 for either platform), or use some other method of sending AOL mail.

### AOL 6.0 for Windows

When communicating with Internet recipients who are not using an email program capable of selecting which MIME section to view, an AOL 6.0 user can turn off the HTML by taking the following steps exactly as described:

Change your global email preferences (only needs to be done once):  
Go to Keyword: Preferences (or choose Preferences from the Settings menu on the AOL 6.0 toolbar).  
Click on Font, Text, & Graphics Preferences.

Click on the Reset button at the bottom of the resulting window. Do not make any changes in the Font Preferences area of the window. Click on the Save button.

Change a specific email to plain text (must be done for every email):  
Compose and address the email as desired.

Choose Select All from the Edit menu to highlight the entire message. With the mouse arrow somewhere over the highlighted text, click the Right mouse button, revealing a contextual menu (AKA Right-Click). Choose Normal from the Text menu.

Taking care not to make any further changes to the message, send it.

Note that changing the text to normal will eliminate the "blue bar" quoted text indicator, but will not remove some HTML elements of the quoted text. The entire quoted section must be deleted (or simply not quoted in the first place), followed by the re-entry of the text quoted manually, prior to changing the text to normal. Changing the text to normal will also eliminate any styled text that would have been seen by AOL recipients of the message, which cannot be re-added. Testing also suggests that messages with hyperlinks cannot be converted to normal text, requiring the prior removal of the link. Finally, one must suppress their email signature if it contains any styled text, as that will push the whole message back into HTML.

### AOL 7.0 for Windows

AOL 7.0 only requires step one, above using the global default font face, size, style, and color. Any attempt to change the font face, size, style, or color within the body of an email will send the email in HTML, as will any attempt to use a different default font face, size, style, or color.

Like AOL 6, AOL 7 will use HTML when quoting a message (displaying the quoted portion with a blue line in the left margin). Like AOL 6, choosing Text > Normal will eliminate any indication that the text was quoted. However, unlike AOL 6, the message will now be sent in plain text. The quoted portion will need to be manually quoted, however.

Like AOL 6, a formatted signature in AOL 7 may force the message into HTML. Confused yet?

AOL 8.0 for Windows, AOL 10.2.1 for Mac OS X: These versions appear incapable of sending plain text email.

### Here is another workaround

If you are using AOL 6.0, 7.0 or 8.0, then you need to log on to AOL and select either Netscape or Internet Explorer as your browser -  
- Do not use AOL's web browser. Launch the browser, and type "www.aol.com" in the URL field. Sign on with your screen name and password. Click on mail. You will then be able to submit messages using AOL's "AOL Mail on the Web" service.

Bottom Line: Send a nasty-gram to AOL, dump their service, and obtain an internet service provider that will allow you to use a real email client that supports Text base messaging.

*Note: Comments of the writer are his own and do not necessarily reflect the position of Ten Ten International Net, Inc. - Editor*

# Net Manager NET NEWS

**BILL MARPLE**  
**AA7ZW #62075**



For several months, we have been plagued by accidental, as well as intentional QRM. You have probably heard some of this during the nets, especially on 28.800. This QRM has caused limited to severe problems for our net controllers, as well as all that are on the nets. As a reminder to everyone, **DO NOT** acknowledge or discuss this interference over the air, as this will only add fuel to the fire of the person who is causing the interference. Instead, work around this problem as best you can. Acknowledgement of receipt of the interference will only encourage the person who is causing this to continue. If they don't believe they are disrupting our communications, they will most likely go somewhere else/

You can help in finding and silencing these individuals by reporting these events to the FCC. Simply send Riley Hollingsworth an e-mail and advise him of the date, time, frequency, signal strength, direction from which heard, if possible, and type of QRM (voice, CW, data, music, etc). He can be reached

by e-mail at [rholing@fcc.gov](mailto:rholing@fcc.gov). We can make a difference by remaining professional, and making an accurate report of what we hear.

The last quarter was seen a gradual decline in propagation. We have had very few DX stations checking in on the nets, but stateside have been quite good. However, as I have said before, keep truing to check in. Surprisingly, there have been some good openings, and good contacts have been made, so make an effort to check in. There are a lot of new numbers out there, just waiting to be grabbed.

Congratulations and very best wishes to Scotty, WA6TQC, #71, on celebrating his 82nd birthday. Talk about a dedicated net controller, he called the net on his birthday!

Now for a gentle nudge - PLEASE VOTE! Vote for whom, you ask? Why, for your favorite 10-10 net controller for 2002. There are twelve fantastic net control stations who dedicate their time and effort to bring you the best nets possible. Take a minute to think about the one net controller that you feel has done the most for the organization during the last year. Send you vote to [aa7zw@arrl.net](mailto:aa7zw@arrl.net), or [aa7zw@yahoo.com](mailto:aa7zw@yahoo.com). Please don't delay, as I need to have all votes in by May 1 so we have sufficient time to prepare the award for presentation at the convention.

All of our net controllers devote their time for you, the members of 10-10. Next time you check in on the net, tell them that you appreciate their efforts. They all do a great job, and appreciate your comments.

Until next issue, I wish you good DX, and 73

## QUARTERLY NET REPORT

*October, November, December 2002*

28.380			28.800			28.380			28.800			28.380			28.800		
MONDAY NETS						WEDNESDAY NETS						FRIDAY NETS					
DATE	TOTAL	w/o 10x#	DATE	TOTAL	w/o 10x#	DATE	TOTAL	w/o 10x#	DATE	TOTAL	w/o 10x#	DATE	TOTAL	w/o 10x#	DATE	TOTAL	w/o 10x#
10-07	31	0	10-07	32	0	10-02	4	0	10-02	31	0	10-04	57	2	10-04	26	0
10-14	17	0	10-14	40	0	10-09	51	12	10-09	45	0	10-11	51	2	10-11	32	1
10-21	50	0	10-21	40	0	10-16	42	5	10-16	32	0	10-18	49	4	10-18	37	0
10-28	62	0	10-28	49	0	10-23	36	4	10-23	31	0	10-25	47	2	10-25	34	0
11-04	35	0	11-04	55	0	10-30	33	5	10-30	50	0	11-01	56	4	11-01	34	2
11-11	38	0	11-11	42	0	11-06	34	3	11-06	45	0	11-08	48	2	11-08	59	0
11-18	45	0	11-18	45	0	11-13	17	1	11-13	48	0	11-15	49	4	11-15	38	1
11-25	23	0	11-25	40	0	11-20	35	3	11-20	29	0	11-22	52	2	11-22	33	1
12-02	32	0	12-02	40	0	11-27	17	1	11-27	52	0	11-29	54	3	11-29	40	1
12-09	30	0	12-09	56	0	12-04	28	4	11-04	46	0	12-06	51	4	12-06	29	0
12-16	13	0	12-16	50	0	12-11	33	1	12-11	50	0	12-13	37	4	12-13	40	2
12-23	27	0	12-23	67	0	12-18	32	2	12-18	31	0	12-20	52	2	12-20	41	2
12-30	3	0	12-30	39	0	12-25	27	3	12-25	26	0	12-27	62	2	12-27	43	0
TUESDAY NETS						THURSDAY NETS						SATURDAY NETS					
10-01	5	0	10-01	14	0	10-03	43	4	10-03	20	0	10-05	24	0	10-05	23	0
10-08	31	4	10-08	34	1	10-10	1	0	10-10	30	0	10-12	40	0	10-12	31	0
10-15	20	1	10-15	31	0	10-17	62	5	10-17	39	0	10-19	37	2	10-19	6	0
10-22	39	2	10-22	32	0	10-24	65	10	10-24	34	0	10-26	24	0	10-26	24	0
10-29	49	4	10-29	38	0	10-31	57	3	10-31	48	1	11-02	21	0	11-02	47	1
11-05	30	2	11-05	34	0	11-07	68	3	11-07	37	1	11-09	29	0	11-09	35	1
11-12	41	2	11-12	28	0	11-14	57	5	11-14	28	0	11-16	43	0	11-16	23	0
11-19	47	4	11-19	30	0	11-21	57	4	11-21	36	0	11-23	20	0	11-23	21	0
11-26	43	3	11-26	34	2	11-28	40	3	11-28	21	0	11-30	28	0	11-30	41	2
12-03	35	1	12-03	30	0	12-05	61	5	12-05	42	1	12-07	30	0	12-07	34	0
12-10	45	2	12-10	24	0	12-12	36	4	12-12	42	0	12-14	1	0	12-14	40	1
12-17	44	2	12-17	44	0	12-19	52	0	12-19	44	0	12-21	30	2	12-21	38	1
12-24	42	2	12-24	38	1	12-26	64	6	12-26	49	2	12-28	13	0	12-28	39	1
12-31	22	1	12-31	42	1												

