

10-10 INTERNATIONAL

News

Volume 36 Issue 1

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JANUARY 1998 (WINTER)

Meet our Candidates

First things first..we want to thank N6TXT and his Nominating Committee for the superb job they have done in coming up with the slate of candidates for the next election. They have come up with some very talented people who will be an asset to our organization when elected. It is indeed unfortunate that all these candidates cannot be elected.

Tom Henderson

Tom, K4CIH # 33233, is a candidate for President. He is an incumbent. He was born in Kane, PA, and later moved to Woodbury, NJ, where he graduated from high school. Tom enlisted in the US Navy in 1953 and in the Air Force in 1957, where he was schooled in electronics, and became a licensed General class amateur while there. He left the Air Force to attend Spring Garden Institute of Technology to pursue a degree in Electronic Technology. After working at various electrical and electronic positions, Tom became an aide at the Montgomery Fire Department. Through this he became interested in nursing, and entered nursing school in 1970 on a scholarship from a local hospital. Upon becoming a registered Nurse, he worked in the critical care and trauma fields. He was promoted to and worked as Hospital Nursing Supervisor. In 1980 Tom accepted a commission in the US army, retiring as a Major in 1996.

In amateur radio, Tom has been instrumental in the formation of the Druid City Chapter and the Broken Hearts Chapter of Ten Ten. He has served as President, Director, 4th Area Call Manager, Member of the Communications Committee, Temporary 1000+ Bar Manager, Temporary DX Countries Manager, and President of Ten Ten. He also produces the award

certificates for the QSO Party winners. Tom states, "It has been and will remain my goal to provide the best services we can to the membership; to continue as a family and social organization; to share our combined resources toward the education of young people to assist, teach, and propagate the ideals of Amateur Radio."

Linda Barnes

Linda, KJ4FM, # 43299, is a candidate for President. She was born and reared in Tennessee. She graduated from Dobyns-Bennett High School and pursued her college education at East Tennessee State University. She holds a Bachelor of Science, Master of Education and an Associate's Degree in Accounting.

Linda is the wife of Bill Barnes, and the mother of four children, three of which are living. In addition she has two beautiful granddaughters KellieAnne and Keely, two lovable dogs Bruno and Rusty, and two sweet cats Pooky and Cuddles and five aquariums ranging in size from 75 gallons to 20 gallons. Life is interesting around the Barnes household.

Linda became interested in amateur radio in the late 70's. She was licensed as a novice in 1977 and today holds an extra class license which she received in 1990. She has always loved 10 meters and became active in Ten Ten shortly after being granted a general class license. She has served Ten Ten in many capacities. She has served as Director since the inception of the Board of Directors, Chairman of the Communications Committee, Chairman of the Membership Committee, Editor of the Official Ten Ten Guide and monthly updates, and currently is serving as Editor of the Ten Ten News.

Linda feels that her experience and work done as a Director have given her great insight into the workings of Ten Ten. If elected as President, she will continue to work toward the betterment of Ten Ten, giving our membership

(continued on page 4)

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AWARD MANAGERS..... Listed on page 30

10-10 INTERNATIONAL News

MEMBERSHIP INFORMATION..... Listed on page 31

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DEADLINE FOR NEXT ISSUE
MARCH 1, 1998

Each paid-up member receives 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.

10-10 Chapter activities and reports should be sent to the



Member
AMATEUR RADIO
NEWS SERVICE

10-10 NET CONTROL STATIONS ALL NETS BEGIN AT 1800Z

Monday (28.380)..... Dick, K6PZE #1341
 Monday (28.800)..... Harold "Scotty" Scott, WA6TQC #71
 Tuesday (28.380)..... Russ, N5EJS #1525
 Tuesday (28.800)..... Don, KB6QLC #42822
 Wednesday (28.380)..... Christine, N7PVL #58018
 Wednesday (28.800)..... Louise, N6ELK #36654
 Thursday (28.380)..... Bill, AA6ZW #62075
 Thursday (28.800)..... Bill, WB6OMH #6608
 Friday (28.380)..... Jimmy, AE4NA #66957
 Friday (28.800)..... Sherm, K6RTF #17977
 Saturday (28.380)..... Ed, KC4RIY #58203
 Saturday (28.800)..... Al, W6RNX #92
 Sunday..... **"NEVER ON SUNDAY"**

President's Message

*Tom Henderson
K4CIH #33233*

Happy New Year! I hope your holidays were filled with family and good tidings, and may the band continue the upswing and propagation prevail. Well folks, we are on our way with a New Year, and the first thing I wish to do is thank all of you for your support of 10-10. We have prevailed through a terrible bottom of the cycle and can now look forward to happier times.

I wish to personally thank all you members who have made donations to the scholarship fund, and personally thank Morrie Goldman, W6EHM # 4189, for the fine job he has done as Scholarship Manager. Morrie also serves as our Historian. Those of you who are new members and may not know, we fund four \$1000 scholarships. The scholarships are managed by The Foundation for Amateur Radio (FAR), and they have done an excellent job for us as well as many other organizations. Please keep in mind that we as an organization are helping four individuals attain their educational goal. I can't think of anything more rewarding for our promising young people.

By now some of you may have heard of changes to take place concerning our QSO Party (contest) rules. First, let me explain what the philosophy of the QSO Party might very well be. The following has been brought to my attention, "The point of the 10-10 QSO Party is the QSO's with the other 10-10 members, not the accumulation of artificially high scores. Big numbers do not mean anything compared to the pleasure of contacting other 10-10 members and others that might one day become members. Traditionally, QSO's are worth more than all other considerations." I thank the member for pointing this out to me. Let me assure you that there have been no drastic changes. The only change has been to drop the prefix multipliers. What we will do instead is to have multipliers, or better yet, extra points for DX contacts.

This is how the scoring will be done: for each contact with a 10-10 number in **your country**, 2 points; with each contact anywhere **without** a 10-10 number, 1 point; for **each** DX contact with a 10-10 number, 3 points. It will be that simple. The cover sheet on the WEB and the back cover of the 10-10 News will reflect the necessary scoring changes. There will also be additional awards certificates presented, see the awards section of the QSO Party information.

All other rules pertaining to the QSO Party will be basically the same. The QSO Party rules are published in this issue of the News, and additional copies may be obtained from KF7ZQ, Information Manager; W0RTV, QSO Party Chairman; or N5VAV, Assistant Information Manager. Their addresses are in the News. Make sure you send a SASE (self-addressed stamped envelope) with enough postage to cover 4 sheets of information. Due to the changes the only difference between the Sprint and regular QSO Party rules will be the amount of time. The Sprint will still be just one 24 hour time period.

For your information, all this has been done due to a number of complaints about the use of multipliers and other problems. A poll was taken via the 10-10 WEB, and the majority wanted to do away with the multipliers as used. A number of suggestions were made to use only DX as multipliers.

Moving on to other important items, this is the year of election of Officers and 5 Board of Director members. The "bio's" are in this issue of the News. I want to thank those who have volunteered to take on the task if elected. Look

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Presidents Message

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over and make your selection for the person you feel best qualified for the job. Ballots will be mailed in June to all that are current "paid up dues" members at that time. Please vote. This is your opportunity to have a voice about who runs your organization.

Let me close with thanks to our volunteer workers. We couldn't do without you, and I know the hours are long, and the pay is short, but you are very important to us all.

Candidate Bios

(continued from page 1)

to their questions, providing the best member benefits possible, and ensuring that 10-10 will continue to be an international, multifaceted organization that will be a credit to society and amateur radio in the coming years.

Chuck Imsande

Chuck, W6YLJ # 19636, is a candidate for Vice President. He is currently serving as Vice President and Chairman of the Business and Finance Committee. He also holds the position of Public Relations (PR) Manager. In this position he has developed the 10-10 Forum slide program that can be used by others at ham conventions, radio club meetings, etc.

He was first licensed in 1946 and at present holds an Advanced Class license. He became a member of 10-10 in 1978. Chuck has served 10-10 in many different capacities. He has served as a Director, PR Manager, and Editor of the *News* for five years (1992-1997). He developed the following awards: Continents award, Counties award, State Capital award, and the Prefix award. He formalized and made the OM/XYL Certificate an official 10-10 award. In addition he has been instrumental in establishing many of the current 10-10 policies and procedures.

Chuck says, "It would be my privilege to continue as the 10-10 Vice President. I will continue to work for improvements in 10-10 including, among other things, the activation of additional membership services. It is my desire to see 10-10 into the 21st century by adopting up-to-date and modern technology.

Mel Sojka

Mel, KD5DE # 33513, is a candidate for Vice president. He has been married for 31 years and has 4 children and 5 grandchildren. He has a combined military (active and reserve) of 32 years. He has been involved with electronics in one form or another for the past 31 years. He has been the owner of Data Research and Consultation for the past

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from the

Editors Desk

Linda Barnes

KJ4FM #43299

Happy New Year to each and every one of you. This holiday season is one that I will never forget. I got a new granddaughter, Keely Bridge McDonald. She was born on 10 December at 4:00 AM. She is beautiful, and yes I do have loads of pictures. In addition, Bill and I had a wreck on the ice in rural Alabama and totaled our car. Seatbelts and air bags saved us from serious injuries. My neck is still stiff, and my thumb is sore, but that is a small price to pay for life. I had joked about getting a new car, but I never envisioned getting one in this particular way. I got a 1998 dark metallic green Honda Accord LX. Now I have to get new antenna. The mobile rigs survived, the antennas went down the tubes with the car.

You will notice in this issue that the small thumbnail photos of the columnists are missing. They were sent to me via USPS, but I did not receive them. Therefore, I simply centered the titles. I hope this is not a problem for any of you.

I had asked for volunteers to assume the editor's position in the last issue. Since my husband has retired, we feel that between the two of us we can get the job done. I do sincerely thank those of you who responded to my call for help. I have your names and will keep them for future reference.

I must say that issue has gone much smoother than the last. At least I feel more comfortable with MS Publisher. Any one who wishes to contribute to the *News*, I welcome your input. Please be advised that I can not always use everything I get, due to available space, etc. However, I will try to use as much as possible.

Until next issue, 73

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Candidate Bios

(Continued from page # 4)

for the past 10 years and co-owner of NWLA.COM for the past 4 years. He has worked in robotics, industrial automation and networking. He also worked as a commercial radio tech for a short period of time. He currently serves as a Certified Data Professional, network consultant, Linux administrator, and as an Internet Service Provider.

Mel says, "As the founder of the Ten-Ten Convention and one of the co-authors of the Ten-Ten democratic policies, I am convinced that as an organization we need to make every effort to activate our membership. Since I became a member in 1981, and a life member in 1987, I have seen tremendous change within the net and amateur radio itself. The challenges that face the amateur radio community after the year 2000 will be quite different than of past experience. As one of the largest amateur groups Ten-Ten must become aggressive in the use of the total ten meter band and not just the Novice enhancement portion. I feel that it would not be in our best interest if the ten meter band was reduced to the first 500 kHz."

Dave Prichard

Dave, KA5OVO # 37297, is running for the position of Secretary. He is at present serving as secretary and has served in that position for the past 3 years. Dave is a life member and has served ten of the last thirteen years as a volunteer in different capacities. He has served as a Director, Supply Manager, Chapter Coordinator, and Editor/Publisher of the 10-10 Awards Guide and Monthly Updates. Dave also serves as the CH/CM of the Doll Chasers Chapter. Dave brings much experience as Secretary, having served not only Ten-Ten in that capacity but the Jaycees and Lions Club.

Ed Redwine

Ed, K5ERJ # 11843, is a candidate for Director. He is serving presently as Director and Chairman of the Operations Committee. Ed writes, "Ten-Ten has come a long way in the past six or seven years. We now have an excellent board that works as a cohesive unit. I would like to see the good work continue and to remain a part of it."

"As chairman of the Operations Committee over the past three years, we have seen new additions to our Awards program, and a new contest added. Somehow, we have managed to keep good people working in the volunteer positions on your behalf."

"All this just doesn't happen. It takes time, effort and dedication to one of the finest groups of amateurs in the entire amateur radio spectrum. I sincerely appreciate the trust, support and loyalty shown by all those I have dealt with during my tenure as your Director. With your help (and vote) I can continue to serve you and Ten-Ten into the next millennium."

(continued on page 15)

W6OI #109 on the Air

Louise Chapman, N6ELK # 36654, has volunteered to be the 10-10 Net Control Operator for W6OI # 109. This will make each Wednesday at 1800Z on 28.800 MHz a very special event. Please include a SASE when requesting a W6OI QSL card via N6ELK, 3210 Clark Ave., Long Beach, CA 90808.

The 10-10 Club Station, W6OI # 109, is available to any current (dues paid) member or chapter for use as a special event station, Field Day Station, etc. Send a written application, including dates of operation, purpose of operation and other other information to: Morrie Goldman, W6EHM # 4189, W6OI License Trustee, 21518 Marjorie Avenue, Torrance, CA 90503-6418. Enclose a photocopy of your amateur license.

T.A.R.A. Hamfest & Computer Show at

**Veteran's Memorial Field House
2590 5th Avenue
Huntington, West Virginia**

**Saturday, 8 August 1998
8:30 AM - 2:00 PM**

**Contact Person: Georgia Overby, KA8QME
(304) 522-1811 or Bernie Mays
(304) 743-5459
or
e-mail: wb8zer@juno.com
acoleman@access.mountain.net**

NET NEWS

by
Bill Marple, AA6ZW

Happy Holidays to one and all. As I am sure you have noticed, band conditions on 10 meters are improving daily. We are experiencing great DX openings more frequently and more regularly. Now is the time to start checking in on the nets and collecting new numbers. It is also a time to meet old friends that haven't been heard for some time.

Our net controllers are working overtime, and eagerly await your calls. Remember, these nets are for you. Without your participation, they will be very short. Right now, we are experiencing as many as 80 check-ins on some nets, but others are still low. We need you to check in as often as possible on as many different nets as possible. Nets are conducted daily except Sunday. They begin at 1800Z on 28.800 and 28.380. Our net controllers would love to hear from you!

