

The Amateur Radio Club at Yale Annual Report

Academic Year 2016 - 2017

*- Featuring -
Special Section on the History of W1YU
1920 - 2017*

ACKNOWLEDGEMENTS

This document was written on September 3, 2017 at a time when W1YU had undergone a resurgence in activity. The 2016-2017 W1YU officers and several past Club Presidents made extraordinary efforts to find a home for the Club Station, get W1YU back OnAir, recruit new members and contact alumni.

Importantly, they also sought to have W1YU become recognized as a national leader in the revival of Collegiate Amateur Radio. Working with the ARRL and its new CEO, Tom Gallagher NY2RF, W1YU has done just that by taking a leadership role in social media (Facebook) and at Conferences, such as those held at Boxboro and in conjunction with W1AF, the Amateur Radio Club at Harvard.

W1YU as of this date, has run a UHF Club Net for 69 consecutive weeks on 442.500 MHz (DCS 073) on Tuesdays at 2000 ET. This consistency is critical to Club viability. There is much yet to be done regarding new member recruitment, especially in the undergraduate area. Also, philanthropy is a major area of concern, if W1YU is to survive its latest rebirth and have any chance for growth.

This document was planned to be a brief annual report to the OEM, the Yale Office to which we administratively report. However, it seemed the appropriate time to put out a history of the Club digitally, as well as one on (pardon the dirty word) -- "paper", to have in one place the History of W1YU as we know it. The history of most College Amateur Radio Clubs is sinusoidal. We are now near a new zenith in W1YU activity and influence. What better time to emulate Janus—to look back and look ahead. There is much opportunity for W1YU activity in the sphere of Public Service such as SKYWARN and with the Yale OEM under Ms. Maria Bouffard.

There is a wealth of material between these covers –that was the intent. Going forward, this Annual Report will be just that – a slim volume of what we did during the previous year. This document, however, is a paean to W1YU, its history, its prior leaders and members, its accomplishments and its future aspirations. Contributors include:

N3NFP – Scott	W1YSM - Ed	AB1DQ – James
N1ESZ - Tony	KB1TXM – Monty	AA6E - Martin

It is a time capsule of sorts and one that hopefully will ensure that the origins of this great Amateur Radio Club will not be lost in the mists of time.

Very 73,

Ed W1YSM
Secy/Treas W1YU
New Haven, CT
September 3, 2017

James AB1DQ
1st Vice-President
New Haven, CT

Monty KB1TXM
Station FCC Licensee
New Haven, CT

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Section I – Introduction

Amateur Radio has been in existence for over a century and members of the Yale University community have participated in amateur radio activities for more than 85 years. The purpose of Amateur Radio, according to the Federal Communications Commission (FCC), is to provide volunteer, noncommercial communication service to the public; continue the advancement of radio skills through education and technical training; and to enhance and expand the number of trained operators, technicians and electronics experts.

All Amateur Radio operators are licensed by the FCC and hold one of three license classes: Technician, General or Amateur Extra. Each license allows more operating privileges across the spectrum. Amateur Radio differs from other forms of radio communication such as Wi-Fi, CB Radios, GMRS & FRS (walkie-talkies) in a number of ways: 1) Amateur Radio requires an operator to pass a written test to receive a license. 2) Amateur Radio operators may access many more frequencies and may contact amateur radio operators outside of the U.S. 3) Amateur Radio equipment ranges from 1 watt to 1,500 watts of power; other radios are limited in power to 5W or below.

At Yale, W1YU has functioned through the decades as a general club for the purposes of education and participation in traditional amateur radio activities, including operating in national radio contests, making and building radio components, holding regular on-air communication “nets”, and participating in events sponsored by the American Radio Relay League, which is the national association of amateur radio.

For the last fifteen – twenty years, W1YU, the Amateur Radio Club at Yale, has fluctuated between a state of hibernation and periods of concerted activity. W1YU has needed to reorganize several times as a functioning Amateur Radio Club in service to the Yale University community. For several years prior to February 2016, there were several key stewards of W1YU: Martin Ewing AA6E, Tony Niesz N1ESZ, George Andrews N1YAE, Scott Matheson N3NFP and Monty Shepardson KB1TXM. All of these hams served either as club president or station trustee. They worked to identify licensed amateur radio operators in the Yale community, hold radio related meetings and conduct radio activities, all without a fixed station or regular meeting space on campus. The prior fixed site was on Crown Street in downtown New Haven. This site was closed by Yale due to lack of Club activity in 1992.

