University of Michigan Amateur Radio Club: W8UM & W8AXZ

W8UM Student Officers; 2021 - 2022

President:	Kim Zwolshen	KE8QKU
V-President:	Kaleo Roberts	KE8TBP

Social Media: **Vacant**
Website: **Vacant**

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

W8UM Meeting Dates

September 02, 2021	Student Open House
September 16, 2021	Room 1303 EECS
October 21, 2021	Room 1303 EECS
November 18, 2021	Room 1303 EECS
December 16, 2021	ZOOM
January 20, 2022	ZOOM
February 17, 2022	ZOOM
March 17, 2022	ZOOM
April – August	**Summer Break – No Mtgs.**

Officer Nominations: February Meeting
Club Officer Elections: March Meeting

W8UM Club Events & Dates

Northfest	Monday, September 2, 2021 (Pierpont; 11-2pm)
Festifall	Friday, September 6, 2021 (Central; 2-6 pm)
ECE Open House	Monday, September (5-7:30 pm)
KB6NU 1-Day Class	Saturday, September
Collegiate QSO	Saturday, September 19, 2021
ARRL School Club	Week of October 19-23, 2021
ARRL CW Sweeps	November 7-9, 2021
ARRL Phone Sweeps	November 21-23, 2021
KB6NU 1-Day Class	Saturday, January xx, 2022
NA QSO Party (CW)	January 9-10, 2022 2nd Full wknd in January
NA QSO Party (SSB)	January 23-24, 2022 3rd Full wknd in January
(North America Collegiate Championship)	
Winter Field Day	Last Weekend in January 30-31, 2022
ARRL School Club	Week of Feb 8-12, 2022
Ann Arbor City Mar.	March 21, 2022
Mi QSO Party	April 3, 2022
ARRL Field Day	Saturday, June 26-27, 2022
One Helluva Ride	Saturday, July 11, 2022

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 ONLY** Meeting Agenda for:
Thursday, March 17, 2022

Meeting Time: 6:30 pm (Local Time / Eastern Time Zone)
Via ZOOM ONLY & ~~Room 1303 EECS Lecture Hall~~

Link to Join Zoom Meeting: https://umich.zoom.us/j/6621123647

LAST Club Meeting Until September, 2022

Visit W8UM on:

Facebook: https://facebook.com/groups/329930310446470
Website: https://umarc.eecs.umich.edu
QRZ.com: W8UM
QRZ.com: W8AXZ
e-mail: W8UMBoard@umich.edu

Guest Speaker: **Jeff Kopmanis, University of Michigan Lowbrow Astronomer**
Lowbrow Website: http://websites.umich.edu/~lowbrows/theclub/

Topic: **Amateur Telescopes & Peach Mountain Activities**

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

Treasurer's Report:

Balance (02/13/2021):	$	7271.39
Revenues (equip. sales):	$	0.00
Donations (Item 5a):	$	0.00
Less Expenses: (Item 5b):	$	0.00
Balance (03/13/2022):	$	7271.39

Station Manager's Report:

EECS Location:

Radio's:	TS-590/FT-1000D/IC-910/IC-746/APRS/FT-8800
Antenna's:	
Tower:	~~SteppIR (6-40M),~~ 2M Yagi, 70cm Yagi, Discone
Wires:	80M, Barker & Williamson (6-160M)
Verticals:	10-20M, 10-40M, 2M (APRS)

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Satellite:	Circular Polarized Yagi; 2M & 70cm
Field Day:	3-Element SteppIR & 3-Element Mosley w/ 40M
	Circular Polarized 2M & 70cm Satellite Yagi
Tower Cam:	EECS Tower Cams: operational
Towers:	40' tilt-over Tower (in storage)
Trailer Tower:	35' Tower w/ 3-L SteppIR, Controller & Rotor
Weiser Hall:	145.23 repeater w/ EchoLink operational
Mich. Union Roof:	20' Tower & antennas removed August, 2019

