University of Michigan Amateur Radio Club

W8UM Student Officers; 2019 - 2020

President:	Kit Ng	N9KIT
V-President:	Reid DesErmia	K8QP
Secretary:	Joshua Burg	KD9LRC
Repeaters:	Stuart Carlson	W8SRC
Website:	**Vacant**	
Social Media:	**Vacant**	

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

W8UM Meeting Dates

September 08, 2019	Student Open House: W8UM
September 20, 2019	EECS Room 1303
October 17, 2019	EECS Room 1005
November 21, 2019	EECS Room 1003
December 19, 2019	**No Scheduled Mtg., Exam Week**
January 23, 2020	EECS Room 1005
February 20, 2020	EECS Room 3427 (Solicit Nominees)
March 19, 2020	EECS Room 1005 (Club Elections)
April 16, 2020	EECS Room 1005
May – August	**Summer Break – No Mtgs.**

W8UM Club Events & Dates

Northfest	Monday, September 2, 2019 (Pierpont; 11-2pm)
Festifall	Friday, September 6, 2019 (Central; 2-6 pm)
ECE Open House	Monday, September 23, 2019 (5-7:30 pm)
KB6NU 1-Day Class	Saturday, September 28, 2019 Room 1303 EECS
ARRL School Club	Week of October 21-25, 2019
ARRL CW Sweeps	November 2-4, 2019
ARRL Phone Sweeps	November 16-18, 2019
KB6NU 1-Day Class	Saturday, February 25, 2020 (1311 EECS)
NA QSO Party (CW)	January 12-13, 2020. 2nd Full wknd in January
NA QSO Party (SSB)	January 19-20, 2020. 3rd Full wknd in January
Winter Field Day	Last Weekend in January 25-26, 2020
ARRL School Club	Week of Feb 11-15, 2020
Mi QSO Party	April 18, 2020
Ann Arbor City Mar.	May 20, 2020
ARRL Field Day	Saturday, June 29-30, 2020
One Helluva Ride	Saturday, July 14, 2020

W8UM Sunday Night Net (8 pm Ann Arbor time): 145.23 MHz, PL 100 Hz (-.600 MHz) or via EchoLink Node 301158 (W8UM-R)

W8UM Amateur Radio Club Meeting Agenda for **Thursday, January 23, 2020**

Time / Location: 6:30 pm. **Room 1005 EECS Bldg**., 1301 Beal Ave.

Meetings Are Always Open to All Interested

***** Room Located off the Main Hallway *****

Presenter: Aaron Ridley, Ph.D., KD8CJT
Professor of Climate & Space Sciences & Engineering, College of Engineering

Title: Adventures in Ballooning at the University of Michigan

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

Treasurer's Report:

Balance (11/15/2019):	$	4613.81
Revenues (equip. sales):	$	13.50
Donations (Item 5a):	$	554.00
Expenses: (Item 5b):	$	0.00
Balance (01/15/2020):	$	5181.81

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, G5RV (6-80M)
Verticals:	10-20M, 10-40M, 2M (APRS)
Satellite:	Circular Polarized Yagi; 2M & 70cm
EECS Storage:	3-Element SteppIR, Circ Polarized 2M & 70cm Yagi
Tower Cam:	EECS Tower Cams: operational
Trailer Tower:	available for use w/ 3-L SteppIR, Controller & Rotor
Weiser Hall:	145.23 repeater w/ EchoLink operational.900 MHZ offair
Mich. Union Satellite:	Tower removed August, 2018
Contacts:	QSO's (Nov-Dec) 79
	QSO's (2019) 3639 (2018): 3125
	(2019): 3639

4. Prior Business / News:
   a. ARRL Test Sessions; 2nd Saturday of each month at the Washtenaw County Red Cross Bldg. Contact ARROW
   b. Volunteers wanted for positions at W8UM: Website, Social Media…
   c. Open Shack Nights / SWL Open House: anyone interest in leading / organizing / scheduling?

