University of Michigan Amateur Radio Club: W8UM & W8AXZ

W8UM Student Officers; 2023 - 2024

President:	Maggie Li	KI5YMO
V-President:	Mick Gordinier	KE8VWA
Treasurer:	Kaleo Roberts	KE8TBP
Publicists:	Vacant	
Website:	Justin Hyun	

W8UM Trustee: Mark Travaglini, WD8DPA
W8AXZ Trustee: Michael Fluegemann, KE8AQW
Faculty Advisor: Prof. Amir Mortazawi, AC8YB

W8UM Meeting Dates

September 02, 2023	Student Open House
September 21, 2023	ROOM 1012 & ZOOM
October 26, 2023	ROOM 1012 & ZOOM
November 16, 2023	ROOM 1012 & ZOOM
December 21, 2023	**Winter Break – No Mtgs.**
January 18, 2024	ROOM 1012 & ZOOM
February 15, 2024	ROOM 1012 & ZOOM
March 21, 2024	ROOM 1012 & ZOOM
April – August	**Summer Break – No Mtgs.**

Officer Nominations: February Meeting
Club Officer Elections: March Meeting

W8UM Club Events & Dates

Northfest	Monday, September 2, 2023
Festifall	Tuesday, August 30, 2023
ECE Open House	Friday, September 29, 2023 (5-7:30 pm)
KB6NU 1-Day Class	Saturday, September 30, 2023
Collegiate QSO	Saturday, October 7-9, 2023
ARRL School Club	Week of October 16-20, 2023
ARRL CW Sweeps	November 4-6, 2023
ARRL Phone Sweeps	November 18-20, 2023
KB6NU 1-Day Class	Saturday, TBD Feb or March 2024
NA QSO Party (CW)	January 13, 2024 2nd Full wknd in January
NA QSO Party (SSB)	January 19, 2023 3rd Full wknd in January
(North America Collegiate Championship)	
Winter Field Day	Last Weekend in January 27, 2024
ARRL School Club	Week of February 12-16, 2024
Mi QSO Party	April 15, 2023
ARRL Field Day	Saturday, June 28-29, 2024
One Helluva Ride	Saturday, July xx, 2024

W8UM Sunday Night Net (8 pm Ann Arbor time): 145.23 MHz, PL 100 Hz (-.600 MHz) or via EchoLink Node 301158 (W8UM-R)

Amateur Radio Club **Virtual & In-Person** Meeting Agenda for:
Thursday, January 18, 2024

Meeting Time: 6:30 pm
(Local Time / Eastern Time Zone)

Room Change!
Room 1003 EECS Bldg.

PIZZA will be provided!



KN6SXI simultaneously monitoring balloons from the Aerospace Program

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Meeting ZOOM Link: https://umich.zoom.us/j/4780563282

Meeting ID: 922 8076 161

Facebook: https://facebook.com/groups/329930310446470
Website: https://umarc.eecs.umich.edu
Slack: amateurradioclubw8um.slack.com

QRZ.com: W8UM
QRZ.com: W8AXZ
e-mail: W8UMBoard@umich.edu

Boaz-Albertville ARC					
KN4UPN	153	2	24	1,460	AL
Northwest IL RC					
W9F	148	2	15	1,442	IL
Univ. of Michigan					
W8UM (+W8AXZ)					
	96	2	4	1,442	MI
Lehigh Valley ARC					
W3OI	215	2	25	1,412	EPA
Titusville ARC					
K4KSC	279	2	3	1,402	SFL

Field Day 2023: 2A, 7th Place among Michigan Stations

University of Michigan Amateur Radio Club: W8UM & W8AXZ

Club Announcements & Planned Activities: Maggie Li & Mick Gordinier

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1. **President's Welcome**
2. Treasurer's Report
3. Station Manager's Report

Treasurer's Report:

