



Forsyth Amateur Radio Club, Inc.

Newsletter



Founded December 30, 1930

March, 2005

February Program

Our thanks go out to Gary Howell, WB4BMJ with North Carolina Army MARS for the excellent program he presented at the January meeting. For anyone who is interested in joining Army MARS contact Gary at AAT4CH@aol.com.



Gary Howell, WB4BMJ talks about the MARS (Military Affiliate Radio System) and how it relates to ham radio at the January FARC Meeting.

Mileposts from FARC Members:

Chris Plumlee, KG4CZU:

Chris graduated from Wake Forest last year. He first took a job near Fayetteville but recently went to work as a consultant with Chilington, International, which is a consulting firm for insurance and reinsurance

Continued in next column

License Exams

The Forsyth Amateur Radio Club continues to offer license exam sessions on the FIRST Saturday of EVERY month at the American Red Cross Chapter House, 690 Coliseum Drive, in Winston Salem. More details inside this Newsletter on the top of page 6..

companies. Chris relates, "The job is a bit easier on the old timecard than my last one, where I was pulling a lot of 70 hour weeks over the past couple of months."

"I still expect to be back to NC from time to time, including once in March for Van Key's daughter's wedding, so perhaps we'll run into one another then. Until then, you can contact me at either this address or kg4czu@sera.org."

We wish Chris all the best and will miss him.



John Kippe, N0KTY, a.k.a. "Nan-nook" from his mini-dxpedition to Michigan to go ice-fishing and hamming.

John "Kip" Kippe, N0KTY

Kip took his annual mini-dxpedition to Michigan to get a little hamming, fishing and family visit. He tried to get someone from WS to go with him, but the appeal of sitting in a little shack over a frozen lake for days-on-end did not hit a high note locally. I don't understand why. They

Continued in "FARC Mileposts" top of page 2

Club Meeting, Monday, March 14, 2005

We will meet, as usual, on the 2nd Monday of the month at 690 Coliseum Drive in the Red Cross Building at 7:30 PM sharp in Room 09, but come early, say, 7:00-ish, to "hob-nob" with your fellow hams. This month the program will be about the Civil Air Patrol.

Forsyth Amateur Radio Club, Inc is a non-profit (IRS 501(c)3) North Carolina corporation for the promotion of Amateur Radio, and for the education and training of hams and the general public primarily in Forsyth County, North Carolina.

FARC was originally incorporated as the Winston-Salem Radio Club on December 31, 1930 and has been in operation ever since. We currently maintain a state-of-the-art ham station in the basement of the Red Cross, 690 Coliseum Dr., Winston-Salem, NC and also maintain two 2-meter repeaters, 146.64 (100 Hz tone) and 145.47 (100 Hz tone).

FARC has a general membership meeting with a program on the 2nd Monday of every month at the Red Cross building, 690 Coliseum Drive in Winston-Salem. The club conducts its main business meeting (sometimes called the Board Meeting) on the 3rd Monday generally at the same location. This is where most of the club's business is conducted and all attending members have a vote. All club members are strongly encouraged to attend the business meeting. For more information about FARC mail us at FARC, Inc., PO Box 11361, Winston-Salem, NC, 27116; call 336-723-7388; or visit our web site at www.w4nc.com. Club email is to w4nc@triad.rr.com.

Officers for 2005 are:

President: Tom Gallagher, N4IOZ
n4ioz@triad.rr.com

Vice-President: Melissa Hall, W4RXG
mhall@triad.rr.com

Secretary: Robert Whitaker, KG4NEP
kg4nep@yahoo.com

Treasurer: Henry Heidtmann, W2DZO
henry@summitschool.com

Newsletter Editor: Don Edwards, WS4NC
ws4nc@arrl.net

To join our list server send a blank email to
w4nc-subscribe@yahoogroups.com

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We trade newsletters with other clubs, and many local clubs are on our mailing list. If your club has a newsletter and would like to trade please send us a copy.

"FARC Mileposts", Continued from page 1

caught five "keepers" over 24 inches, and one whose time had not yet arrived since he was only 22 inches.