With W1YU’s FCC license set to expire in October 2011, it was important to receive approval from Yale to renew the call sign, or it would be returned to the FCC pool of call signs and potentially lost. In June of that year, W1YU received authorization from the Office of the Secretary at Yale to use the name “Amateur Radio Club at Yale” and was granted status as a permanent entity of the Secretary’s Office with a special affiliation to the Office of Emergency Management. This action cleared the way to renew Yale’s license with the FCC and ensured the preservation of this special call sign for Yale (W1YU), which was first registered in Yale’s name in 1931. The current FCC Station Licensee is Monty KB1TXM. The history of radio at Yale and the history of W1YU through the decades was recently addressed by James AB1DQ and is presented in the following section.

Yale OFFICE OF THE SECRETARY

PO Box 208230
New Haven CT 06520-8230
courier
105 Wall Street
New Haven CT 06511

June 17, 2011

Monty Shepardson
Amateur Radio Club at Yale
79 Warren Street
New Haven, CT 06511

Dear Monty,

I hereby reauthorize permission for use of the name "Amateur Radio Club at Yale." This organization is therefore entitled to use Yale facilities for meetings and other activities, provided its representatives obtain approval from the appropriate administrative office in charge of the facility it wishes to use.

As you know, this group is now transitioning from its existence as a non-undergraduate organization, which required annual registration with the Office of the Secretary, to a permanent entity within the Office of the Secretary; more specifically, in collaboration with Maria Bouffard, Director of Emergency Management. Please feel free to work with her directly on this.

I think this will be a wonderful initiative and excellent way to provide service to the Yale community.

Sincerely,



Martha C. Highsmith
Deputy Secretary of the University

Cc: Linda K. Lorimer
Maria Bouffard
Mindy A. Marks ✓



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION



AMATEUR RADIO LICENSE

W1YU

ATTN: LINDA M SHEPARDSON
YALE UNIV AMATEUR RADIO CLUB
79 WARREN STREET
NEW HAVEN, CT 06511-5765

Licensee: This is your radio authorization in sizes suitable for your wallet and for framing. Carefully cut the documents along the lines as indicated and sign immediately upon receipt. They are not valid until signed.

The Commission suggests that the wallet size version be laminated (or another similar document protection process) after signing. The Commission has found, under certain circumstances, laser print is subject to displacement.

Cut Along This Line

FCC Registration Number (FRN): 0005172788

Special Conditions / Endorsements

NONE

Grant Date	Effective Date	Print Date	Expiration Date
09-12-2011	09-12-2011	09-13-2011	10-22-2021

File Number	Operator Privileges	Station Privileges
0004871206		CLUB

THIS LICENSE IS NOT TRANSFERABLE

Linda M Shepardson

(Licensee's Signature)

FCC 660 - May 2007

Cut Along This Line

Cut Along This Line

Cut Along This Line

Call Sign / Number	Grant Date	Expiration Date	File Number	Print Date	Effective Date
W1YU	09-12-2011	10-22-2021	0004871206	09-13-2011	09-12-2011

Operator Privileges	Station Privileges
	CLUB

THIS LICENSE IS NOT TRANSFERABLE
Special Conditions / Endorsements:
NONE

ATTN: LINDA M SHEPARDSON
YALE UNIV AMATEUR RADIO CLUB
79 WARREN STREET
NEW HAVEN, CT 06511-5765

AMATEUR RADIO LICENSE
FCC Registration Number (FRN): 0005172788
FCC 660 - May 2007

Linda M Shepardson

(Licensee's Signature)

FEDERAL COMMUNICATIONS COMMISSION



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Cut Along This Line

Cut Along This Line

Here
Fold

The Amateur Radio Club at Yale - W1YU Constitution

Preamble: The Amateur Radio Club at Yale - W1YU is an association of persons in the wider Yale University community interested in Amateur Radio. This Constitution is the governing law of the organization. It shall be our purpose to further the exchange of information and cooperation between members, to promote radio knowledge, fellowship, and individual operating efficiency, and to so conduct Club programs and activities as to advance the general interest and welfare of Amateur Radio in the community. Further, it is our purpose to provide educational and other services related to radio communications and technology to the University community. Effective June 17, 2011, this organization is recognized as a permanent entity of the Yale Office of the Secretary, more specifically in collaboration with the Office of Emergency Management, with authorization to use the name "Amateur Radio Club at Yale."