Balance (12/11/2023):	$	10937.95
Revenues (Equip. sales):	$	0.00
Donations (Item 5a):	$	175.00
Less Expenses: (Item 5b):	$	105.82
Balance (01**/10/2024**):	$	11007.13

W8UM Repeaters (Weiser Hall)

145.230 MHz w/ EchoLink

(NEW) *29.640 RX, 29.540 TX (-) Tone 114.8*

(NEW) *444.975 RX, 449.975 TX (+) Tone 107.2*

444.075 RX, 449.075 TX (+) Tone 82.5

Station Manager's Report:

EECS Location:

Radio's: **Yaesu FTDX 5000 / Flex 6400**
IC-746 / IC-910 / APRS / FT-8800 / TS-590

Main Tower: SteppIR (6-40M), 2M Yagi, 70cm Yagi, Discone

Wires: 80M, Barker & Williamson (6-160M)

Verticals: 10-20M, 10-40M, 2M (APRS), 10M

Tower Cam: operational

Amplifiers: Ameritron AL-82 / ACOM 2000A / SB-220

Satellite Tower: RH Circular Polarized Yagi; 2M & 70 cm

Trailer Tower: 35' Tower w/ 3-L SteppIR, Controller & Rotor

Storage: 40' tilt-over Tower / 3-Element Mosley 10-20M

HAB Program: 137 MHz / 404 MHz Antenna Array

UM Biological Station: (Pellston, MI.) **Remote Site in-progress**

4. Prior Business / News:
   a. ARRL Test Sessions; 2nd Saturday of each month. Contact ARROW Comm.,
   b. Open Shack Nights / SWL Open House: anyone interest in leading / organizing / scheduling?
   c. Peach Mountain Observatory Restoration: update / interest list created
   d. ~~Any interest in taking the lead on a MOTUS Research Group (UHF Bird Tracking Program)?~~ Operational 10/2023
   e. W1AW / ARRL Headquarters: if visiting Connecticut and wish to operate from W1AW, please contact Bob, NQ1R@arrl.net, to arrange.
   f. **WSPR Reception**: 10-80M. View weak signal band propagation into W8UM Ann Arbor**.** **http://wspr.rocks/?action=fetch&balloons=hide&rxCall=&txCall=W8UM&count=500&mode=All&band=all&hours=4&unique=false&advanced=**
   g. **NWS Weather Balloon** Tracking, from W8UM: Visit: http://habh1.eecs.umich.edu:5000. Launches occur around 6am & 6pm daily (Winter), 7am & 7pm (Summer)

5. W8UM / W8AXZ Contributions / Expenses / Donations:
   a. Generous Contributions / Financial Support Received:
      1. Jason DeBord
      2. Anonymous Donor
      3. Dave New
      4. Philip Nordstrand
      5. Ralph Katz
      6. Doug Cox

   b. Club Purchases / Expenses: **$ 105.82**

1. Pizza / Beverages	$	105.82
2. Festifall / WinterFest Registration	$	--

   c. Equipment Donors:
      1. None

d. Donated Equipment / Radios Received:
   1. None

5. Support W8UM / W8AXZ Activities: Food, Radio Repairs, Upgrades, Purchases, Tower & Antenna Maintenance
Financial Support / Donations Accepted from all (non-students) individuals with an amateur radio call sign.
Students are Free.
Credit Cards & Payroll Deduction accepted via the W8UM website below:
https://umarc.eecs.umich.edu/index.php/support-your-favorite-u-m-student-club/donate-online/

6. Covid-19: Student Organizations Rules for In-Person Events / W8UM Shack. **EFF 05/2022:** The following safety measures apply for all in-person gatherings, activities, events, programs, practices, rehearsals, competitions, and/or meetings hosted by recognized student organizations (RSOs).

