University of Michigan Amateur Radio Club: W8UM & W8AXZ

W8UM Student Officers; 2022 - 2023

President:	Kim Zwolshen	KE8QKU
V-President:	Kaleo Roberts	KE8TBP
Publicists:	Maggie Li	KI5YMO
	Mick Gordinier	KE8VWA
Website:	Justin Hyun	

W8UM Meeting Dates

September 02, 2022	Student Open House
September 15, 2022	ROOM 1012 & ZOOM
October 20, 2022	ROOM 1012 & ZOOM
November 17, 2022	ROOM 1012 & ZOOM
December 15, 2022	ROOM 1012 & ZOOM
January 19, 2023	ZOOM
February 16, 2023	ZOOM
March 16, 2023	ZOOM
April – August	**Summer Break – No Mtgs.**

Officer Nominations: February Meeting
Club Officer Elections: March Meeting

W8UM Club Events & Dates

Northfest	Monday, September 2, 2022
Festifall	Tuesday, August 30, 2022
ECE Open House	Monday, September (5-7:30 pm)
KB6NU 1-Day Class	Saturday, October 8, 2022
Collegiate QSO	Saturday, October 1, 2022
ARRL School Club	Week of October 17-21, 2022
ARRL CW Sweeps	November 5-7, 2022
ARRL Phone Sweeps	November 19-21, 2022
KB6NU 1-Day Class	Saturday, January TBD, 2023
NA QSO Party (CW)	January 14, 2023 2nd Full wknd in January
NA QSO Party (SSB)	January 22, 2022 3rd Full wknd in January
(North America Collegiate Championship)	
Winter Field Day	Last Weekend in January 28, 2023
ARRL School Club	Week of February 13-17, 2023
Mi QSO Party	April 3, 2023
ARRL Field Day	Saturday, June 24-25, 2023
One Helluva Ride	Saturday, July xx, 2023

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

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, December 15, 2022



Meeting Time: 6:30 pm
(Local Time / Eastern Time Zone)
Room 1012 EECS Bldg.

PIZZA will be provided!

Link: https://umich.zoom.us/j/8906493338

Link to Join ID: 8906493338

W8UM QST Journal Collection: QST was first published in December, 1915. Publication was suspended, during WWI, from September,1916 until May, 1919. The W8UM collection of QST journals begins in 1922.

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

Guest Speaker: **Tony Milluzzi, KD8RRT**

Topic: **ARRL Collegiate Amateur Radio Program (CARP)**

University of Michigan Amateur Radio Club: W8UM & W8AXZ

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

Treasurer's Report:

Balance (11/01/2022):	$	7840.89
Revenues (equip. sales):	$	85.11
Donations (Item 5a):	$	25.00
Less Expenses: (Item 5b):	$	124.24
Balance (12/05/2022):	$	7826.76

W8UM Repeaters

Weiser Hall: 145.230 MHz w/ EchoLink
29.640 MHz (in-progress)

Station Manager's Report:

EECS Location:

Radio's:	Kenwood TS-590 / Yaesu FT-1000D / TenTec Orion
	IC-746 / IC-910 / APRS / FT-8800
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 Cams: operational
Satellite Tower:	RH Circular Polarized Yagi; 2M & 70cm
Trailer Tower:	35' Tower w/ 3-L SteppIR, Controller & Rotor
Storage:	40' tilt-over Tower / 3-Element Mosley w/ 40M

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)?
   e. **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=**
   f. 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. Maggie Li
      2. Dave New
      3. Don Winsor

   b. Club Purchases / Expenses: **$ 124.24**

1. Pizza / Beverages	$	0.00
2. Festifall / WinterFest Registration	$	0.00
3. R&L Electronics (A/B Switch)	$	59.95
4. R&L Elec. (HT antenna connectors)	$	64.29
5. UM Plant Services (208/30A Outlet)	$	1900.00 (Paid from ARDC Grant)

   c. Equipment Donors:
      1. None

   d. Donated Equipment / Radios Received:
      1. None

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

7. **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 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**