Beginning in the next issue of the *News*, we will be profiling some of our net controllers. This way you can "see" who you are talking to. Then you will have an idea of what interests they have, along with a little background about them.

By the way, are there any of you who would be interested in filling a net control position in the future? Or maybe you would be able to assist one of our net controllers during their absence, such as illness or vacation time. Let me know, and we can add you to our list of volunteers. Your assistance will be greatly appreciated! You can e-mail me at: aa6zw@compunetlink.com

Until next issue, I wish you good DX and 73 to all.....

QSO PARTY CALENDAR

Winter (Phone) Feb. 7-8, 1998
Log postmark deadline - February 23, 1998
Scoring Chapter - Trotters & Pacers Chapter
c/o John Raczek, K2LHC
22 Lake Avenue
Eatontown, NJ 07724-1608

Spring (CW) May 2-3, 1998
Log postmark deadline - May 18, 1998
Scoring Chapter - Possum Trot Chapter
c/o William Kelchner, KU4W
9946 Rockfish Road
Raeford, NC 28376-7036

Summer (Phone) August 1-2, 1998
Log postmark deadline - August 17, 1998
Scoring Chapter - Brooklyn Bridge
(Details will be forthcoming)

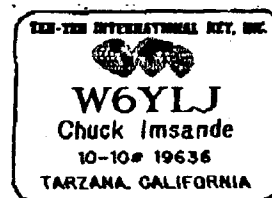
10-10 Day Sprint October 10, 1998 (*one day only*)
Log postmark deadline - October 26, 1998
Scoring Chapter - TBA

Fall (CW) October 31 - November 1, 1998
Log postmark deadline - Nov. 16, 1998
Scoring Chapter - TBA

All 10-10 QSO parties begin at 0001 UTC on the first listed date and close at 2400 UTC on the second listed date. The 10-10 Day sprint is, of course, a one day contest.

Official 10-10 Badge

Order your official 10-10 Badge from the Sign Man of Baton Rouge, Rick Pourciau, NV5A #49338, 10-10's official badge maker. Cost is \$8.50 post paid. Send Rick the following: Call



BADGE SHOWN 1/2 SIZE

Sign, Name to appear on badge, 10-10 #, City and State. Colors: Green for regular members, Orange for life members and Pink for YL members. Send your order to: Rick Pourciau, NV5A, 879 Castle Kirk Drive, Baton Rouge, LA 70808-6020. Allow 2 weeks for delivery.

LEARNING THE CODE THE BEST WAY

BY: MARTIN REID, N6QU # 28868

Are you a newly licensed ham considering "getting your feet wet" in operating the International Morse Code? Thinking about upgrading and wonder about the best way to learn CW? Or, Maybe you're just wondering what all the fuss over the code is about. Well, if so, this series is intended for you.

Our discussion of the International Morse Code continues, with this, our second in a series, dealing with the best way to learn the code.

We've pointed out that a knowledge of CW is important to upgrading and additional privileges, under our present incentive licensing structure. For any ham interested in access to voice, CW or other modes, on U.S. amateur frequencies offering the opportunity for long range and DX communication, and is opposed to learning the code, I offer the following:

Serenity Prayer

God, grant me the serenity to accept the things
I cannot change,
The courage to change the things I can,
And the wisdom to know the difference.

Seriously, CAW is a part of incentive licensing today and with the significant numbers of new hams upgrading after joining the ranks of amateur radio, it appears it will be with us for at least the foreseeable future. The question then becomes, for the operator interested in using CW and for the operator interested in expanded privileges, what is the best and quickest way to learn the International Morse Code?

The first step for the beginning student of CW is to recognize the characters of the alphabet, numbers 1 through 0 and the basic abbreviations and prosigns contained in examination elements 1A, 1B, and 1C. With some additional practice, the ability to simply recognize letters,

numbers and the basic prosigns will provide the CW student with the ability to pass the 5 WPM examination (element 1A).

A variety of methods are available today for the purposes of learning the code. One of the most effective means of learning the code is to have another person send the code characters to you, as you are learning them. As you learn the characters and numbers, two or three per session, review the ones you have previously learned as well as the new characters. Start with the shorter characters and gradually progress up to the more distinctive ones. Once these have been mastered, the numbers and abbreviations and prosigns can be learned.

If this is not a practical way for you to study the International Morse Code, I'd suggest you obtain one of the commercially available code tapes offered for the beginning student. The code practice tapes which the student of CW should consider obtaining are those which send characters at 13 words per minute or faster, but space the letters 5 words per minute apart. Many such tapes are available. Sources include:

1.) The American Radio Relay League's "Your Introduction to Morse Code", on cassette. Ask for it at your local ham radio dealer or directly through the American Radio Relay League at 225 Main Street, Newington, CT 06111.

2.) The W5YI organization produces a similar code tape. This cassette tape is available through ham radio dealers or from the W5YI Group, 2000 E. Randol Mill Road, #608 A, Arlington, TX 76011.

An assortment of code instructional tapes, study aids and "miracle breakthroughs" in mastering Morse Code are also available through the pages of "QST" magazine, "CQ" magazine and other ham publications.

A variety of tapes are available for increasing your code speed beyond the character recognition state. One of these series is produced by the ARRL and is entitled "Increasing Your Code Speed". This is a series of four tapes, each containing three hours of Morse code practice on two 90 minute cassettes.

For the student of CW, the key to learning is frequent exposure to the code once you have started learning. If possible, two or even three

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An-Ten-Ten-nas

**By 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 antenna you buy or build with out imposing our own prejudices on you. The more you understand, the better your choices will be.

No. 17 Some Misconceptions About SWR

We have all read dozens of articles about SWR. So we all know that the Voltage Standing Wave Ratio is a complex function of the relationship between the feedpoint impedance of our antenna and the characteristic impedance of our transmission line. When the antenna feedpoint impedance is a pure resistance, the relationship is simple: SWR equals the larger of the two divided by the smaller of the two. If the antenna feedpoint exhibits reactance in addition to resistance, then the SWR is higher by a somewhat more complex calculation.

We also all know that generally, the better the match between the load, the transmission line, and the source (our transmitter outputs), the more power is consumed by the load. Hence, it is generally wise to strive for a well-matched antenna-feedline-transmitter system. So we place an SWR meter in the line in, at, or near the transmitter and monitor the SWR at that point.

Despite all this knowledge, I still encounter some interesting misunderstandings about SWR. Of course, they come from outside the 10-10 ranks, so everyone can claim, "Well I knew

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better than that," Even so it may be useful to review a few of them.

1. "My SWR is low, so my transmitter is safe." In olden days when tube-type rigs had adjustable output circuits, folks worried about burning out tubes and other components "because" of SWR. Actually, the combination of resistance and reactance seen by the transmitter output circuit would sometimes permit only a small RF transferal. However, operators continued to load their finals to full DC plate input power. What is not RF in a final is heat, and that excess conversion of DC power to heat is what destroyed tubes and stuff around the tubes.

Today's transistor rigs have feedback circuits that sample the reverse voltage at the output and automatically reduce drive to the finals in the event of a high SWR. Thus, it is pretty difficult to hurt a rig by connecting it to a high SWR output load. However, SWR is NOT the only thing that can hurt a rig. Overdrive, with or without SSB compression, is a source of major stresses on a rig's circuitry. However, the chief rig killer seems to be voltage surges coming from the antenna, the power line, or the ground. And that is a matter of safety that calls for measures outside the rig—like disconnecting the antenna, power cord, and system ground to totally isolate the rig when not in use.

2. "My antenna system is fine, because the SWR is better today than when I put it up three years ago." The fact of a lower SWR over time is often true. However, the conclusion drawn is false. If the SWR is lower than it used to be, the chief reason is an increase in losses in the system. Losses represent that portion of energy converted to heat along the line and at the antenna terminals, energy that is no longer available as energy to radiate. As systems age, cables become "lossier," terminals become corroded, and a variety of other things contribute to the problem.

Yes, a lowering of SWR can indicate problems, not improvements. It is not impossible, but it is exceedingly rare for an antenna system to change its feedpoint impedance to match the transmission line. It is so rare that the lowering of SWR with time should always be taken as a sign that it is time for antenna system maintenance. Clean, deoxidize, tighten, and seal, as appropriate. If things do not improve, replace the outdoor coax with new stock (but save the old stuff for

An-Ten-Ten-nas

(Continued from page 8)

noncritical uses if it has any life left in it).

3. "My antenna is operating very well because my SWR is a perfect 1:1 match." Unfortunately, my dummy load gives a nearly perfect 1:1 match, and I cannot hear anyone when it is in the line. SWR is one measure of impedance match, but it is not an indicator of the quality of antenna performance as an antenna. Antennas convert radio frequency energy—a form of AC voltage and current—into electro-magnetic radiation (and also the reverse for reception); and they also manage to focus that radiation in various patterns. How well an antenna does this job is only indirectly connected with the impedance match to the transmission line carrying the energy to be converted and directed.

The practical consequences of this fact are pretty basic. First, before committing to an antenna, try to determine what kind of operating you want to do and select an antenna that will enhance that operation—within the limits of what you can handle in terms of finances, maintenance, and home site restrictions. Second, maintain your antenna regularly—even more regularly than most folks change automobile oil. Preventive maintenance will keep your antenna operating to its maximum ability. Third, if you build your own antenna for a long-term installation, use sensible quality materials. Stainless steel hardware is a must. Tubing and wire made for antennas or equally strong and conductive are necessary. Applying No-Ox or similar antioxidation conductive materials at connections of dissimilar metals is always a good idea.

4. "My antenna has a feedpoint impedance of 100 ohms. Surely 50-ohm coax will give me lower losses than the more highly mismatched 450-ohm parallel feedline." This misconception stems from the belief that SWR is a direct measure of the ability of an antenna to "absorb" energy and convert it into radiation. SWR is only part of the story.

Every transmission line displays two kinds of losses: first is a basic loss based on two significant factors: the ability of the wires to handle RF currents and the leakage between wires through the insulation. Because any coax we can afford compromises cost vs. effectiveness, all common coaxial cables have a higher basic loss per 100

feet than parallel feedline, whether 300-ohm or 450-ohm. In fact, for the HF bands, most parallel feedline has a minuscule loss compared to coax.

The second loss source is a result of SWR—or rather the mismatch that SWR indicates. Since peak voltages climb, leakage increases. Since peak currents climb, heat conversion losses are higher. In effect, SWR puts a multiplier on the transmission line's basic loss. Since coax begins with significant basic losses, additional losses due to SWR are that much more significant. Parallel transmission lines begin with almost insignificant losses, and the same or higher multipliers usually mean that losses are still insignificant. Under some common conditions, a parallel transmission line with a 10:1 SWR may have lower power losses than a coax cable with a 3:1 SWR. Parallel transmission line is almost always the best bet for multiband wire antennas that require an antenna tuner.

But remember that even at 3:1 SWR on the lower bands, like 80 meters, coax losses will still be too low to worry about. If your 75 meter dipole shows an SWR at the low end of 80 within the limits of your rig's built-in antenna tuner to handle and you would like to work a little CW, go for it.

5. "My meter shows the reflected power to be 25 watts. I'm worried about losing that power at the antenna and what it must be doing to my rig." Most folks who see these kinds of readings have never looked seriously at their forward power under the same conditions. Suppose you set your rig to exactly 100 watts output. Your reflect power reads 25 watts on a decent meter. Your forward power will read at least 125 watts—perhaps a couple of watts more to account for the cable losses just described (and your rig will be putting out about 102 watts). The difference is 100 watts. Where is it—and where did the extra forward power come from?

The reflected power simply returns to the forward direction and adds to the rig's power along the line. No need to worry about the rig, since it is not affected by the reflected power (except as the reverse voltage may activate a power reduction circuit). The antenna is receiving and converting 100 watts of power (less only the very small amount changed to heat due to cable losses). A receiving station cannot tell the difference in signal strength between an exactly matched dipole and one running a 10:1 SWR to

(continued on page 10)

A Mode Called CW

By: Martin Reid, N6QU # 28868

(continued from page 7)

short 15 minute sessions each day are preferable to one long daily session. Try to recognize the unique sound produced by each letter, number or prosign. Through practice, you will recognize each sound as distinctive. Don't become discouraged if the characters initially sound alike. Through repeated exposure, they will become more distinctive and easier to recognize. After you have mastered all characters, it is important that you continue practicing, as this will reinforce your knowledge of the code.

Don't even think about attempting to associate the sounds of each letter or number with the dots and dashes. Doing so will lead to confusion and will hinder the learning process.

Don't worry if certain letters, numbers or prosigns continue to give you problems. For me, the number '1' and the letter 'J' were almost impossible to tell apart. Even today, occasionally a "1" will bring the copying process to a halt until the character has been recognized.

If your local club has an "Elmer" or active ham who operates CW consider discussing your specific problems or concerns with him or her. Experienced hams are a valuable resource for the beginning student of ham radio and most will gladly offer any help they can.

And keep in mind, the code test offered by most volunteer examiners today is a multiple choice test, so by copying even a few characters, you have a good chance to select the correct answer. Once you are on the air, you can copy much from even a few letters of the QSO. And failing that, if you miss copy over the air, you can always ask the other station to repeat everything you may have missed!

Remember, learning CW is a process which all of the older hams and many newer hams have been through. Your local club will likely be a good source of advice and encouragement.

Unfortunately, modern science has not yet found a short cut through the time required to learn the code. The learning process is much the same for all human beings, though some catch on quicker than others. But no matter how long it might take you, there are some very good reasons for learning CW. So hang in there, don't give up, keep trying. You WILL prevail and it

An-Ten-Ten-nas

(cont'd. from page 9)

a parallel feedline and ATU system. The received signal strengths will be the same, assuming the antennas occupied the same transmitting positions with the same propagation conditions. Both antennas converted just about 100 watts of RF energy into radiation. It may take about a dozen cycles for the high SWR system to build to full power and an equal number to return to zero, but when you have millions of cycles per second to use, those few make no difference to the signal intelligence.