- **Indoor campus events must adhere to UMich Public Safety Rules.**
- **All Masking & Social distancing have been eliminated.**
- ~~**Must download & complete the ResponsiBLUE Screening App and obtain a "Passed" for entry on campus.**~~
- **Must be Vaccinated & Boosted**

8. Scholarships Available to UMich Amateur Radio Club Students:

a.	ARRL Scholarship:	Link: **www.arrl.org/scholarship-application**
b.	Foundation for Amateur Radio (FAR):	Link: **https://www.farweb.org**
c.	Amateur Radio Digital Communications (ARDC):	Link: **https://www/ampr.org/giving/**
d.	Ford Motor Company Heritage Scholarship**:**	Link: **https://www.fhnus.org/heritage-scholarship-michigan**
e.	**NATIVE Forward Scholars Fund** (NEW; 11/2023)	Link: https://www.nativeforward.org

9. UM Knight-Wallace Journalism Fellow Articles on W8UM/Emergency Radio Communication:
   a. https://rjionline.org/news/what-radio-amateurs-and-journalists-have-in-common-during-natural-disasters/
   b. https://rjionline.org/news/when-the-internet-and-the-power-are-out-newsrooms-might-need-a-hamd/

10. UMich Biological Station (Pellston, MI): 40' Tower installation to begin in Spring 2024.

11. KB6NU 1-Day Tech Class: Scheduled for either Feb or March 2004 in EECS. Contact cwgeek@kb6nu.com to register.

12. UPCOMING Radio Contests: see above calendar.

13. Outside Events:
   a. Livonia Swap: Saturday, Feb 17, 2024
   b. ARROW Comm. Dayton Hamvention Bus Reservations. Contact www.W8RP.org/daytonbus2024

14. W8UM Radio Repair & Restoration Group:
   a. **Current Projects**;
      i. Calibrate Rig Expert Analyzers. Next project
      ii. Repair Collins power supply, Next project
      iii. Repair Heathkit Twoer transceiver, Next project
      iv. Zenith AM/FM/Phone Console alignment. Project completed 12/12/2023
   b. Please contact W8UM.Radio.Restoration.Group@umich.edu for "exact" dates / times of future restoration meetings and projects.
   c. W8UM has both a Hickok & EICO tube testers available for use & over 1200 tubes, assorted radio knobs & capacitors available to Members.

10. Available Shack Items List: Contact W8UM for info.

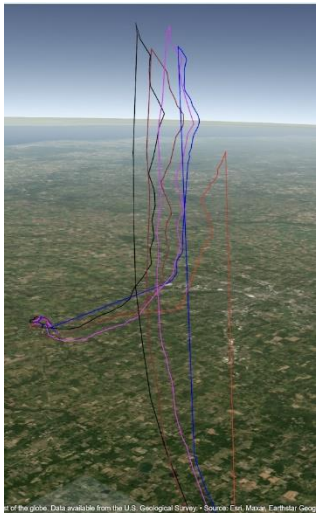
a.	Heathkit TC-3 Tube Checker	
b.	**HTDX10- RadioShack 10M transceiver**	Heathkit HM-102 SWR/PWR Meter
c.	Data transfer switch	Heathkit SB-600 Pwr Supply / Spkr

d. Radio Shack 3A/13.8 vdc pwr supply (new)
e. Fluke digital multimeter
f. VANCU Coax switch
g. Yaesu FT 23R 2M HT
h. LDG 200w RU 4:1 UNUN
i. Radio Shack scanner antenna
j. Desk Lamp
k. TenTec Model 234 Speech Processor
l. **TenTec Omni VI HF Transceiver w/ mic**
m. **Mosley TA-33 Yagi; 10-20M**
n. **Mirage 2M amplifier**
o. Vintage knobs, tubes
p. **Insulators; plastic and ceramic**
q. Motorola speaker
r. Copper tube
s. Discone (radials only)
t. MFJ 1.5kw dummy load
u. Pink Nose Generator
v. Sennheiser TR-130 Wireless headphone
w. Toroid Coils & Terminal Strips