Article I: Membership

All members of the Yale community interested in Amateur Radio communications shall be eligible for membership. Three classes of membership are available: Full Membership, Associate Membership, and Affiliate. Membership shall be by application and election upon such terms as the Club shall provide in its By-Laws. All members shall be in good standing, compliant with university policy, FCC regulations, and the laws of the State of Connecticut.

Article II: Officers

Sec. 1. The officers of the Club shall be **President, Vice President, Secretary, Treasurer, and Station Trustee**. The Club must have at least two individuals serving as President and Station Trustee to operate. When deemed appropriate by the President, the position of Vice President may be expanded into three positions: First Vice President, Vice President for Club Activities, and Vice President for Digital Media. Any officer, except the President and First Vice President, may also hold the position of Secretary or Treasurer. Each officer must be a current Yale employee or Yale student.

Sec. 2. The officers of this Club shall be elected by the Full Members for a term of one year, according to the procedures specified in the By-Laws.

Sec. 3. Vacancies occurring between elections shall be filled according to the procedures specified in the By-Laws.

Sec. 4. Officers may be removed upon an appropriate vote of the Full Members, according to the procedures specified in the By-Laws.

Article III: Duties of Officers

Sec. 1. The President shall preside at all meetings, and conduct them according to the rules adopted. The President shall enforce due observance of this Constitution and By-Laws; decide all questions of

order; sign all official documents adopted by the Club, and perform all other duties pertaining to the office of President. The President shall also be the principal contact with Yale University and the academic departments, and, together with the Station Trustee, shall be responsible for observance of University regulations.

Sec. 2. The Vice President shall assume all the duties of the President in the President's absence. In addition, the Vice President shall organize Club activities and manage relations with the ARRL and other amateur radio organizations and clubs.

If the Vice President position is expanded into the positions of First Vice President, Vice President for Club Activities, and Vice President for Digital Media, then the First Vice President shall assume all duties of the President in the President's absence. The First Vice President shall manage relations with the ARRL and other amateur radio organizations and clubs. In addition, the First Vice President shall oversee education and training activities. The First Vice President will be responsible for all of the club's programmatic activities. The Vice President for Club Activities shall assist the First Vice President in organizing, coordinating and overseeing amateur radio activities deemed beneficial to the Club. The Vice President for Digital Media shall oversee the Club website and any other online representation of the Club, including social media. All online content must be approved by at least one Club officer.

Sec. 3. The Secretary shall keep a record of the proceedings of all meetings, keep a roll of members, submit membership applications, carry on all correspondence, read communications at each meeting, and mail or e-mail meeting notices to each member. It shall be the duty of the Secretary to keep the Constitution and By-Laws of the Club and have a copy on hand at every meeting. The Secretary shall note all amendments, changes and additions on the Constitution and shall permit it to be consulted by members upon request. When leaving office, the Secretary shall turn over all items belonging to the Club to his or her successor.

Sec. 4. The Treasurer shall receive and receipt for all monies paid to the Club; keep an accurate account of all monies received and expended; pay no bills without proper authorization (by the Club or its officers constituting a business committee). Twice each year, the Treasurer shall submit an itemized statement of disbursements and receipts. When leaving office, the Treasurer shall turn over all items belonging to the Club to his or her successor.

Sec. 5. The Station Trustee shall be a licensed radio amateur who holds the Club station license (W1YU) as Trustee under the authority of the Federal Communications Commission. The Station Trustee shall oversee the station to ensure that it is constructed and operated according to FCC regulations.

Article IV: Meetings

The By-Laws shall provide for regular and special meetings. At meetings, a minimum of twenty-five percent of the Resident Full Membership, or three Resident Full Members (whichever is greater) shall constitute a quorum for the transaction of business.

Article V: Dues

The Club, by majority vote of Full Members present at any regular meeting, may levy upon the membership such dues or assessments as shall be deemed necessary for the business of the organization, and as provided for in the By-Laws.

Article VI: Activities and Membership Assistance

The Club, through designated individuals or committees, will provide fellowship and assistance to members, such as technical advice to members concerning equipment design and operation. The Club may also engage in official amateur radio activities, as defined by the national association for amateur radio, The American Radio and Relay League (ARRL). These activities include, but are not limited to, Field Day activities and Emergency Communication assistance. Similarly, the Club will support education and licensing of prospective radio amateurs, and will communicate Club activities and interests to the general public.

