432 AND ABOVE EME NEWS
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THE NL WEB VERSION IS PRODUCED BY W6/PA0ZAND AVAILABLE AT http://www.nitehawk.com/rasmit/em70cm.html.

CONDITIONS: The reports indicate that both conditions and activity, especially on 70 cm, were good during the March activity weekend – this is usually the case when I'm out of town and cannot operate - hi. The April AW (16/17) are also the first leg of the EWW (DUBUS/REF) EME Contest. This part of the contest is for operation on operation on 23 and 3 cm. The second part on 14/15 May is for 13 cm (and 2 m) and the final part in June will cover 70 and 6 cm.

1296 EME SSB CONTEST RESULTS: The submission deadline has come and the scores submitted tabulated. The *top fun maker* for 2005 goes to OE9ERC with 708 points. In second place is G4CCH with 495 points and K2UYH is third with 410 points. See the last NL for other high scores.

3A/DL3OCH portable on 23 cm EME in Monaco

DL3OCH: Bodo dl3och@gmx.de had to travel to the south of France the week of 27 March and was able to take his single yagi portable 23 cm station with him –- I made a quick trip to Monaco and wanted to do QSOs with DJ9YW from two grids that he still needed. Unfortunately I didn't have enough time to plan in advance so I couldn't announce anything and make many skeds. I made a QSO with DJ9YW from JN34 and JN43. I also made a QSO with OE9ERC from JN43 and wanted to try it with K2UYH but that didn't work. It was good that EME was possible so late in the night, so I could be active from 3A again. It's always difficult to operate from there and the later in the night the better. I QSO'd OE9ERC and called K2UYH for 50 minutes, but it became very cloudy and we didn't work. [The low elevation, < 15 degs, was a problem at my end.] I made 4 QSOs on this trip. I hope to make more QSOs in the future and am interested in trying some skeds from home. Stations wishing a schedule should e-mail me. They should have at least a 4.5 m dish and >= 300 W TX power. More trips are planned for this summer, possibly to EI and MI.

DL5LF: Frank frank.dobert@gmx.de writes – High winds damaged my antenna while I was on a business trip in India in Jan. Currently there is no operation possible and due to lack of time. I do not know when I will have something reassembled. Unfortunately every 1-2 years my antennas do not survive the stormy season at the sea side, where I live.

DL9KR: Jan bruinier@t-online.de found good condx with good WX and activity during the March SW. He worked PE1ITR (549) with a loud signal. Other QSOs were worked as well. OZ/OH3MCK heard DL9KR faintly and M0EME on 432.070.

DL9JY's 70 cm 4x29 el ARRL contest yagis

G3LTF: Peter g3ltf@btinternet.com writes -- Most activity in March was outside normal weekends. Starting with 432 MHz, on 12 March I worked G4ALH, G4RGK and OZ4MM, on 13 March S53RM - who had an excellent signal for initial #386 and PA3CSG, and on 20 March I5CTE, DK3WG, N9AB and KL6M. On 1296 MHz I QSO'd on 13 March G4CCH and IW2FZR for initial #212 - Dario has taught himself CW and asks that everyone be patient and keeps the speed down, but he has a good signal and should be workable by many, K9SLQ, ON7UN and LA9NEA, on 20 March K5JL, and on 21 March N2IQ, VE6TA and K9SLQ - NA4N was heard. On 25 March I had a sked on 432 with PE1ITR. He was good copy from his small antenna, but on the second period my polarization drive motor stopped working with the dipoles in exactly the wrong position for Rob to hear me. Murphy hasn't been here for a while... I guess I was due a visit. I'm still busy changing a lot of units around in the racks and eliminating HV tube type PSUs to accommodate the solid state PAs for the higher bands. It's a big job!

G4ERG: Peter g4erg@g4erg.karoo.co.uk IO93sr reports nice activity on 70 cm during the March AW – I worked on random WA4NJP, NC1I, KL6M, N9AB, SV1BTR, DL9KR and PE1ITR (2 yagis) for initial #189. I heard RW3PX, PA3CSG, K0RZ, K1FO, UT2EG and a few others. I also worked in skeds during week WA6PY #190 (single yagi) - many thanks Paul and UT2EG #191. I am running 16 x 10 el (pol rot) yagis, 2 x 3CX800a7 PA and MGF1302 LNA, and am looking for skeds for the next AW.