4. Prior Business / News:
   a. ARRL Test Sessions; 2nd Saturday of each month. Contact ARROW Comm.,
   b. Volunteers wanted for positions at W8UM: Website, Social Media…
   c. Open Shack Nights / SWL Open House: anyone interest in leading / organizing / scheduling?
   d. Peach Mountain Observatory Restoration: update / interest list created
   e. Any interest in initiating a SDR Research Participation Group?
   f. Any interest in taking the lead on a MOTUS Research Group (UHF Bird Tracking Program)?
   g. **W8UM WSPR Beacon**: Beacon is on the air; 10-40M. View weak signal (0.02w) band propagation from Ann Arbor**.** **http://wspr.rocks/?action=fetch&balloons=hide&rxCall=&txCall=W8UM&count=500&mode=All&band=all&hours=4&unique=false&advanced=**
   h. W1AW / ARRL Headquarters: if visiting Connecticut and wish to operate from W1AW, please contact Bob, NQ1R@arrl.net, to arrange.

5. W8UM / W8AXZ Contributions / Expenses / Donations:
   a. Generous Monetary Contributions / Financial Support Received:
      1.

   b. Club Purchases / Expenses: **$0.00**

1.	Pizza / Beverages	$ 0.00
2.	WinterFest Registration	$ 0.00
3.	DX Engineering; coax, conns, lightning …	$ 549.58 *

*Insurance Claim, 12/2021

   c. Equipment Donors:
      1.

   d. Donated Equipment / Radios Received:
      1.

6. **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:
   http://umarc.eecs.umich.edu/index.php/support-your-favorite-u-m-student-club/pay-dues-online/

7. **Covid-19: Student Organizations Rules for In-Person Events / W8UM Shack.** **EFF 03/14/2022:** 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.**
   - **Masks are not required in UM Buildings BUT are required in UM Classrooms & Instructional areas ONLY during class times**
   - **6' Distance must be maintained in Room 4436 EECS**
   - **Must download & complete the ResponsiBLUE Screening App and obtain a "Passed" for entry on campus.**
   - **Must be Vacinated & Boosted**

8. Scholarships available to UMich Students:

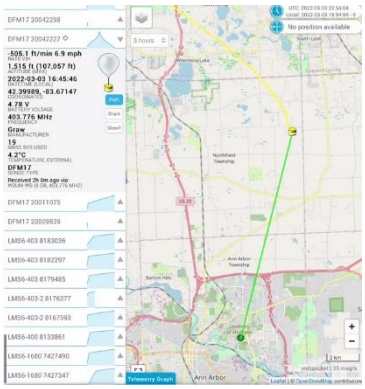
- **a.** ARRL Scholarship: Link: **www.arrl.org/scholarship-application**
- **b.** Foundation for Amateur Radio (FAR): Link: **https://www.farweb.org**
- **c.** Amateur Radio Digital Communications (ARDC): Link: **https://www/ampr.org/giving/**
- d. Ford Motor Company Heritage Scholarship**:** Link: **https://www.fhnus.org/heritage-scholarship-michigan**

9. **W8UM Radio Repair & Restoration Group:**
   - a. **Next Projects**;
     - i. Collins KWM2; spurious oscillations in the IF / RF stages
     - ii. Danish Sailor RT 144C (KB0ATY, C. Sandvig)
   - b. Palstar HF Auto-Tuner arrived. 03/2022
   - c. SteppIR Urban Beam (6-40M) Antenna expected to arrive during April, 2022
   - d. Please contact W8UM.Radio.Restoration.Group@umich.edu for "exact" dates / times of future restoration meetings and projects.
   - e. W8UM has both a Hickok & EICO tube testers available for use & over 1200 tubes, assorted radio knobs & capacitors available.

10. **W8UM History Project:** UM President Tappan may have been the first to observe Morse's Telegraph while both were faculty at NYU.
    - a. Henry Tappan's "My Dear Julia" letter, transcribed (attached)
    - b. Henry Tappan's letter reponding to Samuel Morse, transcribed (attached)

11. **High-Altitude Balloon Tracking Program**:
    - a. W8UM is in the initial stages of tracking NWS Radiosondes. W8UM successfully tracked & located a NWS balloon, launched from Green Bay, WI., on 03-04-2022. Photos: NWS balloons on descent and tracking from W8UM, farmland location, radiosonde circuitry, ruptured (shredded) latex balloon, radiosonde transmitter and orange parachute, warning tag and thank you to the 2 Mushroom Farmers who took their ATV's out to retrieve the balloon!
    - b. Next Aerospace HAB launch & tracking to occur during April. Contact W8UM for additional info. W8UM.APRS.Balloon.Tracking.Group@umich.edu
    - c. HAB Tracking manuscript in final preparation for submission











12. **ARRL / ARDC Grant Announcement**: Grant Application for ARC's to begin in April, 2022. Your Suggestions / Ideas for future projects?