University of Michigan Amateur Radio Club

5. Contributions / Expenses / Donations:
   a. Generous Monetary Contributions / Financial Support Received:
      1. Mitch Kuch
      2. Tom Giola
      3. Don Winsor
      4. Jan Arcuri-Otis
      5. Amir Mortizawi

   b. Club Purchases / Expenses: $0.00
      1. Pizza / Beverages ($ 0.00)
      2. None

   c. Equipment Donations Received:
      1. None

6. **Support W8UM 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. ARRL Scholarships available to Students: **Application Deadline is January 30, of each year.**

8. ARRL Winter Field Day: Saturday, January 25-26, 2020
   a. ARROW: Brighton State Recreational Area
   b. W8UM: Shack, Room 4436, **Operating 1-2H**

9. Livonia Swap - **Cancelled for February, 2020**

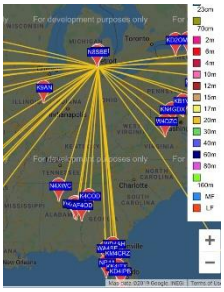


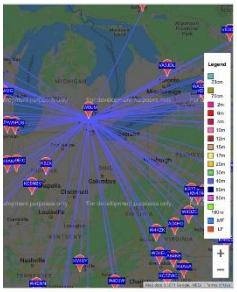
10. W8UM Restoration Group: (12-10-2019 Session):
    a. Heathkit SB-200 restoration completed; output 620W. Work included; power supply replaced, soft-start added, matched pair 572B's.
    b. Swan Wattmeter repaired; IC & capacitors replaced.
    c. Testing of a Drake 1-A Receiver completed (photo)
    d. 12-23-1019 Session: Repairs began on the Collins KWM 2A Transceiver
    e. 01-15-2020 Session: Collins KWM-2A calibration started
    f. **Next Repair Session:** Tuesday, January 28, 2020 @ 5pm, Room 4436 EECS
    g. If interested in observing or participating in any of these repair sessions, please contact W8UMRadioRestorationGroup@umich.edu for "exact" dates / times.

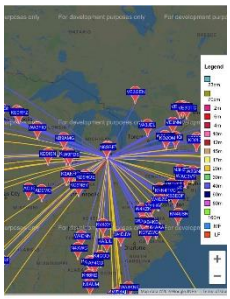
11. W8UM History Project: Dr. Belknap video showing the UM wireless station used during the 1926 Hobbs Expedition to Greenland. Video (at about 3 min 45 sec): https://bentley.mivideo.it.umich.edu/media/1_97jnbxsd John, KB8OIS

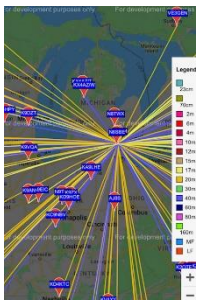
12. Peach Mountain Observatory Restoration: update / interest list created

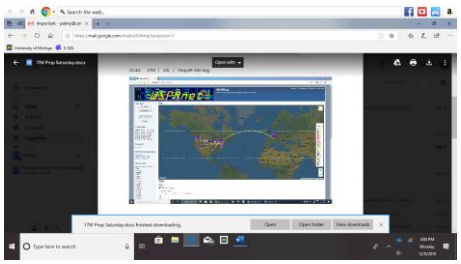
13. WSPR Beacon Propagation (12-7-2019): N.B. Raspberry Pi-3, antennas used included; SteppIR at 4 compass points, G5RV, 10-20 vert and 10-40 vertical. Do these plots represent a problem of no reception vs. no propagation towards Northern Michigan? W8UM Beacon is active on 10-40M. W8UM beacons can be viewed via WSJT-X or WSPRnet.org under "MAP".