## New Life Members

03305 .....K6IIS .....John K Wood Jr  
 03494 .....KC5TK .....Donald E Abell  
 07187 .....W4OM .....William D Jones  
 13548 .....WB4GLI.....Clyde R Wiggins  
 23195 .....N4VB .....Josh O Kelly  
 25486 .....KA1IO .....Thomas F Eucalitto  
 26701 .....K4YFH .....James W Martin Jr  
 27625 .....WA2PYT .....Walter M Stiver  
 28312 .....KD4BU .....Donald E Compton  
 42037 .....VE5BF .....William H Krayetski  
 42822 .....KB6QLC .....Donald M Jones Jr  
 46362 .....KJ6JO .....David J Palmer  
 46739 .....NT9U .....Henry P Baker  
 51352 .....KA5GQH .....Charles Scott  
 53431 .....W3SE .....Wesley A Printz  
 55278 .....WZ0K .....Mark O Torgerson  
 55279 .....AA0CU .....Leann B Torgerson  
 55830 .....KB5LGG .....Esse K Cornett  
 56609 .....W8HL .....Harry L Patton Jr  
 56712 .....N7KKQ .....Mark K Kesauer  
 57351 .....N9KFU .....David J Wiegand  
 58018 .....N7PVL .....Christine M Kesauer  
 59495 .....WB2ZHB .....Stephen I Hass  
 65002 .....K5HFY .....Claude E Sessions Jr  
 65272 .....W9AN .....Alan R Ahasic  
 66748 .....N2PML .....Mark C Lawrence  
 67313 .....KE6RS .....Ronald A Smith  
 67398 .....K3NJ .....John F Croft Jr  
 68155 .....KC3T .....Katherine A Croft  
 68904 .....DJ2YE .....Diethelm Burberg  
 70281 .....W6VFA .....Arnold M Weber  
 70481 .....N7JQ .....Rollo K Van Slyke  
 71221 .....KB9UJB .....Albin R Anderson  
 71223 .....K9MUY .....Robert Small  
 71436 .....KB7HYP .....Richard W Meyer  
 71893 .....KE4MAI .....Fernie D Williams III  
 72098 .....W4IJR .....James R Smith  
 72343 .....WA4KEO .....Pedro I Ceijas  
 72643 .....WA2ZOU .....Robert W Reed  
 72882 .....W3FCT .....Donald D McKinney  
 72891 .....WO7HI .....Patricia K Stiles  
 73004 .....KC5QZZ .....Theda A Harrison  
 73267 .....KE6ELY .....John M Amussen  
 73297 .....KD2PU .....John D Dinzik  
 73527 .....W4XN .....Michael J DiGirolamo  
 73698 .....AE6GB .....Dennis A Bruecker  
 73749 .....KE6GFF .....John C Kountz  
 73750 .....KC0KFL .....Forrest E DeLunger

## W6OI #109 ON THE AIR

The 10-10 Club Station, W6OI #109, is available to any current (dues paid) 10-10 member or chapter for use as a special event station such as Field Day, Chapter gatherings, and Radio Conventions. Send a written application including dates and purpose of operation and any other information to:

**JACK MOORE K5CC #50708**  
**W6OI LICENSE TRUSTEE**  
**371 RIDGE CREEK LN**  
**BULVERDE TX 78163**

Enclose a copy of your amateur license. QSL cards are available for special events. W6OI was operated during the Winter Phone contest on February 1-2. On February 27 Don (KB0ON) #29849 operated W6OI to celebrate the 21st Anniversary of the Santa Fe Trail Chapter of 10-10 International. On March 15, Bob (AC7GP) #68357 and Bear (AC7HI) #69139 operated W6OI from the Bitterroot Mountains on the Idaho/Montana border during the 10-10 mobile contest.

Louise Chapman N6ELK #36654 operates W6OI each Wednesday as the 10-10 Net Control Operator beginning at 1800Z on 28.800 MHz. Please include a SASE when requesting a W6OI QSL card via:

**LOUISE CHAPMAN N6ELK**  
**310 CLARK AVE.**  
**LONG BEACH CA 90808**

Paperchasers working W6OI can request the chapter list from K5CC. For CW operators, W6OI has a FISTS number. W6OI is operated at 0100Z on 3.768 MHz by Bob NZ5E #31049 on the GERATOL Net. The GERATOL Net is a worked all states net on the extra class portion of the 75 meter band.

## the 10-10 News on CD-ROM

That's right! Every issue of the 10-10 News AND the Quarterly Bulletin that was ever published in magazine format (now through 2002) is now available on a CD-ROM in Adobe pdf format (we have also included a copy of Acrobat for those that don't have Acrobat Reader) now available for the low price of \$20 USD which INCLUDES shipping and handling. You may pay by Check, Money Order or IRC's (\$1 USD per IRC). VISA and MasterCard are also acceptable. Please provide Card Number, Expiration Date, Name on Card, Phone Number and signature of Cardholder (please note that our credit card agent is RSVP of Omaha NE).

Mail to: 10-10 INTERNATIONAL NET, INC.,  
 643 N 98TH ST #142,  
 OMAHA, NE 68114-2342  
 or by FAX to 402-891-2481

*all sale profits go to the 10-10 Scholarship Foundation*



# 10-10 Scholarship Foundation Supporters

The members listed below became 10-10 Scholarship Foundation Supporters during the months of December, January and February. We encourage all of our members to support the Foundation. The 10-10 Scholarship Foundation is a qualified 501(c)(3) tax exempt organization and therefore your contributions are tax deductible. If your employer will match your contribution, please let us know.

The Blackstone Valley Amateur Radio Club from Woonsocket, RI sent along a very generous donation from the club's treasury in memory of Leo Antaya, K1AVL, # 908.

Why not consider a club donation or an individual donation in memory of a fellow ham or loved one? If you haven't donated before, we want you to know that all donations, no matter how small, are appreciated and they do add up.

W8KIL	02210	Loren Williams
VE6AMM	03623	George McIver
W7PFZ	03819	Phillip Gendreau
VE6AMN	06653	Margaret McIver
W4WJV	11584	Edgar Reed
WA0TOY	19478	John Murphy
K1EK	36200	Ralph Kuhnert
N6YE	36666	Kenneth King
K7BND	38511	Richard Clousing
W7GTO	39680	Joseph Shinnars
KA9SOX	39886	Bruce Brady
NT9X	44421	Arthur Bonner
WD4MUD	46132	John Darden
WB0CON	53964	Eva Donaldson
VP2MU	54243	Keithley Chambers
KA1LHO	55043	William Williams
AB6MA	55330	Robert Lorentz
KB8CMW	55454	Paul Flautt
WA2VZQ	60620	Kenneth Stier
WA0RXI	62341	Ronald Moss
N3NOP	63098	Robert Fulton, Jr.
K8IYO	63655	George Willeford
KE4HKT	65658	Cecil Miller
KI7XQ	66826	John Hart
W6LDY	67339	Vernon Gerwer
N0WEO	67542	Eugene Frazier
KE4EYL	67773	Cecil Wagner
W7IXL	68844	Dale Kind
K6CVK	69161	Dr. William Olson
N9OG	70000	Martin Winkler
VE6YR	70093	Robert McCarthy
N3OBY	70383	Furman Hendrickson
KF4YDD	70552	Ronnie Chapman
NC6U	70953	Ronald Carmichael
KB9UJB	71221	Albin Anderson
WD9ARU	71408	Thomas Kalvaitis
KB7HYP	71436	Richard Meyer
KE6BTM	71929	Charles Funsch
N1YVV	72085	David Ocame
KA0WAS	72482	Robert Clark
WB4HAW	72887	Richard Walter
AA2MA	73000	Mark Morgida
NC2F	73015	Dennis Healy
MI5TCC	73113	Trevor Campbell
W1AS	73131	Alan Clair

KV2M	73174	Mary Von Lintig
W0AJU	73233	Richard Chapman
KF4FQW	73272	Duane Pocock
NA7SA	73278	Charles Kovacs, Jr.
W2XOY	73284	William Continelli

You too can become a 10-10 Scholarship Foundation Supporter, by making your check payable to the 10-10 Scholarship Foundation. Please send to:

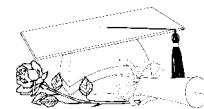
## 10-10 International Net Scholarship Manager

Larry Berger WA2SUH

9 Nancy Boulevard

Merrick, NY 11566-3119

## 10-10 SCHOLARSHIP APPLICANT INFORMATION



Each year the 10-10 International Net, through our non-profit corporation, the 10-10 Scholarship Foundation, funds five \$1,000 scholarships, which are administered on its behalf by the Foundation for Amateur Radio (FAR).

Hugh A. Turnbull W3ABC, Chairman of FAR's Scholarship Committee, announced the five most recent winners of the 10-10 Scholarships in the October 2002 10-10 International News. Over the past 14 years, 10-10 has funded 46 scholarships valued at \$41,000.

Applicants must be licensed Radio Amateurs having HF privileges. There is no restriction on the course of study, but applicants must intend to seek at least an Associate degree from a college or university. Non-U.S. Amateurs and those seeking graduate degrees are also eligible. Foreign members should be aware that students who study outside the United States are also eligible to receive a 10-10 Scholarship.

It is suggested that every 10-10 member encourage qualified college-bound radio amateurs to take advantage of this opportunity by requesting an application package by letter or QSL card prior to April 30, 2003 from the:

Foundation for Amateur Radio  
P.O. Box 831  
Riverdale, MD 20738

Applicants, except those who are active 10-10 members, must provide an endorsement from a current active 10-10 member (one whose dues are current).

Completed applications must be received by FAR prior to June 1, 2003.



# 10-10 AWARD INFORMATION

**THIS IS A BASIC REVIEW OF AWARDS AVAILABLE FROM 10-10 <> PLEASE REQUEST RULES FOR COMPLETE INFORMATION**

To apply for any 10-10 Award, proof of paid-up membership is mandatory. A copy of your membership card or address label from the latest copy of the *10-10 International News* must be sent with your application.

An application listing the rules for each award is available from the appropriate Award Manager listed below. Please send your request with a #10 (business size) envelope, self-addressed and stamped with one unit of first class postage, to the Award Manager for the Award you are interested in obtaining. Please no phone calls to Award Managers for an application or list of rules.

