

# DXer

N O R T H E R N  
C A L I F O R N I A  
D X C L U B



## K6WR, W6CF Win ARRL Races

Brad Wyatt, K6WR and Jim Maxwell, W6CF are the new Director and Vice-Director of the ARRL Pacific Division. The Los Gatos duo easily won their races, in which over 4000 ARRL members cast ballots. The successful candidates assume their new duties on January 1. The vote totals were:

Director		Vice-Director	
Brad Wyatt, K6WR	2714	Jim Maxwell, W6CF	2372
Chuck McConnell, W6DPD	1354	Jettie Hill, W6RFF	849
		Jerry Boyd, KG6LF	844

K6WR—the current Vice-Director—campaigns vigorously division-wide. He brings to the job a high energy level and his skills as a professional manager. W6CF is the current Division representative to the DX Advisory Committee (DXAC) and is a widely-known DXer and radio historian.

Of the five candidates, four are current members of the Northern California DX Club, and the fifth—W6RFF—was a member before moving to Southern California. *The DXer* and NCDXC congratulate the winners, and thank W6DPD for his service as Director and W6RFF and KG6LF for their fine showing.

## The Editor's Keyboard...de NI6T

By the time you read this, both segments of the ARRL Sweepstakes, the CQ Worldwide CW DX Contest, and the ARRL 160-meter Contest are "history". Many NCDXC members are contesters, and many—myself included—also belong to the Northern California Contest Club, so the past five or six weekends have been a time of ritual annual craziness for a goodly number of the brethren (and sistren?) Whether you went all-out in serious, full-blown efforts, or were content to cherry-pick needed counters, I hope you all enjoyed yourselves as much as I did.

When I first got back into DXing after a lapse of more than twenty years, I did not fathom the attraction of contesting. What sane person would lock himself into a chair for up to 48 hours, estranging himself from his family and eschewing such (mentionable) social niceties as regular meals and sleep, for to pound upon keyboards and paddles, and yell into microphones? As my country totals climbed, I began to understand: one only gets to Honor Roll once, but every CQ W/W is a new beginning.

My own most memorable moments of these contests were a personal first-ever sweep in the CW S/S—the final section was logged as my dinner guests were motoring up my driveway—and the extraordinary 80-meter European opening on Saturday evening in the CQ W/W. During that opening, I frantically juggled headset, CT, telephone and packet keyboard, trying to hip friends to what was going on. Great fun!

The least memorable moment was the sight of my beloved YF standing in the shack (adjacent to our bedroom) at 1130Z during the 'phone S/S, loudly informing me of her low opinion of contests and contesters—and especially the contester she had married. I fear there shall be no more 'phone contesting from that shack.

## Inside

Minutes, Roster Changes	2,3
By George! de WA6O	3
Swifties	3
History of Telegraphy	4
Shortwave Sonnet—AF6S	4
Working Murphy...—AB6NJ	4
Colvins	4
DXer Profile—WA6AUD	5
Letters to <i>The DXer</i>	6,7
Hams Across the Water— —N6VAW	7
Latest Computer Viruses	8
NCDXC Thrashes SCDXC... —WX6M	9

## Kudos

*The DXer* congratulates the following NCDXC members for their recent noteworthy achievements.

- **Brad Wyatt, K6WR** and **Jim Maxwell, W6CF**: elected Director and Vice-Director of the ARRL Pacific Division (see story, front page)
- **Dave Barton, AF6S**: his article, *An Accurate Dip Meter Using the MFJ-249 SWR Analyzer*, appeared in the November issue of *QST*.
- **Joe Mastroianni, AA6YD**: his article, *How to Be a DXer*, appeared in the October issue of *QST*.

## Coming Events

- Livermore Swap Meet, 1st Sunday each month, Las Positas College, Livermore, 7 AM-noon
- ARRL 160-meter Contest, December 3-5
- ARRL 10-meter Contest, December 11-12
- Winterfest, January 15, Monterey Peninsula College, Monterey
- ARRL DX Contest/CW, February 19-20
- ARRL DX Contest/Phone, March 5-6
- International DX Convention, April 15-17, Visalia

P / P

N O R T H E R N  
C A L I F O R N I A  
D X C L U B

**Club Officers:**

President: George Allan, WA6O  
 Vice President: Craig Smith, N6ITW  
 Secretary: Ron Panton, W6VG  
 Treasurer: Dewey Churchill, KG6AM  
 Director: Bob Artigo, KN6J  
 Director: Jim Knochenhauer, K6ITL  
 Director: Louese Bloom, KA6ING

**DXer:**

Editor: Garry Shapiro, N16T  
 20941 Nez Perce Trail  
 Los Gatos, CA 95030  
 (or via DXPSN)

Printing, Mailing: Ron Panton, W6VG

DX Ladder: Larry Bloom, KD6XY  
 2520 Heather Lane  
 San Bruno, CA 94066  
 (or via DXPSN)

Roster Manager: Garry Shapiro, N16T

**Club Repeater, W6TTR, (147.36+)**

Trustee: Bob Vallo, W6RGG

Comm. Chairman: Ralph Hunt, AG6Q

Club simplex: 147.54 (suggested)

Thurs. Net QTR: 8 p.m. local time.

Net Manager: Ralph Hunt, AG6Q

DX News: Dave Pugatch, KI6WF

Propagation: Al Lotze, W6RQ

Contest News: Rich Hudgins, WX6M

Westlink: Craig Smith, N6ITW

Swap Shop: Ben Deovlet, W6FDU  
 933 Robin Lane  
 Campbell, CA, 95008  
 (408) 374-0372

QSL Information: Mac McHenry, W6BSY

**W6TI DX Bulletins:**

W6TI Station Trustee Bob Vallo, W6RGG, transmits DX information at 0200Z every Monday (Sunday evening local time) on both 7.016 and 14.002 MHz.

**Club address:** Box 608  
 Menlo Park, CA  
 94026-0608

The DXer is published Monthly by the Northern California DX Club and sent to all club members.

Unless otherwise noted, NCDXC permits re-use of any article in this publication—provided the DXer and the article's author are credited.

## Board of Directors Meeting

The NCDXC BoD met at the home of W6VG November 17, 1993. The meeting was called to order by President WA6O at 7:45 PM. Board members present were President George Allan, WA6O, Treasurer Dewey Churchill Jr, KG6AM, Secretary Ron Panton, W6VG and Director Jim Knochenhauer, K6ITL. Not present were Vice President Craig Smith, N6ITW, Immediate Past-President Bob Artigo, KN6J, and Director Louese Bloom, KA6ING.