20M: 24-hr plot


40M: 24-hr plot


17-40M: 24-hr plot


17-40M: 24-hr plot


17M / 1W / SteppIR 360 deg.

```
TX started at: UTC 2020-01-16 02:02:01.003
TX ended at:   UTC 2020-01-16 02:03:51.686 (110.683 s)
esired center frequency for WSPR transmission: 28.126023 MHz
 Waiting for next WSPR transmission window...
TX started at: UTC 2020-01-16 02:04:01.004
TX ended at:   UTC 2020-01-16 02:05:51.676 (110.672 s)
esired center frequency for WSPR transmission: 14.097139 MHz
 Waiting for next WSPR transmission window...
TX started at: UTC 2020-01-16 02:06:01.003
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Beacon TX; 14.097139 MHz



Signal Analysis; 14.097138 MHz

14. Ford Motor Company Distinguished Lecture in Physics: Speaker; Dr. Philip Bucksbaum, WA0SOH
    Wednesday, February 12, 2020 at 4 p.m. Rackham Amphitheatre

15. KB6NU 1-Day Tech Class: Scheduled for January 25, 2020. **Room 1311 EECS**

16. **W8UM Student Officers Elections**: Any students interested in a Club Officer position should submit their names before February 10, 2020. Please contact W8UMBoard@umich.edu or Kit (N9KIT) kitn@umich.edu with any questions.

17. Tower Cam: A second W8UM Tower Cam has been installed on the EECS roof. Don, AC8TO

18. Hughes Research Labs Employment: past-W8UM President, Rex Brown, is recruiting for HRL. Contact via www.hrl.com or directly to Rex at rabrown@hrl.com

19. SDR Purchase: Consideration towards purchasing a SDR; HackRF / Red Pitaya / Flex / STEM Lab 125 / Other?

20. Station Tour / Equipment Orientation (Nov/Dec):
    a. Michael Burton

21. W8UM Sunday Night Net; Control Ops:

12/29/2019	Dan Romanchik, KB6NU
01/05/2020	Don Winsor, AC8TO
01/12/2020	Lorenzo Biundo, KE8NKZ
01/19/2020	

22. Local Club Announcements:
    - **a.** Livonia (K8UNS): **Livonia Swap CANCELLED for 2020 *********
    - b. MSU (W8SH): None
    - c. ARROW (W8RP): Winter Field Day, Brighton State Recreational Area
    - d. Chelsea (WD8IEL): None

22. 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

23. Members / Alumni: If you plan to visit Ann Arbor this Fall and would like to tour or operate from W8UM please contact W8UM at W8UMBoard@umich.edu to arrange.

24. Local Hamfest Schedule

a.	Livonia ARC:	**CANCELLED**		
b.	GMARC Tech Expo	Madison Hgts.	April 11, 2020	Saturday
c.	Michigan Crossroads	Kalamazoo	April 20, 2020	Sunday
d.	Perrysburg, OH.	Owen Comm. College	Mar. XX, 2020	
e.	Dayton Hamvention	Xenia, OH.	May XX, 2020	
f.	Chelsea Swap	Chelsea	June XX, 2020	
g.	Adrian Hamfest	Adrian	Sept. 15, 2019	
h.	USECA Hamfest	Madison Hgts.	Oct. 27, 2019	

25. **UMARC Sunday Night Net 8pm local time**: if outside of Ann Arbor, sign-on to EchoLink using the Android, i-Phone or computer apps.



Download the FREE EchoLink app to connect to the W8UM repeater.

1. Download the app
2. Call-sign verification may take minutes to several days
3. Search for W8UM and save to Favorites
4. Press Connect
5. Tap Transmit, on your iphone/android, to talk & Tap the screen to stop TX
6. Disconnect from the W8UM Repeater by tapping END

Follow the same process to connect to repeaters throughout the world.

iPhone screenshot

26. Attendance (Nov. 2019): Attendance: 20 Students: 7 Alumni: 4 Faculty/Staff: 6 Non-UM:

27. Open Discussions / Comments / Audience Announcements:

28. Monthly Presentation: Described Above.

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W8UM ARC President or Designee



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

University of Michigan Amateur Radio Club

W8UM Meeting Location: Electrical Engineering & Computer Science Building, Room 1005

Address: 1301 Beal Ave.

ZIP: 48109

Parking: Hayward Lot (NC48)

NC 48: Hayward Street Lot: FREE after 5 pm weekdays & weekends or anytime with a UM Parking Pass.
Before 5pm, M-F, parking is $1.60 / hour (coin or credit card)
*** NOT Barrier Free Access to EECS

Parking: Beal Lot (NC60)

NC 60: Beal Street Lot: FREE after 5 pm weekdays & weekends or anytime with UM Parking Pass (GATED LOT).
*** Not a Pay Lot ***
*** **Barrier Free Access** along the East Side of EECS Bldg.



EECS Bldg., view from the courtyard plaza