

NARS



NEWS

The Northwest Amateur Radio Society

Houston, Texas

March 1999

March Meeting Focuses on SKYWARN

Our program for March 19 will be a training class of sorts. Chuck Roeseler, National Weather Service(NWS) Meteorologist in League City, will be our guest speaker. Chuck will share with us his years of experience in forecasting severe weather, while certifying NARS members and guests in the SKYWARN Program.

SKYWARN involves radio amateurs in the spotting and identification of severe weather events. It is coordinated by the NWS, which uses the resources of emergency management services and ham radio operators in conjunction with its NEXRAD Doppler Radar System to provide real time warnings to the public.

As a SKYWARN Spotter you may be called upon to verify and confirm information visible on the Doppler Radar to the meteorologists. This will be a very interesting program, a "don't want to miss it" opportunity. To accomodate the two-hour program length, the March 19 meeting will begin at 7:00 PM instead of 7:30 PM. This means that eyeball QSOes and coffee-drinking will begin around 6:30 PM. See you there!

-- George, KD5AYF

Novice/Technician Class Scheduled for 1999

Second Notice

The 1999 edition of the NARS license class for Novices and Technicians will begin on Wednesday, April 7. All sessions will be held at the Prince of Peace Catholic Community located on the Tomball Parkway (FM 249) just south of Cypresswood, and will begin at 7:00 PM. The first evening will include registration and an Introduction to Amateur Radio, with actual classes beginning on Thursday, April 8. The course will continue with two sessions a week, on Wednesdays and Thursdays, for a total of seventeen sessions. The complete course will cover Morse Code, necessary rules and regulations, and technical material enabling candidates to successfully complete all examination elements for a Technician-Plus license.

Cost of the program will be \$20.00 plus the cost of the textbook (under \$20.00), ARRL's "Now You're Talking." The text may be purchased at Houston Amateur Radio Supply, 181 Cypresswood Drive, or Electronic Parts Outlet (2 locations). For more information or to reserve a space in the class, call Marian Denton, KB5SGV, at 281/469-8331 or Joe Sokolowski, KD5KR, at 281/353-2196. Enrollment will be limited, so get your request in early!

-- Joe KD5KR

Important Dates

Friday, March 19, 6:30-9:30 PM

NARS General Membership Meeting at Spring Cypress Presbyterian Church, 6000 Spring Cypress Road

Saturday, March 27, 8:30 AM

License Exam Session. Tomball Community Center, S. Cherry & Market streets (just South of Main.)

Tuesday, March 30, 7:30 PM

NARS Board of Directors meeting, H.O. Townsend's home, 16880 E. Maglitto Circle

Contests:

March 13-14 -- QCWA QSO Party

RSGB Commonwealth CW Contest

Wisconsin QSO Party

Missouri QSO Party

March 16-17 -- CLARA and Family Test

March 20-22 -- Alaska QSO Party

Virginia QSO Party

Ohio Winter QSO Party

Bermuda Contest

Russian DX Contest

YL-ISSB QSO Party

March 29-29 -- CQWW WPX CW Contest

April 3-4 -- EA RTTY Contest

SP DX Contest

April 9-11 -- Japan Int'l DX Contest

Notice:

NARS membership dues - \$20 per year, renewable on anniversary of last year's full payment.

Deadline for articles to appear in April issue - **Thursday, March 31.**

BREAKFAST at Victors

4710 W FM 1960

Saturdays

8:00 AM

QRP Stuff

President's Corner Mach 1999

Howdy all...

Man, o' man, what a February meeting. Thanks Loyd, KM5OE, for a top notch, great program. It still seems a little weird to us "flat-landers" to have your repeater sitting on the ground at 6,800 feet where you can just walk (hike) up to it. And, it was duly noted that even "West of the Pecos" all good ham gear installations must be topped off with a little pookie. The nature scene at the end was perfect; Walter, KK5LO, now knows what he's been hunting for! Thanks again Loyd we appreciate you putting it together.

The March meeting promises to be educational. It will be presented by the National Weather Service. The topic is Skywarn. I hear the program has been revised. A good show of hands at the February meeting indicates we should all be ready for an update. Participation in Skywarn is one way we, as Amateur Radio operators can fulfill one of the reasons for the existence of our type of radio service. Remember, the meeting starts at 7:00 p.m. Be there or be square.