The ice was almost as thick as the auger used to drill through it. I don't remember how cold Kip said it was, but I'm sure it was colder than I want to be.



Yes, the truck is parked over the lake. Looks cold and isolated, doesn't it?



John's Dad holding one night's dinner. The auger in the left background was used to drill the ice.



One day's catch. The board the fish are on is 36 inches wide. The minimum length for a "keeper" is 24 inches.

Kip used his Hygain vertical on the ice with three 80-foot radials and 100 watts. He worked several Canadian provinces, including Nova Scotia and a VE7; plus about a dozen US-states from the east-coast to the west-coast.

Pat & Lydia Jones, K4QGV & KD4BRI

Tom, N4IOZ recently heard from Pat and Lydia. They are living in San Diego, California. They were replying to the mass mailing that went out in January to everyone who has been a member of the club.

"Hi Gang

Sorry but our old age and the long distance from FARC dictates that we, K4QGV Pat Jones and KD4BRI XYL Lydia Jones, can no longer participate in the best Ham Club in the world. We assume that we can continue to look over your shoulders by downloading the Newsletter from www.dwepe.com/FARCNewsletters.

Our QTH is in San Diego but we expect to visit WS about once a year. We will try and be there during a stated FARC mtg. Tell the gang hello and good-bye especially any that may still be kicking around when we had our club house in Ardmore."

73's Pat & Lydia

Wilson Lamb, W4BOH:

Wilson sent me an email recently confirming the date for the Durham Hamfest. Thanks Wilson. The Durham Hamfest is on May 28th. The date I originally had was not confirmed. Wilson is living in Durham, just south of 85 where it splits from I-40W. Wilson has his granddaughter living there and reports his Mom is doing well, except for a problem with one leg. Wilson says that he would like to get over to make a meeting sometime soon and sends his best to all the members.

Raja, KB6MTH:

Raja sent me the following:

"Hello all-short note, i've got a pt in the er."

[Ed. I'm not sure what a "pt in the er" but I hope it's treatable. J/K.] "I might be able to get off base here in the next few weeks in order to visit KARS to get the Kuwaiti license. I've still got to figure out whom to talk to here on base about radio. No one will own up. If your MARS contact can register me with MARS and / or he can get the right contact, please let me know.....glad to hear from all of you..."

73, Raja

Melissa Hall, W4RXG:

Congratulations to Ms. Melissa for two things:

1) The ARRL's Public Information Coordinator (PIC) for North Carolina, Bill Morine, N2COP, has appointed Melissa Leonard Hall, W4RXG, as the ARRL Public Information Officer for the NC Triad Area. Melissa joins the other 12 PIOs currently serving North Carolina.

2) Melissa has also been promoted to the Kernersville Features Reporter for the new Kernersville office of the Winston Salem Journal. The Journal is opening a new office on S. Main St. in Kernersville and Melissa will be working from that new office starting March 14. Congratulations Melissa!

Radio Clubs to 'Ham it Up' for Troops

By Rudi Williams / American Forces Press Service

WASHINGTON, Feb. 16, 2005 - Ham radio operators and amateur radio clubs plan to "Ham It Up for the Troops" on May 28 during the second annual Amateur Radio Military Appreciation Day to thank active duty, veterans and retired military people for their service and sacrifices to the nation, according to ARMAD's founder and former Air Force sergeant Emery McClendon.

"ARMAD is a day when all amateur radio operators and amateur radio clubs worldwide are invited to gather at public locations to allow our citizens to express words of thanks and appreciation to our military members and coalition forces in a live format," said McClendon, who founded and established ARMAD in Fort Wayne, Ind., almost a year ago.

"The original purpose of ARMAD was to encourage amateurs worldwide to use our hobby to express thanks as a public service for those that serve in the military, including active duty, veterans and retirees," said the former aircraft refueller. "We also wanted to allow their families to support one another with words of encouragement by contacting other ARMAD locations."

Ham radio operators set up in public locations such as shopping centers, parks, Veterans Affairs hospitals and sporting events to express verbal positive support "live" over the radio for active duty military people, members of the reserve components, veterans, family members and military support groups, McClendon said.