IK2MMB: Sergio ik2mmb@email.it reports on his random activity on 1296 in March – Libration was heavy and variable. This SW was perhaps a little slow, but not too bad for me as it brought a couple of initials. QSO'd were JH1KRC, ON7UN for initial #118, IW2FZR, F2TU, VE6TA, K5JL, WB5AFY #119, K9SLQ, N2UO, G4CCH and OZ6OL. All the activity basically took place on 19 March. On the 20th the only QSO was OZ6OL. On the 20th I missed the east window and worked the west window waiting till moon rose in California. I heard K5JL calling briefly, N2UO calling and then having a contact with OZ6OL... and that was it. Sadly ham and non-ham activities are quickly building up in this area around 1296 and starting to cause interference. I need to evaluate these signals to find solutions to the QRM as tighter band filtering and a higher IMD RX chain. Life's never too easy.

JH1KRC: Mike jh1krc@syd.odn.ne.jp reports that he has received a special permission from JA telecom office for EME microwave high power transmission tests -- The transmit power and frequencies will be 500 W on 5760 and 300 W on 10.450 GHz. Operation will be CW, SSB, and JT (except JT is not presently allocated on 5.7 GHz in JA). The TWTAs and transverters are almost ready for use, but still need a receive converter for 10.368 GHz. I will first test the station's performance using the present 4.4 m TVRO dish. In JA, it is very difficult to locate surplus solid dishes of this size. I also need some more effort on the antenna feed systems. I am looking for waveguides rotary joints and some more flexible waveguides both for WR-137 and WR-10. (WR-112 might be a good compromise for the both bands.

K0RZ: Bill k0rzeme@aol.com reports he QSO'd on 70 cm CW on 12 March SM3BYA for initial #320. SM3BYA had to snow shoe into his station at the farm for the schedule. On 19 March Bill had random QSOs with S53RM #321, SV1BTR and UT2EG #322. High winds kept Bill QRT on 3/22. Pending weather he plans to be QRV on 70 cm CW during the April AW.

K1FO: Steve Powlishen steve@lunarlink.com writes -- I did not have much time for EME during March, but I was able to QRV for a few short periods and added initials 20 Mach with DK9JY for #622 and on 26 March with PE1ITR for #623.

K3MF: Wayde K3mf@aol.com in FM19xp (MD) is one of the new comers to 432 that operates both CW and JT65 – I changed my antenna system because I was not happy with my receive performance. I now have 4 x 19 RIWs and am also running an K2RIW PA with 600 W output. I worked N9AB and W7AMI both on JT65B during the March AW. I also ran a sked with KL6M, on 26 March. I found Mike's signal after 6 sequences, but could not copy calls well enough to complete before the moon went down. Mike reports he copied me solid at about the same time. Trevor, VK4AFL, listened in and said he copied me also. So a QSO was not completed, but it is very encouraging knowing I am making the trip! I will be adding 4 more antennas to the system in the near future.

K5SO: Joe K5SO@direcway.com reports his 28' dish is mounted on the tower and that the control system is working on PA but has been having problems. Both his TH-328s were bad. He has shifted his focus to a YD-1336 cavity.