I hope these notes help all those "other" folks approach SWR and antennas a little more intelligently. *WorldRadio's* Kurt N. Sterba occasionally runs into SWR misconceptions, and I assure you that his treatment is far more entertaining than mine--except to the sources of those misconceptions, who are technical writers who ought to know better. He is a good incentive for writers to keep things right and sensible. The best extended treatment of SWR and for SWR misconceptions is still Walt Maxwell's book, *Reflections*. Unfortunately, it appears to be out of print. You may want to petition ARRL to reprint it. Hopefully your library has a copy. Mine is too dog-eared to be borrowed. Anything right in these notes belongs to Walt. Anything wrong is likely to be noted by Kurt.

LEARNING THE CODE CONT'D.

WILL be worth the effort!

If you've already learned the alphabet, numbers and prosigns, you might be wondering the quickest way you can then get your code speed up to 13 or even 20 words per minute. In our next article, we'll offer you some advice which might surprise you.

**BECOME A 1998 10-10
SCHOLARSHIP
VOLUNTEER**

Ten Ten QSO Party

Brochure

Introduction

This brochure provides everything you will need to know in order to participate in and enjoy 10-10 QSO Parties.

Although 10-10 QSO Parties are by nature a contest because awards are given for high scores in Call Areas, countries, etc., 10-10 likes to think of them 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 for the volunteer scorers. All QSO Party rules are listed in this brochure. Also included for your use is an example Cover Sheet, and Dupe Sheet.

Please read this brochure thoroughly so that you have a good working knowledge of each of the 10-10 QSO Parties.

10-10 QSO Parties

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.

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.

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 Callsigns and 10-10 Numbers.

The QRP category is for stations with output power of 5 watts output for CW, 10 watts PEP for SSB, or 10 watts output AM/FM.

Stations operating in the Club category must be a legitimate 10-10 Club with a registered 10-10 Number, with a government issued Callsign and with a membership of at least 5. 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 Callsign) are NOT accepted in any QSO Party.

Score Assignment

Under certain circumstances it may be possible to assign your QSO Party score to your local 10-10 Chapter. Chapter assignments of scores may be made only by a paid 10-10 member belonging to a particular Chapter as a local member. 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 Chapter Manager for confirmation. The 10-10 Sprint Day Party does NOT allow Chapter assignment of scores.

Logging Contacts

During a QSO Party or 10-10 Day Sprint, log your contacts with the following information: Date, UTC, Call, Name, QTH (state or country), 10-10 Number, and Points. A sample log sheet is included in this brochure 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.

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.

Callsign/10-10# Dupe Sheet

A Dupe Sheet is required for all QSO Party and 10-10 Day Sprint log submittals. A Dupe Sheet is required regardless of the number of contacts made.

Either a hand generated or computer Dupe Sheet is acceptable. All submitted Dupe information should be in an alpha-numeric sequence. Duping may be accomplished by use of the 100 square grid method using either 10-10 Number or Callsign information. Example Dupe Sheets are included in this brochure.

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 Callsign or 10-10 Number Dupe Sheet MUST be provided with your QSO Party or 10-10 Sprint Party submittal.

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 WorldWide Web site.

You MUST use one of these Cover Sheets when submitting your QSO Party or 10-10 Sprint results. Whatever Cover Sheet is used, make sure it is filled out completely - Name, Callsign, 10-10 Number, Current Mailing Address, Date of Contest entered, etc.

Contest Submittal

Your submittal package for a 10-10 QSO Party CW or Phone Party must include all of the following four (4) items:

- Cover Sheet with all blanks filled in
- 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
- Log in UTC format, hand or computer generated is acceptable
- Callsign Dupe Sheet can be completed using 10-10 Numbers or using Callsigns - all contest submittals must have a Callsign or 10-10 Number Dupe Sheet regardless of the number of contacts made.

Certificates

An overall Winner's Certificate will be awarded to the station scoring the most points for each CW and QSP Party, and also for the 10-10

(Continued on page 15)

TenX DX News

By Mike Davison
N5MT #24949

Dec. 2, 1997

Conditions on Ten Meters have improved! The 1997 CQWW DX contests are over and both the SSB and CW weekends were very exciting. I worked a total of 85 countries, 275 contacts and 29 of 40 zones both weekends. Contacts into Europe, Africa, Asia and Oceania were weak to medium strength signals and all were welcome multipliers during the contest. Central and South America were excellent signals some well over S9. I had the pleasure of working long path both contests into Asia from Texas, a great thrill to point your beam east and work Indonesia! One of the my friends with a big antenna on ten had a much higher score than I did especially since he was using a 6 element monoband yagi at 70 feet. Just on SSB, he had over a 100 countries compared to my 72 using a 4 element yagi at the same height. The point is that the band is now open for your enjoyment so lets crank up the tower and lets see what happening on Ten...

Kimbu, Kenya by **5Z4LL** Christine Sachse #50437 and I worked on November 22 at 1717 Z with a 54 signal from her Kenwood TS450 and 5 element antenna. Christine is a school teacher, mother of two children eight and ten years old and the only licensed YL in Kenya since 1988! She lives 20 kilometers north of Nairobi the capital and she says the people of Kenya are nice. Kenya is composed of 40 different tribes and she enjoys her holidays traveling through Africa and other countries. QSL direct to PO Box 14425, Nairobi, Kenya and include return postage.

Guinea-Bissau J52IM Dave Bendt #24392 (EX: 4K0IM, YB0AIM, TL8IM, KH2AD, KC6GZ, KC9IM/6) was a new 10-10 country for me last month. (Note: J5 has been a confirmed 10-10 country for years.) On Sunday mornings several of us have been meeting on **28.555 at 1500-1630 Z** trying to work DX. It has been more than ten years since any 10-10 activity has come out of Guinea-Bissau, so I appreciate Dave trying for several weeks to make a contact. We have been

waiting for the Solar flux to get high enough for us to hear each other! Dave is working as a communications specialist for the US State Dept. and had this to say: ?I try to check in to the American Foreign Service Net every Sunday. We start on 20M at 1500 on 14.316 then go to 15M at 1530 on 21.416 and finally to 10M at 1600 on 28.416.? QSL to KB9XN #57389 Howard Barbrey, 306 Greenfield Cr., Geneva IL 60134 with a SASE.

Willis Island by **WA1S** Ann #48144, **IV3FSG** Elvira #54292, & **VK4FW** Bill #34297 and others, was a big success for some during September. Bad weather plagued their stay on the island but due to a jump in the Solar flux, several thousand contacts were made on Ten! The women used callsign **VK9WY** and the men, **VK9WM**. Bill **VK4FW**, leader of the DXpedition, has developed a problem with being a 10-10 member. Apparently, some time in the past, Bill had a situation with one of the 10-10 Chapters in Australia and lost some money possibly including 10-10 dues. Bill refused to give me his number while on Willis! I was glad the other ladies were not so stubborn as Ann gave out her number when asked. I am in the process of asking questions trying to find out more details. Obviously there was a problem that did not get resolved for Bill by 10-10 and more details will be forthcoming. You can see their WEB page at: (<http://www.keylink.com.au/odxg/odxgwillis97.html>).

Upcoming DXpeditions & New 10-10 Country Activity: **5X1T** Uganda by Peter **ON6TT (ex-ON4AAQ)** #51565 was a new 10-10 country for me on October 11. I had to look up his old number as he had not used it in years! Peter has a QSL manager: **ON5NT** Ghislam Penny, Lindestraat 46, B-9880 AALTER, OV, Belgium. (Ed: received my QSL card within 10 days of sending it to his manager.) **9Q Eastern Democratic Republic Of Congo (ex-Zaire)**. Peter, **ON6TT/5X1T** #51565, and Mats, **SM7PKK/5X1Z**, were in Kisangani, from November 3-7th. Peter operated as **9Q2T** which still counts the same as **Zaire** even though the name changed. Peter works for the World Food Programme (WFP), the United Nations food aid organization. WFP is the main agency bringing in food relief for emergencies and relief operations. Peter is now back in Uganda.

5X4F Uganda by Paul #12035 (**ex.OA8V**) will be using call **W4PFM** when he soon returns to the US. I worked him for a new one during the CQWW SSB contest and asked for his number. QSL to **K3SW** James D Kulp, Signal Hill Farm, 88

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TenX DX News

(Continued from page 12)

Signal Hill Ln, Middletown, VA 22645.

Chagos Island VQ9. Start looking for Pres, N6SS #21293, to be active once again from here as **VQ9SS**. Activity will last until November. QSL via Preston Smith, HC61 Box 1503, Dewy AZ 86327. **8Q Maldive Island** Members of the 8Q7AA DXpedition team in January 1998: Sally Martinez **KM5EP** #65064 & Dan Brown **NA7DB** #21616 on SSB. On CW look for Stephen Towne, **NN7X** #39696. **Maldive** by Bruce, **KD6WW** #13040, will be operating as 8Q7AJ in November. Activity will be mostly on CW.

1010 IOTA: Montserrat Keithly Chambers **VP2MU** #54243 has recently moved into Olveston to avoid the volcano on the island. He can be reached by mail at PO Box 219 Olveston Montserrat W.I. **Poland SO:** A group of Germans headed by Holger, **DL7IO** #22401, operated from Wolin Island off the coast of Poland in October using the call SO5OE/1 on SSB and SO1HH on CW. QSL to **DL7VRO** #55523 or QSL request via E-mail to "DL7VRO@aol.com" and the card will go via bureau. **Guam** by Ray, **WH6ASW** #65818, will sign WH6AW/KH2 from mid August until December. QSL via VK4FW. **Kure Island** DXpedition KH7K Sept. 26 to Oct. 4 by Randy **K0EU** #4977 and Andy **UA3AB** #23433 and other ops. **French Polynesia FO.** Bora Bora by Ron **N6VO/FO5VO** #9550. **Barbados 8P:** John **K4BAI** #45389. Look for him on CW using the call 8P9HT and during the CQWW CW contest using 8P9Z. QSL John Laney, POB 421, Columbus GA 31902. **8P6CV** by Steve **KU9C** #31988. QSL call book. **Chatham Island** Ken **ZL2HU** #37889 reports a group of New Zealanders operated ZL7AA from October 21-28. **Chagos Island VQ9.** Rick, **WB0BNR** #1757, was active as VQ9AI until mid-November. **HC8, Galapagos Island** by Pedro **HC1OT** #38309, and other operators will be active as HC8N. QSL via Derek **AA5BT** #54007. **KP2 & WP2, U.S. Virgin Island.** Dave, **AG8L** #9626, reports he used two call-signs: KP2/AG8L and WP2Z for contests. QSL via Mike **NN6C** #60345. **TI, Costa Rica.** Fred **K9VV** #8707 and **K6CT** will be active as a entry in the CQ WW CW Contest as TI5KD. **AH8A American Samoa** by Bill #24324. QSL to: Ron Lago, POB 25426, Eugene, Oregon 97402. **C21RK Nauru** Ruben #36955 POB 139 Nauru, Central Pacific. **3B8 Mauritius Island** -Jacques, **F6HMJ** #52711 will be **3B8/F6HMJ** on all bands

from Mauritius (AF-049) until December 12. **3B8, Mauritius.** Jacques, **F6HMJ** #52711, will be active as **3B8/F6HMJ** from November 26th to December 12th. **V2, Antigua.** Darrell **AB2E** #9753 V26E, with two other ops, will activate V26KW. **6D2X Mexico** by Russell #11737 **K5TSQ**. QSL his address: R. K. Quin, POB 734, Edinburg TX 78539.

Panama: QSL manager Jean, **F6AJA**, reports he has the **HP1XBI** logs up to September 15th for Gerard **F2JD** #63443. All direct QSLs are on the way. We talked and swapped numbers when we had good conditions into Panama in November. Gerard's job will soon end and he is expected to leave in December.

Tajikistan EY by Karl, **K4YT/DL4YT** was active for the last time as **EY8/K4YT** #37347 from Dushanbe in November. QSL via W2TK.

SV, Greece. The "DX News Sheet" reports that Charles, ex-S92SS, and his **XYL** Leslie, ex-S92YL, will be active for the next four years as **SVOLM** and **SVOLN** from northern Greece near Thessos Island.

Mali by Larry, **TZ6VV** #28997, has been active for about the last 6 weeks, will return to the U.S. in January 1998. Larry was worked on 28.403 at 1525Z. (Or 28.424 at 1515Z). He will leave Mali December 31st and travel for three weeks in Africa before flying back to the U.S. when he will come to Houston to pick up a car about January 29st. QSL via AA0GL.

Zambia, 9J2FR by Renzo **I2KRR** #27983. We worked on November 8 on 28.505 at 1650Z. He had not used his 10-10 number in a long time and could not remember it, so I looked it up under his old Italian call and gave it to him over the air. QSL to **IK2RZQ**.

9J2CE by Ely **IN3VZE** #31856, was active in November. QSL via Ely Camin, C SO# Novembre 136/2, Trento 38100 Italy.

Propagation: Solar flux will range from **100-125** during the first quarter of 1998. As I write this, the **Solar flux is 117 the A index 2 and K index 1**, now that the Solar flux is steadily increasing with Cycle 23, we are working some DX! Expect large swings of flux numbers as new spots appear on the sun and the sun moves into what I call the first phase of Cycle 23. This first phase will last for 1-2 years. For stations in the Eastern US, expect a 50% chance of DX propagation to the East-West path into Europe or Africa. For stations in the Western US, expect 25% chance of DX into Europe. All of the US will get a 60% chance into Central & S.America. Expect increased Sporadic E Layer conditions to

(Continued on page 19)

Chapter Coordinators Column

Applications Pending: None

Newly Affiliated : Flying Tigers, Johnston, RI - Loose Nut Net, Yacolt, WA - Arizona Desert 10-10 Net, Tempe, AZ

Reports Due this quarter: Backhawk Valley, Gateway, Imperial Dragon, Twin Cities

Reports Past Due: City of Lights, Coffee Cup, Cowtown, Mule Town, Pine State, Platte River, Sky Blue Waters

In Extremis: Camellia Capital, Cradle of Liberty, River City, Tango

No Longer Affiliated: Okie Relays, Colorado Bighorn - failure to respond to Chapter Coordinator's correspondence

REMINDER: To remain affiliated with 10-10 International, all chapters must file a chapter report at least once per 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.

