



Bulletin



June 2023

Founded In 1958

Our Next Meeting & Speaker

Date & Time: June 2023, 7:00 PM
Location: Via Zoom
Speaker: Mike Walker VA3MW
Topic: FlexRadio Features and Benefits



Mike VA3MW will spend about an hour showing how today's HF radio is not only better than yesterday's superhet radio, but you get more performance for your dollar. He will show how your radio now 'scales' towards the future and not grow old the day you bought it. See more information below.

Please join us for an interesting and entertaining presentation.

From the Prez *(de Chuck Catledge, AE4CW)*



Fellow DXers, welcome to the SEDXC June 2023 Bulletin!

June is Election Month; don't miss this meeting!

As announced in the May Bulletin and Meeting, June is the month where a slate of officers will be elected as the club's leadership team for the 2023 – 2024 year. The Nominating Committee has been diligently at work interviewing and recruiting candidates. The Committee's nomination for each of the officer positions is presented in the following article. Al Ludwick NN4ZZ, representing the Committee, will present the officer nominations in person at the June SEDXC meeting. We will also entertain candidates from the floor; if you are

interested in any of these positions, have someone nominate you at the meeting!

Time seems to have flown by since I was recruited by Bob Allphin K4UEE to run for the club Presidency two years ago. I was honored to be considered but candidly thought the job was way over my pay grade (and I still do!) Bob's encouragement convinced me to give it a try. Thankfully, with the help and support of the Officer team and a cadre of appointed members and volunteers, the SEDXC is still alive and prospering.

I'd like to especially commend some folks who helped the club and me along the way; please forgive me if I missed you: Clark WU4B Vice President and procurer of 20 outstanding program speakers; Jeff K1ZN Treasurer and manager of DXpedition funding requests, new members, money and more; Paul W4KLY and Joel WA4HNL Secretaries and faithful recorders of Board and club meetings; Bob K4VBM Activities Manager and inventor of ways to recruit and encourage new members; Bob NF7D and Van N4VGE Bulletin editors who made monthly publications seem easy; Andy AA5JF Evangelist, promoter and leader of success in the CQ DX Marathon; Chaz W4GKF Webmaster, historian and solver of all things technical; Hal N4GG and Bob K4UEE Advisors and fixers of my numerous mistakes, and many others who've provided council and support.

The highlights of these two years are twofold: the SEDXC folks I've had the pleasure and honor to meet, and the amazing propagation rebound we've experienced in cycle 25 thus far (with more to come!) I'll be leaving the club leadership team, but I plan to keep DXing near and dear for some years to come. Thanks to all of you for allowing me to serve the SEDXC!

73 es Gud DX
Chuck AE4CW
President SEDXC

SEDXC 2023-2024 Nominating Committee Report

Nominating committee members:

Jim Altman / W4UCK

Greg Marko / W6IZT

Al Ludwick / NN4ZZ

Nominees 2023 / 2024

- President – John Tramontanis N4TOL
- Vice President – Nathan Wood K4NHW
- Treasurer – Jeff Cantor K1ZN
- Activities Manager – Verne Fowler W8BLA
- Secretary – Joel Levine WA4HNL



A Few Words About Our Speaker



VP Corner

This Month

Our speaker is Mike VA3MW who brings a wealth of knowledge and experience related to FlexRadio equipment. Mike has been an active Amateur since 1974 and loving every minute of it--from Repeaters, HF, HF Contesting, Satellites and to currently tinkering in EME digital modes and 10Ghz microwave. As well as being a GA Pilot, he loves HF Station integration and remote HF operation and currently represents FlexRadio Systems with the Marketing and Education team. He is very well versed in FlexRadio technology. Technology is truly his hobby.

Adieu

In 1960, the movie *The Alamo* was released with the haunting song "The Green Leaves of Summer". The beginning lyrics include:

A time to be reaping,
A time to be sowing,
The Green leaves of summer,
Are calling me home.

