432 AND ABOVE EME NEWS
JUNE 2005 VOL 33 #6

EDITOR: AL KATZ, K2UYH; ENGINEERING DEPARTMENT, THE COLLEGE OF NEW JERSEY, PO BOX 7718 EWING, NJ 08628
TEL (W 609-584-8424) OR (H 609-443-3184), FAX (609-631-0177), E-MAIL a.katz@ieee.org
PROD/MAIL: BRIAN MULLANEY, KB2TIS (609-883-6390), E-MAIL mullaney@mccc.edu
NETNEWS EDITOR: G4RGK, DAVID DIBLEY, E-MAIL g4rgk@btinternet.com (based on K1RQG's Netnotes and Reflector News)
EME NETS: 14.345, 10 AM ET SATURDAY AND SUNDAY (AFTER VARO NET ENDS ON SUNDAY)
NET CONTROL AND SKEDS CORDINATOR: JOE, K1RQG, TEL (207-469-3492), E-MAIL k1rqg@aol.com
EME DIRECTORY: http://www.dl4eby.de/, DL4EBY/DK0TU, KLAUS TIEDEMANN, TEL (49-30-7955467), E-MAIL: tklaus@snafu.de
NL EMAIL DISTRIBUTION and EMAIL LIST CORD: WARREN, W2WD wbutler@comcast.net [TXT OR PDF OR "ON WEB" NOTICE]
EME STANDINGS: DAN GAUTSCHI, HB9CRQ/HB9Q E-MAIL hb9crq@hb9q.ch OR SEE HIS WEBPAGE AT www.hb9q.ch.
THE NL WEB VERSION IS PRODUCED BY W6/PA0ZAND AVAILABLE AT http://www.nitehawk.com/rasmit/em70cm.html.

CONDITION: The 13 cm part of the DUBUS/REF EME Contest now known as the European World Wide (EWW) EME Contest was without question a great success! There appeared to be more activity than even during the ARRL Microwave Contest. G3LTF has suggested having another 13 cm only weekend before the end of the summer. The problem with single band contests is that they draw activity from the other bands. Activity on 70 and 23 cm was certainly affected by the 2.3 GHz bash. 432 will get its day in June, on the 11/12th... and from what I have been hearing it should be good one too! Besides contests, it is dxpeditions that most keeps the moon activity high during the summer. Thus far I know of one dxpedition planned for 1296 to Andorra from 24 to 27 Aug under the call C31TLT – see report below. Hopefully we will have a few more announcements before the summer ends.

OA4O's 8 m dish – Stayed tuned for news of renewed 432 and 1296 EME activity from Peru

ARRL JUNE VHF CONTEST: This month's activity weekend (AW) and 432 EWW EME Contest also coincides with the ARRL June VHF Contest. EME contacts count in this contest. The exchange is you're short grid locator (4 character). Be on the lookout for high power NA contest stations trying to pick up extra multiplies and contest points via EME on 70 and 23 cm.

HIGH CONTEST SCORES: F2TU has the lead 25x19 followed by OZ4MM 23x18, K2UYH 20x16, W5LUA 19x?, G3LTF 16x13 and from Asia JA4BLC 11x7. OE9ERC and LX1DB also probably have high scores, but we do not have reports from them.

C31TLT: Josep (EA3DXU) ea3dxu@urcat.org writes that plans have been finalized and that C31TLT (JN02sk) will be QRV on 23 cm with CW and JT65C Mode between 24 and 27 Aug. The station will consist of 8 x 35 el yagis, LNA lent by HB9BBD and 250 W PA with GS34 from DJ3FI. Skeds can be arranged in advance via K1RQG k1rqg@aol.com. See their web page www.qsl.net/c31tlt/eme23cm.html for additional details.

F2TU: Philippe f2tu.om@guideo.fr was active in the second part of the EWW (DUBUS) EME Contest on 2.3 GHz – I scored 25x19 in the contest with initials to JA8IAD for #43, RW1AW #44 and on SSB with SK0UX (55/56), OE9ERC (55/55), LX1DB (56/56) and K2UYH (33/54). I used a new solids states PA with 2 x MRF21125 for 200 W out. Details can be found on my web page at http://F2TU.perso.wanadoo.fr.

