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 Only**
January 20, 2022	Room 1303 EECS / ZOOM
February 17, 2022	Room 1303 EECS / ZOOM
March 17, 2022	Room 1303 EECS / 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** Meeting Agenda for:

Thursday, December 16, 2021

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

Visit W8UM on:
Facebook: https://facebook.com/groups/329930310446470
Website: https://umarc.eecs.umich.edu

Guest Speaker: ICOM Corporation; Will Jourdai

Topic: Inside Look at ICOM Operations in Japan

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

Treasurer's Report:

Balance (11/13/2021):	$	6808.98
Revenues (equip. sales):	$	0.00
Donations (Item 5a):	$	2.00
Expenses: (Item 5b):	$	133.59
Balance (12/13/2021):	$	6677.39

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)
Satellite:	Circular Polarized Yagi; 2M & 70cm
Field Day Use:	3-Element SteppIR & 3-Element Mosley w/ 40M
	Circular Polarized 2M & 70cm Satellite Yagis

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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 at the Washtenaw County Red Cross Bldg. 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. **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=**

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

   b. Club Purchases / Expenses: **$ 133.59**

1. Pizza / Beverages	$ 0.00
2. LNF Hazardous Gas Shutoff for Tower Climb	$ 133.59

   c. Equipment Donors:
      1. Faye Ogasawara

   d. Donated Equipment / Radios Received:
      1. QST Journals

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.** **UPDATE for 2021 FALL Semester**
   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.**
   - **Club Meetings will be "in-person" and on ZOOM**
   - **Shack Use: Masks must be worn when room is occupied.**
   - **Must download & complete the ResponsiBLUE Screening App and obtain a "Passed" for entry on campus. Additional info can be found on the Screening App**
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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. **Undergraduate Research Opportunities for UM Students:**

    1. **MIT Haystack Observatory:** **https://www.haystack.mit.edu/haystack-public-outreach/research-internships-for-undergraduates-reu/**

    2. **New Jersey Institute of Technology & Institute of Space Weather:** **https://sites.google.com/njit.edu/iswsreu/home**

10. **W8UM History Project**: Contributions of Five University of Michigan Law School Graduates Aided by the Telegraph **(Attached)**

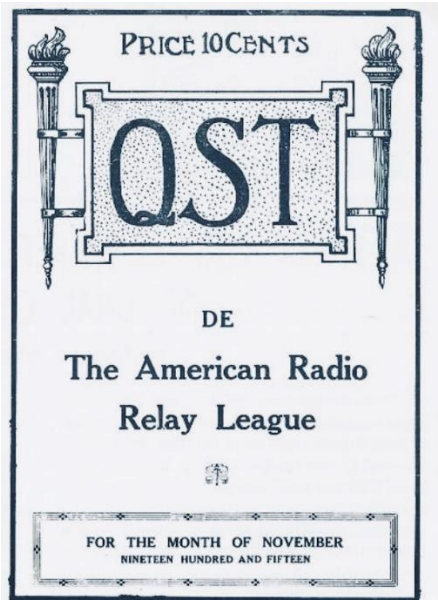
11. **Winter Field Day Participation Interest:** Winter Field Day is January 30-31, 2022. If interested in participating, please contact John W, WA8TON at jwasciuk@gmail.com

12. **Recognition & Awards**
    1. Don, AC8TO; Electrical Engineering & Computer Science Outstanding Achievement Award
    2. Kaleo, KE8TBP, Doctoral Student & W8UM V-President; American Indian Science & Engineering Society Scholarship

13. **AO-91 / SO-50 Satellites:** W8UM Members made 14 QSO's during November.

14. **W8UM Tower & SteppIR Update**: Insurance claim approved; #PC2020221201

15. **QST Journals**: QST was first published in November, 1915. Interruption in publishing QST occurred during WWI; 1917-1919. The W8UM collection of QST dates back to 1922.





