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: Amir Mortazawi, PhD., 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, January TBD, 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, October 26, 2023

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

Room 1012 EECS Bldg.

PIZZA will be provided!



September, 2023 Meeting

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

University of Michigan Amateur Radio Club: W8UM & W8AXZ

Club Announcements & Planned Activities: Maggie Li & Mick Gordinier.

Guest Speaker 1: **Michael Fleugemann,** KE8AQW, Past W8UM President & W8AXZ Trustee

Topic: Jamboree On The Air

Bio: Michael is an antenna engineer at Ford Motor Company and President of the Ford Amateur Radio League, K8UTT. He served as president of the W8UM Club in 2020 while earning a Master's at the University of Michigan - Dearborn. Michael is also an Eagle Scout and involved as a scout volunteer. His presentation will cover some of his adventures with the scouts and the recent Jamboree on the Air event from October 21, 2023.

Guest Speaker 2: **Chris Codella**, Ph.D., W2PA. W8UM Alum, IBM Research, NY

Topic: Hams in the Great War

Bio: Chris was first licensed in 1969, and operated from W8UM in the late 1970s while in grad school. He is active mostly on HF and enjoys chasing DX, dabbling in contests, software defined radio, restoring classic equipment, and chatting with friends, old and new, on the bands. Chris has earned 5BDXCC, DXCC Challenge, WAZ, 5BWAS, and A-1 Operator Club. He holds a Ph.D. in electrical engineering and has had a four-decade career in computer engineering and technical management. You can find more details plus articles about ham radio history and other topics on his web sites: http://w2pa.net/HRH/ and https://www.w2pa.com/

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

Treasurer's Report:

Balance (09/05/2023):	$	11068.04
Revenues (equip. sales):	$	0.00
Donations (Item 5a):	$	115.00
Less Expenses: (Item 5b):	$	476.32
Balance (10/05/2023):	$	10606.72

W8UM Repeaters

Weiser Hall: 145.230 MHz w/ EchoLink
29.640 MHz (in-progress)
444.075 MHz PL 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 Cams: operational
Amplifiers: Ameritron AL-82 / ACOM 2000A / SB-220
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
HAB Program: 137 MHz / 440 MHZ Antenna Array
UM Biological Station: (Pellston, MI.): 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. **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 Contributions / Financial Support Received:
      1. Jason DeBord
      2. Anonymous Donor

b. Club Purchases / Expenses: **$ 476.32 10/06/2023**

1. Pizza / Beverages $ 122.75
2. Festifall / WinterFest Registration $ 30.00
3. Travel Reimbursement $ 323.57

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 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:

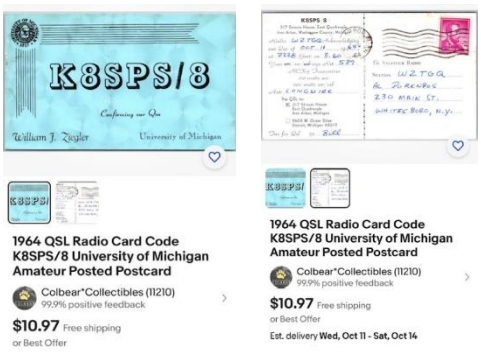
a. **Current Projects**;

1. W8UM Repair article appears in the October, 2023 issue of QST
2. Next Projects: 1. Two-Fer FM transceiver

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

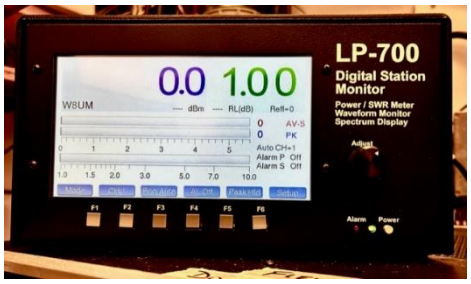
13. **Another Dormitory Station** has been identified; K8SPS.
Station was located in the Strauss House, East Quad, 1964. QSL card found on eBay



14. **MOTUS** Antenna Site: Aviary tracking antennas now receiving data (Ann Arbor; 10/2023)



15. New Equipment Additions to W8UM Shack (Sept, 2023): LP-700 & ACOM 2000A





16. UM Biological Station, Pellston, MI.: W8UM is in progress of establishing a remote station at this northern Michigan research location.