Rules for all Awards are also available on the 10-10 web site located at <http://www.ten-ten.org>

## BAR AWARDS

A 10-10 Bar represents a legal contact with one hundred (100) 10-10 members. A Bar award may be applied for and awarded for each group of 100 10-10 members that you work. Additional certificates are available for the Bar levels of 1000, 2500, 5000, 7500, 10,000 and every 2500 contacts above.

### INTERNATIONAL 500 OF THE WORLD (VP)

When you attain the 500 Bar from the 100-900 bar manager, you automatically become a member of the International 500 Club and will be assigned an honorary VP number to be used in conjunction with your 10-10 number. With the issuance of the number you are eligible to participate in the VP award program. The VP award recognizes those 10-10 members that work other members with VP numbers. A 10-10 member may apply for VP award endorsements when completing 100 contacts with VP members. A VP award may be applied for and

awarded for each group of 100 that you work. Also available to VP members are the VP Worked All States award and the Lucky 13 Certificate. The Lucky 13 award is intended to demonstrate the operator's ability to work the entire 10-meter band. The 10-meter amateur band extends from 28.0 to 29.7 MHz. The Lucky 13 award is awarded for completing a legal 10-10 contact with 13 different VP's on 13 different days on 13 different 100 kHz (plus or minus 10 kHz) segments of the band. These contacts must occur between 28.3 MHz and 29.7 MHz. There are 15 possible 100 kHz segments possible within this band section. For purposes of the Lucky 13 award, mobile, portable, or fixed operation may be used. Contacts can be made using any legal mode of operation. QSL conformation is not required.

### WORKED ALL CONTINENTS AWARD

The 10-10 Worked All Continents award is issued for successfully working a 10-10 member in each of the six (6) radio continents (Africa, Asia, Europe, North America, Oceania, and South America)

### COUNTIES AWARD

10-10 offers an award for working all 3077 U.S. Counties. The basic certificate is issued for the first 100 counties contacted. Endorsement seals are available for each 500 level. A plaque is awarded for working all 3077 10-10 Counties.

### COUNTRIES AWARD

The Countries award certificate is awarded for confirmed contacts with 10-10 members in other countries. Applications require confirmations in the form of QSL cards (or non-returnable photocopies). A legal 10-10 contact within the applicant's country may be counted as one contact for this award. A basic

10-10 Countries certificate is awarded for contact with 25 countries. Thereafter, endorsement seals may be applied for in groups of 10 through the 75-country level. Beyond the 75-country level, endorsement seals are awarded in groups of five (5)

### CW AWARD

The basic certificate for this award is earned with a minimum of 25 legal contracts with other 10-10 members

### MOBILE AWARD

The basic Mobile Contact award is issued for 25 mobile contacts. Each contact must consist of the 10-10 number, call sign, name, QTH (state or country) of both parties and the date. Endorsement seals are available for the 50, 75, and 100 contact levels.

### OM/XYL AWARD

Within 10-10's membership there are many husband and wife teams. These are referred to as OM/XYL teams. 10-10 offers the OM/XYL award for contact with as many of these teams as an operator can find. The basic OM/XYL Award is for contact with ten (10) teams.

### WORKED ALL STATES AWARD

Make a contact with another 10-10 member in each of the 50 United States and you are eligible for the 10-10 WAS award. QSL Confirmation is required.

### WPX (PREFIX) AWARD

The basic certificate is awarded for working 100 different prefixes

### GREAT BRITAIN COUNTIES & REGIONS CERTIFICATE

A basic certificate is awarded for completion of a legal 10-meter contact with another 10-10 station in five (5) of the numbered Counties/Regions/Unitary Authorities of Great Britain.

## AWARD MANAGERS

### Bar Applications 100-900

Dan Morris, KZ3T # 41015 ..... 112 Royal Oak Ct., Lenoir, NC 28645. .... (828) 728-5049. .... kz3t@charter.net

### Bar Applications 1000+

Cliff Taylor, K5FBS #48461 ..... 22707 Red Mountain Dr., Elmendorf, TX 78112-6034 ..... (210) 621-2741 ..... catk5fbs@aol.com

### VP Bar Award Manager

Carl Fisher, W0HIK #40678. .... 5 Angelina Dr., Augusta, KS 67010-2262 ..... (316) 775-5900 ..... w0hik@aol.com

### VP Worked All States Manager

Carl Fisher, W0HIK #40678. .... 5 Angelina Dr., Augusta, KS 67010-2262 ..... (316) 775-5900 ..... w0hik@aol.com

### VP Lucky 13 Certificate Manager

Dan Morris, KZ3T # 41015. .... 112 Royal Oak Ct., Lenoir, NC 28645. .... (828) 728-5049. .... kz3t@charter.net

### Continents Award Manager

Dick Corlew, NC6V #25057 ..... 3213 Carolyn Circle, Oceanside, CA 92054 ..... (760) 757-9284. .... nc6v@cox.net

### Counties Award Manager

Hank Richroath, K5HWI #63313 ..... 1004 S. Howeth St., Gainesville, TX 76240-5904. .... (940) 612-1111. .... k5hwi@velose.com

### Countries Award Manager

Mike Davidson, N5MT #24949. .... 3518 Bellefontaine St., Houston, TX 77025-1310. .... (713) 668-6408. .... N5MT@aol.com

### CW Award Manager

Lee Zalaznik, K16OY #50948 ..... 334 Olivina Ave., Livermore, CA 94551-6137. .... (925) 455-0361. .... lee.zalaznik@sbcglobal.net

### Mobile Award Manager (Temporary)

Ed Redwine, K5ERJ #11843 ..... 9 Yellowrose Lane, Augusta, KS 67010-2230 ..... (316) 775-5700 ..... k5erj@aol.com

### OM/XYL Award Manager

Pat Hibbs, KH6OE #28842 ..... 4603 Glenna Way, Louisville, KY 40219-2814 ..... (502) 968-1894 ..... kh6oe@insightbb.com

### Worked All States Award Manager

Eva Donaldson, WBØCON #53964. .... 12933 W Montana Drive, Lakewood, CO 80228-4244. .... (303) 989-0475. .... wb0con@attbi.com

### WPX (Prefix) Award Manager

Al Longo, NN1J #41728 ..... PO Box 94, Springfield, ME 04487-0094. .... (207) 738-3268. .... nn1j@onperfect.com

### Great Britain Counties & Regions Certificate Manager

Mike Crawshaw, G4BLH #18446 ..... 50 Kibble Grove, Brierfield, Nelson, Lancs, England BB9 5EW .... Tel 01144 1282 613754 ... g4blh@zen.co.uk

# 10-10 AWARDS

## TOP TEN HONOR ROLL

Award Manager:  
Cliff Taylor  
K5FBS #48461

#	CNTCTS	CALL	10-10#
01	24600	WA5JDU	03017
02	20900	WB1DBZ	26001
SK	19400	W0RWC	00581
SK	17000	PJ2WG	27999
03	16700	W4WKQ	33299
04	16500	K5MRU	00218
05	14100	WB7NUU	17416
SK	11600	WA9LIC	01599
06	11500	K0PV	09902
	11500	K5GAY	11825
SK	11400	N5CUQ	00040
07	10800	NS4M	41176
08	10600	W9IAI	35140
09	10000	W6YRJ	11911
	10000	KB0ON	29849
10	09900	K6PZE	01341

## 1000+ BAR AWARD

Award Manager:  
Cliff Taylor  
K5FBS #48461

CERT #	CALL	10-10#
1525	KA6JGQ	70857
1526	VE5RMO	70608
1527	N3TF	58528
1528	WU6I	71405
1529	DK4QO	69087
1530	KD6HWD	62083
1531	VE4WSC	50470

### 2500 BAR

CERT #	CALL	10-10#
417	N5WYR	62116

### 5000 BAR

CERT #	CALL	10-10#
90	W8III	38179

### 10000 BAR

CERT #	CALL	10-10#
17	KB0ON	29849

## 500 BAR AWARD

Award Manager:  
Dan Morris  
KZ3T #41015

VP #	CALL	10-10#
3249	KC5QCB	67897
3250	KC1EU	72546
3251	W8XC	03745
3252	KG4NYL	27679
3253	KR0I	12001
3254	N7GTW	62504
3255	KB1ALX	62468
3256	K4SMG	68585
3257	W6ASP	73446
3258	K8UT	02582
3259	W5ES	15651

## LUCKY 13 AWARD

Award Manager:  
Dan Morris  
KZ3T #41015

CERT #	CALL	10-10#
449	N1QMU	67146
450	VE4ALN	69217

## VP AWARD

Award Manager:  
Carl Fisher  
W0HIK #40678

### VP WAS

CERT #	CALL	10-10#
037	KE6FQC	69047
038	N5WYR	62116
039	W2BOC	71096

### VP100

CERT #	CALL	10-10#
524	VE4GE	71015
525	N5WYR	62116
526	AC7OY	73012
527	KD5HIP	71476

### VP200

CERT #	CALL	10-10#
299	N5WYR	62116
300	KD6HWD	62083
301	KE6OIO	68997
302	KC8IM	31959

## VP300

CERT #	CALL	10-10#
192	WA6CDO	72240
193	N5WYR	62116
194	N5UMH	60027
195	KC6SEH	59098
196	W0RTV	13962

## VP400

CERT #	CALL	10-10#
135	N5WYR	62116
136	WA6GSV	07673

## VP500

CERT #	CALL	10-10#
091	N0WY	68684
092	N5WYR	62116
093	VE4ALN	69217

## VP600

CERT #	CALL	10-10#
056	KA3WWG	56860
057	K6MQ	71487

## VP700

CERT #	CALL	10-10#
036	N6OPR	45715

## VP1000

CERT #	CALL	10-10#
016	K5FBS	48461

## VP1400

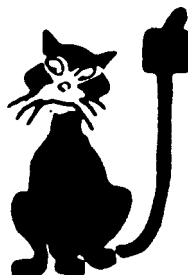
CERT #	CALL	10-10#
005	W8III	38179

## VP2100

CERT #	CALL	10-10#
002	KB0ON	29849

## VP2200

CERT #	CALL	10-10#
002	KB0ON	29849



## WORKED ALL STATES AWARD

Award Manager:  
Eva Donaldson  
WBØCON #53964

CERT #	CALL	10-10#
2447	KC1EU	72546
2448	W7APE	61491
2449	K8HMS	28586
2450	W5RCB	70693
2451	KB9TVU	70593
2452	KC5QCB	67897
2453	VE4ALN	69217