- A quorum was present, so the meeting was held. The minutes of the October 13 BoD meeting were read by WA6O, and approved as read. Correspondence was noted.
  - A check for taxes was sent to the IRS per Vince Chinn request. The Board approved a check for liability insurance for the Club. The ARRL Affiliated Club form was found to have been filed during 1993.
  - Treasurer KG6AM presented a financial report. The club's financial situation was discussed. Better coordination with *The Bold Knight* ré dinner monies was suggested. An *ad hoc* committee of three will be appointed by the President to examine club financial affairs for the past two to three years.
- The next BoD meeting will be held January 19, 1994. Meeting adjourned at 9:30 PM.

## Board of Directors Special Meeting

Members of the NCDXC Board of Directors met at the home of K6ITL on 13 November to overhaul the Procedures Manual. Present were: WA6O, N6ITW, K6ITL, KG6AM, and W6VG. Absent were KN6J and KA6ING.

- The work was completed—many months earlier than scheduled. Most changes updated obsolete items and dates. Several important changes were made in more important sections, and a summary of all changes may be obtained by interested members. Printing will not take place for several months, to permit further changes and error checking.

## General Meeting

The November 12, 1993 dinner meeting of the NCDXC was held at *The Bold Knight* in Sunnyvale. After dinner, the membership was called to order at 7:42 PM by President George Allan, WA6O.

- Guests were introduced. Dave Pugatch, KI6WF, provided info on overprinting club QSLs, with examples of his experiments.
- The Christmas dinner meeting will be held at *The Bold Knight* on December 9th, (Thursday). Cost is \$25/person; send checks to Craig Smith, N6ITW, with order form showing entree preference by December 2nd. No business will be transacted at the meeting. The program will consist of a product demonstration by HRO, and a performance by the vocal group "Holiday Expressions."
- Brad Wyatt, K6WR spoke: Division election results will be released on the 19th; Monte Sereno is having hearings on towers, and is moving toward an extremely restrictive ordinance.
- Jim Maxwell, W6CF gave a talk on the evolution of telegraphy,
- There were a first reading for Charles Linn, K6IQY, and a second reading for Peter Gerba, KN6BI. Peter was voted a full member and K6ILM and KD6AZ were reinstated.

continued on next page

Continued from page 2

- WA6O read a letter from K6QKN thanking the club for bestowing an Honorary Life Membership for his years of work as CPA for the NCDXC. George also read a letter from NCDXF President Eric Edberg, W6DU, thanking the Club and the DX Convention for its donation in Jim Rafferty's name. A plaque was sent to Shirley Rafferty, which will hang in the Anaheim store.
- Craig Smith, N6ITW requested a volunteer to share secretarial duties. Garry Shapiro, NI6T, pled for contributions to The DXer. The DXer deadline remains the 20th of each month.

Meeting adjourned at 930 PM.



## By George! de WA6O

The Board of Directors met on Saturday, November 13th to revise the Procedures Manual. Changes made were mostly of a "housekeeping" nature, but they were changes that needed to be made. We did not decide how to disseminate these to the membership, but will probably deal with that issue at our next BoD meeting, in January.

At our last BoD meeting, in November, I shared my discomfort with not having a budget to guide us through the year. The danger is that we might spend the Club's funds without knowing either from where the money will come or what lies ahead of us. As a result, I am insisting that an audit of club expenditures for the past two years be conducted. This will give us some idea of what it costs to operate the Club on an annual basis.

Why two years? Because the Club's budget cycle actually spans two years, due to our commitment to host the International DX Convention every other year. As a result, we need to keep "seed" money on hand, and any income from the convention has to last until the next one, two years later. An audit will allow us to prepare a budget. In turn, a budget will allow us to make more prudent and intelligent decisions about allocation of Club funds.

We all need to understand that the Club does not have unlimited funds!

Nevertheless, we have allocated expenditures for door prizes and entertainment for the Holiday Dinner, which promises to help make this event a very festive occasion. If you have not yet bought your ticket, please contact Craig Smith, N6ITW, for a last-minute reservation. Due to the late notice accompanying this newsletter, we will accommodate as many late reservations as possible.

While writing this, I learned that Brad Wyatt, K6WR, and Jim Maxwell, W6CF, were successful in their bids to become the ARRL Pacific Division Director and Vice Director, respectively. Congratulations to both men from the NCDXC!

On behalf of myself and the Board of Directors, I wish you all a joyous Holiday Season. May your cup be filled with laughter and may you enjoy good health with prosperity in the New Year.

73 de George Allan, WA6O

## Food for Thought

*This item was excerpted from an Ohio ARRL Section news release on a ham newsletter contest.*

The judges were experienced newsletter publishing experts who are not hams. Their most important judging criterion was the number of members supplying information to the newsletter, but design, style, and grammar also counted in the scoring.

The judges stated that a club's newsletter is often its lifeline, since only a minor percentage of the membership attends meetings, on average. To fulfill its role, a newsletter must reflect all the club's activities, not just the selected views of a few or of one editor—as too often happens, they said.



## Roster Changes

### Reinstatements:

Elliott Pisor, K6ILM (E)  
450 Liberty St.  
San Francisco, CA 94114  
H: (415) 282-7310  
W: (415) 763-4800

Dave Bottom, KD6AZ (E)  
8620 W. Fair Oaks Road  
Tracy, CA 95376  
H: (209) 832-2488  
W: (415) 683-4693

### Address Change

Brian Kotzian, KE6WL (E)  
2917 Bay Village Circle  
Santa Rosa, CA 95403

### New Member:

Peter Gerba, KN6BI (A)  
P.O. Box 77011  
San Francisco, CA 94107  
H: (415) 864-8497  
W: (415) 864-3165

### Phone Number Change:

Paul Hernandez, N4QJ (E)  
W: (408) 428-5622

## Treasurer's Report

Bank of America Checking

1 July 93	Beginning Balance	\$ 117.86
31 Oct 93	Ending Balance	\$3629.53

—KG6AM

## Swifties

"I can't send 'SOS' anymore; the transmitter is broken," Tom said remorselessly.

"Hold this cable," Tom said coaxingly.

"Okay, class, who knows what current times voltage is?" Tom asked powerfully.

"I tightened down all the little screws, because they were loose," Tom said tunelessly.

"This is the name I use on CW," Tom said dashingly.

from the October '93 IBM ARC (Boca Raton, Florida) "WB4QNX"—Neal Osborn, N4PYB, Editor (and club president)

# The History of Telegraphy Working Murphy...

Garry Shapiro, NI6T

Members who attended the November meeting were treated to Jim Maxwell, W6CF speaking on a subject near and dear to his heart: telegraphy.

Jim presented "The History of Telegraphy" from pre-electric systems through CW. Included was a recording—originally made on an Edison wax cylinder—of a large WWI-era spark transmitter operated by a German company on Long Island during the early years of World War I. I am sure most of us younger members had not heard that sound before!