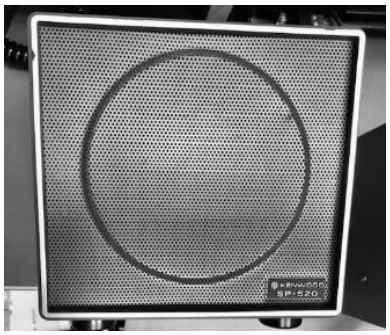
9. **W8UM Radio Repair & Restoration Group:**
   a. **Current Projects**;
      i. Weiser Hall: Hardline install (completed)
      ii. Install of 10M vertical (completed 11/2022)
      iii. Install of 220 & 440 MHz antennas (completed 12/2022)
      iv. EECS: Install of 208 /30A outlet (completed 12/2022)
      v. Testing of TenTec and Ameritron amplifiers to begin 12/06/2022

   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. **Items for Sale**: Suggested pricing;
    MC-50 mic ($35), **Crosley** Regenerative Receiver $50, **PV Scientific Ether-o-dyne** Crystal Radio Receiver $125, TS-520 Spkr $40, VFO $50, TS-520 Transceiver $100, Collins 75 A-4 $400 or Best Offers. Contact W8UMBoard@umich.edu











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MAKE AN OFFER on these! Pair,Ten-Tec HT's, Center Insulator kit, LDG 4:1 UNUN, knife switches, 5' copper ground rod (not pictured)











11. **December QST 2022 Field Day Results:** 199 Contacts

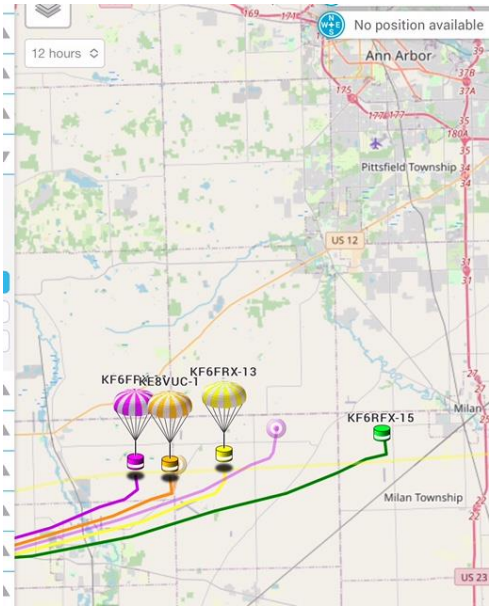
12. Any interest in forming a SDR Research Group?

13. **W8UM History Project:** The earliest lectures on Morse's Telegraph at the University of Michigan (1848). Attached

14. **High-Altitude Balloon Tracking Program**:

Radio Club of Redmond					
N7KE	209	2	12	1,084	WWA
Huron ARA					
WØNOZ	188	2	9	1,076	SD
Kamloops ARC					
VE7UT	198	2	17	1,074	BC
Univ. of Michigan ARC					
W8UM (+W8AXZ)					
	199	2	4	1,068	MI
Northern IL Quad Co. ARG					
K9T	102	2	10	1,026	IL

a. Aerospace HAB launch & tracking to occur during the final weeks of each semester. Contact W8UM for additional info. W8UM.APRS.Balloon.Tracking.Group@umich.edu
b. 12/01/2022 UM Aerospace Balloon Launch: Balloon (KE8VUC-1) landed near Albany, NY
c. 12/06/2022 UM Aerospace Balloon Launch: 5 Balloons launched from Sturgis, MI.
d. Ameritron selector box remains on back-order from R&L Elec. (12/2022)



15. **Amateur Radio Digital Communications Grant Update (ARDC)**;
    a Repairs to the 10M Cross-Band Repeater;
        i. Antenna building; 220, 440, 28 MHz antennas
        ii. 10M antenna installation completed (11/02/2022; Weiser Hall)
        iii. Hardline installation (11/2022; Weiser Hall completed)
        iv. 220 MHz & 440 MHz installation completed 12/02/2022); Weiser Hall)
        v. EECS Location: Combiner & 220MHz yagi on back-order (12/2022)

    b. 208 VAC / 30A Outlet installation for the Ameritron AL-82 / Ten-Tec Titan amplifiers
        i. Work Request submitted (10/05/2022)
        ii. Site review & estimate completed 10/18/2022; $2177.00
        iii. ECE request for funds submitted (10/28/2022)
        iv. Installation completed (12/02/2022)

    c. Digitizing historical articles relating to the development of wireless telegraphy at the Univ. of Michigan
        i. Not begun

    d. Improvements to the high-altitude balloon antenna array;
        i. Selector Box ordered (10/15/2022)
        ii. Box remains on back-order from R&L Elec. (12/2022