ARMAD is associated with National Military Appreciation Month and is being held during the weekend of Memorial Day, a day of remembrance for those who have died in the nation's service.

See AMRAD, top of page 4

"It was felt that to honor those that serve during this special day would be fitting as this day was already special to those who have given the ultimate sacrifice for this country," McClendon noted. "On this day, many people gather at events to pay tribute to those that have died for our freedom."

This year, amateur radio operators will participate from several states -- Florida, California, Washington, Ohio, Michigan, Louisiana, Colorado, Texas, North and South Carolina and others. Operators in several foreign countries also are slated to participate, including Australia, Greece, Kuwait and England, and members of the Iraq Amateur Radio Club are expected to join in as well, according to McClendon.

"We expect many others, including ships and military hospitals, as we approach the event date," he said. "Last year, we had more than 25 different groups in the U.S. and about 15 foreign countries participating in ARMAD," McClendon noted. "We expect participation to triple for the 2005 event. We've had great response just by word of mouth. With publicity, we will grow, and reach many more troops and communities."

McClendon served four years on active duty in the Air Force, including 15 months at Clark Air Base in the Philippines, and two years in the active Indiana Air National Guard.

McClendon said he received several heartwarming comments during last year's ARMAD, which was held at Fort Wayne Memorial Stadium. Noting that local government officials read proclamations of support for the military during a small ceremony, McClendon said, "After hearing these local officials speak over the radio, some of our military members remarked that they were pleased and felt privileged that a government official would take time away from families for such a cause.

"There were also many heartwarming comments from young children expressing thanks to our men and women for what they do to keep America free," he noted. "Many kind words were exchanged from all over the world to American and coalition troops. One man from Kuwait joined us on the air to say thanks to America for freeing his country from Saddam Hussein. His statements moved the crowd in the stadium."

McClendon emphasized that ARMAD is not affiliated with the Military Affiliate Radio System in any way, except that many MARS operators are amateur radio operators. But MARS plays an active role in ARMAD.

"ARMAD is for those that serve our great country," McClendon said. "We want to spread the word to as many military members and communities as possible so that we can help boost the morale of those that serve in this positive and manner."

UPCOMING HAMFESTS & OTHER HAM DATES

March 6, Kinston Hamfest

March 12-13, 2005
North Carolina State ARRL Convention
Mecklenburg Amateur Radio Society
Charlotte, NC
Charlotte Merchandise Mart
2500 East Independence Blvd
<http://www.w4bfb.org/hamfest>

March 13, 2005
Winterfest 2005
Vienna Wireless Society
Annandale, Virginia
Northern Virginia Community College
8333 Little River Turnpike
<http://www.viennawireless.org>

March 19-21, 2005 Virginia QSO Party

March 19, 2005
Charleston Area Hamfest and Computer Show Charleston,
West Virginia Coonskin Armory
1707 Coonskin Drive
E-mail; k8wmx@juno.com

April 16, 2005
Catawba Valley Hamfest
Burke County Fairgrounds on Bost Road
Morganton, NC
www.cvhamfest.com

April 17, 2005
North Carolina Section ARRL Convention
Raleigh Amateur Radio Club
Raleigh, NC
NC State Fairgrounds, Jim Graham Building
1025 Blue Ridge Blvd
<http://www.rars.org/hamfest>

May 20-22, 2005
Dayton Hamfest
Dayton, Ohio
www.hamvention.org

May 21, 2005
Williamston, NC Hamfest

May 28, 2005
Durham Hamfest

May 28, 2005
ARMAD (see page 3)

June 11, 2005
Winston-Salem "Big Classic" Hamfest
Dixie Classic Fairgrounds
Winston-Salem, NC

June 25 & 26, 2005
ARRL Field Day

August 27-28, 2005
West Virginia State ARRL Convention
West Virginia State Amateur Radio Council Weston, WV West Virginia
Convention Center, Jacksons Mill Route 1, Box 210
E-mail: w8xf@arrl.net