17. **Available Shack Items List:** Contact W8UM for info.

a. Regency UHF Repeater

b. Data transfer switch
c. Radio Shack 3A/13.8 vdc pwr supply (new)
d. Fluke digital multimeter
e. VANCU Coax switch
f. Yaesu FT 23R 2M HT
g. LDG 200w RU 4:1 UNUN
h. Radio Shack scanner antenna
i. Desk Lamp
j. TenTec Model 234 Speech Processor
k. **TenTec Omni VI HF Transceiver w/ mic**
l. **Mosley TA-33 Yagi; 10-20M**
m. Mirage 2M amplifier
n. Vintage knobs, tubes
o. Insulators; plastic and ceramic
p. Motorola speaker
q. Copper tube
r. Discone (some broken radials)

Heathkit TC-3 Tube Checker
Heathkit HM-102 SWR/PWR Meter
Heathkit SB-600 Pwr Supply / Spkr
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

Vert antenna Tilt-Over bracket (x2)
Tilt-Over vert mast clamp
HTDX10- RadioShack 10M transceiver
Copper ground rod (approx. 4')

Yaesu FT-1000D 200w HF transceiver

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

19. **Amateur Radio Digital Communications Grant Update (ARDC)**;
    a Repairs to the 10M Cross-Band Repeater;
        i. Repairs to the 220 MHZ cross-link radios (Completed; 9/2023)
        ii. Receive Site installation (Completed; 10/2023)
        iii. Transmit Site Work Continues 10/2023

b. 208 VAC / 30A Outlet installation for Ameritron AL-82 / Ten-Tec Titan amplifiers
Project Completed; 12/08/2022

c. Digitizing historical articles relating to the development of wireless telegraphy at the Univ. of Michigan
Project Completed; 2/21/2023. Approximately 7,000 pages scanned.

d. Improvements to the high-altitude balloon antenna array;
Project Completed; 05/17/2023

Thanks to all that assisted in completing these projects: KB5AW, KE8SWM, KB8OIS, N4IYL, K8EV, KB8RCO, KE8AQW, KN6SXI, KE8TBP, KE8VWA, KI5YMO, AC8TO, KE8NCB, WD8DPA, W2PUT. Apologies if your call was omitted.

20. 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 (October, 2023):

1. Mariah Fiumara
2. Peter Crary
3. Ryan Kaelle

21. 1-Day Tech Class: 10/2023; 15/17 obtained their Technician's License. Next Class Nov. 19, 2023?

22. W8UM Sunday Night Net; Control Ops:

09/24/2023 Pat Seitzer, WA4DSR
10/08/2023 Pat Seitzer, WA4DSR
10/15/2023 Pat Seitzer, WA4DSR

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 (September, 2023): Attendance: **52** ZOOM: 18 In-Person: 34

26. Open Discussions / Comments / Audience Announcements:

27. Monthly Presentation: Described Above.

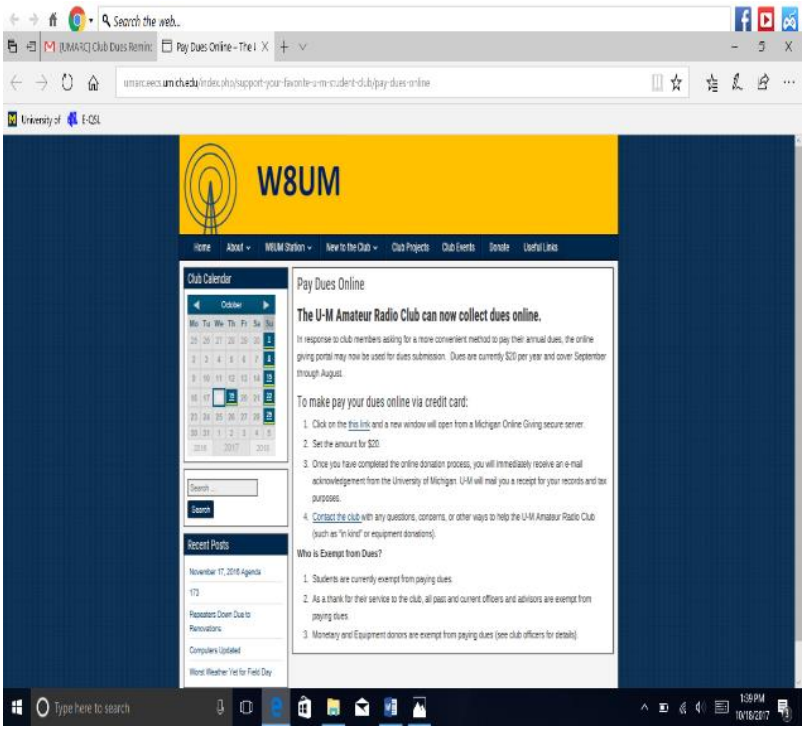
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W8UM President or Designee

University of Michigan Amateur Radio Club: W8UM & W8AXZ

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/



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; 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

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*** **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.