=====

Newly affiliated chapters:

Flying Tigers - CH KA1JFT, Gerald F. Morin, 19 Morton Ave., Johnston, RI 02919 and the CM KE1FJ, Frank Grzych, 31 Chestnut St., Johnston, RI 02919. E-mail: flyingtigers1010@juno.com
The net is Sunday at 1:00 PM EST on 28.415. Certificates are issued upon receipt of a one time \$3.00 fee. The certificate is an 8x10 glossy print with the name, number, and 10-10 number.

TEN-TEN STAMPS

ORDER FOR ALL OF YOUR CORRESPONDENCE

144 SELF STICK FOIL STAMPS \$5.00 POSTPAID

ORDER FROM: 10-10 International Net, Inc.

643 N. 98th Street #142, Omaha, NE 68114-2342

The one time fee is to cover the certificate mailing and the future awards such as stickers that will be awarded for the many specials that are planned.

Arizona Desert 10-10 Net - based in Tempe, Arizona. This net meets Monday at 0230 UTC on 28.445. There are no certificates planned at this time. The CH is Steve Gruley, KJ7WK, 1104 e. Campus Drive, Tempe AZ 85282-3913.

Loose Nut Net - based in Yacolt, Washington. This net meets daily at 0300 UTC on 28.430 and the certificate is 2 FCS. The CH is Marsha Messer, AB7RJ, P.O. Box 58, Yacolt, WA 98675-0058.

=====

Boomtown - Ed Neal, N5EBA, will assume the duties of CH and CM of Boomtown. All upgrades should go to him. His address is 1414 Hiawatha, Burkburnett, TX 76354. Ed also needs the help of any Boomtown member whose number is above 229 as that is as far as his records go. Just drop him a note with your Boomtown info so he can get his records up to date. Also their weekly net has changed time from 11:30 to 09:00 local time, that's 1330 UTC summer and 1430 UTC in winter on 28.402 MHz.

Fort McHenry/Cornerstone - Collect W3FQN Memorial Award numbers for 1 FtMcH point each. Collect Cornerstone **Cannon** numbers for 5 Cornerstone points each. Upgrades must be postmarked no later than 28 February 1998.

Important Note from the CM: We were unable to attend Council Bluffs but wish to recognize and thank those Fort McHenry members who did. Bluffs 97 numbers will be issued through upgrades with 1 point added to the Fort McHenry point total and 5 points to the **Recruit** Cornerstone point total. Numbers will be issued.

Chief Killbuck - A couple of changes in the fees; the upgrade seals will drop to 25 cents but the DX basic certificate will go up to \$2.00 plus postage.

Colorado Centennial - the CM would prefer upgrades by USPS, however, those that chose the e-mail method must remember that there is no guarantee that it will make it through his packet gateway.

Kansas Trails & Twin Cities Special - This is a joint special between these two chapters and is good for upgrades in both chapters.

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TenX DX News

(Continued from page 19)

inish during the Winter as F Layer skip begins to return as Cycle 23 gets more active. Remember to listen for the beacons (28.175-28.300) to check conditions.

New DX members for Fall: Here are the new DX members for 10-10 during the last quarter: DF4PL 68932, DJ2VZ 68933, DL2KK 68934, DJ6SE 68935, DJ5JO 68936, DK4QO 69087, VA3LGD 68937, PU3LSP 68938. 73 from Carol K8DHK #29588.

The official 10-10 DXCC Country count is at 288 as N5EJS Russ has uncovered two new countries!

Thanks too: The on-line DX Reflector, QRZ-DX KH6BZF Reports, & Ohio/Penn DX Bulletins. Send photos to Mike Davidson, 3518 Bellefontaine, Houston, TX 77025 USA or NEW Email: N5MT@aol.com. Remember, **DX IS!**

Good DX & 73. ... Mike Davidson N5MT #24949

Candidate Bios

(continued from page 5)

Bob Ryan

Bob, K6YVG # 18022, is running for Director. Bob states, "As an incumbent member of the Board of Directors for Ten-Ten International, I feel very fortunate to have worked with some of the brightest and best slate of officers an organization could have. A dedicated group from which I have learned much and would like to apply this acquired knowledge toward four more years as your Board member. I am very proud of the accomplishments of our staff over the past term, and would like to help add to them in the future. Other capacities that I serve in include Corporate Secretary, and writer of the "Featured Station" column.

"Some background, a retired Electronic Maintenance and Engineering research technician and Maintenance Supervisor. I have served on the employees recreation club Board of Directors for Librascope and Lockheed Aircraft Corp. Licensed in April 1957, I joined Ten-Ten in 1977. I am also a member of QCWA #22079.

"If re-elected I will work on the "Operations Committee" to further add to their membership benefits. Your vote would be appreciated."

Bob Peschka

Bob, K7QXG # 5956, is running for Director. He says, "I served four years with the USMC, and in 1957 entered Portland State College studying electronics. Since 1959 I have continued my interest and studies in electronics, both formally and informally. I was first licensed as a Novice, KN7QXG in 1961.

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(Continued from page 11)

Day Sprint. The "Top-Ten in the World" finishers will also receive a Certificate. In addition, for each 10-10 Party, First Place Certificates will be awarded to top finishers in the following areas; each of the 10 US Call Areas, Alaska, Hawaii, Canada, South America, Central America, Caribbean, Europe, Africa, Asia, Japan, New Zealand, Australia and the Pacific Island Group. A First Place Certificate will be issued for any other DX country in which three (3) or more logs are submitted for a given 10-10 Party. Certificates will also be issued for First Place in the Club, QRP and Chapter categories.

In the event of a tie, the tie-breaker will be based on the greatest number of contacts made. ALL final QSO (CW & Phone) and 10-10 Day Sprint Party scores for both DX and US Call Areas will be published in the **10-10 News** in each scoring category along with aggregate Chapter scores.

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 use. Remember, the 10-10 organization promotes courtesy on the 10-meter band. Please leave the above frequencies open for non 10-10 members to use.

* * * * * QSO PARTY RULES: * * * * *

CW, Phone & 10-10 Day Sprint

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

- 1 Phone contacts **MUST** be made within the 10-meter phone band on SSB, AM, or FM. CW contacts **MUST** be made within the 10-meter band on CW or RTTY.
- 2 Repeater or satellite contacts are **NOT** allowed.
- 3 Exchange **MUST** include Callsign, Name, State or Country and 10-10 Number.
- 4 A station may be counted **ONLY** once as a contact.
- 5 All contacts **MUST** take place during the designated Party hours.
- 6 Logs **MUST** be kept in UTC.
- 7 A Callsign or 10-10 Number Dupe Sheet **IS REQUIRED** of all participants regardless of the number of contacts made (See explanation above).
- 8 Chapter assignments of scores may be made **ONLY** by a paid member belonging 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 10-10 number exchange and for contacts that do not include a 10-10 number exchange. In addition, points are awarded for contacts with DX 10-10 members and non-members. The scoring points breakdown is as follows:
 - Three (3) points are awarded per DX contact **WITH** a 10-10 member that includes a 10-10 number exchange.
 - Two (2) points are awarded per contact **WITH** a 10-10 member in **YOUR** country that includes a 10-10 number exchange.
 - One (1) point is awarded per contact **WITHOUT** a 10-10 number exchange. This includes contacts with operators within your country and DX operators.**NOTE:** DX is defined as a contact with an operator located outside the territorial boundaries of **YOUR** country as defined by the ARRL Official Countries Listing. (Example: If a US operator, a contact with Alaska or Hawaii **IS** considered DX).
- 10 Disqualification criteria: Illegible or improperly submitted logs, or failing to comply with these rules or their intent **WILL** result in disqualification. Disqualification criteria for errors is 10%.
- 11 NO logging information will be returned.

(Continued on page 18)

SCHOLARSHIP FUND NEWS

Treasurer Keith D. Schlottman, KI7RK # 63324, has forwarded a check to the Foundation for Amateur Radio to fund four \$1,000 scholarships on behalf of the 10-10 International Net. FAR will administer these scholarships in 1998 for this most worthy amateur radio program.

Licensed radio amateurs may compete for these four 10-10 scholarships if they plan to pursue a full-time course of study beyond high school and are enrolled in or have been accepted at an accredited university, college or technical school.

Additional information and an application form may be requested by letter or QSL card prior to 30 April 1998 from:

FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740-3713

Applicants for the 10-10 Scholarships who are not active 10-10 members must provide a written recommendation from a current, active 10-10 member (one whose dues are paid current). Applications must be **signed and received by FAR prior to 1 June 1998.**

1998 BOARD OF DIRECTORS MEETING

The 1998 Board of Directors meeting will be held 12-13 June 1998 in Houston, Texas.

It will be held at the Ramada Inn at Hobby Airport. The address is:

Ramada Inn - Hobby Airport
8611 Airport Boulevard
Houston, TX 77061
Telephone: 713-947-0000

.....
: **CHANGED YOUR CALL or ADDRESS** :
: **NOTIFY 10-10 - ADDRESS ON PAGE 31** :
: :

Candidate Bios

(continued from page 15)

"I have been a 10-10 member since September 1972, and have been the Bar Award manager for 1 1/2 years. I am a co-founder of the Oregon Chapter of QRP, and a former certificate manager for the Oregon Counties Award. I was a member of the first Oregon Counties Expedition team in 1964. I am a former Chapter Head of the City of Roses Chapter of 10-10.

"I attend ham events and meetings, including a visit to the AII chapter in Hawaii in 1997, and two trips to the Hill Country Gathering in Bulverde, TX. I am a published author - *World Radio* and *QST*, as well as numerous newsletter publications.

"In my professional life I was a Police Lieutenant and a court recognized expert on fraudulent documents. By virtue of these roles I have extensive management and staff project experience.

"I wish to offer the 10-10 organization the use of my management and technical skills."

Jim Whittlesey

Jim, KC4RHW # 57051 is a candidate for Director and says, "My age is 65, and I am retired on disability. I have been in amateur radio since 1960 and have been a member of 10-10 since that time.

"I believe that we all should work together to better amateur radio and 10-10. We should also work to advance 10-10 to all countries and help them work with the organizations of those countries help them understand what 10-10 is all about.

"I have served as President, Vice President, and Field Day Chairman of the Oak Ridge Amateur Radio Club in Oak Ridge, Tennessee."

Jerry Heien

Jerry, N9AVY # 43313, is also running for Director and his first interest in ham radio began in 8th grade when a couple of classmates had received their licenses and began tapping out Morse code with their pencils. Due to problems learning the code, it was 18 years later before he got his license. However, during the interim, he busied himself with short-wave and became a SWL. A position opened up for Editor of the Newark (NJ) News Radio Club Amateur Radio Section. He pursued this and eventually moved on to start his own SWL publication called *SWL Spectrum*. This was a 25 page, bi-weekly magazine that eventually folded after 6 months due to lack of financial resources.

In 1977, Jerry managed to learn Morse code and was licensed as WD9HQQ. In the next two years, he upgraded to Advanced. In 1978, Jerry helped found the McHenry County Wireless Association along with two other hams. The club is still going strong today and took first place in Field Day category 3A. Jerry served as the first Treasurer and Newsletter editor.

(continued on page 19)

10-10 - SILENT KEYS

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.

01617	WA0YML	Robert T. Kresky, Jr.	Salina, KS
02196	KC4ZI	Michael Del Grosso	Huntsville, AL
02831	WA1ITZ	Justin C. Barton	Randolph, VT
04897	W2GU	Kenneth E. Cooney	Signal Mountain, TN
05198	WB4TJJ	Edward E. Nicholas, Jr.	Lancaster, VA
05649	W4AMX	Philip Konter	Savannah, GA
05911	WA8WXN	William J. Bobek	Dearborn, MI
06505	K4GRH	Walter J. Parker, Sr.	Jensen Beach, FL
06763	W8GBR	Larry R. Baine	Lake Odessa, MI
06869	W4QI	Lem Holland	Siler City, NC
07259	K0GA	Garfield A. Anderson	Edina, MN
07291	W0RAY	Russell E. Powers	Paris, MO
07821	NN2F	Walter D. Martila	Palm Bay, FL
08002	W6CHK	Robert M. Sickley	Burlingame, CA
08543	W8GCZ	Emory J. Reasor	Princeton, WV
09368	W8LLX	Melvin C. Aichholz	Terrace Peak, OH
09455	AC7D	Willard L. Haskell	Tucson, AZ
11045	W4RKN	Roy S. Dynesius	Chattanooga, TN
11614	W5VAD	F. Gerald Simons	Benton, AR
11752	W5KMN	James H. Stephenson	Chandler, TX
12204	W3ND	A. A. Manning	Camp Hill, PA
12205	WA3VWA	Richard M. Young	Harleysville, PA
13366	W7WCX	Winston D. Shincke	Olympia, WA
15310	W1IXA	Roger Sweetser	Sharon, VT
15630	KU5B	Jack M. Bickham	Normal, OK
16573	K2BC	W. D. Earnest, Jr.	Wyckoff, NJ
16619	W7IBO	Carl E. Peters	Des Moines, WA
17057	W9ES	James A. Roberson	English, IN
19116	VK6RG	J. R. Walter	Floreat Park, WA
19440	W0GHO	Lawrence J. Dahline	Edina, MN
19507	WD0AKS	Gwen D. Ryder	Chisholm, MN
20256	KB7F	Parley J. Johnson	Reno, NV
22929	KB7UH	Russell F. (Fred) Stanley	Renton, WA
23116	W4WXN	John D. Hill	Nashville, TN
23558	N6AHV	D. W. (Tex) Myers	Sylmar, CA
24444	K7OLB	Robert E. Strasburg	Spokane, WA
27953	VE4AED/AB5MP	Gustaf Johnson	Oklahoma City, OK
27955	VE4SK	Hallstein Freeman Skaptason	Winnipeg, Manitoba
27984	VE3FKH	John A. Muscat	Amherstburg, ON
29245	KD9ZF	Emil R. Havel	Manitowac, WI
30560	W3JZP	Elliot H. Glunt	Silver Spring,