Article VII: Amendments

This Constitution and By-Laws may be amended by a two-thirds vote of the Full Membership. Proposals for amendments shall be submitted in writing at a regular meeting and shall be voted on at the next following regular meeting, provided all members have been notified by mail or e-mail of the intent to amend the Constitution and/or By-Laws at the designated meeting. Robert's Rules shall govern proceedings.

By-Laws:

1. Membership.

Membership is available in three classes:

- a. **Full Membership** is available to licensed radio amateurs, who are members of the wider Yale Community. The Yale Community includes present Yale students, staff, and faculty, including post-doctoral fellows and visiting appointees. It also includes alumni of Yale University, retirees, and former staff members.
- b. **Associate Membership** is available to non-licensed persons in the Yale community, including the spouse of a member of the Yale community.
- c. **Affiliate Status** is available to licensed radio amateurs in the local region, who are not members of the Yale community as defined above.

Full Membership includes all Club privileges including use of Club facilities (subject to license grade), as well as rights to hold a Club office and to vote for Club officers. Associate Membership and Affiliate Status includes all Club privileges except for the right to vote or hold office. Associate Members and Affiliates may make use of Club facilities, under the immediate supervision of a Full Member and as permitted by FCC regulations. Applications for membership shall be submitted at regular meetings.

2. Meetings. The President shall set the schedule and location of regular meetings. Special meetings may be called by the President upon the written request of any five Full Members. Notices shall be sent by e-mail or other means to all members concerning special meetings and the business to be transacted. Informal meetings are encouraged at any convenient time over the air, via Echolink or other means.

3. Dues. The President shall determine if the Club will charge dues in any given year and will present such proposed dues to a vote of the membership.

4. Station Committee. A Station Committee shall be designated by vote of the Full Members with the responsibility for all on-Campus operating activities, including obtaining space, constructing a station and antennas, and coordinating with the Yale Administration and appropriate Yale departments. The President and Station Trustee shall be ex-officio members of the Station Committee. The Chairperson of the Station Committee shall be a current Yale employee, student, or faculty member.

5. Alumni / Retiree Committee. The President may appoint a full Club member to serve as Chairperson of an Alumni Committee. The Chairperson will encourage a strong relationship between Yale ham alumni and former employees and on-campus members of the Club.

6. Election of Officers. A slate of officers shall be nominated and communicated to the Full Members two months prior to election. If filling vacancies, the slate of officers shall be communicated to the Full Members ahead of an election, at the discretion of the President. Elections may take place during regular meetings or electronically. Full Members may vote in person, by mail, or electronically.

7. Officer Vacancies. If the office of President shall be vacated due to resignation or removal prior to the regular annual election of officers, the Vice President or First Vice President will become President. If any other officer resigns or is removed prior to the regular annual election of officers, the President may appoint a successor for the unexpired term.

8. Removal of Officers. An officer may be removed from his or her position for any reason by vote of the Club at a regular or special meeting, provided all members have been notified by mail or e-mail of the intent to remove the officer at the designated meeting.

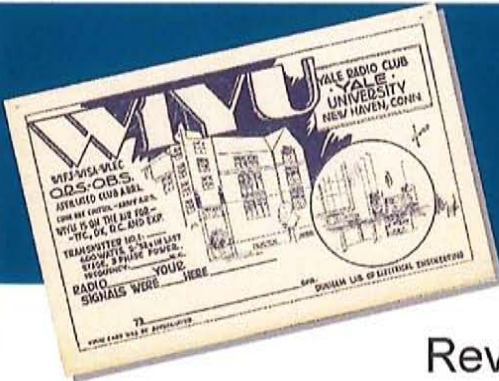
9. Removal of Members. A member may be deemed ineligible for any reason by vote of the Club at a regular or special meeting, provided all members have been notified by mail or e-mail of the intent to remove the member at the designated meeting.

