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	**Chrysler Center** (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, January 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

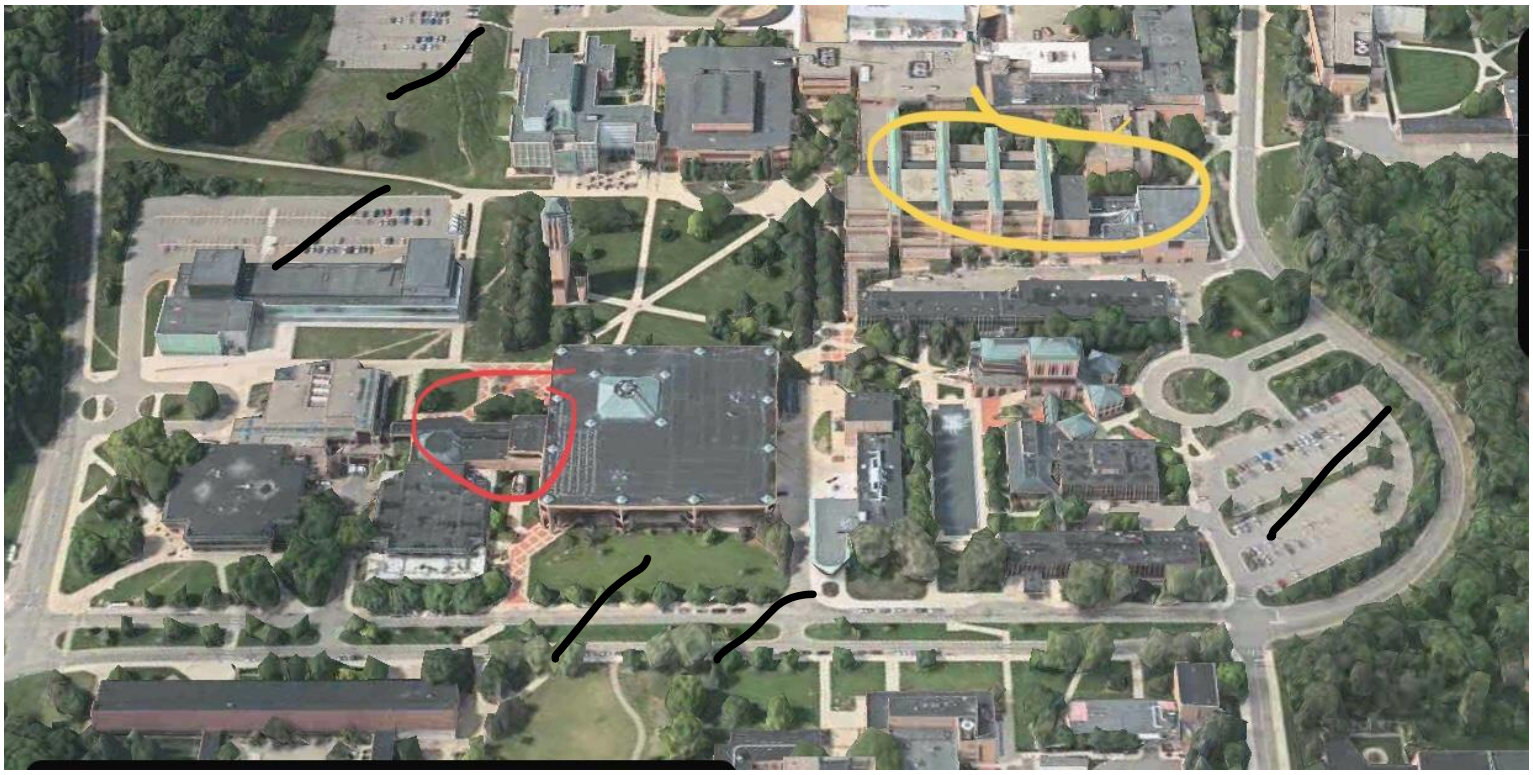
W8UM Sunday Night Net (8 pm Ann Arbor time): 145.23 MHz, PL 100 Hz (-.600 MHz) or via EchoLink Node 301158 (W8UM-R)

W8UM Amateur Radio Club Meeting Agenda for **Thursday, February 20, 2020**

Time / Location: 6:30 pm. **Room 151 Chrysler Center Building**, 1301 Beal Ave.

***** W8UM SIGNS WILL BE POSTED *****

***** Change in Meeting Location to: CHRYSLER CENTER Bldg.



** Street Parking may be available on Bonisteel Avenue or park in your usual location and walk across the Engineering Courtyard to the Chrysler Center. The Chrysler Center (RED) is within the Duderstadt Engineering Complex directly adjacent to W8UM/EECS (YELLOW). Black Lines represent free campus parking (after 5pm).