The theme of the movie was about the men who realized it was time to do something different than their normal daily life. A mid-course correction if you will. A similar theme is expressed in the biblical book of Ecclesiastes:

There is an appointed time for everything. And there is a time for every event under heaven—a time to give birth and a time to die; a time to plant and a time to uproot what is planted (Ecclesiastes 3:1-2)

This will be my last month of serving the membership of SEDXC. It's been quite a ride, starting with Bulletin Editor for a decade and the last two years

of VP in charge of programs. I have learned so much about DXing from club members, and my reason for serving was to give back. To that end, I tried to have a mix of subjects—hardware, operating, DX reports—and this month's speaker on FlexRadio is a good way to end my tenure.

I'm at an age (80) where, to leverage the words from the song above, something is leading me and my bride Tricia in a new direction. It's time for a change to pursue other interests. DXing will be a part of it but not at the same level as before.

I look forward to what the new leadership will contribute to the club and, as always, look forward to making new contacts and new friends with the DX community world-wide. And maybe, just maybe, working ATNO #321.

\73 es gud DX,

Clark, WU4B

Treasurer's Journal *(de Jeff Cantor, K1ZN)*



Greetings, Fellow DXers! Disbursements to report for May 2023:

Purpose	Amount
Treasurer's Report	
Disbursements	
New member package	\$5.50
TOTAL:	\$5.50

June 2, 2023 Account Balance is \$12,091.69

TNX, 73 & GUD DX,

Jeff, K1ZN

Around The Shack

June, 2023 de Hal Kennedy N4GG



Minimizing Field Day Inter-station Interference – An Approach

The Approach in a Nutshell

Erect a 25-foot vertical 500 ft away from the transmit antennas. This non-resonant antenna is for receive-only, to be used by all the rigs on HF bands.

Connect the vertical to the shack with 500 ft of RG6/U. Connect the shack end of the coax to the receive antenna jack on the rigs. You will need rigs that have this capability.

Construction Notes

- I've made this antenna by taping #24 speaker wire to a telescoping fiberglass pole as I pushed it up. At the bottom I've used four 25 foot radials made from the same wire. At the top I've used 50 lb fishing line coming down at roughly 45 degrees as guy wires. It's wise to tie a few streamers onto the guy wires to keep people from walking into them. The radiating wire, radials and a coax connector can be soldered together prior to arriving at FD.
- If you can't manage 500 feet of separation then get as much as you can.
- The vertical should be 25 feet tall plus or minus a foot or two. At this height the antenna is not resonant on any of the ham bands and sufficiently tall to provide adequate signal strength.
 - 500 ft rolls of RG6/U are surprisingly inexpensive. Home Depot sells them for \$48. I bought mine on eBay for \$36. See Figure 1.
 - Two people can deploy the coax by sticking stout screwdrivers or a piece of pipe into a 500 ft reel and walking it out. When you run out of cable, that's where the antenna goes.
 - If possible, the broadside of horizontal antennas such as dipoles and Yagis should face the vertical. If the physical layout of the site won't accommodate that, get as close to perpendicular as you can. This is counterintuitive. More on this below.
 - Connect the shack end of the feedline to the "receive antenna" jack on the rigs. Multiple rigs can be connected in parallel. The connection can be daisy-chained from one rig to the next or split using tee connectors. An exception to this is if you have one or more Elecraft K3s on site. K3s short the receive antenna jack when transmitting. To feed multiple rigs when there are one or more K3s, splitters (Magic-Ts) will be needed.
- A preamp at the base of the vertical is not absolute necessary but is helpful, particularly if there are a lot of rigs involved. I have used a DX Engineering model RPA1; unfortunately these are no longer produced. [Note: If you ever see one, buy it.] Any high dynamic range preamp will do. The preamp can be powered by a battery or by +13.5 VDC sent down the coax using a T-power insertion device (MFJ-4116). If you power the preamp via the coax, USE A LINEAR SUPPLY for the +13.5 VDC source.