Thanks to Jack, WA8GHZ, for presiding over the February board meeting while I was in Seattle. From the looks of the items covered, it was a very productive meeting. What else! Thanks, Jack, and all the Board.

Thanks also to Joe, KD5KR, and Jim, KJ5X, for their efforts to get this year's Novice/Technician class arrangements put together. And, thumbs up to all who have volunteered to instruct. Bringing quality Ops into our hobby is important to all of us. Let's go get 'em! Man, that hat is already working.

The hat! My special thanks go to Bill, K5ZTY, for his distinguished presentation of the "I'm Their Leader - Which way did they go" hat. Since receiving the hat, my QSO count has gone up through the roof, I got my QSL cards printed, and I've worked another JA. I'm still waiting to see if I wake up some morning repeating dits and dahs while shaving. Maybe there's some QRP message in the hat band.

In closing, our ARRL Affiliated Club info has been updated and is accessible from the web at: http://www.arrl.org/field/club/detail.html?master_id=000707077257update=1.

73 de H. O. -- WA5MLT

Well, here I am again. I thought of some more stuff. I was reminded of how much improved the QRP radios of today are when I got out my first QRP transceiver, a Heathkit HW8, on the weekend of January the 23rd and 24th and entered an HW contest. As the name implies, it was a contest for the Heathkit HW series of transceivers. Primarily for the HW7, HW8 and HW9 QRP radios. I don't know if you have ever used a DC receiver but if you haven't you should find one and use it for a while. It will really make you appreciate your superhets with single signal reception and all of the filters. The QRP radios of the Heathkit HW series era all used direct conversion receivers. They are easy and cheap to build but the conversion of RF to audio in one stage and the reception of both side bands of the CW signal makes it hard for these receivers to be very selective. Interference from a strong broadcast station would just wipe out anything else on the band. QRP radios with these DC receivers weren't considered to be real radios because of their limitations. They worked pretty well in uncrowded band conditions but in a DX pile up or a contest they were almost useless. This is not true with today's QRP radios. The receivers today are comparable with most Yeacomwoods in the selectivity and sensitivity areas. Most all are superheterodyne with features such as four pole crystal filters, RIT, AGC, variable bandwidth, CW filters, full QSK, variable side tone and now with the new K2, dual VFOs, memories and a scan mode.

One company that makes some of the new era radios is Oak Hills Research in Big Rapids, MI. OHR was founded in 1984 by the late Doug DeMaw, W1FB, and his son. Doug was a prolific designer and experimenter with low power radios and test equipment and he wrote extensively about it. Most of the ARRL books on the subject were written by Doug. He sold the company to his friend Dick Witzke, KE8KL, in May of 1990. OHR is not a hobby or spare time business with Dick as it is with some of the other kit sellers. He gives the business of designing and producing

radios and accessories his full time attention. OHR's latest transceiver is the OHR-500, a five band five watt CW radio that covers 150kHz of 80,40,30,20, and 15 meters. Provisions are made for adding an optional built-in keyer. They also offer single band transceiver kits (specify your band), a QRP wattmeter kit, and a frequency counter/digital dial that you can read directly as a frequency counter or you can program offsets into it to use as a digital dial on different radios. OHR's web site is at <http://www.ohr.com> if you want to know more.

While I was writing this Dan, KK5LD, called me on the phone to ask me where the fox was. While we were talking I asked him if he ever worked any QRP DX with his homemade transceiver. He said that he did, and I asked him to read me some of his log book. Contacts on 15 meters included, VP2VW, Virgin Is.; JR1MQT, Tokyo; IV3BTY Italy; ZS6AUH, So Africa; YO2ELA, Romania; ZL6QH, New Zealand; V K 4 E M, Australia; G3VZT, England; EA8AD, Canary Is.; SM5LAK, Sweden, to name a few. Dan has been running 5 watts PEP on sideband which is only half the "legal" power for QRP single sideband. Kick it up to 10 watts Dan and you should have DXCC in a week or two. (Actually the ARRL says 5 watts CW or SSB but every other entity in the world says 10 watts PEP ssb.) Where was the fox?? He was a "no show" that night.

