GMARC MEETING MINUTES 21-MAR-2017

V2.2

I. Call to Order by the President, Tony W8OKX at 7:03 PM.

II. Introductions, Upgrades, and Visitors

There were (4) Visitors. Tim KE8EJR, Carl N8AE, Ray W8PIE and Brian KC8KJL

III. Minutes

Minutes of the 21-Feb meeting were available at the meeting. Motion to approve February minutes by Mike W8MJC and seconded by Ron WD8MNX. Motion carried.

IV. Treasurer's Report - Don K7SDF

There was no Treasurer's Report offered by Don K7SDF and none was approved. Don stated that he is changing accounting to a month-end basis (not meeting-to-meeting), and he will present a report through 31-Mar-2017 at the April meeting.

V. Membership Report - Bobby N8CY

We have 48 members who have paid their 2017 dues, and 37 Heritage Members. The following members paid their 2017 Dues at the meeting:

Roberta K8NET Del WW2MI Tim KE8EJR Dee N8UZE Carl N8AE

Andy AC4EM Lisa KB1IPV

VI. GMARC Web Site - Frank W8FKZ

The GMARC Web Site has been completely redone in WordPress by Frank W8FKZ. The new web site is very aesthetic and it should be much easier to maintain the pages in the new system. Frank would like us to send pictures to him that can be used on the Web Site (<u>FrankSonye@comcast.net</u>).

VII. Inter-Club Liaison – Bobby N8CY

Cadillac Hamfest 6-May-17 Saturday 8:00 AM Cadillac, MI

Dayton HamVention May 19-21, 2017 – Dayton, OH

Monroe Hamfest 18-Jun-17 Sunday 8:00 AM Monroe, MI

GMARC Lark-in-the-Park 20-Jun-17 Tuesday 3:00 PM – Riverbend Park Auburn Hills, MI

Michigan HamCon Oct 7-8, 2017 – Michigan International Speedway

www.glhamcon.org

VIII. Technical Committee Report - Ron WD8MNX

We have a new ArCom RC-210 controller (approx. cost \$600) courtesy of Ron WD8MNX that has been installed. This controller can control (3) devices and interconnect them; e.g. our UHF Repeater, VHF Repeater, and the Weather Radio. It has a total of 691 functions that can be programmed.

Ron noted that the 443.075 MHz repeater has an Effective Radiated Power (ERP) of 600-watts.

IX. Presentation – FlexRadio Systems[®] FLEX-3000 Software Defined Radio (SDR) – Richard KC8HMJ [www.FlexRadio.com]

Richard KC8HMJ (with the assistance of Dick KE8BFF) made an interesting and informative presentation on the FlexRadio Systems[®] FLEX-3000 (SDR) Transceiver:



The FlexRadio FLEX-3000 transceiver is no longer produced as well as the FLEX-1500 QRP rig, and the more complex FLEX-5000. FlexRadio Systems[®] now manufactures (3) SDR transceivers as shown on their web site www.flexRadio.com: FLEX-6300, FLEX-6500, and FLEX-6700 and SmartSDR software version 1.10.16 for Microsoft Windows[®]. Unfortunately, Systems[®] quit doing any software updates for their *orphaned* rigs with their new top-of-the-stack radios on the market: FLEX-6300, FLEX-6500, and FLEX-6700. (Sherwood Engineering Labs http://www.sherweng.com/table.html)

To take care of the software issues, an Amateur Operator – Darrin Kohn **KE9NS** of Bartlett, IL has been developing software on his own – PowerSDR v2.8.0.S12. His software is not just an upgrade – it provides many features that probably were not thought of by FlexRadio Systems $^{\$}$. He has several videos on his web site demonstrating the new features.

Rich said he considers KE9NS's work and talent to be nothing short of awesome:

http://ke9ns.com/flexpage.html

eHam: http://www.eham.net/ehamforum/smf/index.php?topic=108756.0





All (3) radios require a personal computer for operation and for the Panadapter display – a panoramic display that attaches to your rig's first IF stage and gives you the opportunity to look at the **whole** band your rig is tuned to (Up to 3-MHz). Tie that to some basic computerized rig control, and you have a powerful tool that will allow you to spot another station in real-time, click on that station, and your rig will *instantly* tune to that frequency!