13. Any interest in leading a Raspberry Pi / SDR Group for Engineering Students?

14. OPEN Shack Night: Wednesday evenings. Contact W8UM for info.

15. **Monroe ARC Swap: SUNDAY**, June 19, 2022.

16. **W8UM Shack Access**: If interested in obtaining a "Shack Access Code", that provides you with unlimited room access, please contact W8UM at W8UMBoard@umich.edu

17. **Shack Orientation & Access Key:**
    1.

18. **W8UM / W8AXZ Invited Speakers for the 2021-2022 school year:**

Sept.	Fred Lloyd, AA7BQ
Oct.	Bob Heil, K9EID
Nov.	Kristen McIntyre, K6WX
Dec.	ICOM, Japan
Jan.	Bob Bruninga, WB4APR * / Lynn Deffenbaugh
Feb.	Tony England, W0ORE
Mar.	University Lowbrow Astronomer Jeff Kopmanis

19. **W8UM Sunday Night Net; Control Ops:**

02/20/2022	Dan Romanchik, KB6NU
02/27/2022	Pat Seitzer, WA4DSR
03/06/2022	Pat Setizer, WA4DSR
03/13/2022	Pat Seitzer, WA4DSR

20. **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.

21. **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.



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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.**

22. Attendance (February, 2022): Attendance: 32 ZOOM: 32 In-Person: 0 Students: 5

23. Open Discussions / Comments / Audience Announcements:

24. Monthly Presentation: Described Above.

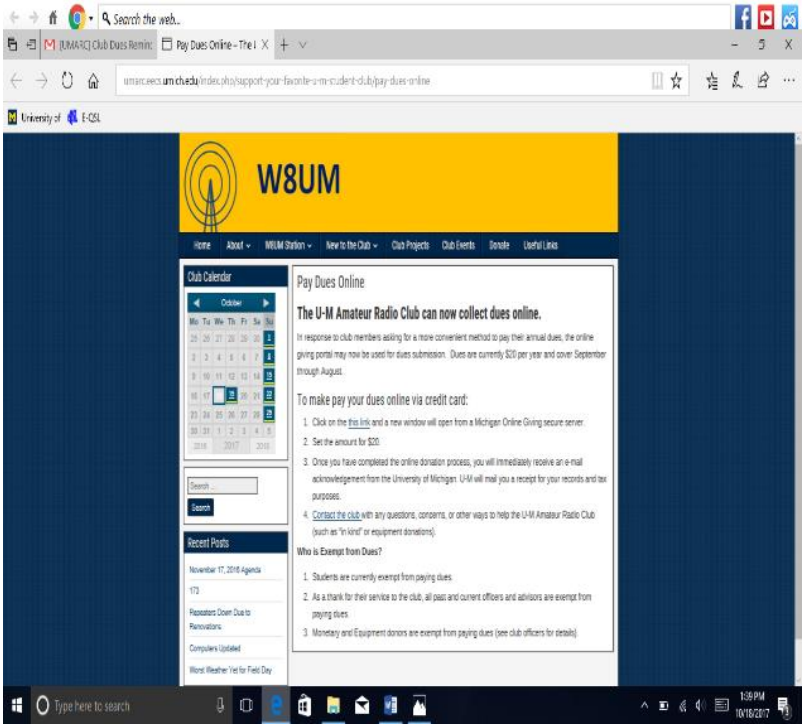
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W8UM President or Designee

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

http://umarc.eecs.umich.edu/index.php/support-your-favorite-u-m-student-club/pay-dues-online/a



W8UM Meeting Location:

Electrical Engineering & Computer Science Building

Address: 1301 Beal Ave.

ZIP: 48109



Virtual Meetings until further notice due to COVID-19 campus restrictions

University of Michigan Amateur Radio Club: W8UM & W8AXZ

Engineering Campus Visitor & Employee Parking Lots

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.