The U.S. had not yet entered the war, but the Germans were suspected of using its new high-speed technology to relay sensitive material to Germany. By recording the transmissions on wax and playing them back, the allegations were found to be true, and the station was closed down.

Jim offered other anecdotes of telegraphic history, including the derivation of the term "CW" itself, pointing out that damped-wave (spark) and continuous-wave (CW) systems competed after WWI until the eventual triumph of CW. Nonetheless, spark survived in some areas, particularly foreign commercial shipboard operation. Our own W6TSQ operated spark at sea in the 1930's!



Jim, W6CF boogies during his talk. AF6S photo

*This note was relayed via Internet to KZAH and WA6AUE and is undedited—ed.*

I try to put Surinam, PZ on the air in the CQ WW CW Contest. Plan to do SO/AB using PZ5JR. QSL route K3BYV.

Hopefully power stays on and amplifier keeps working, it wasn't so in Guyana. Georgetown's power company's management was fired on Wednesday before the contest, boat which brings the fuel for Georgetown's generator sank on Friday and amplifier's vacuum relay broke 9 hrs after the beginning. Power went off on Sunday 10 am local time and came back after the contest. Neighbor's generator was not very reliable, at the times voltage was 170V instead of what it should have been, 220 V.

Worked MURPHY on all 6 bands.

It just can't get any worse than that.

See you on the bands,

—Marko, AB6NJ/OH6DO

## Colvins Affected by S&L Scam

Lloyd and Iris Colvin, W6KG and W6QL, have curtailed their plans for an international trip in 1994 because of the setback they suffered in the bond market. Lloyd commented, "We have found a really solid 1972 Buick Electra 225, which I have nearly finished restoring. You may also be interested in our planned county-hunting expedition, starting later this year. Our goal is to put at least 1500 counties on the air before the end of the year and to work WAS from as many of them as possible."

QSL to YASME

*from The Glad Harris DX Bulletin, Special Hamvention Edition—an anonymous produced flyer that was passed out at the Dayton Hamvention.*

### A Shortwave Sonnet

Dave Barton, AF6S

Connecting all the world, the shortwave bands  
Curve from the sky's high layers, F and E,  
To tread horizon's are o'er many lands,  
Vaulting peaks and grazing waves at sea,  
Leaping Babeled barriers, too, of tongue,  
While bridging living pioneers of spark  
And newly licensed, fresh, and ardent young,  
Now boarding hamdom's lifelong journey  
ark,

Spark or AMTOR, shortwave signals  
race,

Needing nary optics circuitteer,  
Nor satellite rounding far out into space,  
But only Sol's hot breath on atmosphere,  
Sole heirs today of Samuel F. B. Morse,  
In play, hams ply his multi-tongued discourse.

## DXer Bulletins Needed

The following issues of The DXer are needed for the NCDXC archives.

1953 – all

1954 – all

1955 – all except February

1959 – November, December

1960 – all except February, September, November, December

1985 – January, August through December

1986 – January through July

1988 – October



**DXer Profile**

# Who Is This Sam?

*Hugh Cassidy, WA6AUD*

*Breathes there a DXer with mind so dead,  
Who never to himself has said:  
Is QST but TSQ when backward read?*

Often the question has been asked: can he be for real? And some have even said that he cannot be. The speculation is that that everlasting—even enduring—voice on the air is nothing but “Charlie” in full, hi-fi modulation. Really! No clipping at all.

Sam Canter, W6TSQ, lives high on the ridge in Mill Valley. Deep in a thick grove of redwood trees, the occasional pilgrim finding the way to his door will ask: “How the hell do you get out from this underbrush?” And Sam will just give his Mona Lisa smile and say: “Expertise and Technique. And a lot of Practice! A lot of Practice.” One must always use capitals when speaking of the qualities in the annointed ones.

And practice he does. Early risers—those rising hours before dawn—will find him working the Far East on forty. In the mid-day, after what he says is his morning nap, he will be working the commute traffic in Europe. When a new or rare one shows, Sam is waiting. All this feeds the thinking that this one cannot possibly be for real. It must be someone signing W6TSQ and flying by wire, like “Charlie”, fully automated.

Sam was born back in far Manhattan during the first Taft administration. His early home was not too far from Hell’s Kitchen over on the east side. In his early years when headed for PS184 clutching his books and homework close to his bosom, Sam was struck by a spent bullet from one of the local neighborhood shoot-outs. Keep in mind that this was the era of Dutch Schultz, Mad Dog Coll and Legs Diamond and other such “boys”. But Sam did survive: he kept his head down.

Later, Sam attended Clinton High School in Manhattan. Being an energetic type and living near the garment district,

he got a part-time job pushing those racks of clothes from one shop to another. Then a friend invited Sam to drop by his home to see his amateur radio station. One look at that breadboard layout and Sam was on his way to his life’s work. Thus did Sam learn of radio; after all, it had not been many years since Guglielmo Marconi had succeeded in getting his big DX signal across the Atlantic, from Ireland to Newfoundland.

A possible problem in relating that incident is that some of those who have yet to attain the annointed state of “old timer” will ask: “what is a breadboard?” As Sam has said: “if you have to ask the question, you won’t understand the answer.” Thus, those not in the know will have to languish in the outer darkness, but only until they become “deserving”, a term often applied to DXers and other noble types.

Sam was not quite in on the creation of radio, but he was not far behind. In his early years he went to sea, beating a path to Puerto Rico on a banana boat. Sam was the shipboard radioman. It was a great life, even better in those days before air conditioning. Anyone who has spent a summer in Florida may get the idea. Down in the Antilles it was even better.

Eventually he landed on a ship headed for the west coast. His arrival in California was marked by parades, speeches, public gatherings and big newspaper headlines. Naturally, Sam came under the Golden Gate Bridge the day it opened. Only later did he learn that those crowds leaning over the rail were not cheering his arrival but something else, something both trivial and incidental. Sam is still not firm on the topic but has grown more mellow with the years. He accepts, more or less.

On the west coast, Sam still stuck close to the salt water, going to Bristol Bay in Alaska a number of summers with the salmon fleet. It may be hard to recall, and there are possibly even those who do not

know about that annual migration, but back between WWI and WWII it was big. Richardson Bay, off Sausalito, would have a winter gathering of square-riggers: the Salmon Fleet waiting for the summer run. And each year a fleet of vessels would sail for Alaska, carrying the cannery workers and equipment for the summer catch. In the fall they would come back loaded, Sam among them. But the Jack London scenario palled and Sam turned to other fields.

Before WWII, he worked in emergency communications. When the war broke out suddenly one December Sunday morning, guess where Sam headed! To the U.S Marines, the salt water crowd. Of course!