Figure 1. A 500 foot reel RG6/U. \$48 at Home Depot

Bandpass Filters as an Alternative

Single-band BPFs are a good approach. In many cases however, 40 to 45 dB of isolation is about their limit and that's barely enough. Most (not all) antenna orientations at FD are good for 10 to 20 dB of isolation, so 40 dB from a BPF and another 10 to 20 dB from antenna separation works okay. All the antennas will be within each other's near-field however. Results can deviate widely from modeling predictions and from experienced-based expectations.

BPF cons:

- They are expensive and you will need five – one for each band (six if you want to operate on 160).

- They are fragile. If you transmit into one on the wrong band you stand a good chance of damaging it. As an example - someone moves from 20 to 40 meters and forgets to change the BPF. Transmitting on 40 into a 20 meter BPF can damage it. The ability to repair BPFs seldom exists at FD. Countless BPFs have come to my workbench for repair, typically right after FD and major contests. You have to remember to move BPFs from rig to rig - a pain in the neck.
- The advent of GOTA stations has caused the desire to, at times, run two rigs on the same band at the same time. BPFs do not address this scenario, a distant receive vertical does.

Why should a vertical face a transmit dipole's broadside lobe?

Horizontal dipoles and Yagis have two attributes we tend to accept without question. These are, 1) the peak radiation occurs broadside to the wire or driven element and, 2) the radiation from a horizontal dipole or Yagi is horizontally polarized.

These attributes are, however, only first-order approximations. To minimize interference at FD, every dB of isolation counts. First-order approximations are not sufficient to get a vertical antenna and a horizontal dipole oriented to maximize isolation.

Horizontal dipoles produce some vertically polarized radiation. The vertical radiation from a horizontal dipole comes off the ends, not broadside to the wire. The peak vertically polarized radiation is approximately 20 dB down from the peak horizontally polarized radiation and that's large enough to matter if we are trying for the maximum isolation possible.

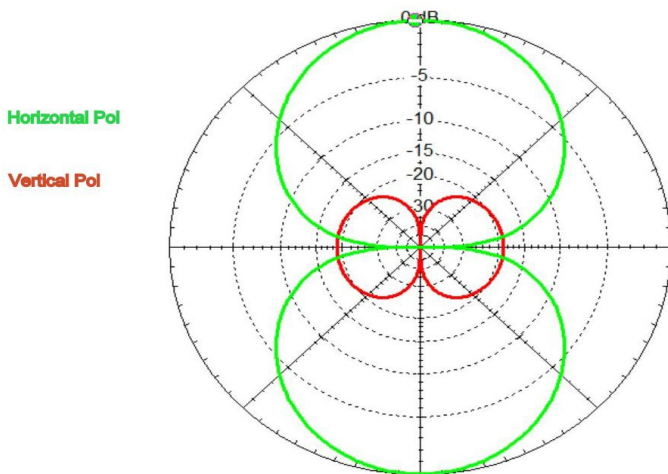


Figure 2 shows the radiation pattern for a 40 meter dipole 30 feet above the ground. The figure shows the radiation pattern in a way we seldom look at it – with the horizontally and vertically polarized components shown separately.

In the figure the dipole wire runs horizontally across the middle of the chart. The large green lobes are broadside to the wire – this is just as we expect for a dipole. But, look at the red lobes. That is the vertically polarized radiation. The peak vertically polarized radiation occurs perpendicular to the peak horizontally polarized radiation. There is a deep null in the vertically polarized radiation broadside to the wire. Placing a vertical receive antenna in the vertical radiation null yields the best isolation.