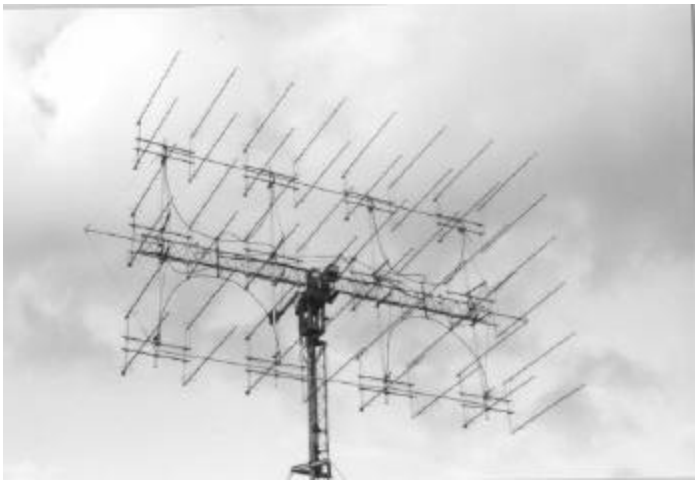
K7XQ: Jeff k7xq@elite.net updates his status – On 432 I have sold my 2 X 4CX400 PA and having a single GS-35b built for this band. I should have it on-line in a few months. On 1296 I am still looking for some help on how to mount my 14' dish. I have the dish, but no mount for it. On 10 GHz, I'm wondering if my new DEM 10 GHz transverter would work for EME? [Definitely with a TWTA and LNA].

KL6M: Mike kl6m@qsl.net was QRV for the March AW on 432 – I worked VK4AFL (569/559), PA3CSG (559/559), JA6AHB (559/569), SV1BTR (549/559), G4ERG (539/559), PE1ITR (O/O) for initial #145, RK6MC (O/O) #146, UT2EG (539/539) and N9AB (559/449). Hear were DL9KR S-8, RW3PX - very strong and DL9JY. Any skeds welcome. I am watching my email and http://oh2aq.kolumbus.com/dxs/. I hope to solve my 23 cm problems be QRV again there.

LU8EDR: Daniel lu8edr@uolsinectis.com.ar writes that he is definitely QRT on 23 cm EME -- My 7.2 m dish was removed last week. There are many reasons. I lost my job one year ago, and the RF stuff is now much too expensive and very hard to find down here. I am moving my effort to 222 and working with LW9ELE (250 Km from here), a friend with the same internal flame. We are already measuring Sun noise.

M0EME: Paul paul@m0eme.freeserve.co.uk (IO93gf) made his first EME contact in March – I QSO'd DL9KR on 432 using 4 x FO19 yagis and 100 W at ant. It was fairly easy and Jan heard me on the 2nd transmit period. He had a nice steady loud signal. I need to brush up on my operating procedures as I got a little confused what to send and when. Earlier in the evening NC1I was heard and replied, but he had trouble at his end and we didn't complete. Frank had a strong signal at my end. I also had a sked with OZ4MM. Stig's signal was also nice and strong. He came back to me, but then all went quiet? I heard him later in another sked. So all in all I'm a happy operator.

NC1I: Frank frankp@gcq.net has sadly decided to close down operations on 432 EME -- After nearly 25 years of 70 cm EME activity I have made my last EME QSO. I put much effort into repairing my mount this past winter and was very excited to return to EME after a 3 year absence. The 48 yagi array seemed to work as good as the day I first completed it over 10 years ago. I quickly learned that activity was nowhere near what it had been just several years earlier. Random activity was very sparse. I spent countless hours during what I thought would be good activity times calling CQ only to hear just my own echoes booming back. I was completely unaware of the ongoing "debate" over the new modes. After subscribing to Moon-net I became sickened by the constant bickering regarding this. Some seemed to make it personal. There was far more energy going into the battle of the modes than there was going into EME operation. The bickering seems to have reached new levels over the last several days. Hopefully the EME community can come together on this or it will not survive. I know that by giving up I am part of the problem, but my time is too valuable to spend listening to my own echoes most of the time. More importantly, when my favorite hobby is raising my blood pressure, it is time to move on to something else.