The FLEX-1500 is not very fussy about the computer it is connected to. Rich noted that he has used an old notebook type computer on his rig with a combined tuner/amp – since this SDR does not have a built-in tuner nor more than 5-watts RF output.

The FLEX-3000 and FLEX-5000 transceivers require a computer that has an available *card slot* for a Firewire[®] card. Otherwise, the computer does not require anything special.

Sometimes, you can purchase a good *used* FLEX-3000 for just the price of a Panadapter for a K3 or K3S.

Rich stated that some "knob" radios come with an barely usable Panadapter. However FlexRadios, as well as other SDRs, provide other features not found on "knob" radios. For example, if you don't like the appearance of your radio you can *change* the skin! Have you ever been able to *change* the *color* of your radio?

You can change the frequency on your radio in several different ways – including an optional (virtual) "knob" if desired. Another useful feature is that you never have to look at a Band Plan; i.e. you just look at the Panadapter display, and it shows whether you are in the Extra portion, shortwave portion, or WWV portion of the Band. The FLEX-3000 has 9 or 10 pre-set filters and 2 variable filters on receive.

For the demo, Richard and Dick KE8BFF used an Eagle One antenna (that is designed to be mounted on a Motor Home) but was mounted on a tri-pod.

FlexRadios offer many more features that may be of interest to Amateur Operators.

X. GMARC Embroidered Logo Gear

Ken N8COQ ordered a Royal Blue Jacket Size L. Frank W8FKZ ordered a Royal Blue Jacket Size XL.

The following members ordered GMARC Navy Caps: Allen W8EAP. I ordered (3) Extra hats (\$9) – Navy Blue, but they will go fast (first come first served).

This order was placed on 31-Mar-2017 and was delivered on 10-Apr-2017.

I will place a **new** order for anyone who is interested in a Jacket (\$43), Polo Shirt (\$28), or Navy Hat (\$9). Jacket – Style **6047** (\$43) – Royal Blue is the most popular color – but available in 4-colors: Pewter Grey, Royal Blue, Black and Navy Blue up to Size 2XL, Polo Shirt Style **1140** (\$28) – available in 18-colors: Orange, Light Blue, Lime green, Kelly Green, Gold, Dark Green, Mint Green, White, Pale Yellow, Black, Burgandy, Navy Blue, Charcoal Grey, Royal Blue, Purple, Red, Bright Blue, and Teal Blue up to Size 6XL, and Style **1251** priced at \$22 – available in 5-colors: Dark Smoke Grey, Royal Blue, Black, Navy Blue, and Red up to Size 2XL, or Hat Style **8460** (\$9) – One Size Navy Blue. Queensboro has recently added some additional Polo Shirts: Style **1251** priced at \$22 – available in 5-colors: Dark Smoke Gray, Royal Blue, Black, Navy Blue, and Deep Red up to Size 2XL, Style **1143** (with pocket) priced at \$28 – available in 18-colors: Orange, Light Blue, Lime green, Kelly Green, Gold, Dark Green, Mint Green, White, Pale Yellow, Black, Burgandy, Navy Blue, Charcoal Grey, Royal Blue, Purple, Red, Bright Blue, and Teal Blue up to Size 6XL, and Style **1251** priced at \$22 – available in 5-colors: Dark Smoke Grey, Royal Blue, Black, Navy Blue, and Red up to Size 2XL and Style **1686** priced at \$18 – available in 5-colors: Charcoal,

White, Black, Navy Blue, and Pro Red up to Size 2XL. All items: There is an additional charge for Large Sizes: 2XL +\$2, 3XL +\$3, 4XL +\$4.