Figure 2. The horizontally polarized (green) and vertically polarized (red) radiation from a 7 MHz dipole, 30 feet high

Some Closing Notes

To further reduce inter-station interference, use the best rigs you can get. By “best” I mean those with the highest blocking dynamic range. The latest rigs (SDR hybrids) such as the FTdx10, FTdx- 101, FLEX 6700 and Elecraft K3S are examples of high dynamic range radios. You can use Rob Sherwood’s receiver test data to find the rigs currently at the state-of-the-art:

<http://www.sherweng.com/table.html>

The FD rules state: *“All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet).”* The receiving antenna described here could be put as far away as 1,000 ft from the rigs and still meet the rules. (The rigs on one edge of a 1,000 ft circle, the receive-only vertical on the opposite edge). I’ve used this antenna at several FDs with 500 feet spacing and that has proven to be sufficient.

Training operators to set the rigs to the receive antenna is problematic – it’s an easy thing to miss. Most rigs store the antenna selection, by band, in memory. Every band on every rig has to be set to the receive antenna input. Training operators to change BPFs is also challenging, and mistakes have dire consequences!

73,
Hal N4GG
Figure 1. A 500 foot reel RG6/U. \$48 at Home Depot

25 Years Ago... (de Van Herridge, N4VGE)



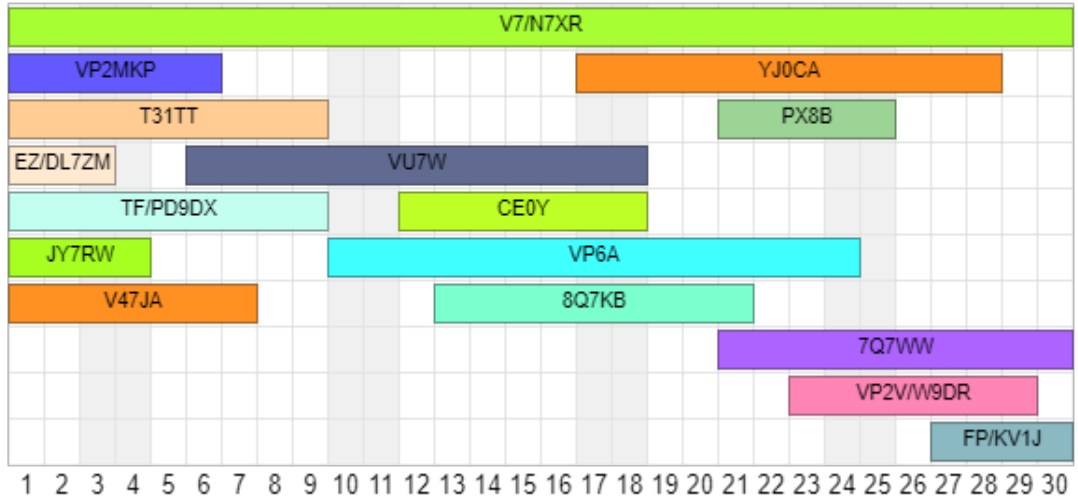
"If it wasn't for ham radio, I would have never even heard of Kyrgyzstan, Brunei, Kiribati, Djibouti, Malta, Nauru, Azerbaijan, or Burkina Faso!"

The June 1998 Bulletin is attached at the end of this Bulletin for your enlightenment and enjoyment. Please note on page three was a short farewell to Senator Barry Goldwater who became a SK on May 29, 1998.



DXWORLD.net FEATURED DXPEDITIONS TIMELINE

Last update: June 1, 2023



Edited by MM0NDX

JUNE

© IK8LOV Max Laconca

The *DX World* Calendar features a timeline of all DXpeditions anticipated for the current month and is a great way to plan your chase for the next, All-Time New One (ATNO). The Calendar is updated regularly; use this link to see the latest version: [http://www.hamradiotimeline.com/timeline/dxw timeline 1 1.php](http://www.hamradiotimeline.com/timeline/dxw%20timeline%201%201.php)

SEDXC Officers & Positions

SEDXC Officers:

Chuck Catledge, AE4CW – President – c.catledge@gmail.com
 Clark Macaulay, WU4B – Vice-President – macaulay@gmail.com
 Joel Levine, WA4HNL – Secretary – jlevine@bellsouth.net
 Jeffrey Cantor, K1ZN – Treasury – jacantor9@gmail.com
 Bob Hensey, K4VBM – Activities Manager – ptcorners@gmail.com