G3LTF: Peter g3ltf@btinternet.com says -- The Great News this month is that 13 cm at last has caught fire! The e-mails were flying round afterwards between many of the participants comparing experiences, etc. - terrific fun! This was real EME. You need to get the news out in the US a bit more, but in Eu and JA, I think we have passed the critical take off point and cross-band operation is becoming "normal". In my listing * means a cross-band QSO. I worked on 14 May OZ4MM, HB9SV*, OK1CA, JA4BLC*, SK0UX, F2TU, K2UYH* and W5LUA*. I had much trouble keeping the power up on my 2 tube PA (150 W in the shack with 5dB cable loss to the feed). It kept de-tuning, so there was only about 25 W at the feed in practice. I decided to rig a 55 W SSPA directly at the feedpoint. The WX forecast was good, so I put the mains P SU on the base of the dish and ran power cable to the feed. I arranged some TR switching, fed 30 W of drive up the normal TX cable and had 55 W at the feed with no drift. I missed the JA window, but it made a big difference to the signal. I Then worked OK1KIR, (it was really good to hear them back on after all the flood damage), G3LQR, OE9ERC*, LX1DB, ES5PC, F1ANH #32, K2UYH* (dup) - my rept now (559) against (339) the previous day, and WA6PY*. I heard WA9FWD, IK2RTI and RW1AW (O) copy. I CWNR JA6CZD, JA8IAD, OH2AXH, VE6TA, SM3AKW and ZS6AXT. I know that SM3AKW, VE6TA and ZS6AXT also heard and called me. These are the vagaries of cross-band operation. I found I could easily read my SSB echoes with the 55 W at the feed. 16 worked out of 24 stations active is the best ever on 13 cm for me. I suspect that if I had the SSPA at the feed on both days, I would have worked at least 4 more. I hope to have some more power at the feed soon. The lash up was a good test; I now have a clear idea of what I need in the way of waterproof shelters, extra cable, etc to run the SSPA at the feed. My 3.4 GHz set up will be the same when it gets finished. Yoshi, JA4BLC deserves thanks for organizing the JA activity. It was good to hear 3 JAs all on 10 kHz spacing with good signals. I propose that we try and have a 13 cm test day again in the summer, maybe in July? What does everyone think?

G3LQR: Simon G3LQR@aol.com reports on his EWW 13 cm contest operation – I worked 10 station in the contest: F2TU, SK0UX, OK1KIR, G3LTF, LX1DB, K2UYH, W5LUA, ES5PC, SM3AKW and OZ4MM. I heard another 6 stations. As in the past, I was QRV with 150 W in the shack and about 100 W at the feed from my SSPA, NE325 preamp and VE4MA feed in a 4.2 m dish. My sun noise seemed down before the contest start, but the WX was too cold to sort out the problem. The flux was at 110, but the sun noise was only 12 dB. It should have been 14dB. I am still building PA, etc. I plan to be on active next month on 432. I may try a feed in my 4 m dish as well as the 8 yagis.

HB9Q: Dan dan@hb9q.ch writes that on 15 May he concentrated on QSOs with QRP EME stations – I enjoyed very much working OK1TEH on 432 using JT65C. OK1TEH was running 1 x 25 el yagi and 50 W. It was a UFB QSO with no problem in getting all the information! If you have a tropo station on 432 you can work us! JT65C, the newest version works perfect on 432 and 1296. I did not find this to be the case with older releases!

JA4BLC: Yoshiro's ja4blc@web-sanin.co.jp 13 cm contest report– I worked 2-way on 2424 JA6CZD and JA8IAD. I worked crossband (2424/2320) SK0UX, G3LTF and F2TU, and crossband (2424/2304) OZ4MM, OE9ERC, HB9SV, W5LUA, WA6PY and ZS6AXT. Heard were OH2DG, OK1CA, OH2AXH and K2UYH. Cross band operation is full of frustration, but very very interesting. You can understand my pleasure when I find a CW reply from friends at 104/120 MHz separation.

JA6CZD: Shichiro ja6czd@try-net.or.jp worked in the 13 cm part of the EWW EME Contest on 14 May W5LUA, OZ4MM, SK0UX, F2TU, JA4BLC and OE9ERC, and on 15 May he called WA6PY many times without success. [Tnx to JA4BLC for relaying this report].

JA8ERE: Mikio sgl01011@nifty.ne.jp was active in the EWW EME Contest on 13 cm, but suffered from high winds. He worked only W5LUA on May 15. [Tnx to JA4BLC for relaying this report].