33277	N4GSS	Eugene D. Bench	Fort Walton Beach, FL
33285	WA4OZA	Roy B. Coleman	Lakeland, FL
33749	W6VBU	Warren V. Bruner	Carmichael, CA
36291	N4EJK	Vernon H. (Don) Shearer	Marietta, GA
37538	WB2LAH	Thomas Kehoe	Garfield, NJ
38036	W5GYT	Ben L. Leutwyler, Jr.	Albuquerque, NM
38039	KE5YU	H. Trent Weatherford	El Paso, TX
38088	N5AHH	John Peyton Dempsey	El Dorado, AR
39103	N0AZW	Marvin E. Nebel	Jefferson City, MO
40077	KC5HR	Bill E. Brown	Springdale, MO
40867	W5TJP	H. R. Jefferis	Burkburnett, TX
41396	N8BFA	Jeanne Kaylor	Marcellus, MI
41557	KA6NDX	Charles B. McDermott	Los Altos, CA
42096	VE7FVF	William Harold Townsend	Chilliwack, BC
42945	VE4FJ	Frank John Russell	Winnipeg, MB
45339	KA4FKJ	J. E. Summey	Fort Walton Beach, FL
45858	8P6SA	Nat Green	St. Michael, Barbados
47078	WB2IOB	Warren V. Delavan	Kingston, NY
48094	N3ESD	Gail Driscoll	York, PA
50191	KK6WD	James H. Goodman	Redding, CA
51014	N0CSM	Voorhies H. (Bob) Robbins	Lincoln, NE
51560	VE1CCB	Alexander Ivan Dewar	James River, NS
51571	VE1RX	John C. Stevens	Hubbards, NS
51617	N7KYC	James F. Eaton	Spokane, WA
51926	N9ICE	Jack F. Palliday	Indianapolis, IN
52026	KB7GMV	Alfred L. Woodbridge	Colville, WA
53183	KB7HII	John E. Ary	Port Angeles, WA
56350	KA0CPS	Richard H. Kouns	Pueblo, CO
56695	K8KCD	Elizabeth Acheson	Grand Rapids, MI
57380	N9HQU	Marvin A. Calvert	Marion, IN
58491	W5GTD	Saxon B. Swearingen	Belton, TX
61208	KB7LLJ	John H. Haneg	Estacada, OR
61401	KB9HBR	William B. Brown	Edwardsville, IL
61635	N1CCL	Jose M. Cadrecha	Burlington, VT
63793	KB7WLS	Joyce Walton	Eagle Creek, OR
64841	K8IK	Eldred L. Aubrey	Royal Oak, MI
65371	AA9GJ	Donna C. Shinabarger	Daleville, IN
65491	W1AYP	Ronald L. Adams	Norwich, CT
65852	W6AOX	Allen F. Uhrig	San Dimas, CA
66538	AA3MA	Olver R. Ellis	Oxon Hill, MD
66641	KE4KNG	Jack A. Hunter	Jacksonville, NC
67521	N4JUB	Edward O. Brown	Missouri City, TX
67901	KB7WQV	James R. Peters	Adado, AZ
68026	AA2TB	Michael R. Liptak	Crestwood, NY
68811	KO6TJ	W. David Nielsen	Moraga, CA

QSO PARTY

(Continued from page 15)

Log Postmark Deadline Date

Each 10-10 QSO Party and 10-10 Day Sprint have a log submission Postmark Deadline Date. This date is published in the **10-10 News** and on the 10-10 WorldWide Web site. Any logs received with a postmark after the stated Postmark Deadline will be rejected. It is strongly recommended that you send your log 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 WorldWide Web site.

10-10's WorldWide Web Site

Current information about 10-10 and upcoming 10-10 QSO Parties is always available on the 10-10 WorldWide Web site. In addition to the latest QSO Party dates and general information, there is also a copy of a Cover Sheet and sample Dupe Sheet that may be used for submittal with your QSO or 10-10 Day Sprint Party log.

If you have a computer and can access the WorldWide Web, visit the 10-10 site and take a tour. The address is:

<http://www.lehigh.edu/lists/tenten-1>

NOTE: The last letter in the address is a lower case "L" and not the number one (1).

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 Committee Manager:

Don Ward, W0RTV #13962
4514 Ferrer Drive
St. Louis, MO 63129

Please enclose a #10 SASE with your request if you would like a written response.

Go Get'Em!!!

Now that you have read the brochure thoroughly, you know all there is to know about the 10-10 QSO Parties and the 10-10 Day Sprint. Please keep in mind that these Parties are offered by 10-10 to serve several purposes:

- ◆ To promote the use of the ten meter band
- ◆ To offer the opportunity for both members and non-members around the world to meet one another
- and
- ◆ To enhance the operating practices of all amateur operators on 10 meters

It is important that you, as a 10-10 Party participant, adhere to the rules as outlined above and that you respect the Quiet Zone that has been set aside for use by non-Party ham operators.

Above all, have a good time with each 10-10 Party! Let's get the most use of the 10 meter band possible!

"YOU HAVE TO MAKE CONTACTS TO GET RESULTS"

"Sample" 10-10 QSO Party LOG

DATE	TIME	CALL	NAME	QTH	10-10#	POINTS
10/10/97	0245	KB6HW	Esther	AZ	23331	2
10/10/97	0246	G4BLH	Mike	DX - England	18446	3
10/10/97	1454	K4CIH	Tom	AL	33233	2
10/10/97	1456	W6XXX	Joe	CA	None	1
10/10/97	1458	JA1XXX	Sam	DX - Japan	None	1

- The sample log above is for a US Call Area operator and has a total of five (5) contacts listed. Note the time is logged in UTC. The QTH column requires only the state or country, the city is not required.
- Three (3) contacts have 10-10 numbers for a total of seven (7) points (one contact is DX and therefore worth three (3) points, the other two (2) contacts are US and worth two (2) points each).
- Two (2) contacts were with stations (DX and US) without 10-10 number's and therefore count one (1) point each.
- The total points earned on this sample log are nine (9). With this log data this station can now easily complete the QSO Party Cover Sheet.

SPOTLIGHT

**BY
BRAD KIMBLE**

This issue's "Spotlight" moves to Minnesota. Grove City, Minnesota to be exact. This is where Frank Hawkins, KB6UPG, # 51849, has been hanging his hat for the past seven years.

Frank was born in Foley, MN, on October 24, 1930. After attending school, he joined the Army in 1950. He spent four years in the Army and managed to be one of the "lucky" ones to travel parts of the globe. One place in particular was Korea. They liked Frank so well, they kept him there for two years. As all things must come to an end, he returned to the states where he finished his enlistment.

In June of 1954, he married Joan. They have been married for over 43 years. With a daughter living in California, they have 3 grandsons. The oldest grandson decided to follow in his grandfather's footsteps and is currently serving in the Army.

Frank was first licensed on November 10, 1987, and holds the Technician Plus privileges. Obviously his radio time is spent on 10 meters. A member of Ten Ten International since March 1989, he pursues as many of the 10-10 awards as possible. Besides obtaining VP # 2291, he has been awarded the 1400 bar, the 300 bar for VP, credit for over 500 counties worked, and one of the more difficult awards, 200 different prefixes, all for 10-10. Frank has also been an avid paperchaser since 1989 and spends time on the air pursuing the 63 chapters he maintains on his certificate list. All this and a chapter too. He is Chapter Head and Certificate Manager for the Kansas Trials chapter and will be co-hosting a special beginning on 1 January 1998.

After 26 years as a letter carrier for the US Post Office, Frank has found time to enjoy other hobbies as well. A lover of country music, he has collected many records and also like playing the guitar. Living in the land of 10,000 lakes, he loves fishing. He is an avid science fiction fan, collector of coins and loves fishing. When not staying at his lake cabin fishing, he likes to dabble in a little woodworking. Did I mention fishing?



Frank Hawkins, KB6UPG, in his radio shack with a shirt that says it all.

Candidate Bios

(continued from page 16)

Jerry found 10 meters and got his 10-10 number in 1987. He discovered paperchasing and began building his "list". The 10-10 experience was very positive; in fact, it was so much so that he volunteered to assist the Milwaukee Chapter with the 1988 10-10 Convention. Somewhere around that time Jerry also took on duties as CH for the now defunct NITT Chapter.

In 1991 he went off the air due to a move into an apartment where antennas were prohibited. He has since move into a house where antennas are allowed and is now active on 10 meters.

Brad Kimble

Brad Kimble, WA4KUP, writes, "I am 36 years old and married to Loreen, KC6MJO, for the past 11 years. I joined the Air Force in 1980, and am currently am active in the Air Force Reserve for over 16 years. I am currently in the Personnel career field and have previously worked as a training consultant.

Licensed since 1975, I have been involved in ARES, message traffic handling, and net control station for various nets over the years, and am a current member of ARRL. A member of 10-10 since 1990, I am an avid paperchaser and Certificate Manager of the Twin Cities chapter. Recently selected to write the Paperchasers Personality column for the quarterly *10-10 News*. I am very interested in the operations of 10-10 and hope if elected to become part of the Operations Committee. Being involved in 10-10 with my wife Loreen, I am a supporter of 10-10 being family oriented and also believe that all aspects of the general membership need to come first.

(continued on page 23)

10-10 Reflections

By
Morrie Goldman
W6EHM #4189

10-10 Historian

Now that the 10 meter band is beginning to show some signs of life, it seems like déjà vu all over again. The article "Ten Meters: Dead or Alive?" was published in the Winter (January) 1978 Quarterly Bulletin (now the 10-10 News). The author, Martin Greenbaum, K2HTO #9732 has been an active 10-10 member for over 20 years.

Here are some excerpts from his article:

During the month of June, 1974, after twenty years of hamming, I was mighty close to pulling the big switch on all low band operations and contemplating 2 meter FM. Exchanging signal reports and the usual trivia no longer interested me. Nor was I going to continue the bothersome task of trying to pry QSL cards from Lower Outer Mongolia. No siree, 2 meter FM here I come!

By chance, I decided to go on ten meters, before selling all of my low band gear. It was sixteen years since I had been active on my old favorite band, during the peak of one of the highest sunspot cycles on record. Those were the days, my friend.

A strange thing happened that fateful evening. The band was open on a North-South path and the 4 call area was coming through loud and clear. Who said ten was dead? I heard multitudes of stations calling CQ ten-ten. It sounded like a group of newly licensed hams with cases of nervous jitters. Hence, the stuttering. Using my old Heath HR20, HX20 receiver and transmitter along with an inverted vee cut for 20 meters, I loaded up on ten with

with an SWR of up to ten to one. I answered a CQ from a station in Birmingham, Alabama, who had his friend on frequency with him.

..Propagation wise, ten meters appears to be the twilight zone of HF and VHF characteristics. It's fascinating to observe the effects of backscatter and tropospheric bending. Sporadic E propagation found ten seldom appears on fifteen meters. It is a rarity on six and will reach a maximum of maybe 70 MHz. Freak conditions, at times, will cause it to appear higher.

Ten meter beacons are being transmitted from almost all continents of the globe as a guide to conditions. This is evidence enough to show the increasingly wide interest being shown on this band.

It is ironical to hear so many newcomers to this band comment that they haven't been on ten for years. They thought it was dead.

May I wish you and yours the best of holiday seasons!

Obituary

We are saddened to learn of the passing of our member, *Someone Else*. *Else's* passing created a vacancy that will be difficult to fill. *Else* has been with us for many years, and did far more than a normal person's share of work. Whenever there was a job to do or a meeting to attend, one name was on everybody's list: let *Someone Else* do it. It was common knowledge that *Someone Else* was among the largest givers in our group. Whenever there was a need, everyone just assumed that *Someone Else* would do it. *Someone Else* was a wonderful person, sometimes appearing superhuman, but a person can only do so much. Were the truth known, everybody expected too much of *Someone Else*. Now *Else* is gone. We wonder what we are going to do. *Someone Else* left a wonderful example to follow. But who is going to follow things that *Someone Else* did? When you are asked to help or volunteer, please remember, we cannot depend on *Someone Else* anymore.....Nuff said

treasurer's report

Keith Schlottman
KI7RK, #63324
10-10 Treasurer

STATEMENT OF REVENUES & EXPENSES - CASH BASIS SECOND QUARTER - 1997-1998 1 JULY 1997 - 30 SEPTEMBER 1997

	2ND QTR	YEAR TO DATE
REVENUE		
MEMBERSHIP DUES & FEES	\$16,379	\$29,115
SCHOLARSHIP DONATIONS	1,207	1,399
ROYALTIES & INTEREST	<u>1,665</u>	<u>5,603</u>
TOTAL REVENUE	19,251	36,117
EXPENSES		
POSTAGE & PRINTING -NEWS	6,503	12,742
OPERATING EXPENSES	1,287	4,341
SCHOLARSHIPS	4,000	4,000
ADMINISTRATIVE EXPENSES	<u>2,784</u>	<u>7,048</u>
TOTAL EXPENSES	<u>14,577</u>	<u>28,131</u>
REVENUES		
OVER (UNDER) EXPENSES	<u>\$4,674</u>	<u>\$7,986</u>

New 10-10 Coffee Mugs

A new personalized 10-10 coffee mug is now available for member purchase. This new plastic mug has the 10-10 logo on one side and is personalized with your call, name, 10-10 number and city and state on the other side. The cup has black printing on a white background. The price of the new official 10-10 coffee mug is \$8.50 to Rick Pourciau, NV5A # 49338 at 879 Castle Kirk Drive, Baton Rouge, LA 70808-6020. Be sure to include your name, call, 10-10 number, city and state.

New Life Members

It is with pride that we honor the following members who have become the latest *Life Members* of Ten-Ten

You too can become a *Life Member* of 10-10
See details on page 31.

362	W7COK	Ralph F. Sims
4147	WA7KNK	Walter H. Staton
8906	W7COJ	Lois B. Sims
29469	KC4RUF	Thomas C. Rac
39051	W6MLC	Frank D. Mack
50149	K6GWC	Melvin J. Erb
68135	N3KHK	John R. Klim II
68359	W0ROB	Robert C. Baker
69087	DK4QO	Alfred Fatum

CLEAN SWEEP AWARD

We are pleased to announce an exciting new award designed to encourage participation in the 10-10 QSO Parties. To be eligible for the award, you must be a paid-up member and submit a log for each of the 5 official 10-10 QSO Parties during 1998 (Winter, Spring, Summer, Fall, and Sprint). Anyone submitting a valid log for all 5 parties will be eligible regardless of how well they placed in the contest.