SEDXC Appointed Positions:

Chaz Cone, W4GKF – Webmaster – w4gkf@chazcone.com
 Van Herridge, N4VGE – *SEDXC Bulletin* Editor – vanherridge@gmail.com



SOUTHEASTERN DX CLUB

W4NT

THE
SOUTH'S
PREMIER
DX CLUB

June 1998

MEETING TIME & LOCATION

Tues., June 16th, 7:00 PM, TECH AMERICA, just north on Buford Hwy north of I-285.

VP THOUGHTS

-Ernie Zingleman, KS4Q, VP

It was good to see everyone that attended the May club meeting. Sid, ET3SID, during his post Dayton visit to Atlanta, gave an entertaining talk on his work in Ethiopia, and his success in getting Ethiopian youngsters interested in ham radio. Many that he has 'elmered' are now pursuing studies abroad with the hopes of securing technically oriented employment back in Ethiopia, once their studies are complete.

June is Atlanta Hamfest month. If you did not already hear, Bill Moore will be attending from the ARRL and will be checking DXCC cards at the SEDXC booth. Bring your cards and completed forms. Contact Mike, K4PI, regarding booth personnel openings. There are probably still some open slots and the club could use some enthusiastic DXers at the booth promoting DXing and promoting the club.

Paul, W6XA, and I took time to get together and review the club surveys that were sent out. We will give a brief report on the what everyone had to say. But in a nutshell, most people just want to come to the meeting for an entertaining program and do not want anything to do with the business portion of club activities.

For this to happen, a radical reorganization of how the club works will be needed. In addition to the annual panel of club officers, there will need to be an executive council or steering committee. This way, all club business can take place away from the regular monthly meetings. All voting and business discussion can be done by the a separate meeting of the club officer and club directors. Really, most people do not want to get involved in club business discussions; admit it. This is what the surveys you returned indicated.

Only by taking club business discussions and vote taking off site can we make time for a mostly entertainment oriented meeting. If this whole idea scares you, remember that you get to vote and nominate people for club officer and board of director positions. Get involved yourself or elect someone you trust; it is just that simple.

On another note, Paul W6XA and I do not plan on pursuing or accepting President or VP positions in the coming year and our terms are up. Step up to the line and volunteer, or 'volunteer' someone you think will do a good job. Otherwise, there may not be a July SEDXC meeting to attend.

As the June meeting program, I will be giving a brief talk on my recent trip to operate as KS4Q/YS9 in El Salvador. I don't have pictures yet, but I promise you that I will tell an entertaining story. The ham radio part of the trip was just plain fun. The fish we caught were tasty too!

73, Ernie KS4Q

BEEPS DE K2UFT

-Dick Bentley, K2UFT, Activities Director

Got to read our esteemed VP's article before publication and it seems that he and W6XA will be leaving us at the end of their terms. Once again its fish or cut bait time folks. The survey results indicate most members just want to get together for dinner and a program, the heck with the other stuff like counting the coins in the treasury, putting out a newsletter, attracting new converts, encouraging participation in DX chasing and 160 meter contesting, sponsoring local QSL checkers for DXCC and other award programs, sponsoring booths at hamfests where you can meet with fellow dxers, etc, etc.

So the bottom line is many want the fun but don't want to invest anything more than their annual dues and perhaps 2 hours a month for meetings. You can get a better deal than that at (continued p2)

(continued from p1) Blockbuster Video without the hassle of sitting in on a Blockbuster Board Meeting. Their membership is free and you can get a first rate 2 hour video for \$4 or so. Ernie suggested adding a steering committee - heck, with the current attitude we don't need any officers or director at all - well, maybe one - a social director to pick out the movies for the members.