The Northern California QRP Club (Nor-Cal) in conjunction with the Rev. George Dobbs, G3RJV, and G-QRP, the QRP Club of Great Britain, designed and kitted 500 20 meter transceivers to be sold in the US for \$100 each and for each one sold here there would be one kitted and given to a ham in a third world country where radios are hard to get or non-existent. The 500 kits sold in the U.S. in 18 days. The Rev. Dobbs will distribute the 500 free kits to the rest of the world through the missionary arms of the Church of England.

This radio was designed to be very stable and selective in the receiver
(Concluded on page 5)

Advanced Class License

An Advanced Class amateur radio license is a worthy goal to work toward. Whether you now hold a Novice, Technician, Technician-Plus or General class license, or are yet unlicensed, you will find the operating privileges available to an Advanced Class license are well worth the time spent in obtaining and upgrading an amateur license. Since something over one-third of NARS members fall into the Novice-Technician group of licensees, this may be worth some thought.

Earning an Amateur Radio license, at whatever level, is a special achievement. The over a half-million people in the United States who are amateur radio operators, or hams, are part of a great, global fraternity. Radio amateurs serve the public as a voluntary, non-commercial communications service, especially during natural disasters or other emergencies. Hams continue to make important contributions in the field of electronics. Amateur radio experimentation is yet another reason many people become part of this self-disciplined group of trained operators, technicians, and electronics experts -- an asset to any nation. Hams pursue their hobby purely for personal enrichment in technical and operating skills without consideration of any type of payment.

Because radio signals know no territorial boundaries hams have a unique ability to enhance international goodwill. A ham becomes an ambassador of his country every time he puts his station on the air.

Amateur Radio has been around since before World War I, and hams have always been at the forefront of technology. Today, hams relay signals through their own satellites. Through the OSCAR (Orbiting Satellite Carrying Amateur Radio) series, hams frequently work the world. They bounce signals off of the moon in earth-moon-earth communications, and use a wide range of other "exotic" communications techniques. Hams

SHIRTS, SHIRTS, SHIRTS

We are selling club shirts again. The announcement was made at the February meeting. We sold 21 of them that night, so it looks like there is sufficient interest. They are golf or polo style shirts made by Fruit Of The Loom, with a rib knit collar and sleeves. Terry, KQ5U, brought one to show at the meeting and it is a real nice medium weight shirt. It will be a light tan or beige color with the club logo printed in dark brown. There will be a large logo printed on the back and a small one about 2" diameter printed on the left front. They are selling for \$15.00 in sizes small thru large and add \$1.00 for each X added for size. Be sure to bring your money to the meeting if you want one. We accept cash, check or money order made out to NARS. No charges or I.O.U.s will be accepted. We will be ordering right after the meeting, so that will be your last chance to order one. We don't do this very often, so if you want a shirt make the effort to get your money in before the end of the March meeting. It's been four years since the last shirts, so don't miss this chance to get one.

-- 73, K5ZTY

send their own pictures via amateur television, talk with other hams around the world by voice, or keeping alive a distinctive, traditional skill tap out messages using Morse Code. When emergencies arise, radio amateurs are on the spot to relay information to and from disaster-stricken areas that have lost normal lines of communication.

The U. S. government, through the Federal Communications Commission (FCC), grants all U. S. Amateur Radio licenses. The licensing procedure, in which NARS participates via its Volunteer Examiner program, ensures operating skill and electronics know-how. Without these skills radio operators can unknowingly cause interference to other services, while using a common radio spectrum, through improperly adjusted equipment or neglected regulations.

To those of you who continue to need enhancement of your existing licenses, keep in mind that the Advanced Class license gives one access to most of the high frequency frequencies which may be used by amateurs. It is a very worthy goal,

(Adapted from ARRL materials)

-- Harry Gage, N5WIZ

VE Session Results

The February 27 Exam session in Tomball was very good. A total of ten candidates were examined on sixteen elements. All but one of the candidates went away with a CSCE, an upgrade or a new license. Two were certified for Novice Class, two for General Class, one for Advanced Class and one for Extra Class licenses. Several scored perfect papers on their written examinations, which is always encouraging to the examining VEs. One seventy-five-year-old candidate taking his first amateur exam passed thirteen wpm and Element 2 for his novice license. His grandson is studying with him but could not take the exam due to other commitments.

Participating VEs for NARS included K8CSG, WC5CW, W5SB and WA8GHZ. Compaq was represented by K5WH. Congratulations to all who scored so well!