## WORKED ALL CONTINENTS AWARD

Award Manager:  
Dick Corlew  
NC6V #25057

CERT #	CALL	10-10#
589	K7INA	21455
590	N5UMH	60027
591	KC5HAV	66292
592	K3WWV	10132

## CW AWARD

Award Manager:  
Lee Zalaznik  
KI6OY #50948

### BASIC - 25 CW CONTACTS

CW #	CALL	10-10#
074	W4KEM	41824
075	KP4HLR	73437
076	K3WWV	10132
077	WD6CKT	25002

### 50 CW CONTACTS

CW #	CALL	10-10#
072	KC7EQW	73580

### 100 CW CONTACTS

CW #	CALL	10-10#
068	WB7RHT	73057

### 200 CW CONTACTS

CW #	CALL	10-10#
047	W5EIJ	11732

# 10-10 AWARDS

## WPX (PREFIX)

### AWARD

Award Manager:  
Al Longo  
NN1J #41728

### 100 PREFIX

CERT # CALL 10-10#  
*none issued*

### 200 PREFIX

CERT # CALL 10-10#  
189 OZ1ACB 36953  
190 N3TF 58528  
191 KD6HWD 62083

### 400 PREFIX

CERT # CALL 10-10#  
057 K6MQ 71487

### 500 PREFIX

CERT # CALL 10-10#  
036 N6OPR 45715

### 600 PREFIX

CERT # CALL 10-10#  
021 AA1KS 56510

## COUNTY HUNTER AWARD

Award Manager:  
Hank Richroath  
K5HWI #63313

### 100 COUNTIES

CERT # CALL 10-10#  
489 KA5PVB 41415

### 400 COUNTIES

CERT # CALL 10-10#  
148 AA7FK 53104

### 500 COUNTIES

CERT # CALL 10-10#  
125 AA7FK 53104

### 600 COUNTIES

CERT # CALL 10-10#  
091 KM5EH 71103

### 700 COUNTIES

CERT # CALL 10-10#  
068 KB6UPG 51849

### 1500 COUNTIES

CERT # CALL 10-10#  
007 AA1KS 56510

### 1600 COUNTIES

CERT # CALL 10-10#  
006 K1WQU 02225

## DX COUNTRIES AWARD

Award Manager:  
Mike Davidson  
N5MT #24949

### BASIC AWARD 25 COUNTRIES

CERT # CALL 10-10#  
590 9A2GA 71811  
591 N5UMH 60027  
592 K3BMI 53487  
593 K3WWV 10132

### 35 COUNTRIES

CERT # CALL 10-10#  
335 N5UMH 60027  
336 K3BMI 53487

### 45 COUNTRIES

CERT # CALL 10-10#  
234 WA6CDO 72240  
235 KA4N 50786  
236 G3XPO 70614  
237 SM5DYC 25934  
238 K3BMI 53487

### 55 COUNTRIES

CERT # CALL 10-10#  
169 N0WY 68684

170 G3XPO 70614  
171 SM5DYC 25934  
172 K3BMI 53487  
173 N0TW 36547

### 65 COUNTRIES

CERT # CALL 10-10#  
122 G3XPO 70614  
123 SM5DYC 25934  
124 K8DEN 55495

### 75 COUNTRIES

CERT # CALL 10-10#  
088 G3XPO 70614  
089 SM5DYC 25934

### 80 COUNTRIES

CERT # CALL 10-10#  
067 G3XPO 70614

### 90 COUNTRIES

CERT # CALL 10-10#  
049 OZ1ACB 36953

### 95 COUNTRIES

CERT # CALL 10-10#  
049 W5UFA 23660

### 105 COUNTRIES

CERT # CALL 10-10#  
035 LU5HE 10334

### 275 COUNTRIES

CERT # CALL 10-10#  
001 N5MT 24949

### 280 COUNTRIES

CERT # CALL 10-10#  
001 N5MT 24949

## OM/XYL AWARD

Award Manager:  
Pat Hibbs  
KH6OE #28842

### BASIC - 10 TEAMS

CERT # CALL 10-10#  
457 KB1ALX 62468

### 75 TEAMS

CERT # CALL 10-10#  
397 K5FBS 48461

## MOBILE AWARD

Award Manager:  
(see page 23)

### 900 MOBILES

CERT # CALL 10-10#  
K5FBS 48461

## GB COUNTIES & REGIONS CERTIFICATE

Award Manager:  
Mike Crawshaw  
G4BLH #18446

### BASIC CERTIFICATE 5 COUNTIES/REGIONS

CERT # CALL 10-10#  
*- none issued -*

## PINS, PATCHES AND DECALS

1" PINS - \$3.50 each or two for \$6.00  
3" PATCHES - \$3.50 each or two for \$6.00  
3" DECALS - \$1.50 each  
SPECIAL - one of each for \$7.00

All shipments post paid (DX add \$1.00). Please make your check or money  
order out to 10-10 International Net, Inc. and mail to:

LARRY BERGER, WA2SUH #00407  
TEN-TEN SCHOLARSHIP FOUNDATION MANAGER  
9 NANCY BLVD  
MERRICK NY 11566-3119

*sale profits go to the 10-10 Scholarship Foundation*





# Silent Keys

Compiled and listed by  
Ruth Bartholomew NØKDB #48715

*It is with sorrow that we note the following 10-10 members who are now Silent Keys. We extend our sincere condolences to the families and friends of these SK members whose calls and 10-10 number will forever be kept in the records of the 10-10 Net.*

00144....WA9FHL.....Raymond Rhoden.....W.Terre Haute, IN  
00816....W2WAS.....Joseph Lambias.....Westbury, NY  
02301....K6TCZ.....Vernon Sprague.....Freeport, IL  
02624....K2FJ.....Kenneth Palmer.....East Aurora, NY  
03499....W7ROL.....Reginald Hoskin Sr.....Four Lakes, WA  
03698....W9HDI.....Charles McIntyre.....Madison, WI  
03914....W5OHF.....James Baker.....Austin, TX  
04351....W3EPR.....Camille Marie.....Pikesville, MD  
05039....K7AWI.....Pete Marshall.....Scottsdale, AZ  
05228....W5QKR.....Meredith Youhg.....Hot Springs, AR  
06103....W7KBC.....John Kepus.....Camano Island, WA  
06134....W7CRV.....Fred Kaser.....Wichita, KS  
06715....W0ENW.....Greg Hibbard.....Sedalia, MO  
07088....WA6DHS.....Roy Warner.....Port Hadlock, WA  
07699....WA3EFG.....Thomas Rea Jr.....Oil City, PA  
08685....W0DP.....Donald Wilkinson.....Curtis, NE  
09035....W2AFN.....Albert Newman.....Tupper Lake, NY  
10085....W2DND.....Clarence DeBow Jr.....Cherry Hill, NJ  
10524....WB6HMB.....Basil Rose.....Capistrano Beach, CA  
11014....W2KTX.....Lawrence Caneel.....Edison, NJ  
11144....K7YIN.....James Dwyer.....Grand Junction, CO  
11750....WB5NLY.....Hallye Douglas.....Corpus Christi, TX  
12402....WA4LUQ.....Al Lemmons.....Greer, SC  
13749....K1RSC.....John Johnston.....Rye, NH  
14637....K4FOJ.....Charles Heisner.....Pace, FL  
15424....W7EQU.....Edward Ferrel.....Honolulu, HI  
16389....WA4DJF.....Maitland Carey.....Pulaski, TN  
18271....KH7RS.....Richard Senones.....Miliani, HI  
18285....KH6JEO.....Anthony Bessara.....Kapolei, HI  
18828....K5RVF.....William Roussel Jr.....Port Arthur, TX  
19958....WA3YJA.....John Strong.....Annapolis, MD  
21054....KC4FC.....Claude Liles.....Fayetteville, NC  
21547....WB2LEG.....Donald Collins.....Rochester, NY  
22390....WB9SUL.....Jack Siddall.....Michigan City, IN  
25121....KZ0C.....James Bohnsack.....Waterloo, IA  
25373....W8KNT.....Richard Wetzel.....Bloomfield Hills, MI  
27063....KB0PR.....Larry Jemison.....Cedar Rapids, IA  
27999....PJ2WG.....Willy Gavenhorst.....Curacao, Netherlands Antilles