NC1I's 48 x15 rear mounted K1FO arry

N2UO: Marc lu6dw@yahoo.com reports on his March 1296 activity and concerns about t he EME contest rules – The March SW was quite an interesting one. On 19 March I worked on 23 cm GW3XYW, K9SLQ, G4CCH, F2TU, IK2MMB, VE6TA, DF4PV, and WB5AFY for initial #56. All QSOs were on random CW and most of them originated after my CQ. Conditions were good and libration fading was not a bother at all. The next day, 20 March I only worked OZ6OL and found very little activity compared to the day before. As a result I did not stay on for a long time. On another topic, I was very surprised to see the ARRL EME Contest results. The ARRL accepted a bunch of logs that violated the rules. Those logs should have never been sent in the first place. If they violated the contest rules, even if they added something like "I violated the rules on purpose for a good reason", those logs should have been sent only as check logs. In any case, the ARRL accepted them as valid, which is a shame! The QST report suggests that in 2005 there might be an "Assisted Category". I agree with this, but, what about the 2004 results? No comments on that? Fortunately, this sad event mostly affected the 2 m band, so those who enjoy 23 cm EME are still OK, for now.

NA4N: Greg na4n@direcway.com has a much improved signal with his new PA. In March he added initials with SM4CEW, N2IQ and at least 4 more. Greg is pleased, but still working on the combining of his 2 cavities. He is getting 500+ W, but wants to shorten the cables, etc to try to improve the efficiency.

OE9ERC: Erich erich@oe9erc.com sends his Feb SSB Contest results -- During the Feb AW on 19-20 Feb I was QRV on 1296. The activity on 1296 in the SSB contest was very good. I worked ON7UV (55/55) for initial #302, LX1DB (56/56), OZ6OL (54/54), OH2DG (54/53), SK0UX (54/57), I0UGB (54/54), F6KHM (57/57), HA5SHF (44/55), DL1YMK (44/55), F1ANH (43/45), OE5EMY (55/57), G4CCH (56/57), GW3XYW (55/57, OH6NVQ (559/54), LA9NEA (54/55), K9SLQ (57/57), HB9SV (59/59), WB5AFY (56/57), K4QI (55/56), K0YW (55/57), OZ4MM (56/57), K2UYH (56/56), K5JL (54/57), K5GW (56/57, W7BBM (55/57), VA7MM (559/53), N2IQ (55/56), VE6TA (559/53), G3LTF (56/57), WA6PY (55/56). My SSB contest score was 28 (SSB QSO) and 3 (CW-SSB OSO) x 12 grid sectors (CN, JN, JO, IO, KP, EN, EM, IN, DM, DO, FN, FM) for 708 points. Feb was also special for me because on 5 Feb at 0903 I worked ZS5LEE for initial #300. My standing on 1296 is up to initial #302 and DXCC 48. On 13 cm I have initial #63 and DXCC 23.

S53RM: Sine s53rm@lea.hamradio.si was active on 70 cm in March. QSOs were on CW unless marked as JT65. Worked in March were NC1I, KE7NR on JT65, SM2CEW, OZ4MM, G3LTF, KI0LE on JT65, G4ERG, DK3SE on JT65, EA3DXU on JT65, PA3CSG, N9AB on JT65, KE2N on JT 65, DL7UAE on JT65, PE1ITR on JT65 and SM2ILF on JT65.His HB YL1055 amplifier is

working well. He still has to modify the dipoles on his home made 8 x 8.5 wl BV OPT yagi array on fiberglass boom with open wire (8 mm Al) feed system. He is looking for QSOs with Asia, Africa and South America and New Zealand. He is open for both JT65 or CW skeds.

SM2CEW: Peter sm2cew@telia.com reports good activity on 70 cm EME during the March AW. He worked DL9JY, SM3BYA, S53RM, NCII, DK3SE, DL9KR and OZ4MM. All QSOs were on CW.

SV1AWE: Bob bkou@cpi.gr has joined the fraternity of 70 cm EME enthusiasts -- I will be active on CW and JT. My station consists of 4 x 21 el FT yagis and 0.35 dB NF LNA, but for the moment my power is only 50 W. Soon I will upgrade to LZ2US power level (1.5 kW in late May). My locator is KM17vu in the city of Athens – with its QRM. I have full elevation, but preferred elevation at moonrise and moonset >15 degs due to noise. Tnx to my good friend SV1BTR for his help and encouragement. He is the only reason that I am QRV!