Upon his arrival in San Diego for boot training, he found that he was in the right place. There was Sam sitting on his bunk in the recruit barracks and who came dragging his duffle bags down the aisle but Tyrone Power. What did Sam say to him? “What the hell are you doing here?” Sam still has the right word at the right time. He even had it back a half-century ago. But Sam is still trying to figure out why Tyrone got his photo in the papers more than Sam did. It probably was nothing but pull! Nothing else.

Sam ended up his tour as a master sergeant. Knowing a bit about the current state of the art where radio was concerned did not hurt one bit. While Sam had come to California as a latter-day pilgrim via the Isthmus of Panama, he had no intention of going back to the old-country home in the boroughs of New York. Northern California was the place, and there he has stayed! When the Air Force ended WWII with two mighty blasts in the Pacific, Sam returned to the Bay Area. He has been there since, sometimes living on the Peninsula, sometimes in Marin.

He has been in Marin the longest he has stayed in one place in his life. He lives

**continued on page 9**

## Letters to The DXer

### (Much) More on "Charlie"

*There were quite a few responses to WB6WKM's Opinion piece on "Charlie".*

I like Charlie's announcements, but was one of those who advocated limiting them to Northern California postings. Although I find some too ordinary, I accept that more-experienced DXers have to put up with some of that. Also, with only local postings, I have been able to hear most of the posted announcements.

To address Dick's questions:

1. It is not the responsibility of the NCDXC to train would-be DXers and I cannot see how "Charlie" supposedly does this. However, it never hurts to lend a hand to a new DXer—former club member (and now silent key) W6ISI helped me work a YA in 1972 before I ever heard of the NCDXC.

2. Charlie may find some DX for you, but you still have to work it. This means you still must develop operating skills.

What survey did Dick read that said half of club members keep the repeater turned off because of "Charlie"? Everyone with whom I have spoken who doesn't listen to the repeater keeps it off either because they can't stand certain people ragchewing all the time or they use packet to get their announcements. The reason there are so few "live" announcements is because most people are on packet. Getting rid of "Charlie" will not change that. On the contrary, no "Charlie" means no DX announcements at all, because the remaining W6TI listeners will be forced to go to packet if they want any DX information. Packet-using club members are not going to start listening to W6TI just because "Charlie" is turned off! The "damage" to W6TI was done by packet, long before "Charlie" arrived.

On 2m, I scan between W6TI and a simplex frequency. I don't want to have any unnecessary ragchewing on the repeater because my radio then spends most of its time stopped. When I am out of the shack and "Charlie" comes on with an announcement, my ears perk up, the TV goes to MUTE and I carefully listen

for the DX. Ragchewing drives me to turn off the repeater!

I'm in favor of more "live" announcements on W6TI, but I'm not in favor of eliminating "Charlie". I like him just the way he is—twice-repeating locally heard DX.

Leave the poor guy alone!

—Chuck Vaughn, AA6G

Just about the time you're talking to a friend about some important ham stuff, along comes someone who—without waiting—butts in with some unrelated announcements—usually on a subject of little or no interest to you.

You guessed it! I'm talking about "Charlie" (that dummy)! I agree with WB6WKM's opinion—let's have "Charlie" only announce the 20 most-needed countries.

—Ron Rasmussen, NG6X

I have found the DX announcements by "Charlie" to be very useful. Yes, I do connect directly to the PacketCluster™ in my shack and—recently—in the house, as well. Where "Charlie" is most useful is when I am outside working, or driving around doing errands. When I hear an announcement, I can decide whether it is worth heading back to the ham shack.

Dick seems to have forgotten why the "experiment" with "Charlie" occurred in the first place. The demise of W6TI began with the failed repeater expansion into the Santa Rosa and Sacramento areas. This led to the establishment of the DX Packet Spotting Network in Northern California. Soon, active DXers abandoned voice DX spotting for packet spotting. The few remaining users of W6TI bemoaned the fact that there were no DX announcements being made; soon thereafter, "Charlie" was installed.

I agree with Dick that DX announcements from outside the local area are a real pain. These are now filtered out. Anyone who monitors both the DXPSN and W6TI knows that the 6m DX announcements are not repeated by "Charlie." It has always been possible to filter "Charlie"'s announcements by band/mode/country. The announce-

ment of a G on 20m may not be interesting, but how about on 160 or 80m? What is needed is a "needs" database (the 100 Most Wanted from *The DX Magazine* survey?) and someone to enter the data into the DXPSN for "Charlie".

Let's not shut "Charlie" off, but make him the useful tool that was originally intended. My vote is to keep "Charlie" on W6TI.

—Steve Lund, WA8LLY

When I moved from Arizona to Northern California more than 10 years ago, I was excited to encounter what was then one of the world's best and friendliest DX clubs. My first evening in the Bay Area, I scanned the local repeaters, heard mention of some DXpedition and was immediately welcomed to the conversation by Steve, KR6O. Invitations to visit his QTH and an NCDXC meeting soon followed. I was pleased subsequently to be accepted to membership.

Our local DX club in Phoenix—the Central Arizona DX Association—had been a joy, its small but active membership bringing life to our repeater with DX callouts and just plain ragchewing about DX.

Initially, it was the same here: then came a problem with jammers, so we added PL. This only caused the jammers to alter their methods and prevented call-ins by visiting DXers. Other individuals then started "policing" W6TI with "this repeater is for DX callouts only; Please QSY..." Many of the regulars—the people that make a club interesting—either just listened or drifted away entirely.

Eventually, I went out and invested in a packet setup so I could both see and make announcements. The short comments occasionally heard are like a muted version of the old W6TI.

Today, the repeater is mostly silent except for "Charlie": a name most appropriately bestowed by W6TSQ, who—God bless him—is still one of those few who ignores the chilly atmosphere on W6TI to share an anecdote or greeting.

Continued on page 7

## Letters to The DXer

Continued from page 5

When "Charlie" first came to life he was a bit rude, stepping on whoever was talking (but hey! we're DXers and used to that!) but the locally generated announcements were helpful and added to the country count of many. With the linking of other clusters as far away as Europe, he became a downright pain in the butt! Thankfully, the remote spots now appear to have been filtered out.

Those who contribute to and operate the packet cluster certainly have the right to do so as they choose. Similarly, the membership of NCDXC has the right to control the destiny of W6TI.

The BoD should consider the following action list to restore the NCDXC to its former friendliness and glory:

- Remove the PL tone. It does not prevent jamming but it does prevent visiting DXers from "stopping by".
- Encourage friendly chatter concerning DX and club members!

- Remove "Charlie" or limit announcements to "better grade" DX (perhaps the 100 most-wanted) and those stations posted by a local DXer.

Let's restore the NCDXC to a friendly group of communicators who enhance each others' experience of the world's greatest hobby.

—Al Koblinski, W7XA

### Those Italian DXers

Here's a bit of news from The Eternal City.