-- K8CSG

DX News

*My sword is strength, my spear is song:
With these upon a stubborn field
I challenge QRM, fear and wrong
For DX is my shield . . .*

The Old Timer was puttering in his study when some of the QRPer kind of DXers burst through the door. "Hey! Guess what I worked last night," shouted one of the more vociferous ones? Warily, The Old Timer asked "What country was it?" "Clipperton Island," said the QRPer proudly. The Old Timer thought wearily that he knew nothing of any operations on Clipperton for several years, and he also knew that such operations are almost always publicized widely beforehand. "How do you know it was Clipperton," he asked, thinking that he already knew how the story would go from there. "Well," the QRPer said, "I worked this guy FO0XUU, plugged his callsign into my computer and it came up and said that was Clipperton. One of my buddies worked him too, and his computer said the same thing. He also said that Clipperton is a small island somewhere off the coast of Japan." The Old Timer nodded sagely and said "I hate to tell you this, but what you worked was the Austral Islands near Fiji, not Clipperton. Back in 1978 Clipperton was operated as FO0XG and since then most of the computer software has shown FO0 to be Clipperton -- wrongly misleading some of the newer DXers." "But both of our computers said the same thing, that it was Clipperton", cried the QRPer in an anguished voice. "Do you and your friend use the same logging software," asked The Old Timer? "Well, yes," said the QRPer, as realization spread across his face. "Be careful in depending upon computer software to tell you what DX you have worked, said The Old Timer softly. "You're not the only ones to have been misled like that. Ask a few more questions and read some more about DX, and you will not fall into that trap so often. And, after all, wasn't the Australs a new entity for both of you?" The group silently filed out of The Old Timer's study and, as they wound their way back down the hill he heard one of them say "Holy cow! How can one person know so much about DX? And how will we ever get to that point?" "Easy," thought the Old Timer. "You just have to keep breathin'!"

February began with the SFI in the doldrums, i.e., ~110, but with low A and K indices. Despite the low SFI, some good DX appeared, such as EP3PTT

n Iran. Several early morning long path openings also were observed. On Feb. 6 the SFI fell below 100, with an A index at 12. Despite these adverse numbers, some DX could be found. By mid-month, however, things had improved to an SFI of nearly 200. Unfortunately, the A index seemed to be following the SFI as it reached 22 at the same time as some of the contests approached. Shortly after the E44's made their appearances a major solar flare occurred which messed up the bands for all of the day on Feb. 18. The SFI fell a bit, and the A index rose to the high 60s.

LOCAL EVENTS: Loyd, KM5OE got February off to a good start, receiving QSLs for Iraq (YI), Christmas Isl. (T32) and Rotuma (T33). Iraq is always good DX and Loyd has a card for it. Nice going, Loyd! Heard W5SB work 5H3US right behind me. John, W5PDW, was overheard working LZ0A in the South Shetland Islands on my coattails. Michael, KM5LA, worked JT1M on February 17. We have a sleeper in our midst. Gerald, W5BA, continues to quietly knock off good DX and salt away his cards. He showed up at lunch the other day with a shirt pocket which almost concealed its contents -- DX QSLs. He had several really nice ones in there, to say the least. Still, he needs Zones 18 and 19 for WAZ. Hang in there, Gerald. They will come! KM5LA and W5SB worked E44/HA1AG in Palestine.

DX WORKED: EP3PTT (Iran) 20m 1407Z (not bad DX); 5A1A (Libya) 10m 1626Z; HL2LXM (S.Korea) 15m 2308; DU3NHK (Philippines) 15m 2331Z; RU0LAX (Asiatic Russia) 15m 2356Z; FO0XUU (Austral Is.) 15m 2312Z; VK9XX (Christmas Isl.) 20m 1339Z; FO0AWI (Austral Is.) 15m 2308Z; 5H3US (Tanzania) 15m 2024Z; A35RK (Tonga) 15m 2257Z; JA3CZY (Japan) 75m 1316Z; RZ9OO (Russia) 20m 0252Z; 9G1AA (Ghana) 15m 1647Z; 3DA0CA (Swaziland) 15m 1859Z; E44DX (Palestine) 15m 1440Z; 5H3RK (Tanzania) 10m 1934Z; VK9YY (Cocos-Keeling) 20m 1341Z; 9G5JE (Ghana) 20m 2334Z; T33VU (Banaba Is.) 20m CW 0334Z; C31UA (Andorra) 20m 2024Z.