University of Michigan Amateur Radio Club





Room Location: Chrysler Center is listed on display signs within the Duderstadt Building Complex. Some signs (circled in Red) will be Large & some Small. Look for the the "Glass Showcase Room" (glass windows and double glass doors) and take the hallway to the rear.

Presenter: Kirk Lawrence, AB8BC
Senior Television Engineer, College of Engineering

Title: College of Engineering 7-Meter Scientific Atlanta KuBand Broadcast Satellite Antenna: history & functional operation



University of Michigan Amateur Radio Club

2nd Presenter: Joseph Burkhead, KE8MKR

Topic: Amateur Radio Direction Finding; Brief presentation on the planned Fox Hunt

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

Treasurer's Report:

Balance (01/15/2020):	$	5181.31
Revenues (equip. sales):	$	179.25
Donations (Item 5a):	$	112.00
Expenses: (Item 5b):	$	352.74
Balance (02/15/2020):	$	5119.82

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 (Jan) 346
	QSO's (2020) 346 (2018): 3125
	(2019): 3639

4. Prior Business / News:
   1. ARRL Test Sessions; 2nd Saturday of each month at the Washtenaw County Red Cross Bldg. Contact ARROW,
   2. Volunteers wanted for positions at W8UM: Website, Social Media…
   3. Open Shack Nights / SWL Open House: anyone interest in leading / organizing / scheduling?
   4. ARRL Scholarships available to Students: **Application Deadline is January 30, of each year.**
   5. Peach Mountain Observatory Restoration: update / interest list created
   6. SDR Purchase: Consideration towards purchasing a SDR; HackRF / Red Pitaya / Flex / other?

5. Contributions / Expenses / Donations:
   1. Generous Monetary Contributions / Financial Support Received:
      1. Larry Rogers
      2. Roger Shultz
      3. Ovide Pomerleau
      4. Mitch Kuch
      5. Mark Mokris

   2. Club Purchases / Expenses: **$352.74**

1.	Pizza / Beverages	$ 79.92
2.	Collins capacitor replacement kits (x2)	$ 129.28
3.	Collins S-Line crystals; 8-13 MHz (x9)	$ 140.84
4.	Misc. small parts	$ 2.70

   3. Equipment Donations Received:
      1. Naomi & Tony Shaberman '94 EE Alum (Marc Shaberman, KN8V / SK)

   4. Equipment Received:

Ten-Tec Omni VI Transceiver (s/n 11A10355)
B&K Precision Model 1431 Scope
MFJ-993 IntelliTuner
Shure Mic 526T
MFJ-260 300W Dummy Load
MorseMatic keyer

Tripp Lite PR-40 Power Supply
MFJ-5124 Radio Interface
Ten-Tec Mic
Syncron MB+5 RB Mic
Autek Research RF-1 RF Analyst
Oakhill OHR100A QRP (7MHz)

Daiwa Meter CN-520
TruckSpec TS1375 Power Meter
Denten Jr Monitor
Bencher Key
MFJ 1702B A/B Antenna Switch
Straight Key

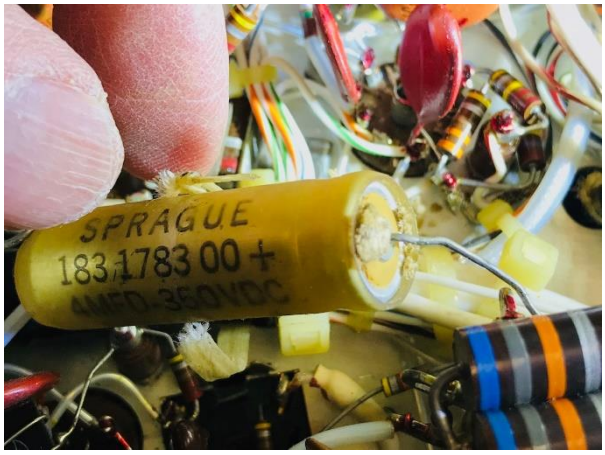
MFJ-202B RF Noise Bridge
MFJ MFJ-200BX Frequency Standard
DJG-K5 PLA Chinese Military Key
Daiwa CN-520 meter
Heathkit Microphone
Iambic Keyer

6. **Support W8UM Activities**: Food, Radio Repairs, Upgrades, Purchases, Tower & Antenna Maintenance
   Financial Support / Donations Accepted from all individuals with an amateur radio call sign. Students and others 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 Winter Field Day: Operating 2H; 305 contacts made including W8RP. Ops: Michael KE8AQW & John KB8OIS

8. Emergency Operations Center VHF Simplex Event: Saturday, January 25, 2020. W8UM unable to contact EOC in Diamondale, MI via VHF.