Recently I visited a well-known ham here in Roma. After showing me his 100-foot towers, he ushered me into his well-equipped station and proudly pointed to an ARRL DX Contest plaque, awarded for a single-band, single-operator effort

When I admired it and congratulated him for his great achievement, he modestly assured me that it had not been so difficult. Another well-known DXer had done all the computer logging for him during the

contest, and the 16 kW linear had performed flawlessly throughout the contest weekend! (Legal power here in Italy is 300 W *input*.) As I contemplated those revelations, he said to me: "*amico mio*, this is Italy!"

Operation from HV3SJ is usually (although not always) during daytime hours on weekends. Recent satellite operation was very successful. The 20m quad is still broken, so 15 and 17m QSO's fill the logs (with a few on 10, 30, 40, 80 and 160m). Unfortunately, when "PSE QRX EU DX PSE DX" is sent—especially on CW—on many occasions all that is heard are protest carriers of S9 strength.

HV4NAC is active from the extraterritorial zone of the Pontifical North American College (located a half-mile southeast of Saint Peter's Basilica.)

QSL's for HV3SJ go to Pino, IØDUD and cards for HV4NAC go to Francesco, IKØFVC.

—Happy Scott Martin, W7SW/IØ



## Hams Across the Water

Marilyn Bagshaw, N6VAW

In 1990—when I learned DX was a necessary part of life—I answered a CW CQ from 9V1XR in a World Wide DX Contest, as I did not then have a QSL from Singapore. When N6VAW was acknowledged, I returned with "RST 5NN BK."

That didn't work! This guy wanted to rag chew! He came back with "I'm not in the contest, my name is Alex...my rig is...my antenna is...WX is...temp is...I work for..." I was horrified! I was new at DX and slow on CW, and, even worse, I was using Rich's (WB6UDS) station and he wasn't even home to bail me out!

After an intense 20 minute QSO, Alex suggested QSYing to SSB. I knew I would surely perish! Rich's shack has two stations: one for CW and one for SSB. Alex's request meant switching rigs, tuners, amplifiers and switching the antenna! I would rather have been handed the stick of a Boeing 707 and been asked to land it!

I asked Alex to stand by while I found a clear frequency, always a good excuse to buy time to figure things out. I accomplished the necessary technical adjustments without blowing up the station, or at least well enough that Rich did not detect any damage! When I heard Alex's voice for the first time, I shed tears of joy.

QSL cards and letters were exchanged for three years: I had found a pen pal in a State/City/Island I had visited in 1987. We compared notes on changes to the cleanest, most beautiful city in Malaysia. In early October, I received a letter from Alex: he and his XYL, Jane, would arrive in San Diego on October 15 (staying with another ham), and would be in our country for almost four weeks!

I posted a letter of welcome to Singapore hoping he would receive it before his departure, which he did. When I returned home from work one evening I heard

Alex's voice on my answering machine. "Marilyn, this is your Singaporean friend, Alex. We will be arriving in your city on November 3rd and will call you again." Rich and I met Alex and Jane at their hotel that and shared our local wonders with them.

Alex contacted Frank, K6OVV, from San Francisco on 2 meters—exciting for Alex since amateurs cannot use 2 meter HT's in Singapore. We learned there are only 100 hams in Singapore. Radio communication is not encouraged and equipment is strictly regulated. Regular auto inspections are mandatory, and special attention is paid to radio equipment. Alex pays \$180 a year to have an antenna on the building of his apartment!

Alex operated from my station and made two contacts using my call; his US contacts were surprised to learn they were in QSO with 9V1XR!



# The Latest Computer Viruses

*Here are some computer viruses to be aware of. And remember to practice safe computing; put a write-protect tab on that diskette, before you insert it into the slot!*

**Oprah Winfrey Virus:** Your 200 MB drive suddenly shrinks to 80 MB, then slowly expands back to 200.

**AT&T Virus:** Every three minutes it tells you what great service you are getting.

**MCI Virus:** Every three minutes it reminds you that you're paying too much for the AT&T virus.

**Paul Revere Virus:** This revolutionary virus doesn't horse around. It warns of impending hard-disk attack—once if by LAN, twice if by C.

**Politically Correct Virus:** Refers to itself not as a virus, but as an "electronic micro-organism."

**Ross Perot Virus:** Activates every component in your system, just before the whole thing quits.

**Mario Cuomo Virus:** Burps, gurgles, and talks a good line; but in the end, your computer refuses to run.

**Ted Turner Virus:** Colorizes your monochrome monitor.

**Arnold Schwarzenegger Virus:** Terminates and stays resident. You know it'll be back.

**Government Economist Virus:** Nothing works, but all your diagnostic software says everything is fine.

**New World Order Virus:** harmless, but it makes a lot of people mad just thinking about it.

**Federal Bureaucrat Virus:** Divides your hard disk into hundreds of little units, each of which does practically nothing, but all of which claim to be the most important part of the system.

**Gallup Virus:** Sixty percent of the PCs infected will lose 38 percent of their data 14 percent of the time (plus or minus a 3.5-percent margin of error).

**Texas Virus:** Makes sure that it's bigger than any other contiguous file.

**Adam and Eve Virus:** Takes thousands of bytes out of your Macintosh Apple.

**Michael Jackson Virus:** Hard to identify because it constantly alters its appearance. This virus won't harm your PC, but keep it away from children and struggling dentists who would rather be screenwriters.

**Congressional Virus:** The computer locks up, the screen splits, and messages appear on each half blaming the other side for the problem.

**Airline Virus:** If you're in Dallas, it sends your data to Singapore.

**Oedipus Virus:** Your computer wants to marry its own motherboard.

**PBS Virus:** Stops whatever program is running on your PC every few minutes to ask you for money.

**NBC "Dateline" Virus:** Your computer stages a hard-drive crash to get you to pay more attention to it.

**Elvis Virus:** Your computer gets fat, slow, and lazy—then self destructs, only to resurface at shopping malls and service stations across rural America.

**Ollie North Virus:** Turns your printer into a document shredder.

**Nike Virus:** Just Does It!

**Sears Virus:** You don't get your data back unless you buy new cables, a power supply, and a set of shocks.

**Jimmy Hoffa Virus:** Nobody can find it.

**Congressional Virus:** Runs every program on the disk simultaneously, but doesn't allow you to accomplish anything.

**Kevoorkian Virus:** Enables your computer to pull its own plug.

**Imelda Marcos Virus:** Sings you a song (slightly off key) on boot-up, then subtracts money from your Quicken account and spends it purchasing expensive shoes through Prodigy.

**Star Trek Virus:** Invades your system in places no virus has gone before.

**Health Care Virus:** Tests your system, finds nothing wrong, then sends you a bill for \$4,500.

**George Bush Virus:** Starts by stating, "Read my test ... no new files!" Proceeds to fill all free space on your hard drive with new files, then blames it on the Congress Virus.