DXHEARD/NOT WORKED: JL1KFR/JD1 (Minami Torishima) 15m; 9M6BZ (E. Malaysia) 20m 1600Z; E44/HA1AG (Palestine) 15m 1580Z.
QSL ROUTES: FO0XUU via DL5AWI; FO0AWI via DL5AWI; A35RK via W7TSQ;

VK9YY via W0YG; VK9XX via W0YG; E44DX via OH2BN; ZD8Z via VE3HO.

Effective October 1, 1999 Palestine will be added to the DXCC Entities List bringing the current total to 333. The prefix will be E4, and QSOs on or after February 1, 1999 will be creditable. There was a Palestine entity (ZC6) on the list until its deletion on July 1, 1968. Contacts with that entity counted if made on or before June 30, 1968. This new entity is not a return of the previous entity, since there is no commonality of territory or administration. Thus, some DXers may wind up with two Palestine entities on their DXCC records if they are a little long in the tooth with early successes.

There is a possibility that another new one may surface sometime soon. The Indonesian government is giving thought to granting independence to what is now known as the province of Irian Jaya on the western half of the island of New Guinea. If so another former DXCC counter will likely return to the DXCC List. What before Sept. 14, 1976 was CR8 and CR10 (Portugese Timor) may become another new country.

On Feb. 10 W5SB and I were chit-chatting on the infamous LIDNET when W5SB said "Hey, there's a JA3 spotted below 3800 on the DX cluster. I think I'll go down and listen for him." With no others on the LIDNET, I decided to go and listen for the DX also. To my surprise, I could copy JA3CZY very, very well. So well, in fact, that I thought I could probably work him. So, I tuned up my SB220 and when he finished the QSO in progress, I keyed the radio and said "JA3CZY, this is K8CSG". When I came off the mic button, I could hear W5SB also calling him. The JA3, whose name is Elvin, said "Hello Bill. What are you doing on 75 meters? How are things in Houston?" W5SB thought the JA3 was talking to him until he heard "K8CSG, this is JA3CZY". After exchanging pleasantries with Elvin, I told him a good friend was also calling him and asked him to listen for W5SB, who promptly worked him. Later, on the repeater, W5SB attributed my getting there first to call recognition. Since JA3CZY and I have worked each other many, many times over the past 25 years and easily recognize each other's voices, I agreed with Bill and assured him that he truly has a "competitive DX station"!

HOUSTON
AMATEUR RADIO
SUPPLY, INC.

George DiLetto, KDORW
President

Exit 68 I-45 North
181 Cypresswood Drive
Spring, TX 77388

800-471-7373
281-355-7373
Fax 281-355-8007

DX News - Continued

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After a successful run on VK9XX-Christmas Island, the DXpedition team moved over to VK9YY-Cocos-Keeling during the weekend of February 13-14, appearing on 20-meters on Monday morning. This is another of the locations which is somewhat rare and most frequently visited. Although signals were never really good from either location, both were worked without much difficulty.

E4A, representing the new entity of Palestine, showed up on Monday morning, Feb. 15. Needless to say, sheer bedlam followed. This is supposed to be JY4NE (Ali), but I could never hear him well enough to give him a call. Typically, those who cannot work DX were interfering with those who can. Hopefully this will wear off when some of the newness is gone from the new prefix/entity/country or whatever. Of course the usual array of pirates and slims was ever present. On Feb. 16 a guy showed up on 14195 signing E44DX. All of the QRPers said he was Martti Laine. I know Martti personally and have worked him all over the world, and it WAS NOT Martti Laine!!!! And there was the lady "DXer" who asked repeatedly "What the DX station's call?" When told it was E44A, she said "What's that?" Told it is Palestine, her next question was "Where is that?" Some DXer, eh wot? One thing about new countries -- it brings all of the wierdos out of the woodwork!! Martti (OH2BH) and friends arrived during the day of Feb. 16. One of his group was Bernie (W3UR) who authors "HOW's DX" in QST each month. They began operating as E44DX, working first on 20 meters. One hopes they will get some antennas up and bring some sanity to the operation. Another group, mostly Japanese, were due to arrive for completion of a hospital telecomms facility started back when they had operated as ZC's. They hope to operate simultaneously with Martti's group and to avoid mutual QRM. All in all, it should be a great opening of a new DXCC entity -- when the dust and the lids settle out. Mike, K5NZ, worked them on 75-meters on Feb. 16. Conrad, W5MN, got them on Feb. 17 on 15-meters, as did K8CSG and numerous others. After a major solar storm messed up the bands on Feb. 18, things returned to a more normal state on Feb. 19. W8VHN and K5VUU worked E44DX that day.