16. **Any Interest in Advising / Assisting in the Event?** Michigan Science Olympiad is a national competition on multiple science events, structured and scored very much like a track and field athletic competition. The tournament will bring exceptionally motivated high school students to our campus this February. The specific event is "WiFi Lab". The goal is for "Teams to construct an antenna device prior to the tournament that is designed to transmit/receive a signal at 2.4 GHz and complete a written test on the principles of electromagnetic wave propagation." Please contact W8UM at W8UMBoard@umich.edu

17. 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

18. **Shack Orientation & Access Key:**
    1. Jason DeBord

19. **W8UM / W8AXZ Invited Speakers for the 2022-2023 school year:**

		Past Speakers; 2021-2022
Sept.	Kaleo Roberts, KE8TBP	Fred Lloyd, AA7BQ
Oct.	John Ackermann, N8UR	Bob Heil, K9EID
Nov.	Kim Zwolshen & Kaleo Roberts	Kristen McIntyre, K6WX
Dec.	Tony Milluzzi, KD8RTT	ICOM Corp.
Jan.	Kristina Collins, KD8OXT	Bob Bruninga, WB4APR SK / Lynn Deffenbaugh

Feb.	Fred Lloyd, AA7BQ	Tony England, W0ORE
Mar.	TBA	University Lowbrow Astronomer Jeff Kopmanis

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

    11/20/2022 Pat Seitzer, WA4DSR
    11/27/2022 Stuart Carlson, W8SRC
    12/04/2022 Matt Undy, WS8U
    12/11/2022 Matt Undy, WS8U

21. **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.

22. **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.**

23. Attendance (November, 2022): Attendance: **17** ZOOM: 7 In-Person: 10 Students: 7

24. Open Discussions / Comments / Audience Announcements:

25. Monthly Presentation: Described Above.

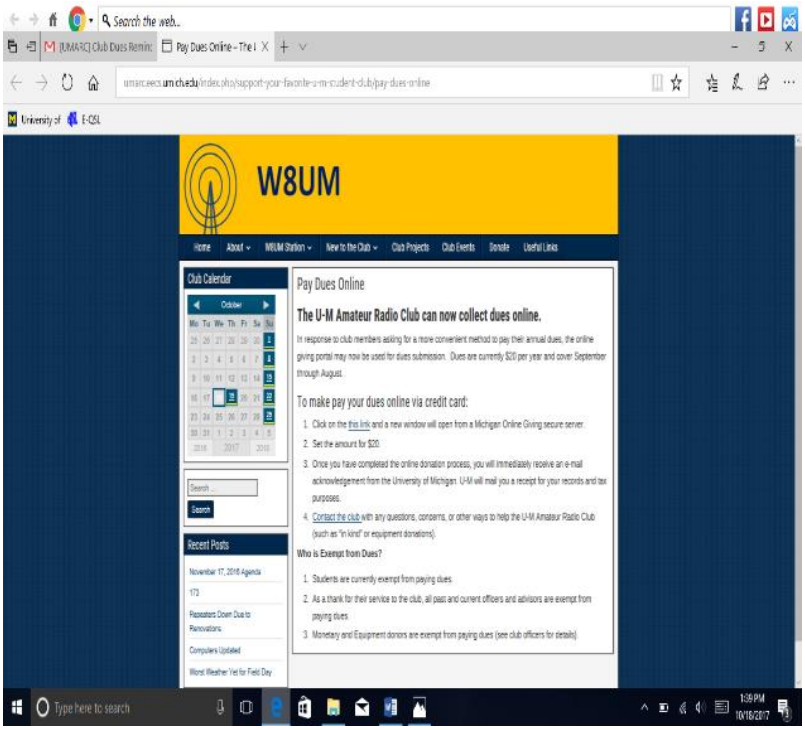
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W8UM President or Designee

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

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.

University of Michigan Amateur Radio Club: W8UM & W8AXZ

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.