**Bill Clinton Virus:** Uses up all of your printer paper enacting new faxes.

**Bill Clinton Virus II:** Invalidates all data in your computer, retroactive to the day you bought it.

**Congressional Virus III:** Never met a spending program it didn't like.

**Cleveland Indians Virus:** Makes your 486/50 MHz machine perform like a 286/AT

**Chicago Cubs Virus:** Your PC makes frequent mistakes and comes in last in the reviews, but you love it anyway.





# Who Is This Sam?

continued from page 5

high on the slope of Mount Tamalpais, a place where the summer fogs will cascade over the ridge and down to the bay in a tremendous wall of moisture. Long before Sam arrived, the area was marked by the Vedantas as a "power area." Thinking about it now, one might easily believe that the Vedantas knew something and that Sam was right when he said, long ago: "This is the spot!"

His entry into the NCDXC is a day celebrated in many parts of the world—it was Bastille Day in 1972. Sam spent the post-war years working for the Sixth Army at the Presidio of San Francisco. After he left a decade or two ago, the place went downhill and currently is being slated for closure. Sam was missed!

For Sam these latter days are full: forty CW in the middle of the night and in the

dark hours before the dawn, and sometimes even eighty when the cycle is right. Twenty, fifteen and ten in midday, with two meters going most all the time. In between he tries a bit of the Sport Channel to see how the athletic types are doing, but most of his day is spent with amateur radio. He knows no other life: he doesn't even want to hear that there might be one.

Would you think that, after all this time, Sam might be weary of tuning the bands and talking with his friends around the world, every day and almost all day? Forget it! Last year Sam bought a new Kenwood rig. Was the old one giving him trouble? Not at all! The new rig is on the shelf, just in case the regular one falters even a bit. Sam is set up so that he need not be off the air longer than fifteen minutes. And even that might be too long for his thinking.

Now anyone who has been around this long has to know some big DXers, right? And if you were to ask Sam to name just one that he has long admired, he will tell you it is K6AHJ! You might have to think a bit, because to some that call may not be easily recognized. Try W6RJ and you will be closer. Bob changed with the years but Sam still thinks he is the best DXer that ever came across Sam's bridge.

When Sam sallies forth occasionally to a Tuesday luncheon, what name will get his attention? You got it! He does yet long for those long-gone days when he would arrive for the Tuesday luncheons with a bag of bagels and a half-pound of cream cheese from far-out Geary Street. But he still remembers his friends.

There it is. Maybe he *does* sound like "Charlie" at times (this being when he has just awakened.) But Sam is for real. You bet! And with the emphasis on CW.



## ARRL DX Contest Results

# NCDXC Thrashes SCDXC...or Did We?

Rich Hudgins, WX6M

The following 1993 ARRL DX Contest results have been gleaned from the October *QST* and list the winners of Club awards by entry class. The total for all submitted NCDXC entries was 12,191,199 points. SCDXC entries totalled 7,435,362, and we even narrowly exceeded the SCCC score of 12,136,410. Thanks to all Club members who sent in a score and participated in the overwhelming defeat of the SCDXC. Thanks also to Bob, N6IP, who compiled the score and submitted it to ARRL.

*In fairness, we should note that, with 400 members, NCDXC is 1.6 times larger than SCDXC (150 members) and SCCC (90 members) combined.—NI6T*

### Marathon Results

Mixed	CW	SSB
W6BIP 204	K6MA 176	no entries
WB6CUA 194	W6WB 150	
N6AN 142	W6DU 109	

### NCDXC Awards

	Phone	CW
SO All Band	W6REC	W6BIP
Single Band 10	no entry	no entry
15	W6QHS	W6BSY
20	no entry	no entry
40	N6RO	no entry
80	W6RJ	W6RJ
160	no entry	no entry
QRP	no entry	no entry
SO Assisted	N3AHA	N3AHA
Multi/Single	W6OAT, W6RGG	KG6GF, AA6Z, WA6HAT
Multi/2 Xmtr	no entry	no entry
Unlimited	no entry	no entry
800K Pt. Award	N3AHA	KG6GF, rcvd higher award
800K Combined Point Award	no qualifier	no qualifier

CALL	HONOR ROLL			DX TOTALS				DX BAND TOTALS					OTHER BANDS				
	MIX	PH.	CW.	MIX	PH.	CW.	RTY	10m	15m	20m	40m	80m	160m	06m	12m	17m	30m
W6BSY	327	327		373	367												
W6KH	327			370				130	159	327	138	115		35			
W6ISQ	327	327	327	366	359	334		257	250	250	262	179			43	67	43
K6MA	327	326	325	360	348	331		260	270	301	231	131		170	205	115	
K6PU	327	327	317	359	349	325		200	200	300	200	100					
K5YY	327	327	326	356	353	333		168	231	346	201	272	166	42			
W6CF	327			355	294	185		204	239	306	178	138					
W6OAT	327		323	353	332	343		275	316	340	284	216					
W4RIM	327	327		348	348												
K6KM	327	327		347	347												
W6XP	327	327		347	347												
K6RK	327	321	321	344	337	326		100	100	100	100	100	103				
N6JV	327		327	341	326	334		270	252	302	259	210	84		156	185	156
WB6CUA	327	326	319	338	334	324		100	100	100	100	96					
N6ST	327			335	313	275		209	244	307	149	84	2		4	1	1
WX6M	327	327		334	334	155		174	172	216	133	112	17				
WA6SLO	327	327		331	331			303	317	331	231	232	7	18	172	139	1
W6ZM	326	326		366	361			149	157	322	101	120					
W6DU	326		318	347	310	334		231	267	322	166	114					
K6LQA	326			347													
AJ6V	326			335	238	275		153	177	268	139	62	6				
WG6P	326	326		330	330	324	173	230	266	330	226	128	14		38	91	30
W6ZKM	325	325		352	352			268	261	290	169	141					
WA6AHF	325	325		347	347		254	100	100	100	100	100					
W6LQC	325	325		344	344	89		100	100	100	62	93					
K1ER	324	319		342	336	264		209	246	334	188	113	1		82	129	74
W6NPY	324			339	200	300		100	100	100	100	100					
W6FAH	324	321		324	321	288		244	276	314	217	155					
K6RQ	323			362				120	197	310	130	90	5				
W6MUR	323			361													
K6DT	323	322	322	352	336	328		295	315	349	253	162					
W6BJH	323			349	192	313		120	117	187	117	100					
N7NG	323			348				244	273	315	244	163					
W6RJ	323			348				100	100	100	100	100					
K6OZL	323			343				100	100	100	100	100					
W6TC	323		320	339		326		252	231	273	263	175	1		110	103	89
K6XT	323			339		160		100	100	100	100	100					120
K5GOE	323			338	329			211	100	100	100	96					
K6XJ	323	323		338	338												
W6GO	323	323	323	336	336	328		290	302	328	291	222	60				
K6LM	323	322	322	331	330	325		100	100	100	100	100	6				
W6OSP	323			328													
W6TEX	323		296	327		301	127	100	100	100	100	100					
NB6L	323			326	267	242		138	172	250	123	115					
W6HXW		323			323												
K6WR	322	322		354	354			100	100	100	100	100					
W6KOE		322			341												
K6KLY	322	322		330	330	16		231	212	226	130	110		70	2		
W6RGG	321	321		349	346												
W6JD	321			338	237	317		109	166	329	195	46					
WB6ZUC	321		321	335	1	327		189	258	316	169	111					
W6NLG	321	319		326	324	100		100	100	100	26	6					
AG6Q	320			326	312	228		179	226	309	169	143					
W6DPD	320	320		325	325												
KI6WF	320	320		324	324	135		258	295	322	176	114	4		26	59	2
KX6C	319																
K6WD	319			333		281		100	100	100	100	65					
NQ6X	319	319		323	321			100	100	100	100	100					
KG6AM	319			321	310	227		195	252	277	57	29					
W6PHE	318			350	336												
N6AN	318			339	288	287		281	281	307	177	118		68	100	41	
AF6S	318			324		311		273	297	311	230	149		142	177	113	
W8MEP	318			321		141		100	100	100	50	35	1				
WB6WKM	317			328	100	100		100	100	100	100	65					
NI6T	317			322	310	303	123	256	284	307	270	195	21		208	238	206
N6HR	316			337				100	100	100	100	100					56
K6DC	315			359													
W6QL	315			337	263	69		114	161	201	111	103					