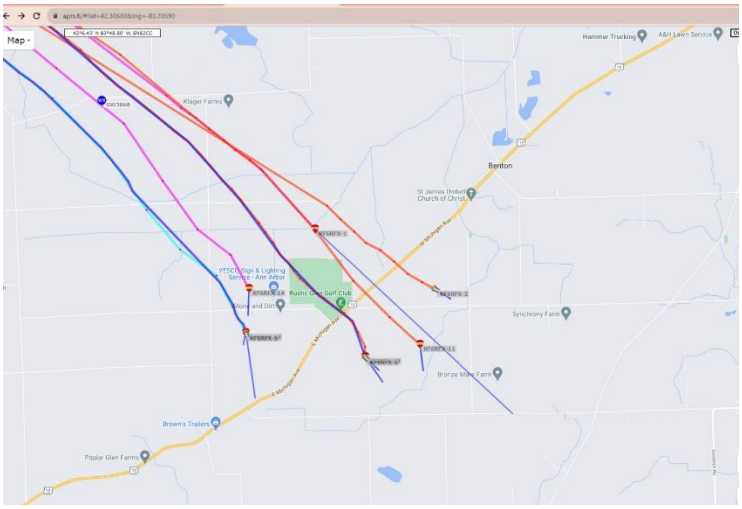
Heathkit SB-634 Station console
Heathkit SB-102 Transceiver
Heathkit SB-614 Station Monitor
Heathkit HD-19 Phone Patch
Heathkit SB-630 Station Console
Heathkit SB-610 Station Monitor
HeathKit SB-200 amp
Kenwood SM-220 Station Monitor
Heath 64 Shortwave REceiver
Vert antenna Tilt-Over bracket (x2)
Tilt-Over vert mast clamp

Copper ground rod (approx. 4')
ICOM 2M 25A
Knight Tube Tester
EZ Hang antenna slingshot
Kenwood R-1000 receiver
Arch Soldering Station
RadioShack Clamp-On Ammeter

11. Aerospace High-Altitude Balloon Launch (Nov. 2024): 5 Balloons launched & recovered



Balloon Trajectory Plot



144.390 & 144.350 MHz simultaneously plotted onto APRS.fi



144.390 (top) v 144.350 (lower) location

12. **Amateur Radio Digital Communications Grant Update (ARDC)**:
    a Repairs to the 10M Cross-Band Repeater;
        i. Repeater Operational, undergoing additional testing (01/04/2024)

13. W8U**M Shack Access**: If interested in obtaining a "Shack Access Code", that provides you with unlimited room access, please contact W8UM at W8UMBoard@umich.edu
    Shack Orientation / Access Key (Nov-Dec, 2023):
    a. None

14. **W8UM Sunday Night Net; Control Ops:**
    01/08/2024 Pat Seitzer, WA4DSR
    01/15/2024 Pat Seitzer, WA4DSR

15. **Members / Alumni:** If you plan to visit Ann Arbor and would like to tour or operate from W8UM please contact W8UM in advance at W8UMBoard@umich.edu to arrange.

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16. **UMich ARC Sunday Night Net 8pm local time**: if outside of Ann Arbor, sign-on to EchoLink using the Android, i-Phone or computer apps. Net is open to ALL licensed individuals.



iPhone screenshot

Download the FREE EchoLink app to connect to the W8UM repeater (145.230 MHz).

1. Call-sign verification may take minutes to several days
2. Search for W8UM and save to Favorites
3. Press Connect
4. Tap Transmit, on your iphone/android, to talk & Tap the screen to stop TX
5. Disconnect from the W8UM Repeater by tapping END
6. **Follow the same process to connect to repeaters throughout the world.**