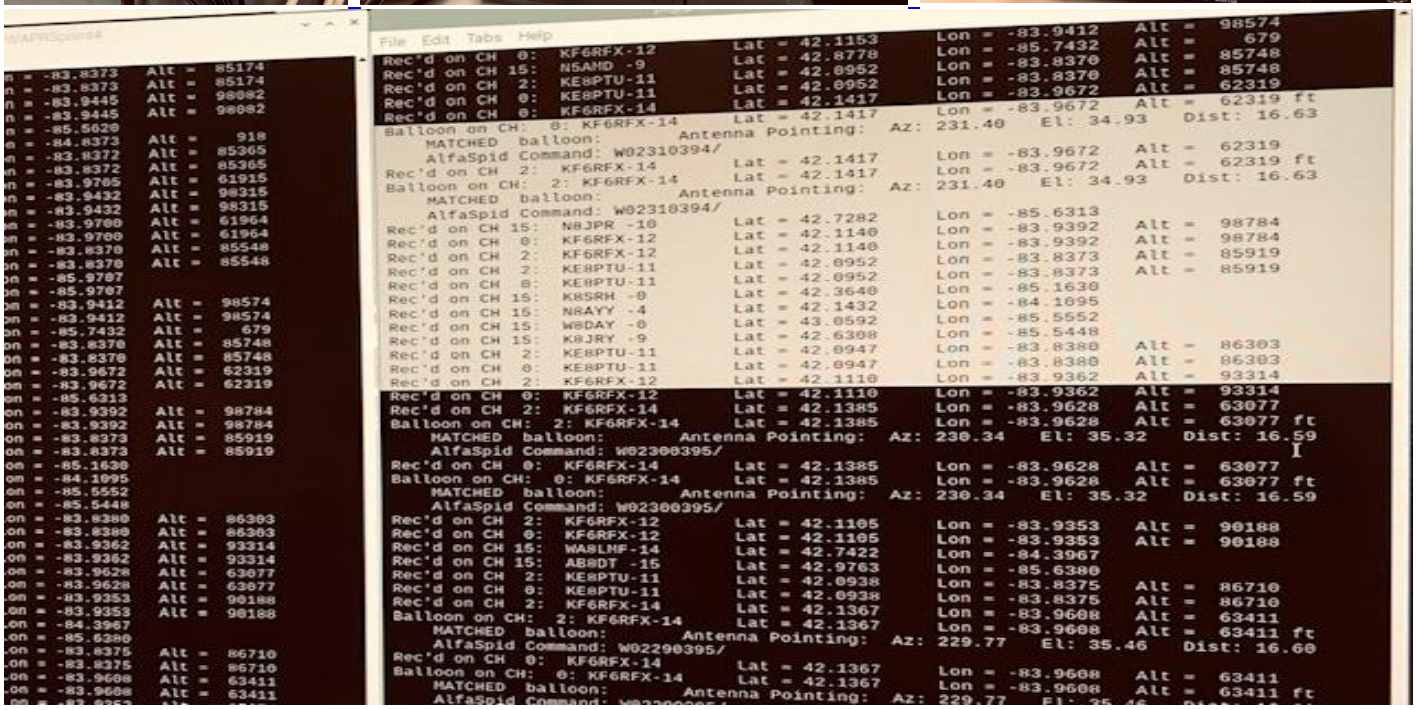
16. **W8UM Radio Restoration Group:**
    a. Restoration of the RME-69 Receiver is currently taking place.
        i. All bands were re-calibrated
        ii. BFO rebuilt & installed
        iii. Meter, glass and front panel installed (11/24/2021)
        iv. Next RRGroup Session: Align the RME-69 IF sections. This will complete the restoration. Next Project; Collins Receiver.
    b. Please contact W8UM.Radio.Restoration.Group@umich.edu for "exact" dates / times of future restoration meetings and projects.
    c. **Tube Testing Service will be available soon.** W8UM has both a Hickok & EICO tube testers available for use & over 1200 tubes available.

17. **High-Altitude Balloon Tracking Group:** Successful RF tracking of 5 MBuRST Balloons using the W8UM satellite antennas. Balloons simultaneously tx'd on 144.390 & 144.350. Data recorded included; alpha-spid controls, balloon azimuth, elevation, altitude & max altitude (burst).