28157....W1SVR.....Douglas Grimshaw.....Farmington, CT  
28874....W6TQG.....John Germany.....South El Monte, CA  
30682....W6JAZ.....Leonard Chamness.....LaHabra, CA  
32688....W6GIW.....Edward Bewley.....Turlock, CA  
33028....W0NWM.....Edwin Sheldon.....Aberdeen, SD  
33743....WA6HJD.....James Sheble.....San Bernardino, CA  
36367....KA2MOO.....George Pearson.....Plattsburgh, NY  
36491....K4YPO.....Forrest Haynes.....W. Palm Beach, FL  
36685....W6RJH.....Richard Shuler.....Salem, OR  
37492....W3EE.....Lee Apple.....Towsan, MD  
38545....W7DWW.....Frank Moorhead.....Tacoma, WA  
39544....KA3NIL.....Robert Capers.....Princess Anne, MD  
40802....N5HUP.....Glen McAskill.....Cisco, TX  
41260....NQ9L.....David Capehart.....Tennyson, IN  
41581....WA6LRF.....James Kavanaugh.....San Carlos, CA  
41598....NH6FL.....William Agustin.....Paauilo, HI  
42804....K6JZK.....Richard Duffy.....Cypress, CA  
42868....KB6MOK.....Charles Ewing.....Wofford Heights, CA  
42875....WD6HEN.....Stanley Somers.....Sanleandro, CA  
44613....N6MXF.....Joe Taul.....Fresno, CA  
45088....N0ISL.....John Douglas.....Elk River, MN  
47126....KB6SWI.....Betty Hardy.....Mountain View, CA  
51237....N1GLC.....Philip Choate.....East Falmouth, MA  
51839....KA6PUN.....Bryan Thompson.....Torrance, CA  
52674....W6VZF.....Charles Guyton.....Ventura, CA  
52858....WB8WEZ.....Andrew Pitt.....Middlesboro, KY  
53058....AC4MZ.....Warren Higgins.....Louisville, KY  
54305....WD4PNJ.....Clifton Adams.....Birmingham, AL  
56718....KB7JRC.....Robert Brier.....Orangevale, CA  
57485....NN4S.....Harold Vincent.....Buckhead, GA  
62971....WA9TPQ.....William Erickson.....St. Charles, IL  
64044....N9SQW.....Richard Hoppe.....Almond, WI  
65180....N4PK.....Paul Knupke.....Largo, FL  
66190....KE4BVI.....Elaine Harvey.....Seneca, SC  
69788....K8AKJ.....Lewis Williamson.....Dayton, OH  
70668....N1HP.....Richard Corris.....Hebron, CT  
70732....AF4AM.....Don Boyer.....Vine Grove, KY  
72232....WA9ERC.....William Knopp.....Merrit Island, FL  
73130....KD5IVM.....Joseph Siciliano.....Poughkeepsie, NY

Please send silent key information to  
Ruth Bartholomew, NØKDB  
HC65 - Box 102A, Sullivan MO 63080-9204  
or email n0kdb@fidnet.com

Please include Call, 10-10 Number, Name, City and State,  
and Date of Death  
(if known - if not, please estimate as close as possible)

*NOTE: 10-10 obtains SK Listings from various sources and errors could appear as many times they cannot be verified. We apologize for any errors. Please notify the SK Manager if any errors are found.*

# 10-10 INTERNATIONAL NEWS

## CONTEST RULES AND CALENDAR

### 6.2 QSO Parties

10-10 QSO Parties are contests and awards are given for high scores in Call Areas, countries, etc., 10-10 likes to think of these contests as Parties. These Parties are held for fun and to meet 10-10 members around the world. There are a few basic rules that all participants must follow in order to make the Party fair for everyone and to make the scoring as straightforward as possible for the volunteer scorers. All QSO Party rules are listed below. 10-10 sponsors four (4) QSO Parties and one (1) 24-hour Sprint Party each year. A 10-10 CW QSO Party is held in the Spring and Fall and a 10-10 Phone QSO Party is held in the Winter and Summer each year. The 10-10 Day Sprint is held on October 10th (10/10) each year. All 10-10 QSO Parties are 48 hours long except for the Sprint Party, which is 24 hours in length.

#### 6.2.1 Who Can Participate?

10-10 QSO Parties are open to all amateurs with operating privileges on the 10-meter band. 10-10 members may use any contacts made for 10-10 awards. Non 10-10 members may use contacts to qualify for 10-10 membership or may choose to just give their call to 10-10 members.

#### 6.2.2 Entry Classifications

You may enter each QSO Party in ONE of the following categories: Individual, Club or QRP. The Individual category includes single station operators and can also include OM/XYL or families using one shared station with individual call signs and 10-10 numbers. The QRP category is for stations with output power of 5 watts for CW, 10 watts PEP for SSB or 10 watts for AM/FM. Stations operating in the Club category must be a legitimate 10-10 Club with a registered 10-10 number, a government issued call sign and a membership of at least 5 amateurs. All Club members operating the Club station during a Party must be paid members of 10-10. A list of all operators in this category must accompany the submitted logs. Multi-transmitters (2 or more transmitters operating simultaneously, sharing one call sign) are NOT accepted in any QSO Party.

#### 6.2.3 Score Assignment

Under certain circumstances it may be possible to assign your QSO Party score to your local 10-10 chapter. Only a paid 10-10 member belonging to a particular chapter as a local member may make chapter assignments of scores. Local members are defined as those members that can work the chapter net via ground wave. If in doubt regarding your qualifications to assign your score to a 10-10 Chapter, either do not claim Chapter score assignment or contact the Contest Manager for confirmation. The 10-10 Sprint Day Party does NOT allow Chapter assignment of scores.

#### 6.2.4 Logging Contacts

During a QSO Party or 10-10 Day Sprint, log your contacts with the following information: date/time in UTC, call sign, name, QTH (state or country), 10-10 number, and points claimed. A sample log sheet is included on the 10-10 web site to aid you in setting up a log. All logs must be in UTC. If you log by hand, the above format will work well. If you log by computer, you may need to add columns for the 10-10 number, etc. Both hand logs and computer logs are acceptable for all 10-10 QSO Parties and the 10-10 Day Sprint. QSO Party logs may be submitted for ONLY one (1) category. For example, a single log CAN NOT be submitted in both the QRP and Club categories. In 10-10 Parties individuals compete against individuals, QRP stations against QRP stations, and Clubs against Clubs. QSO Party and 10-10 Day Sprint logs are accepted from paid 10-10 members ONLY.

#### 6.2.5 Call sign/10-10# Dupe Sheet

A Dupe Sheet is required for all QSO Party and 10-10 Day Sprint log submittals based upon the following criteria. A Dupe Sheet is required if more than 50 contacts are made. Either hand generated or computers Dupe Sheets are acceptable. All submitted Dupe information should be in an alphanumeric sequence. Duping may be accomplished by use of the 100 square grid method using either 10-10 Number or call sign information. Example Dupe Sheets are included on the 10-10 web site. Some Contesters keep the Dupe Sheet current as they work each station, others bring it up to date during lull periods, and still others fill it out after the contest is over. Use whichever way suits your method of operation, but a call sign or 10-10 number Dupe Sheet MUST be provided with your QSO Party or 10-10 Sprint Party submittal if over 50 contacts are claimed.

#### 6.2.6 Cover Sheet

QSO Party logs must be submitted using a 10-10 Cover Sheet. 10-10 Cover Sheets are published on page 32 of each issue of the 10-10 International NEWS. A sample Cover Sheet is also included in this Brochure or you can find a Cover Sheet on the 10-10's web site. An approved Cover Sheet You MUST be used one of these approved Cover Sheets when submitting your QSO Party or 10-10 Sprint results. Whatever Cover Sheet is used, make sure it must be filled out completely - name, call sign, 10-10 number, current mailing address, date of contest entered, etc.

#### 6.2.7 Contest Submittal

The contest submittal package for any 10-10 QSO Party (CW or Phone) as well as the 10-10 Day Sprint, must include all of the following four (4) items: 1. Cover Sheet with all blanks filled in 2. Proof of membership such as a copy of your 10-10 dues card or mailing label from your latest copy of the 10-10 NEWS showing that your 10-10 dues are current as of the date of the QSO Party entered 3. Log in UTC format; hand or computer generated is acceptable 4. Call sign dupe sheet completed (if over 50 contacts are claimed) using 10-10 numbers or using call signs. - all contest submittals must have a Call Sign or 10-10 Number Dupe Sheet if over 50 contacts made. No dupe sheet is required if less than 50 contacts.

### 6.2.8 Certificates

A certificate will be awarded to the top scorer in each country and each US call area for each CW and Phone QSO Party, and for the 10-10 Sprint event. A country is defined as one of those on the current ARRL DXCC countries list. Certificates will also be awarded to the Top 10 finishers in the world and to the first place finishers in the Club, QRP, and chapter categories. In the event of a tie, the tiebreaker will be based on the greatest number of contacts made. All final scores for CW and Phone QSO Parties, and for the 10-10 Sprint event, for both DX and US call areas, will be published in the 10-10 NEWS for each scoring category along with aggregate chapter scores.

### 6.2.9 Quiet Zone

During 10-10 QSO Parties, 10-10 members are requested to have the courtesy to observe a Quiet Zone between the frequencies of 28.490 and 28.510 MHz for non 10-10 Party uses. Remember that the 10-10 organization promotes courtesy on the 10-meter band. Please leave the above frequencies open for non 10-10 members to use.

### 6.2.10 QSO Party Rules

The following eleven (11) rules apply to ALL scheduled annual QSO CW and Phone Parties and the 10-10 Day Sprint Party sponsored by the 10-10 International Net.

1. Phone contest contacts MUST be made within the 10-meter phone band on SSB, AM or FM. CW contest contacts MUST be made within the 10-meter band on CW, RTTY or Digital modes such as PSK31.