VA7MM: Mark's lunarlink@hotmail.com group was QRV EME in Feb – We were active on the 23 cm band in SSB EME Contest on 19/20 Feb. SSB stations QSO'd were OE9ERC, LX1DB and HB9Q. G4CCH (on SSSB) was contacted on CW. Also in the VA7MM log is K4QI for a CW to CW QSO. Participating at the station were Toby (VE7CNF), May (VA7MAY) and myself.

VA7MM's 1296 dish

VE6TA: Grant ve6ta@telusplanet.net reports – I found conditions quite good with some libration fading evident during the AW on 1296. Stations worked were G4CCH (559/559), F2TU (569/559), K9SLQ (569/549), IK2MMB (559/549), N2UO (339/339), JH1KRC (449/549), NA4N. I thought there was a poor turnout from Europe despite the good conditions. The JA window was quiet with only JH1KRC and K9SLQ heard.

VK3UM: Doug tikaluna@ycs.com.au a long time advocate for a clear distinction between CW/SSB and digital modes in our EME techno-sport, sends the following thoughts – I believe all are aware of my views regarding the need for a separate section for Digital Modes (DM). Votes taken at Prague and Trenton favored this separation, but there now appears to be a very small minority that wishes to keep the category status quo - keep CW and DM as one category. There is irrefutable evidence suggesting that the vast majority of EME operators favor separate categories and separate and combined accreditations, (I believe in accordance with existing ARRL policy). I am particularly troubled by the controversy arising from the 2004 ARRL EME Competition concerning the non-existent "assisted category". After the first leg of the ARRL Contest several operators got caught red handed breaking the rules. There was absolutely no way they could deny it this time, and the "assisted category" was coined. This has been going on for years, long before DM came along and will continue as long as there are contests. DM just brought it to a head. The ARRL subsequently published these results. By accepting clearly marked "assisted" logs, contrary to their own rules, the ARRL has shed doubt on the validity of their contest results. The solution appears so simple and just plain commonsense. Add another category to the traditional AM, CW, RTTY, etc, modes. Accept specific and a combination of mixed modes for accreditation purposes and publish accordingly. I am not a member of the ARRL, but I hope EME operators that are ARRL members will take the matter up with the ARRL and resolve the situation for the benefit of our hobby. I am aware the ARRL requests input from their members with respect to contest dates, etc, and I would hope they would similarly accept recommendations from the participants. My own association, the Wireless Institute of Australia, the oldest Amateur Radio Association in the World, (1910), of which I have been a member for 49 years, has already created a new classification for Digital Modes commensurate with Phone, CW and RTTY and not meaning to sound impertinent, it would seem fitting if the ARRL saw fit to do the same.

W6IFE: Doug (K6JEY) dougnhelen@moonlink.net writes that you can expect a BIG signal off the moon from CA in the near future -- The San Bernardino Microwave Society and the Owens Valley Radio Observatory are working together to use their 40 m dish near Bishop, CA for educational projects and for EME on 23 cm and 10 GHz. The project has been in development for about a year and has come to a point where we can make an official announcement. We are intending to be on the air for the fall and spring EME contests and at other times with educational projects. This will be an on going project between OVRO and SBMS. We will be running about 10 W output and 70 dB gain at 10 GHz and 100 W output and 53 dB gain on 23 cm. It is hoped that stations running a 3-4' dish and 20 W will be workable on 10 GHz on CW. At this point we are in need of the following donations or long term loans: A 10 W PA for 10 GHz and the 100 W PA for 23 cm. Please let us know if you can help.

K2UYH: I have very little to report this month. I was away primarily on business travel for 2 weeks. This time covered the March AW and the 2nd best EME weekend. When I returned Murphy decided to visit. I had problems with my 1296 PA and my computer clock jumped an hour, which cause me to on at the wrong time and incorrectly pointed at the moon. The end result was that the few skeds I ran were a disaster. Things do not look that much better in April. I have to travel again and am tied up running the Trenton Computer Festival www.tcf-nj.org. during the AW and EWW Contest weekend – this is an activity I have been involved with almost as long as EME.