Details of the award are still being worked out, but we wanted to publicize it now so that members will be sure to participate in the upcoming Phone party in February. The first awards will not be issued until early 1999. We expect to have a unique award for each year, so you will not want to miss the chance to start your collection with the first one!

STAY ACTIVE IN 10-10

CHECK YOUR ADDRESS LABEL ON PAGE 32
FOR YOUR DUES EXPIRATION DATE
RENEW TODAY IF YOUR DUES ARE DUE

10-10 AWARDS

AWARDS ISSUED THROUGH 31 May 1997

TOP TEN HONOR ROLL

Allen Mattis
N5AFV, #27571

CALL	10-10 #	CONT
WA5JDU	3017	23,800
W0RWC	518	19,400
WB1DBZ	26001	18,800
PJ2WG	27999	17,000
K5MRU	218	16,500
W4WKQ	33299	16,400
WB7NUU	17416	11,800
WA9LIC	1599	11,600
K0PV	9902	11,500
N5CUQ	40	11,400

500 BAR AWARDS

Bob Peschka
K7QXG, # 5956

VP #	CALL	10-10- #
2927	N9UFO	55967
2928	K06AX	6436
2929	N7YBX	62538
2930	KB3APL	63068
2931	KC5LTK	67896
2932	KD6BYI	63108
2933	N5PU	20414
2934	NF4W	68297
2935	WH6LU	65878
2936	NU6V	67317
2937	KR4HN	61235
2938	N6XD	18637
2939	AH6OA	64994
2940	KB8LMV	65910
2941	N6AGB	23560
2942	DJ2YE	68904

CHANGED YOUR CALL
or ADDRESS ?
NOTIFY 10-10

1000 + BAR AWARD

Allen Mattis
N5AFV, # 27571

1000 BAR

CERT #	CALL	10-10 #
1429	KB4USW	49979
1430	WD5BTY	55881
1431	WA4ETZ	57478

2500 BAR

372	WA3ELE	3168
-----	--------	------

5000 BAR

NONE

7500 BAR

32	K1WQU	2225
----	-------	------

LUCKY 13 AWARD

Bob Peschka
K7QXG, # 5956

CERT #	CALL	10-10 #
404	KB6QLC	42822
405	NU6V	67317
406	N9BSS	43315

VP AWARDS

Carl Fisher
W0HIK, #40678

VP - 100

CERT#	CALL	10-10- #
384	K6RDK	65812
385	WB0QKN	16069
386	KB8QKV	67641
387	KE4BPL	65136
388	W4WJV	11584

VP - 200

190	K4RL	1568
191	N1PDV	63955

VP - 300

115	W4KEM	41824
116	WB4FBS	48461

VP - 400

NONE

VP - 500

NONE

VP-600

26	KA7ICF	46221
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WORKED ALL CONTINENTS AWARD

Mark Taylor Murphy
KC4HIT, # 57448

CERT #	CALL	10-10 #
		NONE

COUNTY HUNTER AWARD

Hank Richroath
WA5HWI, #63313

100 COUNTIES

CERT #	CALL	10-10 #
401	N0PFY	63849
402	KT4CU	33319
403	KA4N	50768
404	KC5QCB	67897
405	WA5JDM	23630
406	K18AP	68316
407	WA8ETY	67621

200 COUNTIES

238	N1LFN	63941
239	N1WL	46677

300 COUNTIES

147	KA1LHO	55043
-----	--------	-------

400 COUNTIES

119	KA1LHO	55043
-----	--------	-------

500 COUNTIES

96	KA1HUS	35324
97	N1HAQ	53399

600 COUNTIES

NONE

700 COUNTIES

47	WB6OMH	6608
----	--------	------

800 COUNTIES

NONE

900 COUNTIES

22	WB4FBS	48461
----	--------	-------

1000 COUNTIES

NONE

COUNTRIES AWARD

Russ Gauthier
N5EJS, # 1525

25 Countries

CERT #	CALL	10-10 #
531	K0JPW	4541
532	KK5DO	65027

35 COUNTRIES

294	K0JPW	4541
-----	-------	------

45 COUNTRIES

206	K0JPW	4541
207	N8OVT	44501

(Continued on page 23)

Maturity is the ability to stand for a lot
and fall for a little

(Continued from page 22)

55 COUNTRIES

144 K0JPW 4541
145 KC5BKT 64386

OM/XYL AWARD

Pat Hibbs
KH6OE, # 28842

BASIC - 10 TEAMS

CERT# CALL 10-10 #
388 N1UHX 67133
389 N7YBX 62538
390 W9OO 9973
391 KA3WWG 56860

25 TEAMS

390 W9OO 9973

100 TEAMS

294 KC1FV 45274

WORKED ALL STATES

Scott Brackeen
AI1M, #23966

CERT # CALL 10-10 #
NONE

WORKED ALL STATE CAPITALS

Paul Johnson
N4JII, # 37708

CERT # CALL 10-10 #
NONE

WORKED ALL STATES MOBILE

DAVE BECKER
K7PRZ, #47633

CERT # CALL 10-10 #
NONE

**HAPPY NEW YEAR
TO ONE AND ALL**

WPX (PREFIX) AWARD

BILL MONTGOMERY
KB3GW, # 35517

100 PREFIX

CERT # CALL 10-10 #
NONE

200 BAR

NONE

300 BAR

NONE

CW AWARD

Lee Zalaznik
KI6OY, # 50948

CERT # CALL 10-10 #
10 N1WL 46677
11 KF5UN 36388
12 KE9WZ 49610

Candidate Bios

(continued from page 19)

Benny Wooten

Benny, KC4SDU, holds an extra class license. He lives in Boaz, Alabama, where he graduated high school before going on to Gadsden Business College. He is retired after some 30 years of retail sales and the owner of Benny's All American Furniture Company.

Benny is the CH and CM of the Eagle Watch and the Wildflowers chapters of 10-10. He can be found on 10 meters when there is propagation. He received an ARRL recognition for Public Service for helping during Hurricane Opel in 1995 and the North Alabama Severe Weather (tornadoes).

Benny says, "I would greatly appreciate your support and vote in the upcoming election for Director. I feel that from time to time we need people or members of 10-10 who are closer to the action so to speak, and who have the time to devote to the betterment of 10-10 and amateur radio.

Rex Holford

Rex Holford, K0NO is a candidate for Director. He was born and raised in Council Bluffs, Iowa. Upon graduating from high school, Rex entered the Army. He is retired from the Army and is now working for the Post Office in Council Bluffs.

He was licensed in 1978 while stationed in San Antonio, Texas. With 90 days of getting his novice license he upgraded to general. This is when he found 10-10 with the help of WA5JDU. He also found paperchasing at this time. While serving in Germany with the call DA2RX, he acted as a net control and also kept up with things going on in the States. He also obtained his college degree while in Germany.

Rex has served 10-10 in several capacities. He was the Chairman of the 1997 Convention in Council Bluffs, and has since been appointed to the Planning Committee which is in charge of the conventions. Being Chairman of the convention has given him greater insight to the workings of the organization. Rex says, "I wish to serve as a part of the fine group of members as one of your Directors. With my past experience and knowledge of the inner workings of Ten-Ten, I feel I can be of assistance in the future planning and evolvement of the best Amateur Radio Organization we have."

When you have three young boys it's hard to know who to blame if something goes wrong. One father explains how he solved this problem. "I send them all three to bed without watching TV. Then in the morning I just go after the one with the black eye."

1997 SPRINT QSO PARTY RESULTS

TOP TEN IN WORLD

CALL	QSOs	POINTS
KI7RK	252	442
AB6YQ	215	386
K6VMN	207	378
KC7QKD	209	372
LU6HSV	220	369
WB6NFO	213	364
N2EOC	190	346
WB4FBS	173	319
KA5EAV	173	309
N6XD	166	299

DX AREA - INDIVIDUAL

CALL	QSOs	POINTS
LU6HSV	220	369
LU5HE	167	273
WH6LU	112	195
WP4LNY	79	135
ZS6NB	78	122
VA3DF	21	30
VX7AAP	15	29
ON7YO	21	28

U.S. CALL AREAS 1-0

CALL	QSOs	POINTS
N1WL	15	29
N2EOC	190	346
KA3VDN	29	54
KF4MHY	128	207
WB4FBS	173	319
AB6YQ	215	386
KI7RK	252	442
KC8ENM	18	28
WD9HMD	40	68
K0DVY	142	244

CANADA

CALL	QSOs	POINTS
VA3DE	21	30

SOUTH AMERICA

CALL	QSOs	POINTS
LU6HSV	220	369

CARIBBEAN

CALL	QSOs	POINTS
WP4LNY	79	135

EUROPE

CALL	QSOs	POINTS
ON7YO	21	28

AFRICA

CALL	QSOs	POINTS
ZS6NB	78	122

PACIFIC ISLANDS

CALL	QSOs	POINTS
WH6LU	112	197

AREA 1 - INDIVIDUAL

CALL	QSOs	POINTS
N1WL	15	29
KD1R	6	11

AREA 2 - INDIVIDUAL

CALL	QSOs	POINTS
N2EOC	190	346
KB2MRI	62	112
KF5UN	53	96
N3UNF	42	77
AE2L	14	27
N2TDT	10	20
N2LQQ	7	12
NJ2DX	2	4

AREA 3 - INDIVIDUAL

CALL	QSOs	POINTS
KA3VDN	29	54
NA3H	28	51
N3TGB	27	51
KE3QH	19	38
WB3QMA	18	34
KA3AVB	14	26
KA3QOY	14	25

AREA 4 - INDIVIDUAL

CALL	QSOs	POINTS
KF4MHY	128	207
KT4VP	101	165
N2EGO	58	112
K9EHP	51	94
K4HTU	44	85
KU4PB	40	72
KQ4PK	35	57
KT4XA	10	18
K4IJK	10	17

AREA 5 - INDIVIDUAL

CALL	QSOs	POINTS
WB4FBS	173	319
N5MT	90	156
WA5BBR	63	118
WB5IIE	56	99
W5GVP	50	82
KK5DO	38	66
W5GCH	38	66
N5AFV	26	46

KC5WDM	16	29
KM5FF	16	28

AREA 6 - INDIVIDUAL

CALL	QSOs	POINTS
AB6YQ	215	386
K6VMN	207	378
WB6NFO	213	364
KA5EAV	173	309
N6XD	166	299
WB6NYM	81	153
N6TXT	73	142
AC6PX	66	122
AC6QP	631	121
WB6CZO	41	79
K6EHA	34	68
KE6RQQ	27	47
KE6GTR	23	43
KE6DSQ	20	38
WA6VLS	17	32
KF6JG	15	29
KB6DXR	12	23
KG6F	1	2

AREA 7 - INDIVIDUAL

CALL	QSOs	POINTS
KI7RK	252	442
KC7QKD	209	372
KC5AC	101	179
K7QXG	65	122
K3ESS	63	115
KB7RUQ	43	72
WB7TIR	36	69
KA7ICF	30	58
KB7ZGP	21	38
N7YBX	18	34
KB7EQW	18	32

AREA 8 - INDIVIDUAL

CALL	QSOs	POINTS
KC8ENM	18	28
N8QNP	7	13

AREA 9 - INDIVIDUAL

CALL	QSOs	POINTS
WD9HMD	40	68
KE9WZ	32	64
K9KKX	8	14

AREA 0 - INDIVIDUAL

CALL	QSOs	POINTS
K0DVY	142	244
K0JPW	73	146
KB0TUI	63	107
WB0GGO	43	71
W0ERZ	36	67

KOMYD	37	65
KOWEX	35	64
W0RTV	34	63
WA0FQK	31	59
WB0RHR	20	38
W0AKI	19	33
N0WM	15	28
KB0MZE	14	28
KB0WHY	15	27
NE0P	14	27
WB0QKN	13	26
KB0RQE	11	22
N8ZR	8	14

1997 FALL QSO PARTY RESULTS

TOP TEN IN WORLD

CALL	QSOs	POINTS
KU4W	98	11792
K4QFK	87	9570
KJ4RV	72	6804
N2EOC	66	6720
N4ZCG	74	5635
W0KFL	66	4600
KL7NL	61	4444
AD4MG	51	3402
KK5DO	52	3362
W1RFW	50	3182

DX AREA - INDIVIDUAL

CALL	QSOs	POINTS
ZL1LE	7	91

QRP - INDIVIDUAL

CALL	QSOs	POINTS
WA6VLS	10	160
N9UKX	8	112
WA0FQK	5	36
AA0LM	3	12

CLUB

CALL	QSOs	POINTS
NM5H	7	66
W5RPT	5	45

AREA 1 - INDIVIDUAL

CALL	QSOs	POINTS
W1RFW	50	3182
WA1DWS	34	928
W1MXI	20	518
KA1ULN	18	320
KC1FV	14	252
N1WL	12	240
K1IEQ	8	112
WA1DUZ	10	100
N1STE	3	18

AREA 2 - INDIVIDUAL

CALL	QSOs	POINTS
N2EOC	66	6720
KF5UN	24	946

AREA 3 - INDIVIDUAL

CALL	QSOs	POINTS
W3EHZ	43	2627
WK3P	23	798
WA3JXW	3	15

AREA 4 - INDIVIDUAL

CALL	QSOs	POINTS
KU4W	98	11792
K4QFK	87	9570

KJ4RV	72	6804
N4ZCG	74	5635
KL7NL	61	4444
AD4MG	51	3402
KE4DEV	51	2958
W4SKW	40	2312
KN4Y	37	1953
N4ERM	32	1566
AE2L	32	1377
N4EWG	26	900
KC4RSZ	21	615
N3DZC	19	612
KD4MHH	18	600
KZ3T	20	486
N4ANV	18	360
AA4PR	14	336
KC4JAN	13	260
KR4OE	12	240
WA4HMX	10	153
KN4SS	10	140
W4TBO	10	120
WB7OND	9	108
N4UGH	5	40