[amended April 20, 2016, approved unanimously]

[amended April 18, 2011, approved by 80% of membership]

[amended December 5, 2006]

Section II – W1YU Club History



W1YU
The Amateur Radio Club at Yale University

Reviving a Storied Collegiate Amateur Radio Club for the 21st Century

- Presented by -
James M. Surprenant - AB1DQ
Harvard Amateur Radio Symposium, Cambridge Massachusetts
29 April 2017

YARC Beginings – 1920s



- Experimental 1XH was the first radio call sign assigned to Yale University
- Yale alum & EE professor Franklin Doolittle, ham call 1AGI, was president of 1XH and founded pioneering Hartford commercial station WDRC

YARC Beginings – 1930s



- Xmas 1930: Doolittle works with a student, Bob Wilson to recruit interested students to form the Yale Radio Club
- First station set up in 2 days time and YARC has 30 initial members, 20 of whom are licensed

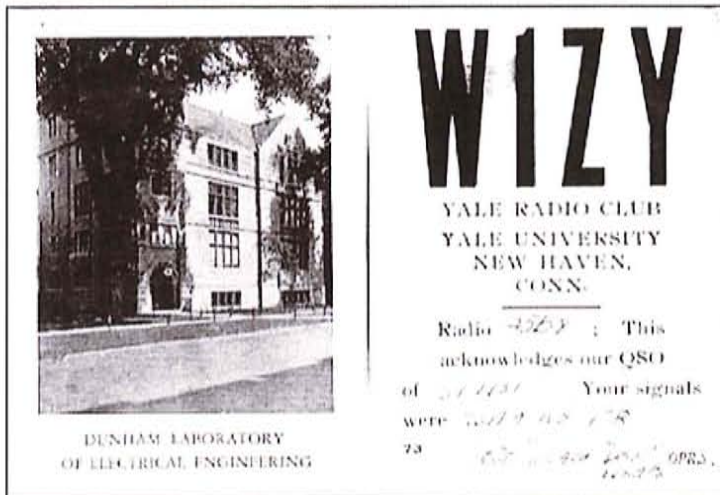
YARC Beginings – 1930s

- Feb 1931: YRC to participate in a joint exhibit of the Yale branch of AIEE and AMSE
- Messages will be sent across the US
- Transmitters: 500 watts for 40M and 20M w. two new transmitters under construction
- W1YU regularly works other college stations and has a standing sked with Northampton & Vassar

YARC Beginings – 1930s

- Sheffield Scientific School senior able to “follow the movements of the girl he left behind” via radio - *Yale Daily News*, 01/1932
- W1YU works Sir George Hubert Wilkin’s ill-fated Nautilus submarine expedition to the North Pole & Dr. Wilfred Grenfell’s mission to Labrador
- QSLs received from Morocco, Czechoslovakia, England, France, White Horse Alaska, Russia, Scotland; Australia worked long path
- Design competition for new W1YU QSL card

1XH to W1ZY to W1YU



The Yale Radio Club initially operated as W1ZY prior to being issued W1YU call sign by the FCC in 1930.

W1YU in the pages of the Yale Daily News

February 19, 1931:

STATION OF YALE RADIO CLUB WILL BE FEATURED AT SHOW

**New Undergraduate Group, Organized
After Christmas, Communicates
With Australian Station**

Plans are being made to feature the station of the Yale Radio Club at the Electrical Engineering Show which will be held in the Dunham Laboratory next Monday. This club is a comparatively new organization, having been formed shortly after the Christmas holidays from a group of men who responded to an invitation issued by the Electrical Engineering Department to work in the communication laboratories of that department.

Previous to the Christmas vacation Professor F. T. McNamara made it known to a few students that an opportunity would be given to undergraduates to work in these laboratories. It was decided that a club should be formed so that those wishing to avail themselves of the privileges could do so in co-operation with the Electrical Engineering Department.

Shortly afterwards a meeting was held and all those students having radio operators' license were invited. There was a large attendance and everything indicated that this opening had been well received by the undergraduate body. The following officers were elected: J. E. Phillips, 1932S, President; P. Parker, 1932, Treasurer, and R. F. Wilson, 1934, Secretary.

A plan to install a club transmitter and receiver was brought before those present and immediately accepted. Within two days the station was in operation. Later a large transmitter was added to the equipment and communication with Australia was accomplished.

During the show next week schedules are to be maintained with New York, Boston, Washington, Schenectady, and Hartford. Messages will be accepted for all parts of the globe and will be sent without charge, as the station has an amateur standing. The
(Continued from Page One)

members of the Yale Radio Club will keep the station in operation throughout the show and will be glad to answer any questions and to transmit any messages.

Messages for distant points cannot be handled directly, but will be relayed from one amateur station to the next until they reach their final destination. The average time taken for one of these messages to be relayed across the continent is about six hours. Consequently fast service will be given for these communications, as well as those directed to nearby points.