2. Repeater or satellite contacts are NOT allowed.

3. All Exchanges MUST include call sign, name, state or country and 10-10 #

4. A station may be counted ONLY once as a contact.

5. All contacts MUST take place during the designated Party hours.

6. All logs MUST be kept in UTC time.

7. A call sign or 10-10 number Dupe Sheet IS REQUIRED of all participants that submit 51 or more contacts. (See explanation above - Dupe Sheet).

8. ONLY a paid member belonging may make chapter assignments of scores to that chapter as a local member (See explanation above). NOTE: Chapter assignment of scores IS NOT allowed for the 10-10 Day Sprint.

9. Scoring: Points are earned for contacts with operators that include a valid 10-10 number exchange and for contacts that do not include a 10-10 number exchange.

(a) Two (2) points are awarded per contact WITH a 10-10 member.

(b) One (1) point is awarded per contact WITHOUT a 10-10 number exchange.

10. Disqualification criteria: Submitting illegible, improper logs or failing to comply with these Rules or their intent WILL result in disqualification. Logging errors exceeding 10 percent (%) will result in disqualification.

11. NO logging information will be returned.

### 6.2.11 Log Postmark Deadline Date

Each 10-10 QSO Party and 10-10 Day Sprint has a log submission Postmark Deadline Date. This date is published in the 10-10 NEWS and on the 10-10's web site. Any logs received with a postmark after the stated Postmark Deadline will be rejected. It is very strongly recommended that all logs be submitted as soon as possible after the close of the Party. It is also suggested that DX stations send their logs via Air Mail to assure timely receipt. Logs are to be mailed to the announced scoring individual(s) and/or chapters. Scorer's names and addresses for each QSO Party and 10-10 Day Sprint are published in the 10-10 NEWS and on the 10-10's web site.

### 6.2.12 10-10's Worldwide Web Site

Current information about 10-10 and upcoming 10-10 QSO Parties is always available on the 10-10 web site. In addition to the latest QSO Party dates and general information, there is a copy of a Cover Sheet and a sample Dupe Sheet that may be used for submittal of your QSO or 10-10 Day Sprint Party logs. The address is: <http://www.ten-ten.org>.

### 6.2.13 Additional Information and Clarification

Any additional information or clarifications that you may need regarding the rules or other information about 10-10 QSO Parties or the 10-10 Day Sprint may be requested through 10-10's Contest Manager.

## 2003 CONTEST DATES

	CONTEST	POSTMARK
Spring CW.....	May 3-4.....	May 19
Summer Phone.....	Aug 2-3 .....	Aug 18
Sprint .....	Oct 10 .....	Oct 27
Fall CW .....	Oct 25-26.....	Nov 10

send logs for the above contests to:  
**STEVE RASMUSSEN - NØWY**  
**312 N 6TH STREET**  
**PLATTSMOUTH, NE 68048-1302**

## CONTEST RESULTS

WINTER  
PHONE

FEB 1-2, 2003

## TOP TEN

CALL	10-10	CNTCTS	Pts
N5XZ	04530	689/286	1664
AH6RF	08121	498/132	1128
KC6SEH	59098	438/131	1007
K5FBS	48461	451/083	985
N7YX	72528	422/084	928
N2EOC	37549	385/105	875
WA5JDU	03017	375/091	841
WG7Y	40647	293/086	672
W6YLJ	19636	292/084	668
EI9HQ	71019	284/078	646

## US CALL AREA W0

CALL	10-10	CNTCTS	Pts
KC0CMZ	70882	246/116	608
AB0MV	69692	118/019	255
W0RTV	13962	122/008	252
AE0Q	72165	116/019	251
N0WY	68684	074/012	160
N0WM	02724	063/001	127
K0RH	69471	052/007	111
KB0TFT	68306	041/003	85
WB0GGO	03735	041/002	84
WA5SWN	72300	033/003	69
K0WEX	08092	034/000	68
N0CUN	33031	033/002	68
KB0WKN	71218	019/000	38
W0FNS	36848	018/002	38
K0LZJ	73538	018/000	36
WB0QKN	16069	018/000	36
KB0MZE	66832	014/001	29
AB0OX	72879	013/000	26
KC0LUX	73218	008/002	18
KA0EIC	47285	009/000	18

## US CALL AREA W1

CALL	10-10	CNTCTS	Pts
N1API	25468	131/021	283
WB1ARU	17875	101/022	224
WA1HVJ	70157	085/010	180
N1PVT	67112	078/009	165
KB1IDK	73599	061/008	130
W1DG	15300	056/009	121
W1SIX	35346	045/001	91
N1STE	65471	041/004	86
KB1CIW	70631	042/001	85
K1SVP	07588	039/003	81
KB1ALX	62468	036/001	73
AA1LH	51295	031/001	63
WA1ENO	17874	026/008	60

W1DMM	52478	025/001	51
K1TDO	72725	020/000	40
WA1AKS	08969	016/002	34
K1UR	12611	013/001	27

## US CALL AREA W2

CALL	10-10	CNTCTS	Pts
N2EOC	37549	385/105	875
W2BOC	71096	168/038	374
WA2SUH	00407	096/008	200
N2MH	73684	056/010	122
K2CVG	72665	055/009	119
W2VTV	71275	048/004	100
WB2OQQ	71294	046/004	96
N2LQQ	61745	028/003	59
WA2NTK	70193	027/004	58
W2KRK	29308	017/000	34
N2LEC	58183	015/001	31

## US CALL AREA W3

CALL	10-10	CNTCTS	Pts
N3TGB	68129	119/012	250
KA3VDN	56869	051/003	105
W3PWG	01538	049/004	102
W3EHZ	39561	044/002	90
WA3ELQ	07882	040/009	89
N3XTB	69868	042/004	88
WB3BMA	14393	040/002	82
KA3NMB	53417	034/002	70
K3VY	24530	030/000	60
KC3T	68155	027/003	57
WB3LKO	28777	024/004	52
N3JPV	64501	022/002	46
WB3AXP	14464	021/000	42
NA3H	30502	013/007	33

## US CALL AREA W4

CALL	10-10	CNTCTS	Pts
KQ4PK	63201	223/045	491
WA4EEZ	15675	173/032	378
KA4RVZ	53657	113/028	254
KC7OC	67668	116/006	238
N4ANV	18712	115/008	238
WD4GEO	71574	094/006	194
KU4W	20986	091/003	185
KC4MAI	56017	087/006	180
KF4MK	67676	077/004	158
KZ3T	41015	077/002	156
AG4TO	73034	059/017	135
W4SKW	68872	059/011	129
N2EGO	37582	057/005	119
AF4YA	73138	058/003	119
K4HAV	17605	059/001	119
N4EWG	29730	049/001	99
N4ZCG	56067	044/010	98
KL7NL	62595	044/008	96
N4UGH	49556	047/001	95
WB4AWM	69661	042/010	94
N4JED	49049	042/003	87
KC4JAN	56060	041/004	86

KF4LVF	72214	040/004	84
KC4TBS	57419	041/000	82
KN4SS	56071	040/000	80
K4RKN	72771	038/003	79
WA4HT	72053	030/007	67
KC4RIY	58203	031/001	63
K3ISS	00336	030/002	62
N4ERM	34524	031/000	62
K14SP	73590	028/005	61
AA4PR	39481	029/002	60
AE2L	14076	030/000	60
W4TBO	66153	029/000	58
WB5WAJ	26676	028/001	57
KG4JOO	68235	026/003	55
WD4HYC	21759	025/001	51
K4RL	01568	025/000	50
N4EED	31200	025/000	50
K4YFH	26701	023/003	49
WA4OSD	73477	022/002	46
WB7OND	13390	022/000	44
W4DUK	59737	022/000	44
KT4OO	66104	019/000	38
NC4GT	72273	019/000	38
KJ4RV	37776	017/001	35
KB4BBC	43283	013/000	26
AD4TL	64799	011/000	22

## US CALL AREA W5

CALL	10-10	CNTCTS	Pts
N5XZ	04530	689/286	1664
K5FBS	48461	451/083	985
WA5JDU	03017	375/091	841
WJ5O	37215	288/048	624
N5DAS	35877	275/039	589
W5NDK	24910	247/059	553
K5BKT	64386	242/031	515
N5MT	24949	225/042	492
AK5Y	40839	203/033	439
WA5LOC	70831	203/028	434
KM5IH	67652	195/033	423
N5WYR	62116	179/023	381
N5WAZ	49341	171/031	373
W5GVP	11572	160/030	350
NK5W	64094	139/025	303
KA9SOX	39886	129/030	288
K5CC	50708	140/005	285
N5SCA	57160	127/008	262
KC5HAV	66292	107/012	226
N5UMH	60027	098/026	222
W5UFA	23660	093/015	201
WA5SOG	15645	093/012	198
WA5BBR	31022	095/008	198
W5EIJ	11732	095/006	196
WA5OO	68051	078/008	164
KA5VVD	42188	076/011	163
W5LL	73696	069/009	147
K5HWI	63313	069/006	144
KD5LNO	72582	064/003	131
KD5ZD	37258	052/002	106
WX5I	67839	049/001	99

W5QVS	57608	044/009	97
N5RXS	72183	046/003	95
KD5HIP	71476	037/003	77
K0OOK	73695	036/005	77
N5OHL	54043	036/004	76
WA2ZOU	72643	034/005	73
W5RBF	73713	034/003	71
N5YTT	69892	030/003	63
N2JAS	67647	027/002	56
KD5OMJ	73081	019/002	40
K5WAE	06658	014/000	28
W5BXX	67596	013/000	26
WD5EDR	23693	010/002	22
WD5C	21786	008/000	16
KM5FF	50356	007/001	15
AB5NS	59697	002/000	4