-- 73, K8CSG

FCC issues 5-MHz Experimental License to ARRL

The FCC has issued an Experimental Radio Service license to the ARRL to permit two-way tests in the vicinity of 5 MHz, the most likely site of the next amateur HF band. The license, bearing the call sign WA2XSY, was issued January 8. A group of 15 current amateurs in various parts of the US and the Caribbean will conduct experimental, two-way RTTY and SSB transmissions within the band 5.100 to 5.450 MHz. To avoid interfering with existing services, the participants will confine their operations to the least-populated 50 kHz segment.

"The idea is to show that an amateur allocation there will improve our emergency communication capabilities by filling the gap between the 3.5 and 7.0 MHz bands," said ARRL Executive Vice President David Sumner, K1ZZ. Sumner pointed out that several of the participants are phone net members in the Caribbean and Gulf area who frequently handle hurricane-related traffic and now must alternate between 75 meters and 40 meters. Other participants are members of a nationwide digital data-forwarding network.

The Experimental license is good for two years. Two studies by the National Telecommunications and Information Administration (NTIA) include an allocation at 5 MHz among the future spectrum needs for the Amateur Service. The subject is not likely to show up on the agenda of a World Radiocommunication Conference for several years, however.

Participants in the WA2XSY experiment may run up to 200 W effective radiated power. Similar multiband trap dipoles capable of operation on 80 and 40 meters as well as at 5 MHz will be employed at each station location. Operation by participants will consist of short transmissions to determine propagation characteristics.

Participating stations are located in New Hampshire, Tennessee, Ohio, Florida, Mississippi, Wisconsin, Indiana, California, Utah, New York, Texas, the US Virgin Islands, and Maryland.

QRP Stuff

(concluded from page 2)

front end and to be built out of parts easily available around the world. This is physically a very small radio that puts out 5 watts on the cw portion of 20 meters. A real fine suitcase transceiver.

Terry, KQ5U, ordered one of the kits last summer and received it in the mail around the first of February. The last I heard from Terry he was surrounded by a cloud of solder smoke. I'll be looking for Terry's comments on this one. Rumor has it that a commercial manufacturer will pick up the design on this one and it will be available to all in the future.

Last month I told you about the Small Wonder Labs SW40+ kit and the Nor-Cal club journal that was a tutorial on building it. Well the book is available to all now from Quicksilver Printing, P.O. Box 757, Socorro, NM 87801, for \$12.00 postpaid. Ask for the "Elmer 101" book. Another book Quicksilver has is the "Data Book For QRPers And Homebrewers", this book is a great source of info for the workbench. It covers QRP rig circuit analysis, electronic component data sheets, specific component data sheets, data on nut and bolt sizes, drill and wire sizes, coax and other cable info, how to figure and wind toroid coils and too much more to list here. The book has sold for 2 years for \$20.00 plus \$2.50 shipping but if you ask for the "Elmer 101 special on the data book" you can get it now for \$18.00 postpaid from Quicksilver.

Upcomming QRP operating events include the QRP-ARCI Spring QSO Party which runs from 7:00am Saturday til 7:00pm Sunday, April 10 and 11. Work 24 hours of the 36, and the Nor-Cal QRP To The Field which runs from 8:00am til 8:00pm Saturday, April 24th. Work 8 hours of the 12. Between these two weekends is the Belton swap meet on Saturday April 17th, so get your kitchen passes signed early.

-- 73, Unca'Zed

Welcome New Members

Robert York, KD5EMA
Doug Tees, KB5GTB
Robert Southard, KD5 FTZ

Ron Pearson, Ks5HZV
Debbie Pearson, No Call

NARS members extend their sympathy to Dianna Hudspeth during her recent stay in the hospital.
Congratulations to Jim Bawcom, KD5DNB, on his upgrade from Technician to Advanced Class; to Joey Clements, K5BAK, on his upgrade to Advanced Class; and to Bill, KC5QIT, on his upgrade to General Class.
Our thoughts are with those whose lives are affected by job cuts in the Oil Patch.
We hope this will be only a temporary interruption to their radio activities and their membership in NARS.