Queensboro also has T-Shirts (with and without a pocket) available if anyone is interested. For example, Gildan DryBlend T-Shirt Style **7280** priced at \$9 (Save 74%) – available in 12-colors: Carolina Blue, Heather Grey, Charcoal Heather, Tennessee Orange, Lime Green, Forest Green, Black, Royal Blue, White, Red, Navy Blue and Sapphire Blue up to Size 3XL. Gildan Classic <u>Long Sleeve</u> T-Shirt Style **7043** priced at \$11 (Save 75%) – available in 15-colors: Carolina Blue, Gold, Ash, Safety Orange, Safety Green, Dark Chocolate, Heather Grey, Forest Green, Red, Black, Navy Blue, Natural (Beige), Royal Blue, Purple, and White up to Size 3XL. Gildan Ultra Cotton T-Shirt Style **7047** priced at \$10 – available in 25-colors: Gold, Carolina Blue, Tangerine, Kelly Green, Orange, Heather Grey, Jack Dome (Green Teal), Heliconia Pink, Irish Green, Daisy (Beige), Maroon, Light Blue, Royal Blue, Purple, Natural (Beige), Pink, Black, White, Red, Lime Green, Sand (Beige), Ash (Grey), Forest Green, Navy Blue, and Sapphire Blue up to Size 5XL.

Dave W8DJH ordered a Polo Shirt Style **1140** in Charcoal Grey Size 3XL – \$31.

XI. Presentation - Packard Proving Grounds - Bill N8SA

Bill N8SA, who is a Trustee of the Packard Motors Foundation, gave a brief presentation about the history of Packard Proving Grounds and some of the facilities improvements that are underway.

XII. Old / New Busness

The first GMARC Saturday morning breakfast meeting was held 11-Feb-2017 at Sero's Restaurant on 12 Mile Rd (between John R & I-75) in Madison Heights at 9:30 AM.

We plan to meet every Saturday at 9:30 AM at Sero's. We have had 11 consecutive meetings that were well attended. Please plan to join us when you can.

XIIi. Attendance + Funds Collected

27 Members attended. There were (4) visitors.

The following funds were collected and deposited @ TCF Bank:

Membership Dues \$ 90.00

Upcoming Events for GMARC:

18-Apr-17 Tuesday 7:00 PM (Trinity Lutheran Church) **Next Membership Meeting Cadillac Hamfest** 6-May-17 Saturday 8:00 AM Cadillac, MI May 19-21, 2017 - Dayton, OH **Dayton HamVention IRA Hamfest** 03-Jun-17 Saturday 8:00 AM - Hudsonville, MI **Chelsea ARC Swap Meet** 04-Jun-17 Sunday 8:00 AM - Chelsea, MI **Monroe Hamfest** 18-Jun-17 Sunday 8:00 AM - Monroe, MI **GMARC Lark-in-the-Park** ??-Jun-17 4:00 PM - River Woods Park - Auburn Hills 22-Jul-17 Saturday 8:00 PM - Packard Proving Grounds **GMARC Trunk Swap Harrison Hamfest** 22-Jul-17 Saturday 8:00 AM - Harrison, MI CMARC "Outdoor" Hamfest 29-Jul-17 Saturday 8:00 AM - Lansing, MI **Seaway Trunk Swap** 13-Aug-17 Sunday 8:00 AM - Port Huron, MI **GMARC Lark-in-the-Park** 15-Aug-17 Tuesday 4:00 PM - River Woods Park - Auburn Hills 19-Aug-17 Saturday 8:00 AM - Alpena, MI Alpena Swap 2017 09-Sep-17 Saturday 8:00 AM - Wyoming, MI **GRAHamfest** 17-Sep-17 Sunday 8:00 AM - Adrian, MI **Adrian Hamfest GMARC Trunk Swap** 23-Sep-17 Saturday 8:00 AM - Packard Proving Grounds **Great Lakes HamCon/Convention** Oct 7-8, 2017 - Michigan International Speedway www.glhamcon.org

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XIV. Meeting Adjourned at 8:53 PM.

Respectfully submitted,

Bobby Corr N8CY, Secretary **GM Amateur Radio Club**

Cell: 248.346.2733

Cash Flow - Year To Date

1/1/2017 through 4/5/2017

Category	1/1/2017- 4/5/2017	
INFLOWS		
Dues		
Heritage	20.00	
Regular	530.00	
TOTAL Dues	550.00	
Hamfest And Convention Funds		
GLARC HamCon 2017	0.00	
TOTAL Hamfest And Convention Funds	0.0	
Raffles		
50-50 Raffles	27.0	
TOTAL Raffles	27.00	
Repeater Fund		
DR-2X Repeater	702.50	
TOTAL Repeater Fund	702.50	
TOTAL INFLOWS	1,279.5	
OUTFLOWS		
Business Operations		
501(c)(3) Fund	250.00	
TOTAL Business Operations	250.00	
Coffee Fund	-5.7	
Member Recognition	64.50	
Repeater Operations	150.00	
TOTAL OUTFLOWS	458.7	
OVERALL TOTAL	820.7	