CALL	HONOR ROLL			DX TOTALS				DX BAND TOTALS					OTHER BANDS				
	MIX	PH.	CW.	MIX	PH.	CW.	RTY	10m	15m	20m	40m	80m	160m	06m	12m	17m	30m
DJ6RX	315			336				215	271	303	227	185					
6JZU	315			331				75	115	255	22	12					
6KG	314			352	290	108		161	193	210	169	105					
K6OJO	312	311		328	327			187	250	309	17	12					
K6HHD	312			316	311	23		209	176	223	43	40					
W6TSQ				363				288	300	300	327	258					
W6CTL				341	4	297		223	194	339	97	11					
W7XA				339				277	298	309	174	137					
W6FGD				330	275	289											
N6OJ				329	275	105											
W6AED					325				100	100							
WB6UOM				324	319	5		46	51	224	3						
AI6L				321													
WB6OTB				321													
KR7Y				320	303	290		170	212	286	154	122					
WR6R				319	307												
WZ6Z				319	306	233		255	250	304	239	151	14				
WD6EKR					318			214	270	313	109	89					
K6UD				318	306	207		240	244	244	176	147					
K6ANP				316	199	211		133	144	199	110	105					
NW6P				316													
W6IEG					315			17	33	290	3	3					
WB6GFJ				314	300	70		203	225	285	125	62					
K6LRN				314	225	264		106	138	273	133	40	10				
N6ULU				314		294		139	153	219	122	85	6				1
K4UVT				313	249	175		65	112	293	88	24	2			8	
N6JM				310	299	256		212	232	277	135	87	17		2	1	5
KN6J				309	301	287	245	218	210	200	152	165	108				
AA6YQ				309	278	256		172	177	257	140	74					
WB6KJE				308	308												
K6PKO				308	301			270	175	185	97	112					
6TMB				308	304	248		215	245	292	140	116					
7A8LLY				307	293	270		237	260	255	115	20		57	134	113	1
W6TUI				306	305	1		109	125	187	125	116					
KD6XY				306	289	54		124	137	226	8	3					
W6YWH					306			130	150	175	160	100					
KN6EL				305	161	269		128	139	167	32	6	2				
WA6BSS				290	304	3		134	167	249	58	26					
WB6EXW				303				100	100	100	50	11					
N6OC				303	300												
N6GG				301													
KG6I				301	282	269	82	200	223	278	178	103	24	13	101	143	110
AA6MV				300	293	259		183	196	264	127	44					
K6FD				296	271												
K6ZUR				294	85	290		139	189	265	176	79					
K6HNZ					290			209	242	254	125	107					
WA6CTA				289		227		135	142	201	72	9	1				
N6RR				289				116	210	176	129	88					
K6SIK				286	282	140		183	186	262	128	120					
KE6WL				282	254	250		215	237	260	165	59	8				
N6RC				281	129	161	3	25	49	193	24	3					
KK6X				281	227	255											
N6EK				277	225	247		184	219	245	155	54	9				
K6FO				277	185	239		134	164	235	125	102					
K6XC				276	186	219	38	121	117	192	61	9	8		11	26	9
AA6AD				271	181	252		109	176	258	54						
KA6ING				271	270	92		270	1					52			
W6NA						271		140	190	251	192	109					
K6RUW				270	242	120		100	100	100							
W6TER				269													
N3AHA				268	243	154	1	129	160	194	58	20	3			14	1
6XM				267	209	222		163	179	246	144	68					
.6KQN				265	260												
WD6EKR/M					259			88	207	160	4	3					
KD6GC				258	42	216											
N6OND				254	202	52		160	124	111	19	3			1	2	2
N4QJ				254	182	171		121	125	134	101	41	3				
WA6TOO				251				58	84	167	6	6					