JA8IAD: Michinori ana11142@yahoo.co.jp had good success on 13 cm during the May contest weekend. He worked JA4BLC on 2424, SK0UX and F2TU on 2320 crossband, and W5LUA and OE9ERC on 2304 crossband. He heard JA6CZD, OH2DG, OK1CA, OH2AXH, K2UYH, WA6PY and OZ4MM.

K3MF: Wayde K3mf@aol.com in FM19xp (MD) is active on 70 cm with CW and JT65 – I am upgrading my 432 antenna system from 4 x 19 RIW's to 8 x 25 K1FO's. I should have the switch completed by the end of May. I will still be QRV with the 4 x 19 array until the other array is built. I ran a CW sked with DL9JY on April 24, but neither one of us was able to copy well enough to complete. I am hoping this new array will allow me to work more stations.

K5SO: Joe now has NM (DM66xw) QRV on 1296 and continues to work on improving his station — During the May AW on Saturday I worked 4 initials with my drive-limited output only 125 W in the shack, ON7UN, G4CCH, WB5AFY and K5GW and a repeat QSO with K9SLQ. These bring my total to #14 initial, 4 countries, and 10 states for my first week on 23 cm. I stayed up for the JA window, but had no takers. Worked earlier were W7UPF and IW2FZR. I am now up to 400 W out and my echoes are S-7 from S-5 and the SSB echoes are excellent.

KL6M: Mike kl6m@qsl.net did not have things work as planned during the May contest weekend -- I hoped to operate 2304 and possibly some 144, but I hurt my back clearing trees last week and have been unable to get things QRV. I still have not resolved the problems on 1296 either. Right now 432 is the only band I can operate and am seeing 19.5 dB+ of sun noise there! I will be active on 70 cm in the June part of the EWW EME Contest.

KL7HFQ: Roger rkh@alaska.net who has been active on 432 EME for sometime is thinking of switching over to a dish and asks – Is there any articles that you can think of or know that has information on building a dish antenna of about 30 feet in diameter for 432. Now that I will be soon retiring and have time (hi) on my hands, I need something to do, besides building my amp. [Contact KU4F, ku4f@earthlink.net].

N2UO: Marc lu6dw@yahoo.com was operating 13 cm at K2UYH during the May AW. At home he did have problems with his Az rotator. It turned out that the epoxi holding the readout pot had failed probable due to the cold temperatures of winter. The problem is now fixed and he will be QRV for the June AW.

N4PZ: Gene n4pz1@aol.com is QRV again on 70 cm after many years absence. He now has 8 yagis and a GS23b PA. He is looking for activity.

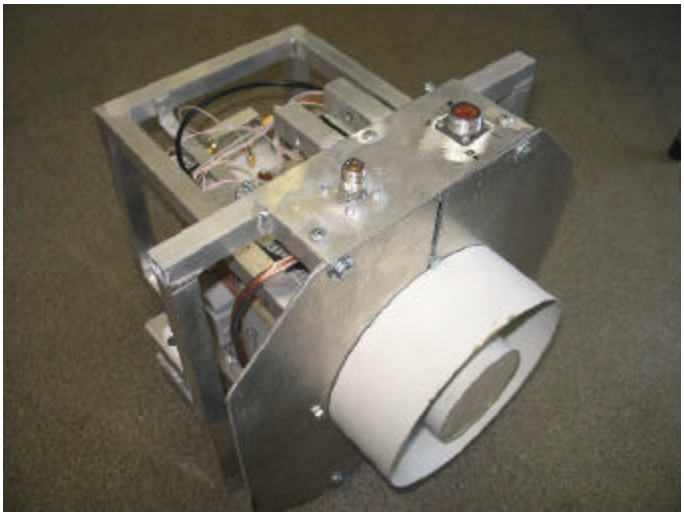
OK1CA: Franta ok1ca@ges.cz writes about his 13 and 3 cm EWW Contest activity -- I was QRV in April on 10 GHz and I worked HB9BHU (559/549) for initial #14, DL0EF (599/519), WA7CJO (599/559), IQ4DF (599/519) and OK1KIR (559/O). I also heard OK1UWA. I was active only on Saturday as the weather was bad on Sunday. My rig was a 3 m dish and 25 W out. In May I was QRV on 2.3 GHz and I worked G3LTF, SK0UX, F2TU, HB9SV, ZS6AXT, OE9ERC, ES5PC for initial #24 and the first OK-ES QSO on 2.3 GHz, K2UYH #25, OZ4MM and IK2RTI. CWNR were OH2DG and I heard JA4BLC, JA8IAD, OH2AXH, WA9FWD, SM3AKW, LX1DB and W5LUA. I also tested a new 100 W PA, but I had problems with it mounted on my dish.