NETNEWS BY G4RGK (BASED on K1RQG's Netnotes): WD5AGO is QRV on 13 cm and is seeing 11 dB of sun noise with an 8' dish. **K0YW** will not be QRV for the April AW because of travel to CA. Bruce is getting a GS-15B PA for 23 cm. **F5VHX** is temporarily QRT on all bands except 20 m while he rewires his shack. Graham is also working on the remote control by computer of complete station including EME. When complete he should be able to operate EME from his town house. **SM4IVE** may be going to Dayton and asks if there are any EME ops going as he would like to me with them? **K7LNP** expects to be QRV from UT (DN30xp) on 432 EME with 4 x 25 el yagis and HPA. Pat has tested his Lunar Link 432 PA and is getting full power. **VE4MA** is putting the final touches on the 47GHz gear and plans to be on for the 18/19 April AW. **JA6AHB** notes the link from the 432 & Up web page now correctly point to his site at http://www15.plala.or.jp/ja6ahb/page020.html. **K1RQG** has a new postal address: 79 Orcutt Mountain Rd, Bucksport, ME 04416. **N8CQ** now has 12' dish in hand and has starting work on a PA for 1296. **KY5R** is working on a dish mount. **WB5AFY** lost a tube in PA while in contact with OZ6OL during the March AW. He worked several others before amp died. He is now QRV again. **W2UHI** was snowbound much of March, but was QRV after the AW and worked N2IQ and K9SLQ. **K5JL** worked about a dozen stations during the March AW including JH1KRC. He did not hear any other JA stations. **PA3CSG** was active on 70 cm during the March SW. Geert worked SV1BTR and others. **DJ5RE** is QRT on 70 cm EME.

FOR SALE: HB9BBD has more of his super low noise 23 cm preamps for available for sale – see http://www.hb9bbd.ch/article.php3?key=26. **N8CQ** is looking for parts for an HPA. He now has a G3SEK protection board and is looking for a transformer around 1400 V at 1 A and other power supply parts for a GS-15B. Contact him at gabercr@nc.rr.com. **K7LNP** is looking for a >= 12' dish that is available local to Utah. Contact Pat at ka9lnp@prodigy.net. **JH1KRC** is looking for waveguides rotary joints and flexible waveguides both for WR-137 and WR-10 – see Mike's report.

TECHNICAL – ROTATOR SPEED CONTROL FROM RANDY, K9BCT: Stations wanting to use the G-5500 rotor for EME will find it fast. But, with only 4 yagis, unless they are extremely long, you can get by with it as is. I used the predecessor (G-500?) with my 4 yagi on 432 for some time. When I went to eight yagis (2 x 4), it was a little too fast for the horizontal rotation. I found an article in QST that was published many years ago that put a speed control in line with the rotor motor. Basically a 555 timer circuit was used to pulse a triac at different rates to make the rotation variable. This slowed the motor without losing torque. I can't to find the article, but the idea works fine and is really

simple. I built the circuit on a 1" x 1" perf board. I still use the rotor and the circuit. I can vary the rotation from its normal rate of about 1 RPM to less than .25 RPM, which is fine for my array size.