Balance Sheet 12/20/2016 through 3/31/2017

Category	12/20/2016- 3/31/2017	
INCOME		
Dues		
Heritage	20.00	
Regular	560.00	
TOTAL Dues	580.00	
General Fund	1,495.53	
Hamfest And Convention Funds		
GLARC HamCon 2017	0.00	
TOTAL Hamfest And Convention Funds	0.00	
Raffles	721.08	
50-50 Raffles	27.00	
TOTAL Raffles	748.0	
Repeater Fund	1,035.90	
DR-2X Repeater	1,102.50	
TOTAL Repeater Fund	2,138.40	
TOTAL INCOME	4,962.0	
EXPENSES		
Business Operations		
501(c)(3) Fund	-150.00	
New Member Mailpiece Fund	-10.96	
TOTAL Business Operations	-160.96	
Coffee Fund	-5.79	
Member Recognition	64.50	
Repeater Operations	150.00	
TOTAL EXPENSES	47.79	
OVERALL TOTAL	4,914.22	

GM Amateur Radio Club 2017 Operating Budget Month Bills Amount \$200 Donation to Trinity Lutheran Church \$350.00 January \$150 to RenCen for 6 month of utilities \$ 20 Annual Non-Profit Org State Report \$275 IRS 501(c)(3) filling, \$500 donation Februrary \$295.00 to GL HamCon (funded by N8SA + W8WAC) March April \$1,500 Purchase Yaesu DR-2X Fusion Repeater (funded by DR-2X Fund \$1,082 May - 0 -+ Raffle Fund \$721) - Capital Expenditure. June \$100 Lark-in-the-Park - June Meeting \$100.00 July \$150 to RenCen for 6 month of utilities \$150.00 August \$100 Lark-in-the-Park - August \$100.00 September RenCen Antenna Liability Insurance October \$298.00 expires on 10/21, cost will likely be \$298. November \$140.00 December \$140 Volunteer Recognition Event Requires (50) Members @ \$20/year to **Fixed Cost** cover this amount = \$1,000, + 50/50 \$1,433.00 Total Raffles = \$180, + Trunk Swaps = \$150 Note: Above amount does not include amounts for maintenance / repair of Variable Repeater Infrastructure. Could be as high \$625.00 Cost Total as \$500/year. There will also be misc. expense of "Blue Bucket", Office Supplies and/or Postage - \$125/year. Requires (81) Members @ \$20/year to Grand cover this amount = \$1,650 , + 50/50 \$2,058.00 Total Raffles = \$180, + Trunk Swaps = \$150 OR: Some combination of Members + Trunk Swaps and/or Raffles. Note: Misc donations; e.g. at other Clubs'

By: Bobby Corr N8CY, Secretary Date: 9-Apr-2017 - Version: 2.1

Swaps go to the Repeater Fund.

Current Budget - Q1 2017 1/1/2017 through 3/31/2017 Using 2017 GMARC Budget

017 1/1/2017 - 3/31/2017				-
Category	Actual	Budget	Difference	
INCOME	1,279.50	1,787.50	-508.00	
Dues	550.00	1,025.00	-475.00	
Heritage	20.00	20.00	0.00	
Regular	530.00	1,005.00	-475.00	
Other Dues	0.00	0.00	0.00	
General Fund	0.00	0.00	0.00	
Hamfest And Convention Funds	0.00	0.00	0.00	
GLARC HamCon 2017	0.00	0.00	0.00	
Other Hamfest And Convention Funds	0.00	0.00	0.00	
Raffles	27.00	60.00	-33.00	
50-50 Raffles	27.00	60.00	-33.00	
Other Raffles	0.00	0.00	0.00	
Repeater Fund	702.50	702.50	0.00	
DR-2X Repeater	702.50	702.50	0.00	
Other Repeater Fund	0.00	0.00	0.00	
EXPENSES	394.25	496.00	101.75	
Business Operations	250.00	292.00	42.00	
501(c)(3) Fund	250.00	250.00	0.00	
New Member Mailpiece Fund	0.00	0.00	0.00	
Other Business Operations	0.00	42.00	42.00	
Coffee Fund	-5.75	0.00	5.75	
Repeater Operations	150.00	204.00	54.00	
Net Difference:	885.25	1,291.50	-406.25	_