9. W8UM Radio Restoration Group:
   1. 01/28/2020: Replaced capacitors & new cyrstals inserted the Collins KWM-2 Transceiver. (Photo Right: leaking capacitor)
   2. 01/30/2020: Replaced capacitors in the second Collins Transceiver, KWM-2A Transceiver.
   3. 02/04/2020: Calibration of both the Collins KWM-2 & KWM-2A.
   4. 02/11/2020: Continuation on the Collins calibration. Service Bulletin 5 installed. Completing Step 4.5.1.7; Driver Neutralizing
      Next 02/18/2020: Step 4.5.1.8; Feedback Neutralizing
   5. Please contact W8UM.Radio.Restoration.Group@umich.edu for "exact" dates / times of future restoration dates.



10. Changes at W8UM: Pictures showning the changes at W8UM from 2003 to 01/2020.



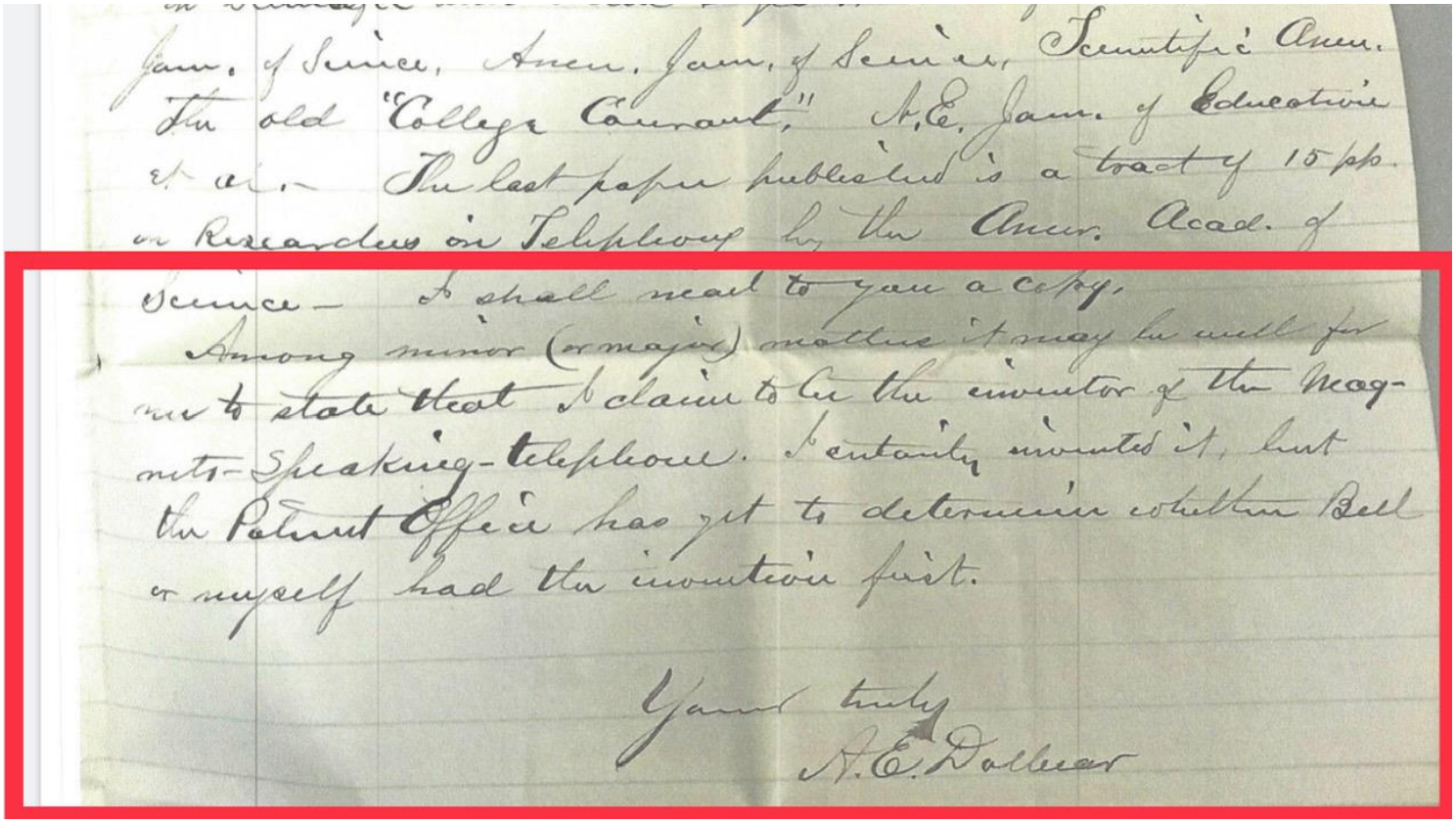
W8UM: 2003


W8UM: 2013



W8UM / W8AXZ: 01/2020

11. **W8UM History Project:** Amos Emerson Dolbear, "Inventor of wireless telegraphy" received both his Masters (1866) and Ph.D. (1877) from the University of Michigan. Dolbear sold his telegraph invention to Marconi and later lost his patent dispute, for the telephone, to Alexander G. Bell. Below is a writing from Dolbear to the University, where Dolbears says "… Among minor (or major) matters it may be well for me to state that I claim to be the inventor of the Magneto-Speaking Telephone. I certainly invented it, but the Patent Office has yet to determine whether Bell or myself had the invention first". Yours truly, A. E. Dolbear. Letter Dated January 15, 1879. John, KB8OIS



Jour. of Science, Amer. Jour. of Science, Scientific Amer.
the old "College Courant," N.E. Jour. of Education
& c. The last paper published is a tract of 15 pp.
on Researches on Telephony by the Amer. Acad. of
Science — I shall send to you a copy.
Among minor (or major) matters it may be well for
me to state that I claim to be the inventor of the Mag-
neto-Speaking-telephone. I certainly invented it, but
the Patent Office has yet to determine whether Bell
or myself had the invention first.

Yours truly
A. E. Dolbear

University of Michigan Amateur Radio Club

12. North American Collegiate Contest: 2019 3rd Place Award received (Photo)



13. KB6NU1-Day Tech Class: 20/23 Passed. ALL UMich Students Passed.

14. Trine University ARC scheduled visit to W8UM: Trine visit scheduled for Friday, 02/28/2020

15. **W8UM Student Officers Elections**: Any students interested in a Club Officer Position? Club Elections occur during the **March 19, 2020 Meeting.**