OK1KIR: Tonda (OK1DAI), Vladimir (OK1DAK) and Jan (OK1VAO) ok1vao@quick.cz report on their club's activity – We were QRV in the second leg of the EWW Contest on 13 cm. We haven't finish our new transverter for 2304, 2320 and 2424 MHz yet. Thus we used our tropo transverter for 2320 and an SSPA with MRF 21120 giving about 80 W. We use part of the new transverter for 2304 RX. Hopefully we will manage to finish it soon. We started on Saturday morning to get the system installed. Unfortunately bad luck came again and the whole of Saturday and Sunday morning was spent repairing our tracking system. We only started operation 15 May at 1300 on 2320 and QSO'd at 1347 F2TU (559/559), 1428 OE9ERC (569/559), 1503 G3LQR (O/O), 1510 G3LTF (539/549), 1642 LX1DB (549/449). Then we installed the RX for 2304 and QSO'd at 1950 K2UYH (559/539) 2304/2320, 2013 W5LUA (559/559) 2304/2320, 2118 OZ4MM (559/449) and at 2158 ES5PC (549/O) for initial #42. We closed down at 2218. We also heard DL4MEA (T-M). These were our first QSOs on our new antenna system.

OZ4MM: Stig's vestergaard@os.dk 13 cm EWW Contest activity – I found outstanding activity on 13 cm this May. I have newer seen so many stations QRV on 13 cm, and more stations showed up this weekend than in ARRL 13 cm part last fall. Who would have believed it! It was difficult to find a clear frequency. I worked 23 stations and heard/called 3 other stations. Stations QSO'd were JA6CZD, G3LTF, OE9ERC, JA4BLC, HB9SV, F2TU, SK0UX, ZS6AXT, SM3AKW, OH2DG, DL4MEA for initial #49, WA6PY, VE6TA, WA9FWD, LX1DB, K2UYH, W5LUA, IK2RTI, OK1CA, ES5PC, F1ANH, G3LQR and OK1KIR. CWNR OH2AXH, JA8IAD and RW1AW. On Saturday I had some blockage from my 144 feed, but it was removed on Sunday to give less degradation. I need to correct my 1296 score in the May NL. There was a typo. I worked 51 stations in 33 multipliers. I plan to be QRV in the coming 432 part of the contest in June.

PY2ANE: Orlando olcostaneto@brturbo.com.br in GG66sh is setting up for 23 cm EME. Presently he has a 1.5 m dish with 0.34 f/d, circular feed, 20 W PA and 1 dB NF preamp. He has copied his echoes using the JT echo mode and is interested in trying JT skeds with some of the bigger stations. He is working on improving his station so that he can operate both JT and CW.

RW1AW: Alex rw1aw@skylink.spb.ru (KP50da) made his first QSO on 13 cm during the EWW Contest – My 2.3 GHz contest activity was limited to only 1.5 hours because of a big storm wind and problems with my 13 cm PA. I did make 3 QSOs: #1 OE9ERC, #2 F2TU and #3 SM3AKW. I heard over 20 stations - UFB activity! I used my 3.7 m dish with the TX/RX module at the feed. I will be QRV on both 13 and 23 cm in June.



RW1AW's 13 cm feed assembly

SV1AWE: Bob bkou@cpi.gr completed his first 432 EME QSO in May – I was QRV for the AW and QSO'd on 14 May HB9Q using JT65C and after N9AB on JT65B. Dan was astonished that I had only 50 W only reported that my station for so little power had a very good signal. K2UYH remains the strongest signal that I have heard so far from the moon.

SV1BTR: Jimmy jimmyv@hol.gr spent most of his moon time in May on 2 m in the EWW Contest, but did put in some time on 432 trying to complete WAC. He had a partial QSO with PY5ZBU with reports both ways, but no final Rs. Part of the problem was a frequency error – Don appeared to be about 1.5 kHz low. Jimmy changed TX frequency and believes Don lost him. He also ran some skeds with LU7DZ. Eduardo copied him, but Jimmy heard nil. He did complete with K2UYH in an on the horizon sked – [see my report].