17. Attendance (November, 2023): Attendance: 31 ZOOM: 9 In-Person: 22

18. Open Discussions / Comments / Audience Announcements:

19. Monthly Presentation: Described Above.

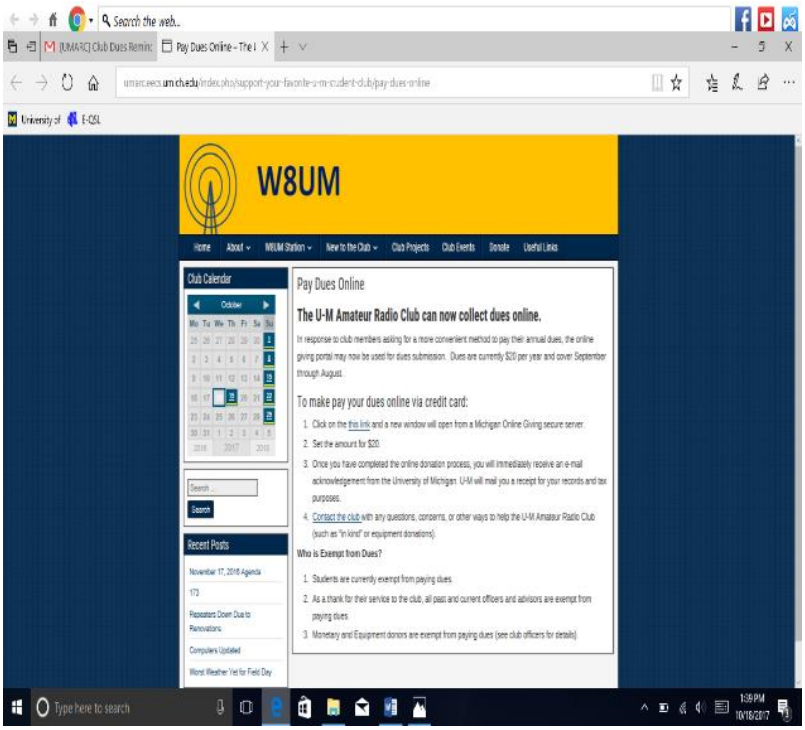
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W8UM President or Designee

To make a monetary donation to support W8UM, please use the link below.

https://umarc.eecs.umich.edu/index.php/support-your-favorite-u-m-student-club/donate-online/

University of Michigan Amateur Radio Club: W8UM & W8AXZ



W8UM Meeting Location: Room 1012 **First Floor Classroom**

Electrical Engineering & Computer Science Building

Address: 1301 Beal Ave.

ZIP: 48109



Engineering Campus Visitor & Employee Parking Lots **Parking Violations are $65; eff. 06/2023**

Hayward Street: Lot NC 20

FREE to Visitors after 5 pm weekdays & weekends or anytime with a UM Parking Pass.
FREE to Retiree's after 3:30 pm with Retiree Parking Pass
*** **Barrier Free Access** thru the DOW Bldg into the 3rd Floor EECS Bldg.

Hayward Street: Lot NC 48

FREE to Visitors after 5 pm weekdays & weekends or anytime with a UM Parking Pass.
VISITOR parking is $1.80 / hour (coin or credit card) before 5 pm
FREE to Retiree's after 3:30 pm with Retiree Parking Pass

*** NOT Barrier Free Access to EECS

Murfin Street / Walgreen Drama Center: Lot NC 27

FREE to Visitors after 8 pm weekdays & Sunday only or anytime with a UM Parking
VISITOR parking is $1.80 / hour (coin or credit card) before 8 pm
FREE to Alumni / Retiree's after 3:30 pm with Retiree Parking Pass
*** **Barrier Free Access** thru the courtyard to the EECS Bldg.

Beal Street: Lot NC 60 **GATED Parking Lot**

FREE to Visitors after 5 pm weekdays & weekends or anytime with UM Parking Pass
FREE to Alumni / Retiree's after 3:30 pm with Retiree Parking Pass
*** **Barrier Free Access** along the East Side of EECS Bldg.

University of Michigan Amateur Radio Club: W8UM & W8AXZ

Date: **January 18, 2024**

NAME	Unique or e-mail	Call Sign (if any)

University of Michigan Amateur Radio Club: W8UM & W8AXZ

Name	Unique or e-mail	Call Sign (if