NARS Resource List

General Help:

Bill Stietenroth K5ZTY, 281/893-3901
Allen Majeski WA5REJ, 281/353-8653
Bill Denton W5SB, 281/469-8331

Antennas

O.J. Quarles K1OJ, 281/955-1555, HF
Larry McCain WA5SAJ, 281/469-6709
Madison Jones W5MJ, 281/350-4330

CW

Bill Gary K8CSG, 281/537-9240, DX
Bill Rister KC5EZQ, 281/537-8596
ATV

Satellite:

Deral Kent K5WNO, 281/548-7476
RS12/13
Dick Rooney W5VHN, 281/288-8424

Electrical Design, Troubleshooting:

George Carlson KC5RCC, 281/376-8307

Packet:

Don Bedell KA3BKU, 281/370-6576

VHF/UHF:

Brian Derx N5BA, 713/894-5942

Computer Operations:

Bob Argo KC5JZO, 281/288-7430

Computer Programming:

Keith Dutson WD5DXL, 281/351-7683

Interference (Basic Advice):

Harry Gage N5WIZ, 281/370-7488.
Mark Tyler 281/587-0256

Card Checking for Awards:

DXCC - Bob Walworth N5ET, and Linda
Walworth KE5TF, 281/363-0209
WAS, VUCC - Brian Derx, N5BA
281/894-5942
WAZ - Bill Gary K8CSG, 281/537-9240

NARS Public Information Officer:

George Levandoski, KD5AYF
713/895-0700 kd5ayf@juno.com

NARS Information

PRESIDENT & BOARD CHAIRMAN

H. O. Townsend WA5MLT 281/376-7416
wa5mlt@flash.net

VICE PRESIDENT

Jack Dougherty WA8GHZ 281/856-7768
jdougher@wt.net

SECRETARY

Bob Argo KC5JZO 281/288-7430
bobargo@infohwy.com

TREASURER

Keith Dutson WD5DXL 281/351-7683
kdutson@swbell.net

DIRECTORS

Joe Sokolowski KD5KR 281/353-2196
kd5kr@juno.com
Jim Kirk KJ5X 281/376-0718
jrkirk@flash.net
Allen Majeski WA5REJ 281/353-8652
wa5rej@flash.net
George Edwards, K5VUU 281/376-4209
gedwards@onramp.net

VE EXAM COORDINATOR

Bill Gary K8CSG 281/357-9240
bsnn87a@prodigy.com

ADMINISTRATIVE SECRETARY

Marian Denton KB5SGV, 281/469-8331
w5nc@juno.com

*Call Marian for general information
about NARS. Send address, phone, e-mail
and other changes to:*

NARS Administrative Secretary
P O Box 690342
Houston, Texas 77269-0342

NETS

10M Ragchew: Monday 8:00 PM. 28.444
Coordinator: Jim Kirk KJ5X
jrkirk@wt.net 281/537-0718

2M Information: Wed. 8:00 PM. 146.66
Coordinator: Bill Gary K8CSG
bsnn87a@prodigy.com 281/537-9240

WEB SITE

URL: <http://www.flash.net/~nars/>
Webmaster: Ben Worell KM5OT
km5ot@bfweb.com 409/773-4484
Trustee: Walter Hock KK5LO
kk5lo@flash.net 281/350-6633

REPEATERS

2M -- 146.060/146.660 (KA5AKG)
70 cm -- 449.375/444.375 (KA5AKG)
Digipeater -- 145.710 (W5NC alias NARS)

MEETINGS

Monthly General Membership at
Spring-Cypress Presbyterian Church
6000 Spring Cypress Road
Third Friday each month -- 7:30PM
Saturday Breakfast at Victors Restaurant
7:30 AM
Wednesday Lunch Bunch at various
locations 11:30 AM (Info. on 146.660)

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Editor: Bill Gary, K8CSG
281/537-9240
bsnn87a@prodigy.com

Send all articles and materials other than
email for the Newsletter to:
NARS Newsletter
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Houston, Texas 77068

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