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 Only
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 ONLY** Meeting Agenda for:
Thursday, February 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

Visit W8UM on:
Facebook: https://facebook.com/groups/329930310446470
Website: https://umarc.eecs.umich.edu
QRZ.com: W8UM
QRZ.com: W8AXZ

Guest Speaker: Dr. Tony England, W0ORE. Emeritus Dean College of Engineering & NASA Astronaut

Anthony W. England Wiki Link: https://en.wikipedia.org/wiki/Anthony_W._England

Topic: Taking an amateur radio on-board a NASA Shuttle

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

Treasurer's Report:

Balance (01/13/2021):	$	7269.39
Revenues (equip. sales):	$	0.00
Donations (Item 5a):	$	2.00
Less Expenses: (Item 5b):	$	0.00
Balance (02/13/2022):	$	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. Mitch Kuch
      2.

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

1.	Pizza / Beverages	$ 0.00
2.	WinterFest Registration	$ 0.00
3.	Palstar HF Auto-Tuner (pending)	
4.	SteppIR Urban-Beam 6-40M Antenna *Insurance Claim, 12/2021	$ 3310.00 *
5.	Palstar HF Auto-Tuner *Insurance Claim, 12/2021	$ 1523.98 *

   c. Equipment Donors:
      1.

   d. Donated Equipment / Radios Received:
      1. (Photograph received): Irv Hoff's Plaque of the U.S. First Satellite, Explorer I, discovered at his past-residence in Ann Arbor. Hoff was considered the "Father of the Radioteletype" and was a club participant. Some of Hoff's contributions are summarized in the attached W8UM History Project article.
         Explorer I Video Link:
         https://www.youtube.com/watch?v=WT39gTs9X7k



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 2022 WINTER 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**
   - **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**

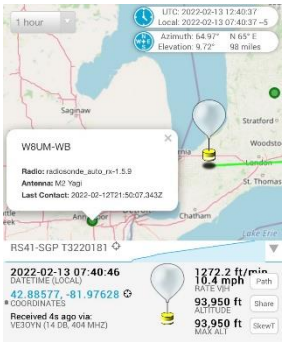
9. **W8UM Tower & SteppIR / Antenna Update:** Decision made to purchase the SteppIR Urban Beam 6-40M antenna & Palstar Auto-Tuner

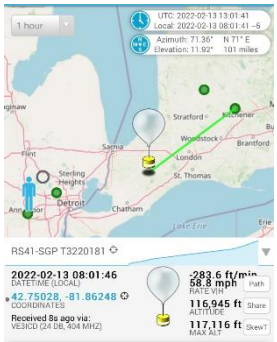
10. * Bob Bruninga, WB4APR SK. Bob had been scheduled to speak to W8UM. Link: http://www.arrl.org/news/aprs-developer-bob-bruninga-wb4apr-sk

11. **W8UM Radio Restoration Group:**
   a. Restoration of the RME-69 Receiver; Repairs Completed 12/17/2021. Article submitted to ARRL for publication; 12/2021.
   b. **Next Project**, Collins KWM2; spurious oscillations in the IF / RF stages
   c. Please contact W8UM.Radio.Restoration.Group@umich.edu for "exact" dates / times of future restoration meetings and projects.
   d. W8UM has both a Hickok & EICO tube testers available for use & over 1200 tubes, assorted radio knobs & capacitors available.

12. **W8UM History Project:**
   a. Contributors and Their Contributions to Telegraphy at the University of Michigan: Tappan & Gerrish (attached)
   b. The First Marriage Proposal Using Morse Code; published in the February, 2022 issue of CQ Amateur Radio Magazine

13. **High-Altitude Balloon Tracking**: W8UM is in the initial stages of tracking NWS Radiosondes launched from the NWS in White Lake.







Monthly Zoom Meeting for Collegiate Clubs Offers a Variety of Topics

Each month, ARRL hosts a Zoom meeting with student representatives and advisors from the large community of college radio clubs. The group met on January 11, led by ARRL Collegiate Amateur Radio Advisors Tony Milluzzi, KD8RTT, and Andy Milluzzi, KK4LWR. Among the schools represented were College of DuPage, University of Arizona, University of Florida, The Ohio State University, Temple, Cal Poly, University of Michigan, Penn State, Texas A&M, and others.

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14. **Collegiate Amateur Radio Initiative (CARI)**: W8UM recognized for their monthly participation in these meetings. UMich Members / Students are encouraged to participate in these monthly meetings.

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

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

17. **Livonia ARC Swap: SUNDAY**, February 26,2022. **NEW LOCATION: VFW Post 345, 27345 Schoolcraft Road, Redford, MI. Tables $20 Gen Admission $5**

18. **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

19. **Shack Orientation & Access Key:**
    1. Jamie Zhou

ARRL Foundation to Create Club Grants Program

01/13/2022

A new ARRL Foundation Club Grants program, funded by a grant from Amateur Radio Digital Communications (ARDC), will make $500,000 available to radio clubs. The program will provide up to $25,000 for worthy club projects. Requests for more than that will be referred back to ARDC.

20. **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

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

01/23/2022	Pat Seitzer, WA4DSR
01/30/2022	Pat Seitzer, WA4DSR
02/06/2022	Pat Seitzer, WA4DSR
02/13/2022	Pat Seitzer, WA4DSR

22. **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.

23. **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.



nshot

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.**

24. Attendance (January, 2022): Attendance: 21 ZOOM: 21 In-Person: 0 Students: 5

25. Open Discussions / Comments / Audience Announcements:

26. Monthly Presentation: Described Above.

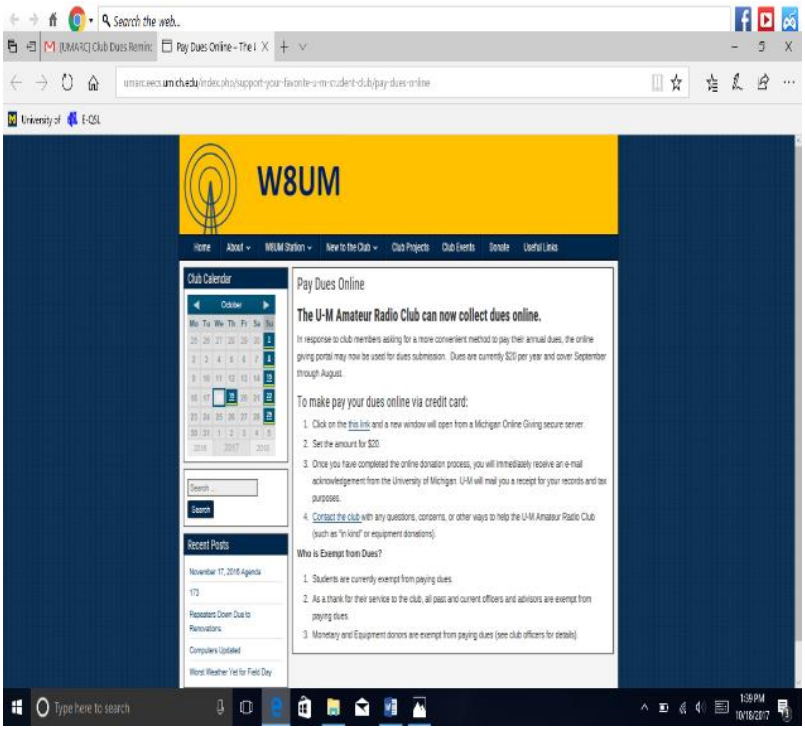
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W8UM ARC President or Designee

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



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

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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.