The station of the Yale Radio Club can be found on the top floor of the Electrical Engineering Laboratory. Messages will be accepted and are welcomed at all times as the station carries on a great amount of relay work.

February 21, 1931:

JOINT EXHIBIT TO BE HELD IN TWO YALE LABORATORIES

**Yale Branch of American Institute of
Engineers Is to Convene with
Mechanical Society.**

In the Dunham and Mason Laboratories on Monday between the hours of 3 to 5:30 and 7 to 10, there will be held a joint exhibit of the Yale branches of the American Institute of Electrical Engineers and the American Mechanical Society of Engineers. In connection with the Electrical exhibit, the Radio Club is to show five experiments, including the talking over a beam of light, illustrations of remote control, and sending of messages free of charge for any one present at the performance to all parts of the United States, and even to foreign countries.

The Engineering Exhibition at Dunham Laboratory will include among many other features, the following experiments: A brake test of induction and shunt motors; the A. C. Power House, alternating current rectification; Dynamometer test with determination of Horsepower and Efficiency of a variable speed induction motor by use of the Dynamometer; a demonstration of various types of automatic starters for A. C. and D. C. motors. Then there will be exhibitions of the magneto compass, vacuum tubes, and a demonstration of methods for obtaining variable speeds from an induction motor by means of a transmission.

In the Mason Laboratory Mechanical Exhibition, characteristic demonstrations also will be seen: The Westinghouse Air Brake System, radiator heat test, the La Salle chassis, showing all parts in operation, Diesel and Otto Gas Engines, and the Knock Rating Engine to compare different motor fuels as to their tendency to knock in an automobile engine.

Perhaps the most spectacular of all the demonstrations offered will be those conducted in the High Tension Laboratory, where a spark under a head of 150,000 volts will be exhibited. For reasons of safety the doors of the High Tension Laboratory cannot be opened during the demonstration. Parties to view exhibits held therein must assemble in the Lecture Room every half hour.

January 5, 1932:

YALE HAS RADIO STATION CONDUCTED BY STUDENTS

**Club, With Membership of Thirty,
Communicates with Operators
In Distant Countries**

**HAVE TALKED WITH AUSTRALIA,
RUSSIA, SCOTLAND, ENGLAND**

On the top floor of the Dunham Laboratory of Electrical Engineering is located radio station W1YU. This is a short wave station operated by the Yale Radio Club, which has a membership of thirty, and is open to all members of the University, half of its present membership coming from Yale College. The club has corresponded with stations located in every continent except Asia during the year in which it has been in existence.

The "W" in the call letters signifies that the station is located in the United States, while the "Y" means that it is in the first United States regional district, and the "YU" stands for Yale University. W1YU is an official broadcasting station of and affiliated with the American Radio Relay League.

Their equipment consists of a 500-watt transmitter, operating in the forty and twenty meter bands. Two new transmitters are under construction. A television receiver and a phone transmitter are also being built by members of the club. As club members are free to putter about as they please, provided there is sufficient equipment to meet their demands, a variety of apparatus is kept in the broadcasting room.

Regular Service with Northampton

Operators at station W1YU have worked numerous other colleges in the United States. Last year a regular schedule was maintained with Northampton three times a week. They also communicated with Vassar once a week, but this year, owing to the depression and lack of requests, these hook-ups have been discontinued. Some other colleges that have been worked by the Yale experts are: Dickinson College, University of Pennsylvania, Massachusetts Institute of Technology, Dartmouth, St. Johns College, Pennsylvania State, and Princeton.

(continued
next page)

(Jan. 5, 1932, continued)

College, Pennsylvania State, and Princeton.

Several students keep in touch with the station at the prep. school they attended before entering Yale, or with an amateur operator in their home town. There are some Naval graduate students from Annapolis in the University who keep in contact with their alma mater through communicating with friends at station NZO, located at Annapolis. A Sheffield Scientific School Senior has located a station in his home town in Michigan. He is now able to follow the movements of the girl he left behind with the co-operation of his fellow amateur.

Kept in Touch with Ill-Fated Nautilus

WIYU has kept in contact with several expeditions into uninhabited portions of the globe. The most recent of these was Sir Hubert Wilkins' ill-fated attempt to reach the North Pole in the submarine, Nautilus. The Yale amateurs have also communicated with Dr. Grenfell's mission in Labrador.