EME CONTROVERSIES: I am afraid too much has been said already about the recent controversies surrounding EME operation. But I fear there are many new comers and some old timer as myself who do not fully understand the issues. It is important to realize that there are several separate, but related questions, which I will try to explain. The most basic deals with how the new digital modes (DMs) will be treated for awards (WAS, WAC, DXCC, initial counting, contests, etc). I think most of us accept that the DMs are a distinct form of modulation as CW, SSB, RTTY and should be treated as such. The problem is that in the past no one was concerned about mixed modes awards. CW had such an advantage over any other mode in weak signal performance that it was obvious the first awards would be primarily for CW QSOs. The new DMs offer better weak signal performance than CW, so it is now possible that awards, the first 70 cm DXCC for example, could be achieved with a number of DM QSOs. A second question concerns whether DM contacts fit the definition of what constitutes a QSO. This question is not new. In the past, mainly because of lack of CW ability, people have tried to substitute simple codes (a repeat on-off sequence for calls) to represent large amounts of information. This technique has been referred to as block encoding. Extreme block encoding is clearly not acceptable, but as hams we have always used some block encoding. The Q-signals, 73, EME O and M reports are all forms of block encoding. SM2CEW argues eloquently that the short codes used in JT65 for ORs, Rs and 73s are trivial and that "detecting the presence of two tones or their alternating period is not a secure reporting system." The form of modulation used in WSJT is FSK and it is just as unique, if not more so than the "On and OFF" keying of normal CW. The real question is how much block encoding is acceptable. I must admit that I had reservations when I first heard about JT65's short hand messages, but the truth is that there is no more block encoding than in a normal EME QSO. A more complicated question is the use of a library of calls sequences and correlation to search for a call set buried in the noise. Some operators are concerned that if the *answer* is in the computer beforehand, it just might pop out by chance or worse. G3LTF has argued that this technique should be investigated by an independent committee to insure that it does not violate the rules defining a QSO. Peter is very concerned that we achieve a consensus on what constitutes a QSO and that difference over this issue could break theme community apart. K1JT, the originator of WSJT, replies that there are thousands of calls in the library and that a chance detection has virtual zero probability. From my experiences with JT65, I tend to side with K1JT, but I also know any system can be abused and that caution should be applied. The third issue relates to what is called an *Assisted Class*. In low band DX contests an *Assisted Class* station can use Internet spotters during the contest to locate rare DX stations. In ARRL VHF/UHF contests the use of the Internet for assistance during the contest is prohibited. During the 2004 ARRL EME Contest a number of stations used the Internet for assistance and in some cases even said in their contest reports that they were using the Internet, yet the ARRL accepted their logs. This decision is the cause of the latest uproar. Most of the stations using Internet assistance were operating DM, and thus this controversy's association with DM operation, even though the use of the Internet with CW would also violate the rules.

FINAL: I hope the above discussion helps explain what I consider are some very difficult questions. As has been observed in the past, change does not come without pain. I do not have the answer, but I know it is important that reach agreement, if our hobby is to grow.

For those of you attending the Dayton Hamvention, all EME enthusiasts are invited to attend the 12th Annual VHF Weak Signal Group banquet to be held on Friday evening May 20th at the Holiday Inn Dayton North, 2301 Wagner Ford Road, Dayton OH 45415. The cash bar opens at 6:15 PM with plenty of room to mix and mingle with VHFers from all over the country and around the world. The two entrée sit-down dinner will be served starting at approximately 7:15 PM and with prizes drawn at 9 PM. Reservations are required. Cost per person is $35 and includes dinner and prize ticket. Seating is limited to 125 and spouses are welcome. For tickets please send $35 per person and SASE to: Tony Emanuele WA8RJF, 7156 Kory Court, Concord, Ohio 44077-2221. Please include the names and calls of all attendees as well as an email address. For more information contact Tony at WA8RJF@ARRL.net or Tom at WA8WZG@WA8WZG.com.

The 2005 Microwave Update (MUD) will be hosted by the San Bernardino Microwave Society and the Western States Weak Signal Society. It will take place on 27/30 Oct at the Sheraton Cerritos Hotel near LA. If you are interested in writing and/or presenting a paper contact Chip, N6CA at n6ca@ham-radio.com. For more information see http://www.microwaveupdate.org/.

In response the errors reported by F1EHN in the 10 GHz results of the 2004 ARRL International EME Competition, Joel, W5ZN apologizes and reports that the scores have been corrected and are on the ARRL Web page. In addition, the contest write-up on the web has been corrected and revised, and a statement has been added noting the 18 contacts on 10 GHz by F6KSX in 2001.
The dates for the 2005 ARRL International EME Competition have been decided and are for operation on 50 through 1296 on 22/23 Oct and 12/13 Nov, and for 13 cm and above on 24/25 Sept.

Please keep the news and views coming whether by direct e-mail reports or through K1RQG and the 20 m net. The best antidote to the current malaise is to generate EME activity – be active! Let's make the 2005 EWW (DUBUS/REF) Contest the best ever! 73, Al – K2UYH

Why Tom W2DRZ is careful when he check his dish at night

ON7UN's new TH327 1296 BIG PA