CALL	WAZ			5 BAND WAZ					OTHER ZONES				PREFIXES			
	MIX	PH.	CW.	10m	15m	20m	40m	80m	160m	12m	17m	30m	06m	MIXED	PHONE	CW.
K6KLY	40	40	5	36	37	35	26	27					20			
5KOE	40	40														
6KQN	40	40														
AI6L	40															
NB6L	40															
K6LQA	40															
W6LQC		40													939	
WX6M	40	40														
K6MA	40	40	40	40	39	40	37	22								
W8MEP		40				40										
N7NG	40															
W6NKR	40															
W6NLG	40	40												450	450	
W6NPY	40															
WA6O	40															
W6OAT	40	40	40	40	40	40	40	39								
N6OC	40															
WA6OEY	40															
N6OJ	40															
K6OJO	40	40														
N6OND	40															
WG6P	40	40	40	35	36	40	37	31	4	2	6	1				
K6PKO	40	40				40									850	
AG6Q	37	37	6	34	29	36	30	20								
N4QJ	39			34	35	38	29	19								
W6QL	40	40														
W4RIM	40	40														
W6RJ	40	40														
K6RK	40	40														
K6RQ	40	40	40													
N6RR	40															
6J6RX	40			40	40	40	40	40								
6F6S	39															
K6SIK	40	40	40	40	40	40	40	40								
WA6SLO		40		40	40	40	35	39	7	37	36	1	13		1624	
N6ST	40	40		40	39	40	36	27	2	4	1	1				
NI6T	40	40	40	40	40	40	39	38	14	39	39	38				
W6TC	40		40	40	40	40	40	38		22	24	18				
W6TEX	40		40													
K6TMB	40	40	38	40	40	40	32	28								
WA6TOO	20															
W6TSQ	40			40	40	40	40	40								
W6TUI		40		30	33	40	29	26								
K6UD	40															
WB6UOM	40	40														
AJ6V	40															
K6WD	40															
KI6WF	40	40	32	39	40	40	29	27	4	14	20	3				
WB6WKM	40	40														
KE6WL	40	39	40	39	40	39	35	21								
K6WR	40	40														
W7XA	40	40		40	40	40	39	36								
K6XC	40	39	39	29	37	38	24	5	8	6	16	6				
K6XM	40															
K6XT	40															
KD6XY	40	40	24	28	34	37	6	2								
KR7Y	40	39	15	39	35	40	34	31								
W6YVK	40														659	
K5YY	40	40	40					40	36							
AA6Z	40															
WZ6Z	40	40		39	39	40	39	33								
76ZKM		40		39	40	40	32	34								
76ZM	40	40														
K6ZUR			40			40										

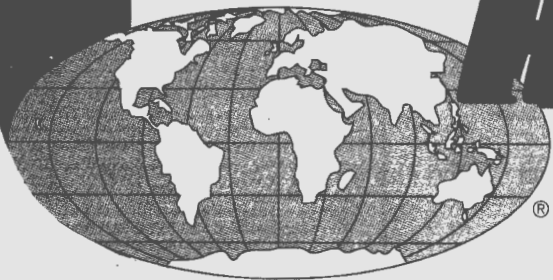
de Larry, KD6XY (12-93)

Note:  
The next Ladder Report will be submitted for the March 1994 issue of the DXer.

## The DXer Contest

Former Call	Current Call	Former Call	Current Call	Former Call	Current Call
WB6AGP	N6OJ	KA6GJW	WA6O	W6NQY	NS6A
K6AHV	W6RJ	W6GQA	W6RQ	K6OP	NG6
W6AJY	N6WR	WA6GSN	DJØQN	WB6OZJ	N6OO
K6ALH	N7NG	W6HOC	N6EA	W6PAA	N6RO
WB6BWP	KG6GF	W6HQN	K6KM	GM3POK	KG6XF
W6CBE	W6VG	WA6HRS	N6HR	WB6PZO	HB9AW
WB6CCV	N6XN	KA6HSM	KK6QM	WB6QBJ	K6ASI
W2CHO	VP2ML	KB6JK	WX6M	K6QQE	NC6S
K6CLV	NB6L	W6JKJ	K6MA	WA6QQI	K6ZX
K6CQF	K6PU	WAØJRB	WW6D	K6RIM	W4RIM
W6CUF	W6CF	WB6JRL	K6XJ	WA7RKR	KD6VS
WA6CUP	ask NI6T	WA6JUD	A16V	K2RQC	NI6T
WA6CXK	K6XT	WA6JVD	N6JV	WA6RRM	AG6Q
WØDAD	K1ER	W6JWD	W6DU	WB6RWJ	KD6XY
NØDJJ	KN6EL	N6KB	W6RGG	K6ZRX	ask NI6T
WD6DLK	KE6LT	WB6KBG	KT6J	N6SYP	KK6TX
KD6DMA	ask NI6T	WN6KBZ	ask NI6T	W2TOD	NW6P
WA6DNM	AE6U	WA6KCX	KR7Y	K6TZX	W6JD
W6DOD	W6QL	WA1KID	W6XR	W5UHK	VS6DR
KL7DTB	W6QL	W7KRM	W6VG	W6ULS	K6DC
WB6DUG	WM6B	W6KWE	N6RA	W6UUS	W6PM
K6DYQ	N6RR	W6LCF	W6ZM	W6VUW	K6WR
W6EYY	N6AN	W6MHB	W4AI	WB6WAV	K6WD
W6ESI	K6VX	W6MVL	K6RQ	W7WVE	W6KH
WB6FCR	WR6R	W6MVQ	N6GG	WA6WXP	W6XP
WD6FXL	NA6B	KD6NH	NG6T	WA6YXP	KF6QO
W6GFS	KN6J	W6NJU	K16T	WB6ZHH	AF6S

And the winner is -----K6ILM, Elliott Pisor, who had 17 correct answers to the quiz. Elliott will receive a free dinner at the NCDXC Xmas dinner, compliments of W6VG. Congratulations Elliott.



# KENWOOD RADIO OUTLET

WORLDWIDE DISTRIBUTION

Saturday, December 18, 1993 will be Kenwood Day in the Anaheim store. All HF stores will offer extra discounts on Kenwood products.

## KENWOOD

### TM-742A/TM-641A/TM-732A

2 M/440Mhz 2M/220Mhz Transceiver 2M/440Mhz



Optional 3rd band available  
Up to 303 memories  
101 per band  
PL Encode Built in  
Detachable front panel

2M 440 Duo-Band  
Compact 45W/35W  
Removable Front Panel

### TS-850S

HF Transceiver



Advanced Technology Performance  
108 db Dynamic Range, Optional DSP  
**CALL FOR LOW PRICE**

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### TS-450S

HF Transceiver



12v 100W, Gen. Cov. Receiver  
100 mems. • 108DB Dynamic Range  
DDS • DSP Optional • Dual VFO  
Optional Built-in Auto Antenna Tuner

### TS-950SDX

RM-1 Included



(Shown with optional SM-230 & SW-2100)  
**NEW** 150W MOSFET Finals • Voice Keyer Optional  
**NEW** DSP on RX + TX • **NEW** CW Memory Keyer  
**NEW** CW Filter in Sub-Band Receiver  
**NEW** RM-1 Included • **NEW** S Meter for Sub-Band  
General Coverage RX • Built-In AC Supply

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### TS-50S

HF Transceiver



World's smallest HF transceiver  
100W out, SSB, CW, AM, FM, 12V  
Gen. Cov. RX, 6.4 lbs., 7.16 x 2.4 x 9.32"  
105 db dynamic range, 100 Memos.  
Optional external ant. tuners available  
**CALL FOR SPECIAL LOW PRICE!**

### TM-241/331A/441A/541A

2 Mtr 220Mhz 70cm 1200Mhz  
Aircraft RX



Compact FM Mobile Transceivers  
**LOW PRICES, CALL**

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**CALL FOR GREAT PRICE.**

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