It is customary for stations to exchange cards, by mail, after they have corresponded with each other. The cards that have been received by the Yale Radio Club are arranged on the wall of their quarters, giving a very colorful effect as the amateurs vie with each other in attempting to create an artistic and original design for their cards.

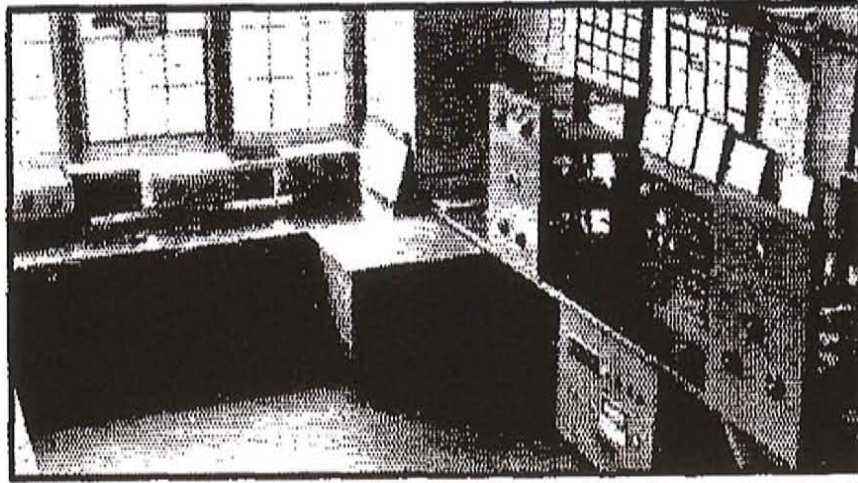
Card from Kirribilli, New South Wales

In this collection a wide representation may be found. Stations in Morocco, Czechoslovakia, England, France, and White Horse, Alaska, have corresponded with the New Haven amateurs. Among the unique cards are those from: Kirribilli, New South Wales; Okmulgee, Oklahoma, the Indian capitol of the United States; a Soviet card from Moscow with the symbol "SK" that is found on most cards that come from Russia; and, contrary to the universal conception of the Scottish race who are generally considered frugal, the most elaborate card from Scotland.

The longest transmission recorded was with Australia. As this transmission took the longest route around the globe, it was over half way around the world, or over 13,000 miles. It was possible to tell that this message travelled in the longest route by checking up on the amount of time it took to be transmitted.

As WIYU is a newly assigned call letter, members of the Yale organization are now looking around for a design for their new card and are open to suggestions. The club has won several awards in National and State competitions which are exhibited with their other souvenirs. Any member or friend of the University is welcome to browse about the premises on the top floor of Dunham Laboratory of Electrical Engineering if he should so desire.

W1YU in 1933



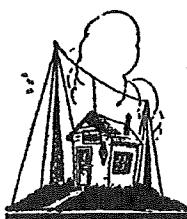
Source: QST Nov. 1933, pp. 45

W1YU in 1933

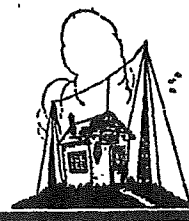


- W1YU handles 155 messages in March, most traffic related to the Long Beach CA earthquake





Amateur Radio STATIONS



W1YU—WLE

The Yale Radio Club, New Haven, Conn.

THE Yale Radio Club was organized in January, 1931, by a small group of amateurs attending the university. There are thirty members in the club and twenty-one of these hold operator's licenses, but owing to the pressure of studies only a few can devote much time to operating. The following calls are included in the membership: W1BOD, W1FJ-SA-2EBM, W3AWH-W2CMA, W1ASD, W1AYR, W2DKT, W1FDM, W1DBP, W1COA, W2DAX, W2AMD and ex2AOF. Graduate members are W1BHM, W1DGG, W1FKQ, W1ZY, W8DR, W1BGJ, W9AK, exEF8CSR and exW6APK.