## US CALL AREA W6

CALL	10-10	CNTCTS	Pts
KC6SEH	59098	438/131	1007
W6AFA	68734	266/055	587
WA6CDO	72240	204/032	440
KC6QXU	59560	195/038	428
WA6PZK	17309	192/029	413
W6LFO	46336	140/022	302
K6VMN	31623	135/012	282
NC6V	25057	094/003	191
W6VY	32620	088/006	182
K6EON	08838	081/005	167
AC6PX	65823	078/006	162
KJ6DB	71092	068/005	141
KA6GPC	43555	068/003	139
AD6MF	67300	069/001	139
WB6OJB	70675	059/006	124
KI6OY	50948	051/004	106
KJ6IJ	08940	046/001	93
WB8ENO	73506	044/004	92
N4DLA	22509	040/000	80
KD6PQF	69499	039/001	79
K6ZCL	60995	038/001	77
K6BIR	68857	034/001	69
W6SJ	73541	031/001	63
W6JNU	40127	023/001	47
W9KUP	67468	020/002	42
K6PCM	73365	016/002	34
K6ASK	50969	012/001	25
KG6BOV	69136	010/000	20

## US CALL AREA W7

CALL	10-10	CNTCTS	Pts
N7YX	72528	422/084	928
WG7Y	40647	293/086	672
W6YLJ	19636	292/084	668
N7PJP	47685	204/027	435
AC6FU	10937	178/025	381
K7WV	70018	127/011	265
AC7GP	68357	115/015	245
WA7HYD	72769	111/010	232
N7VLM	66308	098/013	209
WS7R	34316	100/007	207

## CONTEST RESULTS

N7QHC 59244 091/014 196	W9CEO 30439 041/000 82	DJ2YE 68904 050/012 112	<b>CHAPTER SCORES</b>
N7HDB 39650 083/008 174	N9BTF 31179 036/002 74	DL9NWE 71810 048/011 107	
AC7HI 69139 076/008 160	K9JPQ 02094 035/000 70	DJ6QO 30998 017/000 34	<b>CHAPTER</b> <b>LOGS</b> <b>PTS</b>
K7QLC 20317 076/006 158	W9SFH 41267 030/007 67	DJ6DO 21486 012/001 25	S.H.O.T. 6 2562
W7EY 66824 068/007 143	WG9F 34055 032/003 67		PossumTrot 21 2208
KB7RR 36716 067/003 137	WA8KAZ 72339 031/002 64	<b>HAWAII</b>	OutlawsOn10 3 1715
WA6GSV 07673 060/004 124	K9JS 22358 024/001 49	<b>CALL 10-10 CNTCTS PTS</b>	C.A.T.T. 11 1598
KB6VME 71843 049/004 102	KA9Z 64025 013/000 26	AH6RF 08121 498/132 1128	Bauxite 6 1404
N7VS 60964 046/007 99	AB9CD 72936 001/000 2	KH6DRT 33751 018/000 36	Lonestar 4 1390
KD7PQP 73545 041/002 84			CityOfLights 7 1358
KD7AGL 71762 022/000 44	<b>ARGENTINA</b>	<b>IRELAND</b>	GoldenBear 2 1174
WB7VSZ 32764 021/000 42	<b>CALL 10-10 CNTCTS PTS</b>	<b>CALL 10-10 CNTCTS PTS</b>	Trotters&Pacers 2 1075
W7KTE 10427 012/000 24	LU1BJW 39329 124/034 282	EI9HQ 71019 284/078 646	OceansOfTheWorld 4 886
N7MYM 53122 010/000 20	LU5HE 10334 062/018 142		Chief Seattle 6 698
KD7MJR 73497 009/000 18	<b>BELARUS</b>	<b>ISRAEL</b>	CastleCraig 6 681
K7RQN 73472 003/000 6	<b>CALL 10-10 CNTCTS PTS</b>	<b>CALL 10-10 CNTCTS PTS</b>	BattleRoad 6 658
	EW6OO 72108 008/014 30	4X6KJ 73116 018/015 51	Gateway 5 599
<b>US CALL AREA W8</b>		<b>NEW ZEALAND</b>	ChannellIslands 5 577
<b>CALL 10-10 CNTCTS PTS</b>	<b>BELGIUM</b>	<b>CALL 10-10 CNTCTS PTS</b>	Neanderthal 4 564
K8YG 69312 166/022 354	<b>CALL 10-10 CNTCTS PTS</b>	ZL1AFU 37851 094/004 192	Minutemen 5 520
W8JSM 00934 160/014 334	ON4CN 42094 023/060 106	ZL1KQ 23471 065/003 133	BrandingIron 3 488
W8XC 03745 130/006 266	ON4LCX 71701 017/003 37		CityOfRoses 1 435
W8PJY 14574 117/007 241	ON4KVA 70106 012/006 30	<b>NORTHERN IRELAND</b>	LilacCity 2 405
N0TW 36547 110/004 224	ON4LDK 69213 009/001 19	<b>CALL 10-10 CNTCTS PTS</b>	DownUnder 2 325
K8DEL 02978 103/009 215		G14SIZ 61539 131/019 281	SteelCity 2 307
WD8MQJ 30405 090/017 197	<b>BOLIVIA</b>	<b>PORTUGAL</b>	Tango 1 282
W8HL 56609 067/003 137	<b>CALL 10-10 CNTCTS PTS</b>	<b>CALL 10-10 CNTCTS PTS</b>	ChesapeakeBay 1 250
W8KVU 57778 066/002 134	CP1FF 28699 014/001 29	CT1AHU 23437 258/078 594	Windfarms 2 245
N8BUS 72732 065/001 131			RestorationPrjct 2 224
W8LBQ 08886 062/006 130	<b>BRAZIL</b>	<b>UKRAINE</b>	SanteFeTrail 2 218
K8CI 46100 057/002 116	<b>CALL 10-10 CNTCTS PTS</b>	<b>CALL 10-10 CNTCTS PTS</b>	MichiganRobins 2 195
W8GS 11331 044/006 94	PY2DBU 08264 043/004 90	UR3IIL 71321 015/020 50	Cypress 1 194
N8KQ 72201 047/000 94			Borinage 4 192
KB8UUZ 67605 042/002 86	<b>CANADA</b>	<b>US VIRGIN ISLANDS</b>	Keystone 1 182
KI0DE 69730 039/001 79	<b>CALL 10-10 CNTCTS PTS</b>	<b>CALL 10-10 CNTCTS PTS</b>	Mo-Kan 4 172
K8TNT 30448 033/004 70	VA7TEN 24752 202/042 446	NP2DJ 70090 140/018 298	Whitehouse 2 139
N8NX 40355 027/004 58	VE6MRT 20108 166/020 352		NewWaterkant 1 116
N8XTM 70087 024/001 49	VE5BCS 42027 094/010 198	<b>QRP</b>	AirCapital 1 111
AB8ND 73382 023/000 46	VE2FSU 27229 089/010 188	<b>CALL 10-10 CNTCTS PTS</b>	CrazyEights 2 103
WC8E 27415 021/002 44	VE4ALN 69217 068/009 145	N8DEU 34064 188/043 419	Milwaukee 1 94
W8KNO 71899 018/000 36	VE7ACM 30939 056/000 112	KB0ON 29849 108/000 216	BayArea 1 69
N8ZZW 65939 013/000 26	VE7AAP 50407 056/000 112	KL7FDQ 27827 042/002 86	FtMcHenry 1 60
	VE5KM 42005 052/002 106	AD5IF 73372 038/004 80	ALII 1 36
<b>US CALL AREA W9</b>	VE7HBS 72711 050/002 102	JH7RTQ 69817 035/001 71	
<b>CALL 10-10 CNTCTS PTS</b>	<b>CROATIA</b>	N0ZNA 66810 026/002 54	<b>CHECK LOGS RECEIVED</b>
NA9A 31121 216/034 466	<b>CALL 10-10 CNTCTS PTS</b>	KD1XU 70568 009/001 19	<b>CALL 10-10 CNTCTS PTS</b>
KE9S 67504 192/027 411	9A2GA 71811 012/006 30		CQ0BWW 64689 218/061 497
KC9UM 31175 172/021 365		<b>CLUB</b>	KF4TES 00000 045/002 092
KA9EKG 70731 131/019 281	<b>ENGLAND</b>	<b>CALL 10-10 CNTCTS PTS</b>	VA3XCD 00000 019/000 038
AA9TN 73712 102/013 217	<b>CALL 10-10 CNTCTS PTS</b>	K6MQ 71487 439/103 981	
KE9WZ 49610 083/005 171	G3XPO 70614 047/007 101	(N6OPR, W3SE)	
WA9LJK 70789 076/010 162	M0MRW 73102 022/005 49	N1NW 65465 138/043 319	
K9EHP 02847 074/002 150		(W1AMF, KE1IU, N1URA, KB1FKL, N1PTB)	
WD9AQL 60273 072/004 148	<b>GERMANY</b>	W1NRG 29650 046/000 92	
K9OB 69071 064/008 136	<b>CALL 10-10 CNTCTS PTS</b>	(K1TDO, KB1CIW)	
K9BIF 72961 064/006 134	DK3KD 58990 167/059 393	WD0SFT 37933 001/000 2	
N9ASC 28018 056/003 115	DL2IAN 72712 052/024 128	(KB0ON)	
KA9FCF 33198 053/002 108	DL3NM 69205 057/002 116		
WB9OMC 55959 048/007 103			
W9WCF 57348 043/008 94			

## ERRATA

In the results for the 10-10 Sprint held October 10, 2002 it was noted that KA6GCP was an entry in US Call Area W6. The correct callsign is KA6GPC. Please accept my apology.