September 3-4, 2005
Shelby Hamfest
Shelby Amateur Radio Club
Shelby, NC
Cleveland County Fairgrounds
1751 Marion Street
<http://www.shelbyhamfest.org>

September 17-18, 2005
ARRL Roanoke Division Convention
Virginia Beach Hamfest and Electronics Flea Market Tidewater Radio
Conventions Virginia Wesleyan College
1584 Western Drive
<http://www.vahamfest.com>

October 29, 2005
South Carolina State ARRL Convention
Grand Strand Amateur Radio Club
Conway National Guard Armory
1621 16th Ave
Conway, SC
<http://www.w4gs.org>

NC QSO Party

(the following press release went out over the Associated Press Newswire)

(WINSTON-SALEM & WILMINGTON, NC) -- They're 21,000 strong in the Tar Heel state and part of a nationwide legion of three quarters of a million. Every year on the fourth full weekend in February, thousands of them in North Carolina gather to take a break from their security vigil to exchange friendly greetings. They're amateur, or "ham", radio operators.

Every day since 1949, ham radio operators have held daily drills on-the-air to handle emergency communications in case of disaster. These exercises were born at the height of the Cold War, and were designed to move communications if a nuclear blast disrupted telephone and television networks. Today, that mission has been reinvigorated by terrorist attacks, but most activation circles around calamities such as hurricanes, tornadoes, ice storms and forest fires.

However, ham radio is also a hobby besides being a vital cog in emergency response machinery. So on the last full weekend in February, the Forsyth Amateur Radio Club in Winston-Salem hosts an on-air event called "The NC QSO Party". QSO is a term from Morse Code days meaning 'contact'. Stations from around the globe will be trying to

Continued at top of next column

see if they can make contact with ham operators in all 100 North Carolina counties. With the population of hams slim in some rural areas, the Forsyth club will be dispatching mobile stations to counties scarce with operators.

Meanwhile in Wilmington, the Azalea Coast Amateur Radio Club will fire up one of the original Morse Code transmitters aboard the Battleship North Carolina and give airwave seekers the thrill of hearing the 'Showboat' on-the-air. "The NC QSO Party is a pleasant break from the incessant training we undertake on behalf of the public", says Belmont's John Covington, the elected head of North Carolina's amateur radio community.

NC QSO-Party Report

W2DZO reports that we had almost all counties activated and lots of participation. A full report will be in next month's Newsletter.

ARES Net

Just a reminder, please join us on the Forsyth County Ares Net Thursday evenings at 8:30 p.m. on the W4NC repeater, frequency 145.47 MHZ.

73, John, N0KTY

Forsyth Emergency Coordinator

FCAN Report - Feb. 2, 2005

Net started 8:30 PM. N4PAA was net control.
Check-ins: 7. Stations were NA4P Fred, WF4DD Wake Forest Radio Club, N0KTY John, KC4WSK Van, WB4QXG Fred and N4PAA Carl.
There were no announcements and no traffic.
N0KTY John conducted the ARES meeting with reminders that it is still winter, even though it has been mild so far and to be prepared. John is returning to real winter for some ice fishing next week and won't be available for the net.
Formal net time: 13 minutes. Informal net time: 7 minutes. Total time: 20 minutes.
N4PAA Carl

FCAN Net - Feb. 17, 2005

Net started at 8:30 PM. N4PAA was net control.
Check-ins - 11. Stations were KF4PLQ Woody, KI4FCP Jack, KG4FGC Ken, WF4DD WFU Radio Club, KG4NTB Gary, N4IOZ Tom, KG4NEP Robert, WB4QXG Fred, KC4WSK Van, KF4EOD Mike and N4PAA Carl.
There was no traffic. There were two announcements.
KG4FGC Ken announced that the Spring MS Walk will be Saturday April 16 on the WFU Campus. Volunteers are welcome.
N4IOZ Tom announced that WB9SZL Dale's father had passed away. Details were few as Dale has been in Illinois with his parents recently.
The ARES meeting was held by N4PAA Carl as N0KTY John was in Michigan. It was another reminder that severe winter weather can still visit us this year and to keep prepared.
Formal session: 15 minutes. Informal Session: 8 minutes. Total Time: 23 minutes.
N4PAA Carl