16. ARRL Great Lakes Division Conferrence: Saturday, March 14-15, 2020. Speakers include Bob Heil (K9EID) & Rick Roderick (K5UR) ARRL President. Saturday, March 14, 2020, Owens Comm. Major) College, Toledo. http://www.toledoglc.org

17. Station Tour / Equipment Orientation (Jan/Feb):
    1. Tony Shaberman (Donor)

18. W8UM Sunday Night Net; Control Ops:

01/26/2020	Pat Seitzer, WA4DSR
02/02/2020	Matt Undy, WS8U
02/09/2020	Dan Romanchik, KB6NU
02/16/2020	

19. Local Club Announcements:
    1. **Livonia (K8UNS):** Next Livonia ARC Mtg 02/24/2020 Livonia Civic Center
       Wayne County Skywarn Class / Certification: 03/17/2020, 7pm Livonia Civic Center
       Newsletter available on-line at http://livoniaarc.com
    2. MSU (W8SH): None
    3. ARROW (W8RP): Winter Field Day.
    4. Chelsea (WD8IEL): None
    5. **Toledo Mobile Assn. (KV8P):** ARRL Great Lakes Division Conference, Saturday, March 14, 2020. Owens Comm. College

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 the university 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. **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 individuals.

University of Michigan Amateur Radio Club



iPhone screenshot

Download the FREE EchoLink app to connect to the W8UM repeater (145.230 MHz).

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.

26. Attendance (Jan. 2020): Attendance: 15 Students: 1 Alumni: 3 Faculty/Staff: 7 Non-UM: 4

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

Engineering Campus Visitor & Employee Parking Lots

Parking: Hayward Lot (NC 20)

NC 20: Hayward Street Lot: FREE after 5 pm weekdays & weekends or anytime with a UM Parking Pass. Limited numbers of available parking spaces.
*** **Barrier Free Access** thru the DOW Bldg into the 3rd Floor EECS Bldg.

Parking: Murfin Lot (NC 27)

NC 27: Murfin Street Lot: Combined VISITOR PAY Lot ($1.80/hr) before 5pm and FREE after 5 pm weekdays & weekends or anytime with a UM Parking Pass.
*** **Barrier Free Access** thru the courtyard to the EECS Bldg.

Parking: Hayward Lot (NC 48)

NC 48: Hayward Street Lot: FREE after 5 pm weekdays & weekends or anytime with a UM Parking Pass.
Before 5pm, M-F, VISITOR parking is $1.80 / hour (coin or credit card)
*** NOT Barrier Free Access to EECS

Parking: Beal Lot (NC 60)

NC 60: Beal Street Lot: FREE after 5 pm weekdays & weekends or anytime with UM Parking Pass (GATED LOT).
*** **Barrier Free Access** along the East Side of EECS Bldg.



EECS Bldg., View from the Engineering Courtyard