Agenda

To Be held @ Trinity Lutheran Church April 18, 2017 – 7:00 PM

- I. Call to Order and Pledge of Allegiance President Tony W80KX Presiding
- II. Introductions, Upgrades, and Visitors (5 minutes 7:05)
- III. Presentation Homebrew APRS I-Gate w/ Raspberry Pi Marty KB8JIU (25 minutes)
- IV. Minutes of March Meeting Bobby N8CY (Motion to Approve) (5 minutes 7:35)
- V. Treasurer's Report Page 5+6 of Minutes Don K7SDF (Motion to Approve) (10 minutes) Motion to *close* the New Member Mailpiece Fund \$10.96, and the 501(c)(3) Fund \$125.00, and transfer the balances (\$135.96) to the General Fund.
- VI. Membership Report Bobby N8CY (5 minutes 7:50)

Scott still needs additional Net Control Operators (NCOs) for the GMARC Monday Night InfoNet @ 8:00 PM. If you are willing to take one night a month, please let Scott know.

VII. Inter-Club Liaison - Bobby N8CY (5 minutes - 7:55)

Next Membership Meeting 16-May-17 7:00 PM Tuesday (Trinity Lutheran Church) **Cadillac Hamfest** 6-May-17 Saturday 8:00 AM Cadillac, MI **Dayton HamVention** May 19-21, 2017 - Dayton, OH **Monroe Hamfest** 18-Jun-17 Sunday 8:00 AM Monroe, MI **GMARC Lark-in-the-Park** ??-Jun-17 4:00 PM - River Woods Park- Auburn Hills **GMARC Trunk Swap** 22-Jul-17 Saturday 8:00 PM - Packard Proving Grounds 18-Aug-17 Tuesday 4:00 PM - River Woods Park- Auburn Hills **GMARC Lark-in-the-Park** 23-Sep-17 Saturday 8:00 PM - Packard Proving Grounds **GMARC Trunk Swap Great Lakes HamCon** Oct 7-8, 2017 - Michigan International Speedway www.glhamcon.org

VIII. Technical Committee Report - Ron WD8MNX (10 minutes - 8:05)

Ron still needs additional Control Operators (COs) for both of our Repeaters. If you can monitor one (or both) of our Repeaters at certain times of the day, please let Ron know.

IX. Break - (8:05 - 8:20 PM)

50/50 Prize Raffle - Linda KD8SAI

- X. New Business (Draw for 50/50 Raffle before this Segment):
 - Discuss formation of a Committee to evaluate the feasibility for GMARC to have a "Full Swap" in 2018 and beyond (5 minutes – 8:25) Magic Mike W8MJC + Fliers for Dayton
 - Discuss Location for Future Meetings: Trinity Lutheran vs. PPG (15 minutes 8:40)
 - Discuss date for June xx, 2017 Lark-in-the-Park @ River Woods Park in Auburn Hills.
 20-Jun-2107 (our normal meeting night) is <u>not</u> available. Possible dates are:
 June 13, 19, 21, or 27 Membership vote for one. (5 minutes 8:45) Bobby N8CY
 - Discuss By-Laws Change v1.75: Due to 501(c)(3) Tax Exempt Status (5 minutes 8:50)
- XI. GMARC Embroidered Logo Gear (See Minutes Pg. 2) Bobby N8CY (5 minutes 8:55)
 - Items previously ordered (2-Jackets + 1-hat) were ordered from Queensboro on 31-Mar-2017 and received 10-Apr-2017) Congratulations Ken, Frank, and Allen!
 - See Minutes Pg. 4 for Available Items (Jacket, Shirt, Hat) with Style Number, Available Colors / Sizes, and Prices. I expect to place another order wih Queensboro in May come prepared in May to order what you want for delivery at the June Lark-in-the Park.

XII. Adjourn (Before 9:00 PM)