License Exams

The Forsyth Amateur Radio Club continues to offer license exam sessions on the FIRST Saturday of EVERY month (includes holidays!) at the American Red Cross Chapter House, 690 Coliseum Drive, in Winston Salem. This is across the parking lot from the Arts Council Theater ("Little Theater"). Examinees need: Photo ID, ORIGINAL and COPY of all documents (License, CSCEs, anything else submitted for exam credit), Social Security Number, and fee of \$12. Registration begins at 8:30 AM. Exams begin at 9:00. Please arrive before 9:00 because if you aren't there we might leave!

Calls Heard (@ the February Meeting)

My Bad. Tom, N4IOZ, has done a great job compiling the list and getting it to me each month. But last month he couldn't make the meeting and the list is still at the Red Cross. I'll publish it next month.

Don, WS4NC

March Meeting Program

March 14, 2005

The March meeting will be representatives from the Winston-Salem Wing of the Civil Air Patrol. They will put on a demonstration for us.

73s, Melissa Leonard Hall W4RXG

Vice President

Monthly ARRLNC Section News Summary

NORTH CAROLINA: SM, John Covington, W4CC - SEC: WA4MOK. STM: K4HA. TC:K4ITL. BM: KD4YTU. PIC: N2COP. OOC: W4ZRA. SGL: AB4W. ACC: N4JCK.

I've talked before about the online Amateur Radio Emergency Communications Course, Level 1, and have encouraged hams across the state to take it in addition to any local training that is available. For over two years tuition reimbursement has been available to those who successfully complete the course, courtesy of a grant from the Corporation for National and Community Service (CNCS). This grant expires later this year, so if you are interested in taking this course and receiving reimbursement, I suggest you take the course as soon as possible. Only a limited number of students can take the course and if you wait until later this year, you will probably miss tuition reimbursement. For more information about

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the course, you can go to the ARRL Certification and Continuing Education web site: <http://www.arrl.org/cce> ARECC Levels 2 and 3 have a tuition reimbursement program courtesy of United Technologies Corporation. I am not sure when this expires.

Training is important for any ham involved in public service communications. We can't just wait until a disaster happens and then make up procedures as we go along. Training, and regular PRACTICE through drills and nets, will make sure that you are an effective operator. I know this seems repetitive, but if you look at any provider of disaster services you will see they do the same thing. Why? Because we (fortunately) don't have disasters every day, and the only way to keep skills sharp is to practice. Repeat training is necessary because there are some skills that just will never be used often enough to become second nature to you. For example, CPR certification is only valid for one year, and First Aid for three years because you can't afford to struggle with recalling distant memories of your training when you are providing those services. For hams, we need to repeat SKYWARN and ARES training from time to time to refresh us on whatever we have not used recently. It does not take that many hours of the year, and is well worth it. Think about how much athletes have to practice EVERY DAY just to keep up, and you will see that we have it easy compared to them.

If you haven't trained or practiced with your local group in a while, do so soon. You can always tell who has practiced whenever we are activated. It will also help you find out where you "fit in" - each of us has different talents and capabilities, and therefore something different to offer when disaster strikes. Some of us are good operators, others have good organization skills, and others have good technical skills. We need some of each.

After not having many for a while I've received a number of Silent Key reports in the last couple of months: Bob Corns, K4MC of Raleigh; Ernest Gardner, WA4NDV of Burlington; Fred Slipsager, WA4ZZ of Charlotte; Hank Nissen, W4VUP of Cary; Grady White, WB4YBC of Winston-Salem; and Ray Huff, NC4RH of High Point.

*73, John Covington, W4CC
ARRL SM*

The Newsletter Hamfest:

House for Sale (Now *without* towers!):

934 Franklin Street 3br/2ba, with wired shop outside, patio, hot tub, remodeled kitchen & both baths. \$139,500. Convenient downtown location in historic West Salem.

*Henry, W2DZO 336-761-8223
See Newsletter Hamfest, top of page 5*

TOWERS & HARDLINE

Rohn 25G: Four 10-foot sections. Good and straight. No rust. Three 10-foot sections. One 8-foot top section, good condition Asking \$200.00.