SK Dick, K2UFT Activities Chairman

SEDXC MINUTES 5/19/98

-Rick Glisson, N4XMX, Sec.

The meeting started right at 7:105 PM with Paul, W6XA, calling the meeting to order. After he introduced himself, everyone went around the room and introduced themselves.

Nancy gave the report that there was \$2694.20 in the account. Her report for the last two months will be in the next newsletter. A motion was made and seconded and passed to accept the treasurer's report and also the minutes as published.

A few people commented that the Kansas City DX booth was well attended. Ernie, KS4Q, did comment that the attendance overall seems down.

Ernie also commented on the surveys that most favored less club business and more time devoted to the program and getting back to the basics. Another comment mentioned was to have the program announced well in advance. Location comments were mixed as well as raising the dues.

Dick, K2UFT, reminded everyone about the June 20th ARC Hamfest to be held at the International Convention Center, one day only. Bill Moore from ARRL will be there to check cards. There may be a talk on DXCC 2000.

Someone also mentioned the announcement that Zorro would try to activate A5 in 1999.

Rick, N4XMX, brought his copies of the life of Father Moran and DXing on the Edge for anyone to look at.

Rick also announced that his daughter, JoAnne is now officially KF4YOQ.

Several people also commented that the Crown Royal at Dayton will not take reservations early but after April 28th.

Randy, K4ODL, said that his renewal only

took ten days when he renewed electronically over the internet.

Sid May, ET3AA, was our program. He gave a very interesting talk about ham radio in ET land and showed slides and a video of the operating location. He also mentioned many of his Caribbean DX'ing before he went to ET. Some of his other locations include V4, V2, 5N, ZB2, and ST2. When you are operating in these places, you have to be resourceful. Sid proved that over and over! Sid also brought two native Ethiopian guests which he was visiting after Dayton. Sid and his guests answered many questions about their operations and related many good stories. A good time was had by all!

The meeting was adjourned at 9:00 PM as Tech America tried to close.

TREASURER'S REPORT

-Nancy Draheim, NK4U

Balance 4/30/98 (Checkbook)	\$2694.20
Receipts	\$120.00
Expenses:	
QSL outgoing	\$12.00
April newsletter	\$20.40
May newsletter	\$21.84
Balance Checking 5/31/98	\$2759.96

Sounds like the Atlanta Hamfest will be THE PLACE TO BE. Help Mike make the SEDXC booth THE PLACE TO BE SEEN. The bands are improving and now is the time to excite new (or old) DX'ers to join us.

Remember also that dues are due by June 30th. A membership application should be included with this mailing or e-mail and I urge you to join us for another year.

See you at the meeting and Atlanta Hamfest.

73, Nancy NK4U Treasurer

COME AND VOTE! IT IS YOUR CLUB!

DX TIDBITS

-Rick Glisson, N4XMX, editor

It's official! JoAnne, my ten year old harmonic, is now KF4YOQ. Dick, K2UFT, was kind enough to stand by and be her first contact on 15M, CW of course! Dick then QSY'ed to 10M SSB QSO on phone. Now we have to make up a QSL card, send envelopes to her buro, etc. Forgot how much there is to do!

I am now teaching her to throw that call out with authority, practising for CQWW! Worked a fellow in southern Missouri on 10M in a pileup. Good practice.

While down in Darien, GA with a TS-440 and a R-5, I heard Ernie, KS4Q, and Steve, K4JPD, operating portable YS9. Worked Ernie one night on 20M phone and then worked Steve the next morning, same freq. Threw my call in at Steve and he commented, "Now there's some rare DX, N4XMX!" I thanked him as 4's are rarely sought after.

The WPX had some goodies in it. I worked a 3DA on 40M which is a new one for me on 40. I am trying to get the cards on 40M and need more countries on 80M. I listened during WPX CW but really didn't hear the number of stations I was hoping for. Maybe next time! 5BDXCC is not a walk in the park.