AREA 5 - INDIVIDUAL

CALL	QSOs	POINTS
KK5DO	52	3362
W5EFB	51	3154
WX5I	10	190
N5XYN	10	160
N5MT	7	66
NM5H	7	66
N5AFV	5	45
W5RPT	5	45
KC5VAT	2	8
AB5TQ	1	2

AREA 6 - INDIVIDUAL

CALL	QSOs	POINTS
K6QWH	63	2756
K6EHA	30	1404
AC6HF	23	924
KE6GTR	10	180
WA6VLS	10	160

AREA 7 - INDIVIDUAL

CALL	QSOs	POINTS
KB7YTJ	10	190
KI7RK	4	28

AREA 8 - INDIVIDUAL

CALL	QSOs	POINTS
N8CW	35	1568
W8JSM	20	684
W8PJY	19	540
W8LBQ	4	24

AREA 9 - INDIVIDUAL

CALL	QSOs	POINTS
W9OO	38	2484
NA9A	25	1081
KE9WZ	10	200
N9UKX	8	112
W19Z	6	66
AK9Y	6	66
WA9TWE	4	32

AREA 0 - INDIVIDUAL

CALL	QSOs	POINTS
W0KFL	66	4600
N0WM	17	403
W0RTV	16	360
N0XL	9	136
WB0GGO	9	120
WB0RHR	7	70
WA0FQK	5	36
AA0LM	3	12

CHAPTER SCORES

CHAPTER	LOGS	POINTS
POSSUM TROT	19	49577
TROTTERS & PACERS	2	7666
HOUSTON S.H.O.T.	8	6936
GATEWAY	6	5531
BATTLE ROAD	8	5430
OLD DOMINION	2	4002
STEEL CITY	5	2894
C.A.T.T.	4	2816
CITY OF LIGHTS	2	1147
GOLDEN BEAR	1	924
CHESAPEAKE BAY	1	798
PINE STATE	1	240
CHIEF SEATTLE	1	190
BAUXITE	2	162
DOWN UNDER	1	91
MOKAN	1	70
CRADLE OF LIBERTY	1	15

**DON'T FORGET TO VOTE IN
THE UPCOMING TEN-TEN
ELECTION**

Chapter Coordinator's Column

(continued from page 14)

There are several cities sharing the same name found in both states, Kansas and Minnesota. The start date is 1 January 1998 and ending on 30 April 1998. Entries must be received by 15 May 1998. You don't have to belong to both chapters to participate, but if you belong to only one, this is an excellent opportunity to join the other. Worksheets are available from either CM. To receive a copy you may upgrade, send a SASE or request via e-mail.

Mississippi Lighthouse - CH W5OXA, Ernest E. Orman, Jr., 15625 Little Joe Road, Biloxi, MS 39532-9772 E-mail: w5oxa@aol.com
CM N5LBZ, Stuart Cole, P.O. Box 2406, Gulfport, MS 39505 E-mail: n5lbz@aol.com
The net meets on the first Sunday at 0001 UTC on 28.480 MHz.

Mule Town - They will begin the James K. Polk special on 1 January 1998. If you are a member of Mule Town, please e-mail the CM at sprins@edge.net to obtain your designator. You can obtain a copy of the work sheet by pointing your web browser to: <http://www.public.usit.net/kt4rl1/pol.k.htm> Just collect the first 10 Presidents of the United States and receive a 150 point upgrade. There is no time limit.

Oceans of the World - Application fees for membership are changing to the following: U.S.A. \$3.78, Canada \$3.95, Mexico \$4.26, and DX \$5.60 U.S. currency or international money order.

Pirates of the Mississippi - The Pirates of the Mississippi Holiday Special which started 1 October 1997 continues through 31 January 1998. (Specials must be received by N9KLH no later than 15 February 1998.) The special may be submitted up to five times for partial credit during the course of the special. Good Luck!

Portland 500 - The Portland 500 Special will begin 1 January 1998 at 0000Z and ends when you have completed the project, or feel like submitting the project to the certificate manager,

N7YBX. All 10-10 paperchasers are invited to participate. The rules are as follows:

- Start 1 January 1998, 0000 Z hours. No time limit on the special.
- Use one letter from each Portland 500 member's basic number to spell Portland International Speedway, i.e. K7QXG's basic number is 16BPCL, so you could use the "p" for the "P" in Portland.
- The letter used **must be** one of first two letters that follows the basic number.
- You may use a person only once.
- No ending date, so take your time.
- Need the basic number, call, name, and date for each letter used
- You get 1 point for each letter found, or 50 points if you complete the entire special.

For more information, you may contact N7YBX at n7ybx@pcez.com or via the USPS.

Restoration Project - Monthly special starts on 1 January 1998. Find and work "**The Mechanic**" for 10 points. Submit to VE7ACM by the 15th of the following month.

Note: Correct E-mail address is cat_sncar@arrowsmith.net **not com**.

There will be a 5th Anniversary Special during 1998, but it will not start until the pending Postal Strike has been settled.

Route 66 - The new Route 66 Special (**My Route 66 Trip**) starts on 1 February 1998 and ends September 1998. Send SASE for worksheet to Larry Roth, 911 Mayfair Drive, Booneville, IL 47601.

Springbok - The holiday program will stop as of midnight GMT on 31 December 1997. As of January 1998 GMT the only holiday that will count for Springbok Chapter will be 1 March, the birthday of the Springbok Chapter. Another program will replace the holiday program at a later date.

Steamboat - is online and is accepting electron applications and upgrades. The online URL is: <http://www.nwla.com/mel/oasis.htm>

New 10-10 Award: Mike, G4BLH has come up with a new award to begin on 1 April 1998. It involves working all the counties of Great Britain. Detail may be read at the 10-10 website and a link will take you to the official worksheet.

10-10 Internet Update

by
L. B. Cebik, W4RNL

Here are a series of reminders about using the 10-10 internet system, hosted by Lehigh.EDU. Our continuing thanks to Jim Eshleman, N3VXI, our very helpful site manager who has arranged for us to use the site at no cost to the organization or its members.

1. To subscribe to TENTEN-L, send a message to this address:

LISTSERV@LEHIGH.EDU

Leave the subject line blank, or use a single letter of the alphabet. For text type this:

SUBSCRIBE TENTEN-L <firstname>
<lastname> <call>

You will receive a confirming message asking you to reply and to enter a special "cookie" code from the message you receive. Please do this, as it a. completes your registration and b. blocks out spam messages that beleaguer other e-mail lists.

That's it. When you receive your welcome message, save both a printed copy and a file copy so that you can refer to it often. It contains information on how to unsubscribe, how to postpone mail while on vacation, and how to use the many files and services in the archives.

2. To review what is in the archives, send a message to LISERSV@LEHIGH.EDU with just the text INDEX TENTEN-L-ALL. The filenames have explanatory notes attached. Review your welcome message for the ways to access files in the archives via e-mail or via ftp.

3. To obtain any of the information files listed in the index, send a message to the same address and use a "get-a-file" text:

GETTENTEN-L/<directory><filename>.<ext>
GET TENTEN-L/AWARDS GBCTY.RULES

4. If you change e-mail services and have trouble unsubscribing from the old one or have any other troubles using the e-mail system, send me a message with the problem outlined as clearly

as possible. I will then consult with Jim, and he usually knows how to fix everything. My e-mail is cebik@utk.edu

5. If you change calls, addresses, etc. you can send your changes directly to the 10-10 Data Manager at wa6poz@aol.com (Gerry's e-mail address) or to him via regular post at the address listed in several places in the News. If you send them to me, I'll simply ask you on line to send them to him.

The big end-of-year news at the e-mail and Web site is the posting of information on the new Great Britain Counties/Regions Certificate. The award starts 1 April 1998, but you can get ready by looking at the rules and the worksheet. Start at the Awards page at the Web site and follow the links. From the archives, use "get-a-file":

GET TENTEN-L AWARDS GBCTY.RULES

GET TENTEN-L/AWARDS GBCTY.WRKSHT

10-10 International truly is international. Thanks for all the hard work to Mike, G4BLH, the Manager of the award.

I hope these reminders make your 10-10 internet experiences a bit smoother. Remember: the sunspots never set on the internet.

Candidate Bios

(continued from page 23)

David Smith

Dave, K6RDK (ex WB6RDK), is a candidate for Director. Dave is a resident of San Mateo, California. He holds an advanced class license and has been a member of 10-10 since 1994. He is employed by Telecom Tech.

Dave is presently serving as Chapter Coordinator and also is responsible for the monthly updates of chapter news. In addition he is CM for the Bay Area chapter of 10-10. In addition, he is a member of ARRL.

MOBILE NOTES

BY

GENE TYREE

Well, sorry I missed getting a column into the new editor for the last issue of the 10-10 News. We at our house just got so wrapped up in the other activities that I just ran out of time. We were really on the road a fair amount of time. we made at least 2 long trips and again we tried to find someone on ten to work while operating mobile, but we just could not hear anyone call us. You see my wife Pat, KC4TBS, # 57419 and I normally carry two radios and two antenna systems, and we work each other for credit for operating in each county we drive through. Now this means that we normally always go to 28.336 to operate while operating mobile. This means that in the last 2 years I have operated in around 1500 counties on 10 meters. The real problem with this is that the band has been so bad that there has hardly been anyone there to operate with me. It would be a real surprise to be riding down the road and hear a bunch of people operating on 10 meters.

Here is my plan of attack for this situation. My wife and I are going to continue to put out our call on 28.336 as we operate mobile, while putting out counties all over the United States. As the band gets better we will begin to hear more and more people on the band, and you will see more and more activity. I have a lot of friends who operate on 20 meters mobile, and they will begin to use this frequency as the band gets better. If you are interested in working for the 10-10 county hunting award, there is no better way than this to do that. There are states where you could follow from county to county and in a day would be able to work 10 to maybe 20 new counties. Keep this in mind and every now and then put out a call on the frequency. How do you know if the band is open if you don't mke a few transmissions?

Let me tell you a good county hunting story that happened to me one time while out running the counties of North Carolina. My wife and our good friend Pat Edwards, N4UGH, # 49556, decided that we were going to run as many counties in NC as we could during a Labor Day

Weekend. There are 100 counties in NC, and we had a route planned to work around 90 of these counties if time would permit. Well, we started this trip at 5 PM Friday, and went south and east and ended up in Morehead City for the night. The next day we traveled around the northeast corner of the state and the outer banks. It was getting late in the evening Saturday, and we were getting behind time and were trying to make up a little time. I came to the county line of Nash and Halifax. Now if you look at a NC map you will find that the county line runs right through the town of Whitakers, NC. In fact the county line runs right down the railroad tracks, and boy what a mess. You see, I didn't want to have to take the time to make two runs, one for each county, instead I wanted to sit on the county line and accomplish the task in half the time. It was late in the afternoon, but still light enough to see the cars passing by, as well as up and down the tracks, so we decided to park partially on the tracks and transmit from the county line. Boy was it a popular place, and as I was operating I noticed the local police officer drive by really slow and look at me really hard. Then he came back by, and looked again. Then he came by again, and it looked like he was trying to get up enough courage to stop and ask what in the world I was doing. Meanwhile I just kept on operating while he looked at me sitting on the tracks. The officer finally got up enough nerve, or courage or something to stop and ask what I was doing. I tried to explain about county hunting, and he looked at me like, are you crazy or something. He then suggested that I park over there off the railroad tracks, to which I replied "naaaaa". I had to sit on the county line, don't you see. I need to be in both counties at one time. He then said I don't really understand this, can you help me understand a little better. I then came up with the best explanation I could think of. I told the officer not to worry this was a lot like "bass fishing", and he replied "OK, I understand that" and walked off as I continued to operate. There's not much explanation for what makes a bass fisherman tick, and I don't guess you can explain why we wanted to try and operate all 100 counties in NC in one weekend.

We put up Saturday night in Raleigh, NC, and got into the middle of the biggest in-state football rivalry of all. It was the weekend of the game

(Continued on page 29)

(Continued from page 28)

between the University of North Carolina and North Carolina State University. This meant there was no room at the inn. We like to have never found a room, and ended up staying at the Marriott and paying nearly \$100 for a room. We spent Sunday night in Boone, NC and began to go back home to Fayetteville, NC. We traveled around 1,100 miles, made around 700 QSO's and transmitted from 82 of the 100 counties in the state, all on Labor Day weekend.

I heard a few of you mobile in the ARRL 10 Meter Contest, and was really glad to have some fair band openings. Conditions were really super on Saturday and just fair on Sunday. There were a lot of operators and a lot of contacts made. It really excites me to think about how much fun we will have next year during the Ten Ten QSO parties. That would be a good time to try out some good mobile operations. Make your plans early, and send them to me and I will get them published.

Well, come ride along with me on 10 meters.

73's Gene, N4ANV, # 18712

SUNSPOTS - A REVIEW OF THE BASICS

BY

AL MATTIS, N5AFV

Sunspots are dark areas on the surface of the Sun. They were observed as early as 467BCE by the Greek philosopher Anaxagoras, and in 28 BCE by Chinese astronomers. Galileo observed sunspots in 1610 using a telescope. Sunspots are often large enough to be seen with the naked eye, but direct observation of the Sun is both painful and dangerous. For this reason, a variation of the pin hole camera has often been used to observe sunspots. When sunspots are present in larger numbers, the Sun's radiation is greater. This increase in solar radiation causes ionization in the Earth's ionosphere, and thus effects the propagation of radio waves. During times of increased sunspot activity, the Earth's ionosphere will refract higher frequency radio waves, resulting in improved propagation on the high frequency bands. The occurrence of sunspots is cyclic in nature, and both short term and long term cycles exist. Short term cycles relate to the Sun's rotation. The rotational period of the Sun is approximately 28 days. Thus an

area of sunspot activity on the solar surface faces the Earth for 14 days and is then hidden on the back side of the Sun for 14 days. The reappearance of clusters of sunspots as the Sun rotates results in short term cycles. Larger groups of sunspots usually have a longer life span, and sunspot groups have been observed to exist for as long as 100 days.