Rohn 6N, three 20' sections 4-foot face. Very good condition. One 18-foot section. Had to be cut off for removal! Otherwise in excellent shape. Top section has a platform. You could mount other tower like 25-45G in top to extend height. This is a very strong (BIG!) tower. It was used for small Doppler radar. Perfect for large array like 80m beam. Asking \$1,500.00.

I also have several pieces of hard line I have taken down, 7/8-inch diameter. I also have the connectors. Every piece will be checked with the TDR before I sell it. Im looking to sell it, not get rich off of it. \$0.75 per foot.

I also have hardline connectors from \$20.00 - \$75.00 by size. If you should wonder why you should use hardline - just checkout the db loss per 100' compared to RG-213.

If you're interested you can reach me by e-mail or call!! Delivery can be arranged within 50 miles or so. But pick-up is desired!

*KG4NEP, Robert L. Whitaker Jr.
336-997-6896
kg4nep@yahoo.com*

Hi, I am looking for a used hand held transceiver that works good. There may be someone in the club that is selling one.

Gail, 725-3499

Equipment for Sale: Ten-Tec 227 antenna tuner; Bird Wattmeter; MFJ 949C antenna tuner; Swan WM-1500 Wattmeter; Ten-Tec keyer paddle; A&A Engineering 20-meter QRP transceiver; B&W 550A coax switch, Small Wonder Labs 40-meter QRP transceiver w/ audio amp; Vibroplex Bug No. 168864; Heil Operator headset; Astron RS-35M Power Supply; The Morse Machine MM-3 w/book and pwr supply; QRP or FD padded carrying case; Mirage B1016 2-meter amplifier (10 in - 160 out); Micronta multimeter; various coax cables w/ connectors installed; Vibroplex Bug no 171146; MFJ paddle and keyer model 422B-X; MFJ Versa Tuner III model 962B w/ manual; Micronta battery tester; the Power Station (portable 12-V gel cell); Ten-Tec model PM1 transceiver; Hobbico expanded-scale voltmeter for batteries; Lafayette Dyna-Com 23 handheld CB; CW audio filter; Heathkit VTVM; AEA PK-88 Packet controller; Zenith video cassette recorder; JVC Phono turntable; Brother electronic typewriter; 3-element Hygain 10, 15 and 20-meter Beam; 4-element 10-meter beam, 8 or 10-element longjohn wide-spaced 2-meter beam; 435-MHZ beam; Butternut 4BTV 10, 15, 20 and 40-meter vertical; Ten-Tec Omni 6 HF rig; Icom IC251A all-mode 2-meter transceiver; Ten-Tec Scout with plugins for 160, 80, 40, 30, 20, 17, 15, 12, 10 meter bands; and 2 TV antennas.

Val Valentine, K4JO, Heritage Woods, 3812 Forestgate Dr., Winston-Salem, NC 27103 336-768-4469

W4NC 75th Anniversary

W4NC turns 75 years old on December 30 of this year! Any ideas on how we can celebrate? Bring your ideas to the next Club meeting.

From The ARRL Letter

FCC AFFIRMS \$4000 FINE FOR MISSOURI AMATEUR

The FCC has affirmed a \$4000 fine for Paul D. Westcott, KC0OAB, of Purdy, Missouri, for "willful and repeated failure to respond to Commission requests for information about his station." The FCC reports it has received "numerous complaints" alleging that KC0OAB for several months now has been transmitting CW "24 hours a day, 7 days a week" on 7.030 MHz.

"A licensee cannot ignore the directives in a Bureau inquiry letter," the FCC said in the November NAL. "We, therefore, conclude that Paul D. Westcott apparently willfully and repeatedly failed to respond to Commission correspondence."

FCC PROPOSES HOLDING THE LINE ON VANITY CALL SIGN FEE

The FCC has proposed retaining the current \$20.80 Amateur Radio vanity call sign regulatory fee for the 10-year license term. The fee went from \$16.30 to \$20.80 last August. The FCC anticipates 8000 vanity call sign applications during FY2005--up from 7800 applications in FY2004--and it expects to raise \$166,443 from vanity call sign fees.