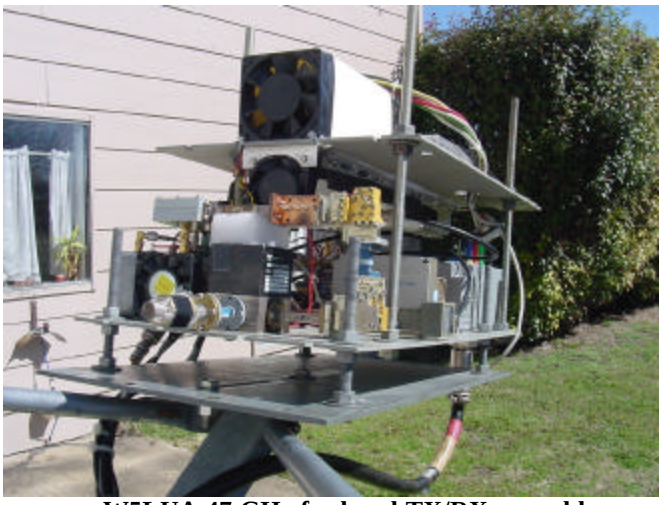
VE4MA: Barry ve4ma@shaw.ca reports that he (and AD6FP) now have their #2 initial on 47 GHz – I took an afternoon and worked Gary AD6FP on 47 GHz EME for initial #2. I will run another sked with Gary operating under the club Call of W6YX. We have been trying to sked for a week, but were stopped by

WX at either end. I plan to listen on 13 cm during the contest, but will not TX. It sure seems like lots of guys will be on. I am thinking about growing my 3 m dish larger. I have Andrew 3.7, 4.5 and 6 m dishes to choose from. I think the 4.5 might be all I can handle in my neighborhood. I did get my SDR radio going after changing to the new console, a new sound card and fixing a couple of problems. I want to get it operating as my 144 IF, but the TX does not seem to be going. I will be putting my 23 cm station back on soon.

VE6TA: Grants was using a 5 m dish and 180 W in shack on 13 cm in the contest -- Results have been mixed, with lots of stations heard but few worked. On 14 May I called JA4BLC and JA6CZD with only a QRZ from JA4BLC in return. I did QSO WA6PY, W5LUA, F2TU (big signal), SK0UX, OZ4MM, K2UYH and LX1DB for an initial (#). Also heard were OK1CA, IK2RTI, OH2DG, ES5PC, WA9FWD and SM3AKW. Very high winds approaching 70 km/hr made it difficult to keep the dish on the moon. I listened on 2320 several times but nothing heard. On 15 May I added one more station to bring my 13 cm total to 8 contacts. I will switch back to 432 for the June 11/12 part of the contest.

W7UPF: Don donsay2@cox.net is QRV on 1296 EME using a 10' dish and 200 W at the feedhorn from AZ. He worked K2UYH (559/559) among others in May and is definitely interested in skeds. Don says "I am 82 years old and my hearing/CW is not as good as it once was, but I sure am enjoying 23 cm".

W5LUA: Al al_ward@agilent.com brings us up to date on his 40 GHz EME system -- The 47 GHz EME station at W5LUA consists of a 2.4 m offset fed dish with a dual mode W2IMU feed. Receive NF is approximately 4.75 dB. The converter uses dual conversion for good image rejection. The first IF is 8.01 GHz, while the second IF is 144 MHz, and is fed to an FT-847. I use K5GW moon tracking software, which also controls the receive frequency to keep the Doppler shifted frequency in the receive passband. The LOs are GPS locked. A similar upconversion scheme is used on transmit. The driver at 47 GHz is an Agilent Technologies AMMC-5040, which provides the drive for a surplus Hughes traveling wave tube that provides 30 W at 47 GHz. All equipment except for the 2M IF is located at the feed of the dish. US Digital encoders are used to keep the dish within .05 degrees of being aimed at the center of the moon. This is especially important at 47 GHz, since the 3 dB beamwidth of the dish is only 0.2 degrees and the first sidelobes are at the edge of the moon. My best sun noise measures 7.2 dB, while the best moon noise measured is 0.6 dB. I had a good time on 13 cm during the EWW contest and worked 19 on 13 cm including 4 JAs. JA8ERE was an initial. I struggled on 2320 with G3LTF.