Long term solar cycles are related to the overall occurrence of sunspots. Sunspots occur in an approximate 11 year cycle. The first complete sunspot cycle observed by scientists began in 1755 and was termed Cycle 1. We are now in the early stages of Cycle 23. The first sunspots of a new cycle appear at higher latitudes near the Sun's polar regions. As the cycle progresses, the sunspots slowly move into lower latitudes near the Sun's equator. During the transition between cycles, sunspots from the old cycle are present near the solar equator, while sunspots from the new cycle are located in the Sun's polar regions. Late in Cycle 22, a group of new sunspots was observed at mid-latitude on the solar surface. Because these sunspots were not located at high latitude, there was some confusion about whether this group of sunspots was related to Cycle 23, or whether it represented a final burst of activity for Cycle 22. During Cycles 20, 21 and 22, the first symptoms of ten new cycle appeared 13 to 19 months before the solar minimum. The minimum of a solar cycle is defined by the 12 month smoothed sunspot number, and there is a six month time lag before the smoothed sunspot number can be calculated. We now know that May, 1996, marked the end of Cycle 22, and the beginning of Cycle 23.

While the solar cycle is regarded as having an 11-year period, observed solar cycles have ranged from 9 to 14 years in length. Cycle 22 was a little less than 10 years in length, and continued the trend observed since 1913 of solar cycles having a period of shorter than 11 years. Solar activity increases more rapidly than it decreases during a cycle. The average length of time from a cycle minimum to a cycle maximum is 4.3 years. However, the average length of time from a cycle maximum to a cycle minimum is 6.6 years. The solar activity related to Cycle 23 is expected to peak in late 2000 or early 2001, and Cycle 24 should begin in late 2007.

The 11-year sunspot cycle is actually part of a longer solar cycle. During a sunspot cycle maximum, the solar magnetic polarity reverses. Thus, the 11-year solar sunspot cycle represents one-half of a solar magnetic cycle. Each solar magnetic cycle consists of two sunspot cycles, with the two sunspot cycles having opposite magnetic polarity. Other solar cycles, with longer periods, are also believed to exist.

10-10 AWARD 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 Awards Managers listed below. Please send a request with a #10 (business size) envelope, stamped, self-addressed, 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.

BAR AWARDS

Work 100 10-10 members on the air and exchange call, name, location and 10-10 numbers. List these 100 numbers in numerical order, along with call sign, date of contact, name, and QTH (State or Country). The BAR Awards do not require an "official" application form, just a list as noted above. Send BAR applications with an SASE to the following BAR Managers:

BAR APPLICATIONS 100-900

Dan Morris.....112 Royal Oak Court
.....Lenoir, NC 28645

BAR APPLICATIONS 1000+

Allen Mattis, N5AFV #27571.....5314 Wigton Drive
.....Houston, TX 77096-5115

CERTIFICATE OF AWARD

A *Certificate of Award* is available when attaining the 1000, 2500, 5000 (and for each additional 2500) BARS at a cost of \$2.00 plus two first class stamps. Send your *Certificate of Award* application to the 1000+ BAR Manager. (Note: Plaques have been replaced by Certificates. Plaques are no longer available.)

INTERNATIONAL 500 OF THE WORLD

With the 500 BAR comes an Honorary VP Number, membership in **International 500 of the World**. A certificate is available for the International 500 of the World for \$1.00 plus 2 first class stamps. Once the 500 BAR is attained, you may go after the following awards:

VP BAR AWARD

Contact 100, 200, etc. 10-10 members with a VP Number and submit a list in numerical order, VP#, 10-10 #, call, date of contact, name, and QTH. See the VP Bar rules on the Tenten-I web page or send an SASE for rules to the Award Manager. Send your list, along with 2 first class stamps to:

Carl Fisher, W0HIK #40678.....5 Angelina Drive
.....Augusta, KS 67010-2262

LUCKY 13 CERTIFICATE

Dan Morris, KZ3T #41015.....112 Royal Oak Court
.....Lenoir, NC 28645

VP WORKED ALL STATES

Carl Fisher, W0HIK #406785 Angelina Drive
.....Augusta, KS 67010-2262

CONTINENTS AWARD

Mark Taylor Murphy, KC4HIT #57448.....
.....108 Old Country Lane
.....Claremont, NC 28610-9561

COUNTIES AWARD

Hank Richroath, WA5HWI #63313 ...1004 S Howeth Street
.....Gainesville, TX 76240-5904

COUNTRIES AWARD

Russ Gauthier, N5EJS #15258816 HWY 165
.....Pollack, LA 71467

CW AWARD

Lee Zalaznik, K16OY #50948334 Olivina Avenue
.....Livermore, CA 94550

MOBILE AWARD

Dave Becker, K7PRZ #47633PO Box 3346
.....Portland, OR 97208

OM/XYL AWARD

Pat Hibbs, KH6OE #28842.....4603 Glenna Way
.....Louisville, KY 40219-2814

WORKED ALL STATES AWARD

Scott Brackeen, AI1M #23966.....93 CR 3271
.....Booneville, MS 38829

WORKED ALL STATE CAPITALS

Paul Johnson, N4JII #377082311 CCC Road
.....Dickson, TN 37055-4230

WPX (PREFIX) AWARD

Bill Montgomery, KB3GW #35517PO Box 7183
.....Las Cruces, NM 88006

Attention - Mom's and Dad's

- Do you have a teenage boy or girl that has their
- ham license, and their own 10-10 number? Or
- maybe you know of a teenager of a friend that is
- a ham and has a 10-10 number. We are looking
- for teenage hams that are 10-10 members for our
- column "The Future of Amateur Radio"
-
- The NEWS would like to do a feature story about
- your teenage son, daughter or friend. Send infor-
- mation and a picture to the Editor, the address is
- on page 2 this issue of the NEWS.

Membership Information and Services

The following information is supplied to provide a ready reference on how and where to send your 10-10 dues, and where to purchase items offered for sale by 10-10.

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.

NEW MEMBERSHIPS

New member applications should be sent to the Omaha address listed below. Dues for 10-10 membership are \$10.00 per year for members with a USA ZIP code and \$13.00 per year for DX members. You may pay your dues for multiple years. A membership application is included in the **10-10 Information Manual** and in the **New Member Brochure**.

Mail new member applications with USA ZIP code to:

10-10 International Net, Inc.
Attention: New Member Application
643 N. 98th Street #142
Omaha, NE 68114-2342

Mail new member applications for all DX to:

Carol Hugentober, K8DHK #29588
DX Area Manager
4441 Andreas Avenue
Cincinnati, OH 45211-2622 USA

All correspondence regarding membership services should be addressed to:

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

DUES RENEWALS

10-10 dues are \$10.00 per year for members with a USA ZIP code and \$13.00 per year for members with a DX address. Multiple years dues may be paid with renewals.

All USA members (those with a USA ZIP code) send dues renewals to the following address:

10-10 International Net, Inc.
Attention: Dues Renewal
643 N. 98th Street #142
Omaha, NE 68114-2342

All DX members send dues renewals to

Carol Hugentober, K8DHK #29588
DX Area Manager
4441 Andreas Avenue
Cincinnati, OH 45211-2622 USA

FAMILY MEMBERSHIPS

Family Membership consists of a primary member and one or more relatives who qualify as a 10-10 member and who reside at the same location and postal address. Family Membership run concurrently with that of the primary member. Add \$3.00 for each additional Family Member for

each year. Only one copy of the **10-10 News** is mailed to the primary family member.

LIFE MEMBERSHIP

Life membership is available to USA members for \$250.00 and for DX members for \$325.00. Senior Life Membership is available for those over 65 (with proof of age) for \$85.00 US members and \$100.00 for DX members. You must be 65+ to apply for Life Membership. Family Life Membership is available for \$75.00. Family life membership ends when the regular member becomes an SK. Send all life membership applications to:

10-10 International Net, Inc.
Attention: Life Membership
643 N. 98th Street #142
Omaha, NE 68114-2342

Life memberships are available on a three year payment plan. For an application for time payment Life Membership, send a #10 SASE to the address above.

CALL/ NAME/ ADDRESS CHANGE

Send all change of call, name and address to the following address:

10-10 International Net, Inc.
Attention: Address Change
643 N. 98th Street #142
Omaha, NE 68114-2342

10-10 INFORMATION BROCHURE

The **10-10 Information Brochure**, an 8 page brochure of everything you would want to know about 10-10 is available for \$2.00 postpaid (USA or DX). Send your request, along with a return address label (no SASE required) to:

Mike Elliott, KF7ZQ #54625
10-10 Information Manager
9832 W. Gurdon Court
Boise, ID 83704-4080

SCHOLARSHIP DONATIONS

Donations to the 10-10 Scholarship Fund are requested from each member on an annual basis to help fund the three \$1000. 10-10 Scholarships. Your check should be made payable to the **10-10 Scholarship Fund**, and should be sent to the following address:

Morrie Goldman, W6EHM #4189
10-10 Scholarship Manager
21518 Marjorie Avenue
Torrance, CA 90503-6418

A *Certificate of Appreciation* will be sent to all who make a contribution to the Scholarship Fund.

10-10 STAMPS

Self-adhesive 10-10 stamps that can be used on QSL cards, correspondence and envelopes are available for \$5.00 per 144 stamps. Send your order to:

10-10 International Net, Inc.
Attention: Stamps
643 N. 98th Street #142
Omaha, NE 68114-2342

10-10 STATIC CLINGER LOGO

The 10-10 logo with a static cling backing that will cling to almost anything. This attractive 4" x 4" logo is a solid gold background with black printing. Use on notebooks, briefcase, car windows, etc. Price: 2 for \$1.00 postpaid. Order from:

10-10 International Net, Inc.
Attention: Static Clinger
643 N. 98th Street #142
Omaha, NE 68114-2342

AWARDS & CERTIFICATE GUIDE

The official Awards and Certificate Guide of 10-10, along with complete chapter information, is available for \$6.00 USA ZIP codes and \$8.00 to DX. A monthly update is also available for \$10.00 per year USA and \$12.00 DX. Send your order to:

Linda Barnes, KJ4FM #43299
310 Sequoyah Drive
Kingsport, TN 37660-3742

10-10 ROSTER

The complete 10-10 membership list is available in hard copy or on computer disk.

Hard Copy Roster - The hard copy is printed on both sides of 8-1/2" x 11" paper 3-hole punched. The roster lists 10-10 number and call. SK's are identified. It is issued once each year in January. Cost of the printed roster is \$11.00 US and \$14.00 DX postpaid. Only a limited number of copies are printed and are sold on a first come, first serve basis. Advance orders are accepted.

Roster on Disk - 10-10 offers two different Rosters-on-Disk. One, known as **XXIQ** will search for call if 10-10 number is known and for 10-10 number if call is known. **XXIQ** is available on 3.5" (1.44MB) disk. It will run on IBM compatible computers. The other 10-10 Roster-on-Disk is known as **XXIP** and is available only on 3.5" (1.44MB) disks. It is contained on 3 disks and requires DOS 3.3 or later and 16 MB of hard disk. This program will locate 10-10 number, call and will display Name, Address, City, State (or Country), membership status, expiration date, SK status and will print address labels. Rosters on DISK are published each quarter, in January, April, July and October.

Cost - Cost of **XXIQ** is \$5.00 per issue, or \$17.50 per yearly subscription US members. DX cost is \$7.00 per issue or \$25.00 per yearly subscription. Cost of **XXIP** is \$10.00 per issue US or \$13.00 DX. Roster on Disk are shipped prepaid. Order 10-10 rosters on disk from:

10-10 International Net, Inc.
Attention: Roster
643 N. 98th Street #142
Omaha, NE 68114-2342

Be sure to note which program you are ordering.

FCC FORM 610

The latest issue of the FCC Form 610 is available from 10-10 for a #10 SASE. Send your request and an SASE with one first class stamp to:

Mike Elliott, KF7ZQ #54625
Attention: FCC Form

10-10 QSO PARTY COVER SHEET

WINTER PHONE PARTY - 0000Z 7 FEB TO 2400Z 8 FEB 1998

CONTACTS	NO. OF CONTACTS	MULTIPLIER	POINTS
WITH 10-10 NUMBER (DX ONLY)		X 3	
WITH 10-10 NUMBER (NON DX ONLY)		X 2	
WITHOUT 10-10 NUMBER (NON DX AND DX)		X 1	
TOTAL QSO PARTY POINTS (SUM OF 3 LINES ABOVE)			

ENTRY IS: ☐ Individual ☐ Club ☐ QRP

Chapter Assignment (if any) : _____

Call Area or ARRL Country you operated this QSO Party from: _____

LOGS MUST BE POSTMARKED ON OR BEFORE 23 FEBRUARY 1998

SEND LOGS TO:
Trotters & Pacers Chapter
c/o John Raczek, K2LHC
22 Lake Avenue
Eatontown, NJ
07724-1608

A PHOTO COPY OF THIS
PAGE IS ACCEPTABLE

CHECK LIST

1. Proof of Membership (This page or a photo copy showing your address label OR a copy of your membership card)

NO ☐ YES ☐

2. DUPE Sheet(s) enclosed: NO ☐ YES ☐

3. Log in UTC Date/Time: NO ☐ YES ☐

4. Cover Sheet for this QSO Party: NO ☐ YES ☐

(A cover sheet for any other QSO Party is unacceptable)

**ALL CHECK ITEMS MUST BE YES AND ALL BLANKS IN THE SCORING BOX
MUST BE FILLED IN TO BE AN ACCEPTABLE LOG SUBMITTAL**

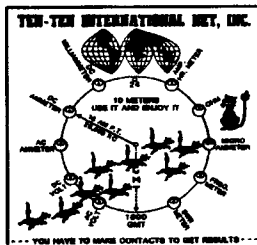
10-10 International Net, Inc.
643 N. 98th Street #142
Omaha, NE 68114-2342

TIME TO RENEW? EXPIRATION DATE
IS ON MAILING LABEL BELOW

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

FIRST CLASS

Forwarding and Address
Correction Requested



15984 WBOKIN 111997*
WALTER E FRIANT
2310 S WALLONNIE DR
MARSHFIELD WI 54449-5346

JANUARY 1998 (WINTER)