FCC UPHOLDS FINE FOR UNLICENCED OPERATION ON AMATEUR FREQUENCY

The FCC has affirmed a \$10,000 fine against a now-closed New Jersey restaurant and its owner for alleged unlicensed operation of a radio transmitter on 2 meters. The Commission's action strongly defended amateur spectrum against unlicensed intruders.

"Any use of Amateur Service frequencies for business communications creates a great potential for harmful interference to authorized Amateur Service communications," the FCC said. "We must take strong action against such use because failure to do so would only encourage others to engage in the same conduct."

Editor's Corner

For information to make it into the Newsletter, I need submissions no later than the morning of the 4th Monday of the month. Email me at ws4nc@arrl.net with any submissions. Just plain text is all that's required, most formatting will be redone to match the Newsletter's form anyway. Pictures can be most any form, but jpg's are probably best. Pictures need to be of the highest resolution possible.

73, Don, WS4NC

ADDRESS CORRECTION REQUESTED

Moment of Zen

Handwritten mathematical derivations on grid paper:

$$c = a + b + d$$

$$c = (T \cdot S \cdot (\Omega \cdot 10^3)) + 3a + 2 \cdot 3 \ln(11) \cdot 2$$

$$c = (T \cdot S \cdot \log \frac{1}{x+z} + 3a + 6 \ln(11)) \cdot 2$$

$$c = \left[\int_{x_1}^{x_2} \alpha dx + \frac{\beta[(3+x)] + 6 \cdot 3 \Gamma}{(5+y)(8+z)+1} + 6 \ln(11) \right] \cdot 2$$

$$c = \left[\int_{x_1}^{x_2} \frac{\gamma(3+x) + 6 \cdot 3 \Gamma}{(5+y)(8+z)+1} dx + \frac{\beta(3+y) + 6 \cdot 3 \Gamma}{(5+y)(8+z)+1} + 6 \ln(11) \right] \cdot 2$$

$$c = \left[\int_{x_1}^{x_2} \frac{\gamma(3+x) + (\beta \cdot 100) + 3 \Gamma}{(5+y)(8+z)+1} dx + \frac{\beta(3+y) + (\beta \cdot 100) + 3 \Gamma}{(5+y)(8+z)+1} + 6 \ln(11) \right] \cdot 2$$

$$c = \left[\int_{x_1}^{x_2} \frac{\sqrt{3+7x} + (\beta \cdot 100) + 3 \Gamma}{(45+y)(8+z) + \log 8} dx + \frac{\beta \sqrt{3+7x} + (\beta \cdot 100) + 3 \Gamma}{(45+y)(8+z) + \log 8} + \frac{6 \ln(11)}{10 \Omega \cdot 6 \Gamma \cdot 2 \cdot 1} + \log 8 \right] \cdot 2$$

$$c = \sqrt{\left[\int_{x_1}^{x_2} \alpha dx + \frac{\omega \beta \sqrt{3+7x} + (\beta \cdot 100) + 3 \Gamma}{(5+y)(8+z)} + \frac{6 \ln(11)}{10 \Omega \cdot 6 \Gamma \cdot 2 \cdot 1} + \log 8 \right] \cdot 2}$$

$$c = \sqrt{\left[\int_{x_1}^{x_2} \alpha dx + \frac{\omega \beta \sqrt{3+7x} + (\beta \cdot 100) + 3 \Gamma}{(5+y)(8+z)} + \frac{6 \ln(11)}{10 \Omega \cdot 6 \Gamma \cdot 2 \cdot 1} + \log 8 \right] \cdot 2}$$

$$c = \sqrt{\left[\int_{x_1}^{x_2} \alpha dx + \frac{\omega \beta \sqrt{3+7x} + (\beta \cdot 100) + 3 \Gamma}{(5+y)(8+z)} + \frac{6 \ln(11)}{10 \Omega \cdot 6 \Gamma \cdot 2 \cdot 1} + \log 8 \right] \cdot 2}$$