I was hoping something would surface from 70 but haven't heard anything yet. Monk Apollo has been on the air more recently. Ever since the DXAC talked about deleting him, he's been alot more active. Steve, K4WA, called me one night this week to tell me he was on 20M. Thanks, Steve! I never mind a call like that! Now that I finally have his card, I can relax. Now I still need 70, YK, EP, and ST, anybody, feel free to CALL!

CU in the pileups... -Rick, N4XMX

FROM THE INTERNET

QST to all radio amateurs:

Beginning July 10, 1998, I will be operating 9N1UD, looking for stateside contacts especially, on the following freqs and times:

Nepal's sunrise and sunset times daily (can not predict which days). Will first try 14.195, then 14.023, and then 21.295 and 21.023. I have a daily sked with southeast Asians on 14.215 at 0100 Z.

Via either my call or 9N1AA or if we get it,

June 1998

9N1MM, I will also try the lower bands (and ten and six). I intend to email this reflector any specific skeds when and if I can make things specific. I have plans for 80 and 160, too, but no skeds can be made now due to the variability of my filming activities. I will try also for S. America, another difficult path. Please remember that I will be very weak and am NOT N1UD, but am 9N1UD. Hope to work lots of use-guys and gals!

73, K4VUD

ARRL BULLETIN:

Senator Barry Goldwater, K7UGA, SK

Former US Senator, onetime presidential candidate, and noted radio amateur Barry Goldwater, K7UGA, died May 29. He was 89. Goldwater had suffered a stroke in 1986 and had been in failing health. A staunch conservative, Goldwater was the 1964 Republican presidential nominee and served five terms in the US Senate.

He also authored the book *Conscience of a Conservative*. Goldwater retired from politics in 1986. His home was in Scottsdale, Arizona. As a Senator, Goldwater's legacy included several pieces of Amateur Radio-related legislation. In 1964, Goldwater's bill to allow reciprocal operating agreements between the US and other countries was signed into law. It was his work on the bill that prompted the Arizona Senator to renew his interest in ham radio after a long absence. In 1983, Amateur Radio paid homage to Goldwater as "its governmental protector and advocate" by establishing the \$5000 ARRL Scholarship to Honor Barry Goldwater, K7UGA. In announcing the scholarship, then-ARRL Washington Area Coordinator Perry Williams, W1UED, said that Goldwater's Amateur Radio involvement had "brought joy to thousands of members of the armed services stationed overseas, and through his professional career, he has exemplified the principles of commitment and service to one's country and fellow citizens."

The Goldwater scholarship, administered by the ARRL Foundation, is awarded each year to a deserving radio amateur to encourage a spirit of achievement and dedication in the field of communication. ARRL Executive Director David Sumner, K1ZZ, said that of amateurs in the public sector, Goldwater was "without peer." Southwestern Division Director Fried Heyn called Goldwater "a super ham" who was "concerned about the future of Amateur Radio."

SEDXC

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SEDXC OFFICERS

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The SEDXC Newsletter is published monthly by the Southeastern DX Club. All opinions expressed by the contributors do not necessarily reflect those of the editor, officers, or club. We welcome your opinion.

DX PACKET FREQ.

K4KR (2400) 145.63
K4KG (2400) 144.91
W4UCK (24 & 96) 145.65, 144.97 (ARCDX)
NI4X (9600) 144.93, 145.71, 440.75
K4UJ (2400) 145.67 (SE Megacluster)
(telnet 205.217.100.91)

DX COMMUNICATION FREQ.

Simplex 147.54
Melvin 147.51

K4JPD Repeater (tone 7)
147.195+

INTERNET REFLECTOR

sedxc@contesting.com



SOUTHEASTERN DX CLUB
PO Box 19871
Atlanta, GA. 30325

COME AND VOTE!!

MEETING: JUNE 16th
TECH AMERICA, 7:00 PM
Just north on Buford Hwy,
above I-285

6/30/98 K4JRB
Dave Thompson
4166 Mill Stone Court
Norcross, GA 30092