18. **Case Western Reserve Univ.** / **W8EDU ARC** end-of-term poster session for student projects:

    a. **Coherent CW, Receiving** AD8Y, Olivia O'Brien, Carolina Whitaker, Ryan Marks: https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35698

    b. **WWVB Diagnostic** AD8Y, Michael O'Brien, Gabriel Foss, Evan Bender: https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35679

    b. **Low-Cost Hula Hoop Mag Loop Antenna for PSWS** (KD8OXT, AD8Y, N8OBJ, Bryanne Lewis): https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35686

    c. **Innovations in Bird Recording** (AD8Y, Colb Uhlemann, Arlo Petitjean, Tyler Young): https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35755

    d. **SNASH Audio Recorder** (KD8OXT, Daniel Warner, Zachary Kadish, Martin Bui) https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35722, project page at www.hamsci.org/snash

    e. **Balloonsat Comm Platform** (KD8OXT, Harrison Grubman, Brian Anderson, Maxwell Bauer) https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35707, **live at 1pm ET**

    f. **Eclipse Festival Data Analysis** (KD8OXT, Michael Ritchey, Rachel Hopey, Richard Chen): https://symposium.foragerone.com/intersections-source-symposium-fall-2021/presentations/35692

19. **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

20. **Shack Orientation & Access Key:** None this month

21. **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
Feb.	Tony England, W0ORE
Mar.	University Lowbrow Astronomer Jeff Kopmanis

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

11/28/2021	Matt Undy, WS8U
12/05/2021	Matt Undy, WS8U
12/12/2021	Matt Undy, WS8U

23. **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.

24. **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.**

25. Attendance (November, 2021): Attendance: 25 ZOOM: 16 In-Person: 9 Students: 7

26. Open Discussions / Comments / Audience Announcements:

27. Monthly Presentation: Described Above.

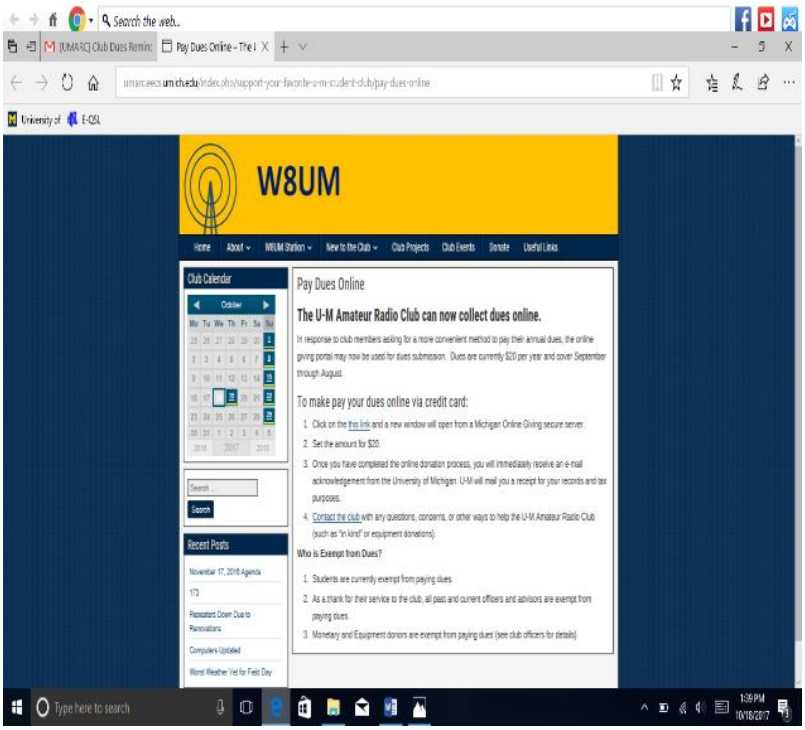
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W8UM ARC President or Designee

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

University of Michigan Amateur Radio Club: W8UM & W8AXZ



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

Engineering Campus Visitor & Employee Parking Lots

Hayward Street: Lot NC 20

FREE after 5 pm weekdays & weekends or anytime with a UM Parking Pass.

*** **Barrier Free Access** thru the DOW Bldg into the 3rd Floor EECS Bldg.

Hayward Street: Lot NC 48

FREE 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
*** NOT Barrier Free Access to EECS

Murfin Street / Walgreen Drama Center: Lot NC 27

FREE 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
*** **Barrier Free Access** thru the courtyard to the EECS Bldg.

Beal Street: Lot NC 60

FREE after 5 pm weekdays & weekends or anytime with UM Parking Pass (GATED LOT).
*** **Barrier Free Access** along the East Side of EECS Bldg.