W5LUA 47 GHz feed and TX/RX assembly

WA6PY: Paul's pchominski@Jaalaa.com contest report -- During the EWW EME Contest I QSO'd on 2304 VE6TA, W5LUA, F2TU, OH2DG, OZ4MM, HB9SV, LX1DB, K2UYH, SM3AKW, WA9FWD, ES5PC and OE9ERC, on 2304/2320 SK0UX and G3LTF, and on 2304/2424 JA4BLC. On 2320 I heard and called on 2304 OK1KIR, but they vanished. On 2424 I heard very weak in the noise JA6CZD and JA8IAD. I called JA6CZD, but the interference was so difficult to handle that I was not able to make a QSO. Interference from 802.11 and Bluetooth is raising my noise floor about 10 dB at higher elevations and over 20 dB at low elevations. The most effective noise blanker for this kind of wide pulse is in my old modified TS130S, but I have to balance noise blanker threshold very fine. The TS2000 does not handle this interference very well. I intend to improve my receiving capabilities on 2424 before ARRL EME contest. I plan to rebuild my RX down converter to get a higher IP3 in order to minimize the level of IM and cross modulation products. Secondly I will check with an oscilloscope the timing of the interfering pulses and build a matching noise blanker. Last year I rebuilt my LNA chain at the feed, increasing the IP3 at the cost of a little higher NF. This helped me especially on 2424, but the lower noise on 2320 probably generated spectrum regrowth. Thanks to this modification I could work JA4BLC in the contest. But this is not good enough. 13 cm reminds me of 23 cm from 20 years ago. It was really nice to operate. I also jumped to 144 MHz for a short time and QSO'd 6 stations.

WA7CJO: Jim's wa7cjo@futureone.com 10 GHz report for the EWW Contest – I am pretty much only active on 10 GHz. In April I was QRV for the EWW Contest and worked 11 stations. [This is the highest QSO count I have heard reported thus far]. VK3XPD, F5JWF and DL2LAC were initials. I missed an SP7JSG. VK3KAB was using VK3XPD's station. I am also in the process of moving and plan to put up 10 m dish at the new QTH. I found a type A2841 [aka 4632] tube made by RCA for the 900 MHz region that should run cool 2 kW at 1296. It has 5 kW anode dissipation and base very close to 7213.

WA9FWD: John jstefl@wi.rr.co was active on 13 cm in May -- I got on 2304 MHz for the EWW Contest. On Saturday the weather started out good, but a tree was in my way for the first hour and a half after moonrise. Signals magically appeared once the moon was clear of the trees. I worked SK0UX who had a big signal, F2TU, HB9SV for initial #11, K2UYH #12, OZ4MM, W5LUA, and SM3AKW #13. Thunderstorms with hail made this last contact very difficult and ended my operation for the day. On Sunday I added LX1DB #14, F2TU and WA6PY. This gave me a total of 9 for the contest. I have the parts, but have not finished my 2320 receive capability. I apologize to anyone that I may have missed. I had several occasions where multiple stations answered my CQs, and I was not able to separate them. It is really good to hear QRM on 2304! On 432 EME, I need Utah for #50 and have been looking for it for at least 15 years.

ZS5LEE: Lee lee@zs5lee.co.za is QRV on 70 and 23 cm EME with modest systems. On 7 May he added his initial #4* on 23 cm EME by QSOing K2UYH (O/O) using JT65C. He was only running 10 W at the rig and about 2 dB cable loss to a 3.7 m dish with a Septum feed.

ZS6AXT: Ivo's zs6axt@telkomsa.net May EWW Contest report – We had beautiful weather for three weeks before the contest weekend, but on Saturday a cold front hit us with heavy gusty winds up to 65 km! Thus I had problems finding the moon and when I got it holding on to it! Despite the wind, I managed to work on 13 cm on Saturday OZ4MM, HB9SV, SK0UX for an initial (#), OE9ERC, F2TU, SM3AKW, W5LUA, OK1CA and K2UYH (#). CWNR were OH2DG, IK2RTI, WA9FWD and F1ANH. On Sunday after a bit of rain the wind was quiet. I worked JA4BLC and I was calling a long CQ when a flashover occurred. It lowered my output power. Afterwards the only station to respond to my calls was ES5PC (#). CWNR were LX1DB (many times), OK1KIR, G3LTF and G3LQR. Heard was DL4MEA. I must say that the exceptionally high number of stations taking part is proof that the splitting of 23 and 13 cm operation dates was a good move. I hope this idea will be followed for other EME contests on the microwave bands. Bad weather and PA failure in addition to my short moon window limited the number of stations I worked. Even so my 11x10 score is my best ever on this band. I hope to work more initials on 23 and 13 cm soon. Any stations interested in skeds, please contact with me on e-mail (note my new address). I am easy on time.