# 10-10 INTERNATIONAL NEWS

## MEMBERSHIP INFORMATION AND SERVICES

### WOULD YOU LIKE TO JOIN 10-10?

*Here is what you need:*

1. You must hold a valid amateur operator license.
2. Your valid amateur operator license **MUST** authorize or qualify you for unsupervised transmitting operations in the ten meter amateur band under your own personal call sign.
3. You must make contact with ten members of 10-10 and submit a log listing all contacts, their 10-10 number, call sign, name, date of contact, and QTH (state/province/country). A new member application and contact log is available in Section 1 on page 31 of this publication.
4. You must remit dues for one or more years full membership. Fee schedule and payment information can be found in Section 2 on page 31 of this publication.

### TYPES OF MEMBERSHIPS

*Please see fee schedule in Section 2 on Page 31*

#### **Primary Membership**

Primary membership is available with yearly dues, although there is a special incentive available when you pay for three years at once.

#### **Family Membership**

Family membership consists of a primary member and one or more family members who qualify as a 10-10 member (has made the necessary 10 contacts) and who reside at the same location and postal address. Family memberships run concurrently with that of the primary member. Add \$5 for each additional family member for each year. Only the primary member will receive a copy of the 10-10 News.

#### **Life Membership**

Life membership is available and may be paid in one lump sum or spread across two or three years. If you wish information on the extended payment plan, please contact the 10-10 Data Manager.

#### **Senior Life Membership**

Senior life membership is available to anyone who is currently 65 years of age or older. Extended payment plan is not offered with senior life membership.

**Family Life Membership** is no longer available

### Membership Renewals

Fill out fee schedule and method of payment in Section 2 on Page 31 and forward as indicated to Data Manager or DX Area Manager. Please make sure you include a copy of your address label with form. If you do not have a copy of your address label (renewing after your membership has lapsed), please include a note with your name, current mailing address, call sign and 10-10 number.

### DATA MANAGER SERVICES

#### **Call/Name/Address Changes**

All changes are to be sent to the 10-10 Data Manager. Please include your address label (or a copy) with necessary corrections.

#### **10-10 Stamps**

Self-adhesive 10-10 stamps that can be used on QSL cards, correspondence and envelopes are available for \$5 per 144 stamps.

#### **10-10 Information Brochure**

The 10-10 Information Brochure is 8 pages of everything you would want to know about 10-10. Available for \$2 postpaid along with a return address label.

#### **10-10 Roster = Hard Copy - DISCONTINUED**

The Roster is no longer available in printed form

#### **XXIQ**

XXIQ is a simple roster. It will search for a call if the 10-10 number is known or for a 10-10 number if the call is known. It is updated monthly and is available FREE at the 10-10 Web Site.

#### **XXIP**

XXIP is the expanded version of XXIQ, offering 10-10 number, call, name, address, city, state/country, membership status, expiration date, and SK status. XXIP will print a simple address label. XXIP is updated **monthly** and is available on a CD-ROM or by download from the LinGer web site. Order from the Data Manager: CD-ROM for \$10 US Zip Codes or \$13 DX postpaid. For download version e-mail the Data Manager <wa6poz@arrl.net> or go to <www.lingerinc.com> for instructions.

**Data Manager, 10-10 International Net, Inc.**

**PMB142**

**643 N. 98th Street**

**Omaha, NE 68114-2342**

### Awards and Certificate Guide

This item has been discontinued from production.

### Scholarship Donations

Donations to the 10-10 Scholarship Foundation are requested from each member on an annual basis to help fund the five \$1000 10-10 scholarships. Your check should be made payable to the 10-10 Scholarship Foundation and sent to:

**Larry Berger, WA2SUH #00407**

**10-10 Scholarship Manager**

**9 Nancy Blvd.**

**Merrick, NY 11566-3119**

*Catch us on the WEB*  
**http://www.ten-ten.org**

# 10-10 INTERNATIONAL NEWS

## SECTION 1 - MEMBERSHIP APPLICATION AND CONTACT LOG

NOTE: If this membership application is being used for renewal purposes, please enter your 10-10 number here \_\_\_\_\_

Please print your Name \_\_\_\_\_ Call \_\_\_\_\_

Address \_\_\_\_\_ Year of Birth \_\_\_\_\_

City \_\_\_\_\_ State or Country \_\_\_\_\_

Postal/Zip Code \_\_\_\_\_ E-mail Address \_\_\_\_\_

NOTE: 10-10 NUMBER, CALL, NAME, ADDRESS, MEMBERSHIP STATUS AND E-MAIL ADDRESS IS MADE AVAILABLE TO ALL MEMBERS VIA A MEMBERSHIP ROSTER. ALL OTHER INFORMATION IS KEPT CONFIDENTIAL AND NOT DISCLOSED EXCEPT BY THE ORDER OF A LAWFUL COURT.

I certify that I meet the membership requirements\* of 10-10 \_\_\_\_\_

\* as listed on Page 30 of this publication

YOUR SIGNATURE

	10-10 NUMBER	CALL SIGN	OPERATOR'S NAME	DATE OF CONTACT	QTH (State, Province or DX Country)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

## SECTION 2 - FEE SCHEDULE AND PAYMENT INFORMATION

10-10 FEE SCHEDULE (eff 2/1/03)	US Zip Codes	DX
New Members	<input type="checkbox"/> \$ 15	<input type="checkbox"/> \$ 18
Renewals (yearly)	<input type="checkbox"/> \$ 15	<input type="checkbox"/> \$ 18
Renewals - 3 year incentive	<input type="checkbox"/> \$ 40	<input type="checkbox"/> \$ 49
Family Membership (yearly)	<input type="checkbox"/> \$ 5	<input type="checkbox"/> \$ 5
Life Membership	<input type="checkbox"/> \$ 500	<input type="checkbox"/> \$ 650
Senior Life	<input type="checkbox"/> \$ 150	<input type="checkbox"/> \$ 200
Scholarship Foundation Donation	<input type="checkbox"/> \$ ____	<input type="checkbox"/> \$ ____
Enter Total		

US Postal Codes and LIFE Memberships mail to  
Data Manager, Ten-Ten International Net, Inc.  
PMB142  
643 N. 98th Street  
Omaha, NE 68114-2342 USA  
for information email: wa6poz@arrl.net

DX Applicants mail to:  
Carol Hugentober, WA8YL #29588  
DX Area Manager  
4441 Andreas Avenue  
Cincinnati, OH 45211-2622 USA  
for information email: wa8yl@juno.com

### METHOD OF PAYMENT

☐ CHECK Make all checks payable to 10-10 International Net, Inc. Please list your call and 10-10# on your check.

Do not send cash. All DX are reminded that money amounts are quoted in US Dollars.

DX Members please pay by International Postal Money Orders (IRC's are acceptable).

☐ MASTERCARD Account Number (Please include all the numbers on your credit card) Please note that our credit card agent is RSVP of Omaha NE

☐ VISA

Good Through:   /

Name of Cardholder \_\_\_\_\_ PHONE (required): \_\_\_\_\_

SIGNATURE of Cardholder \_\_\_\_\_ Date: \_\_\_\_\_

For charges this form may be faxed to 10-10 International Net, Inc. at 402-891-2481

# 10-10 QSO PARTY COVER SHEET

## EVENT BOX

*Please Check Event Box*

WINTER PHONE.....☐

SPRING CW.....☐

SUMMER PHONE.....☐

FALL CW.....☐

10-10 SPRINT.....☐

## SCORING BOX

CONTACT TYPE	NO. OF CONTACTS	MULTIPLY BY	POINTS
WITH 10-10 Number		x 2	
WITHOUT 10-10 Number		x 1	
TOTAL CONTACTS		TOTAL POINTS	

## ENTRY BOX

*Please Check Entry Type*

INDIVIDUAL.....☐

CLUB.....☐

QRP.....☐

Chapter Assignment (if any)

(not valid for 10-10 Day Sprint)

US Call Area (W0-W9) or ARRL DX  
Country you operated from:

## CHECK LIST

*You must have the following items enclosed in your  
QSO Party envelope to be an acceptable log submittal.*

☐ **Proof of current Membership** - Either a photocopy of your membership card or copy of the address label from the latest issue of the 10-10 News. Club Entries must also include proof of membership for all operators.

☐ **Log in UTC Date/Time**

☐ **Dupe Sheet(s)** *if your log contains more than 50 contacts*

☐ **Cover Sheet** - Pertinent information in the Event and Entry boxes must be entered, and all blanks in the Scoring Box must be filled.

**For rules, event dates and mailing information see  
QSO Party Contest Rules and Calendar on page 27**

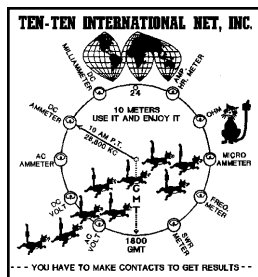
10-10 International Net, Inc.  
PMB 142  
643 N. 98th Street  
Omaha, NE 68114-2342

*Address Services Requested*

TIME TO RENEW? EXPIRATION DATE  
IS ON MAILING LABEL BELOW

**FIRST CLASS**

PRE-SORTED  
FIRST-CLASS MAIL  
U.S. POSTAGE  
PAID  
OMAHA, NE  
PERMIT 1799



APRIL 2003  
(SPRING)