K2UYH: I had more good luck than bad off the moon in May. On 6 May neither ZS5SY or ZS5LEE made it on for 1296 JT65C skeds, but the next day, 7 May, I QSO'd on 1296 at 1145 ZS5LEE (O-26 dB/O) on JT65C for initial #236* - see Lee's report, 1225 nil ZS5Y on JT65C - moon was too low at his end, 1330 W7UPF (559/559) #237, 1340 partial W9IIX (449/-) – disappeared and 1345 K5SO (55/559) #238 – great signal, and on 432 at 1430 nil SV1AWE on JT65B – no trace probably because of my noise problems. For the 13 cm part of the EWW EME Contest I was joined by K2TXB and N2UO. All worked well and we had a great time in the contest. We used an 80 W SSPA at the feed (an IMU circular polarizer with out the flare) and were set up to receive simultaneously on 2304 and 2320 or 2304 and 2424. We QSO'd on 14 May at 1906 WA9FWD (449/449) for initial #17, 1917 F2TU (569/569), 1920 ZS6AXT (O/O) #18, 1925 W5LUA (569/559), 1928 HB9SV (559/569) #19, 1932 SM3AKW (549/559), 1945 SK0UX (559/559), 1949 OE9ERC (559/559), 2003 OH2DG (559/449), 2015 G3LTF (339/339), 2035 OZ4MM (559/549), 2051 WA6PY (559/559), 2120 F2TU (54/54) dup on SSB, 2126 IK2RTI (549/449) #20, 2203 VE6TA (339/449) and 2213 LX1DB (569/569) #21. On 15 May we calling CQ when the moon was 10 degs in JA and continued for 2 hours with nil heard except our own echoes. At 0335 we had a partial with JA4BLC (O/O); the first signal we heard on 2420. We heard one other JA, but are not sure of the call. By the time the first JAs were copied the dish was 75% blocked by trees and our echoes had disappeared. Later we worked at 1910 G3LQR (549/559) #22, 1920 F1ANH (439/439) #23, 1932 OK1CA (549/559) #24, 1949 OK1KIR (539/559) #25, 2014 ES5PC (559/559) and 2056 G3LTF (559/569) dup – much

improved signal. We ended the contest with a score of 20x16. I also worked on 15 May on 70 cm at 2300 SV1BTR (559/559) for initial #692 – this contact was on Jimmy moonset and he was still (559) copy at 2 degs elevation, and 2328 KL6M (559/569). I also heard JT65 signals near frequency, but could not investigate as I lost a pin in my 7/8" Heliax when I tried to respond. Unfortunately I will be traveling next month on business and not home for the 432 part of the EWW Contest.

NETNEWS BY G4RGK (Based on K1RQG's Netnotes): **G4RGK** found activity very poor in May on 432 and only worked K0RZ and HB9Q. **DK3WG** QSO'd SV1BTR (549/O) on 70 cm in May. **K0RZ** called CQ for 8 hours on 70 cm during the May AW and only made one CW contact with G4RGK and one JT65 QSO with HB9Q. **LU7DZ** is looking for skeds on 432. Eduardo's e-mail address is LU7DZ@yahoo.com.ar. He has with 4 yagis and GS23b PA. **K9BCT** is changing his Internet Service Provide (ISP) from AOL. In order to provide maximum flexibility in the future, I will be using the American Radio Relay League as the proxy, K9BCT@arrl.net. **WB5AFY** added IW2FZR to his 1296 initials list in May. **PA0C** j.h.devries@wxs.nl intends to build a QRO water cooled PA for 70 cm based on a square anode cavity and is looking for info on similar PA designs. JA6AHB's web site has a new URL: http://www15.plala.or.jp/ja6ahb/. **K7NII** now has 16' dish up and is currently working on his dish mount. **W7GNT** has a place in woods and is also planning to put up a 10 m dish. He will be on 70 and 23 cm. **N8CQ** is working on the GS-15B amp. Gary has hybrids built up and working very well. He plans to put up his 70 cm array for the June EWW Contest weekend. **VE3KRP** is making good progress on 1296 EME operation. **W2UHI** was active on 23 cm in May and will be looking for more QSOs in June. **K9SLQ** QSO'd K5SO and WA1JOF on 23 cm among others in May. Wayne is looking for more 1296 EME activity. He visited WB5AFY in TX. **K7LNP** hopes to be on 70cm EME by end of summer. **WB7QBS** is still working on his 432 EME system. **W9IIX** worked on 23 cm during the May AW K5SO, G4CCH and K9SLQ. He called ON7UN, but only received a QRZ. K5GW was heard as well. **K0YW** is working on a GS15b amp. **AD6FP** had a 47 GHz QSO with VE4MA for initial #2. He is still working on 23 cm for W6YX. **F5VHX** was not QRV on EME in May and it may be a few months before he is on again. He has a lot of clean up work to do around his shack. **W4SC** is working on his 23 cm gear. **KU4F** has a new e-mail address ku4f@xpinternet.net

FOR SALE: **W9ZIH** has available an 8 x 7289 23 cm amp for sale. Contact Ron at 815-825-2526 for more information. **VE3KRP** eddie@tbaytel.net is looking for a Bird slug to measure high power on 23 cm (at least 500 W). [W2UHI reports that 435-125 is the part number from Bird for a special slug, 1KW @ 1296]. **WA9FWD** jstefl@wi.rr.co is looking for about a 900 rpm more to drive his prop pitch.

CONTEST RECORDS: Tonda (OK1DAI) has updated his ARRL International EME Competition Contests Records tables. New categories 50-1296 MHz and 2304-up were inserted. New records were set by SV1BTR and F2TU in the single and HB9Q in multi categories. Congratulation!! No other records were exceeded. For the first time in history there was better result on 1296 MHz than in 432 MHz. Tonda searched all 28 results since 1978 and created table of maximum numbers of QSO per band. Both table are shown at the end of this NL.

TECHNICAL: I you are doing any yagi modeling G4RGK suggests you look at SM5BSZ's work/info on the losses of 70 cm yagi elements at www.antennspecialisten.se/en/ham/tech/losses413.html.

FINAL: I was able to get to Dayton this year and was very impressed by the turnout of EMEers. It was like an EME conference and great to meet so many EMEers. Unfortunately my time was very limited and I was only there for a day and unable to make the weak signal banquet.

I have not said much lately about the Wuerzburg EME Conference. It is on 25-27 Aug 2006 and a little over a year away. Information can be found at http://www.eme2006.com.

Please keep the news and views coming whether by direct e-mail reports or through K1RQG and the 20 m net. Be active! Let's make the 432 part of the 2005 EWW (DUBUS/REF) Contest the best ever! 73, Al – K2UYH

ARRL EME Contest - number QSO record

Band	Nr QSO	Call	Year
A 50 MHz	10	K6QXY-K6MYC	1993
B 144 MHz	338	W5UN	1991
C 222 MHz	9	WB0TEM	1982
D 432 MHz	188	SM4IVE	1993
D-C 432 MHz	246	VE3ONT	1993
9 902 MHz	1	KD5RO	1988
E 1296 MHz	98	K5JL	2000
F 2304 MHz	21	W5LUA	2003
G 3456 MHz	1	W5LUA	2003
H 5760 MHz	4	F2TU	2002
I 10368 MHz	18	F6KSX	2001
J 24192 MHz			

Since 1978

ARRL International EME Competition Contests Records

Category	Single Operator			Multi Operator			Non-Amateur Equipment		
Band	Score	Call	year	Score	Call	year	Score	Call	year
50 - 1296 MHz	806,400	SV1BTR	2004	2,605,100	HB9Q	2004			
2300 MHz and Up	92,400	F2TU	2004						

since 2004

Multiband Overall	3263500	OE5JFL	1993	3,684,400	K5GW	2003	6,496,000	VE3ONT	1993
A 50 MHz	8,000	K6QXY-K6MYC	1993						
B 144 MHz	1,920,000	SM5FRH	1999	1,563,500	KB8RQ	1999	1,554,800	VE3ONT	1994
C 222 MHz	5,600	K9HMB	1982	7,200	WB0TEM	1982			
D 432 MHz	827,200	SM4IVE	1993	632,100	OH2PO	1997	307,100	OK1CA	1994
9 902 MHz	100	KD5RO	1988						
E 1296 MHz	343,000	K5JL	2000	255,600	K2DH	1997	24,700	KL7RA	1985
F 2304 MHz	19,500	OE9ERC	2003	600	OK1KIR	1991	9,000	SK6WM	1988
G 3456 MHz									
H 5760 MHz	200	OE9XTW-I6PNN	1995	600	OK1KIR	1999			
I 10 GHz	15,400	DJ7FJ	1994	19,800	F6KSX	2001			
J 24 GHz									

Since 1978