Although many kinds of experimental work are undertaken, the chief activity of the club is the operation of W1YU. Since the formation of the club, work has been done on all bands above 56 mc. except 28 mc. At the present time permanent transmitters to work on the 7- and 3.5-mc. bands are maintained. These are practically identical except for the different output frequency, each using a 47 crystal oscillator, 46 doubler, and 10 buffer exciting a pair of 852's in parallel in the last stage. In each case, the crystal is operated on the next lower frequency band so that break-in may easily be used. There is a common high-voltage power supply for both transmitters, and this apparatus is the only way in which W1YU differs from most conventional amateur outfits. Since three-phase power is available at the laboratory it is used exclusively for high-voltage supply. Three 1.5-kva. transformers with 220/2200 volt rating are used with three 866 tubes in a three-phase half-wave circuit, giving an output of 3600 volts d.c. A slight 180-cycle ripple is present, and this is easily eliminated with a 5-henry choke and 4 μ fds. of condenser. Separate low-voltage power packs are used for the low-power stages of each transmitter. A switchboard distributes the various filament and plate voltages to either transmitter or to any other piece of apparatus desired.

Separate antennas are used for each transmitter. A 132-foot Hertz with 60-foot Zepp feeders is used for the 80-meter set, and a single-wire-fed Hertz 66 feet long for 40 meters. A

horizontal wire about 75 feet long is used for receiving weak signals, although a short indoor antenna is ordinarily used.

At the receiving position are a monitor, e.c. frequency meter, and three receivers. The main receiver has one stage tuned r.f. and one or two stages a.f. amplification as desired. The other two receivers are two-tube battery sets, one of them being an experimental model built by W3AWH using British tubes. By means of a switching arrangement the 'phones may be connected to any receiver or the monitor, or the receiver may be put on the loud speaker. Two straight keys, a sideswiper and two bugs provide for the wants of any operator who may be working the set.

W1YU is a 100-percent home-made station since all of the apparatus was built by club members. The receiver and monitor were made by



W8DR, the transmitting layout was made by Wilson, W1FJ-SA and the frequency meter was the result of the combined efforts of four members.

The station has been in operation during twenty months since the formation of the club, and in this time over 3700 contacts have been made. Most of the DX work has been done on 40 meters, and 40 countries in five continents have been contacted. As usual, Asia is the sticker. W1YU is O.R.S. and O.B.S., and has usually acquitted itself well in the various ORS QSO contests and the Sweepstakes and DX contests. W1YU is State Control Station for Connecticut in the Army Amateur Radio System, and is

acting Net Control Station for the First Corps Area. Several members of the Club are in the U. S. Naval Communication Reserve, WIBOD being Commander of Section One, Unit Five, Third Naval Dist. W1ZY, the 1932 President of the club, has an ensign's commission.

Normal operation of the station is about 75 percent in the 80-meter band and 25 percent on 40 meters. The frequencies used are 3526, 3632, 7050, and 6990 kc., using the Army Amateur call WLE on the latter frequency. On 80 meters, during 1933, D4ZUA, PAOQQ, and FM8IH were worked; 21 reports from Germany and numerous reports from England, Netherlands, Switzerland, Hungary, and New Zealand have been received on this band.

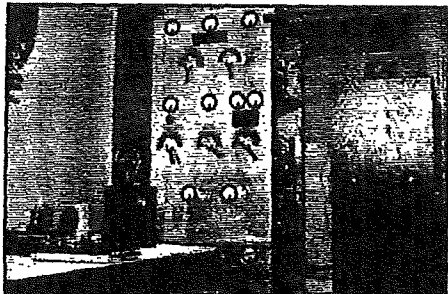
W4MO, Atlanta, Ga.

ALTHOUGH W4MO has been on the air only since March 1931, its owner, Don G. Harmer, dates his initiation into wireless back in 1912, when a spark coil layout established a one-way communication record of the distance across the street — one-way because the other fellow didn't own a coil. From the appearance of the transmitter in the photo, the spark coil is nothing but a fond memory!

Starting out with a 47 crystal oscillator, the set includes an 865 buffer, a pair of 865's in push-pull as a modulated amplifier, and a final push-pull stage using a pair of 560's as a liner amplifier. None of these stages needs neutralization. The speech end of the set has three 27's in cascade and a pair of 50's in parallel as modulators. An Ellis double-button mike is used.

An auxiliary transmitter has a 47 crystal oscillator, 47 buffer and two 47's in push-pull as a modulated amplifier. The modulator tube is a Type 50, with a 56 driver.

A Super-Wasp receiver is used for loud-speaker reception, although the set does not appear in the



photograph. The outfit on the table is a 3-tube affair using a 24 detector, 56 first audio and 47 second audio.

Both transmitters have worked all U. S. districts and several in Canada. C.W. signals from W4MO also have been heard in Holland on 3.5 mc.

The American Regional Conference

(Continued from page 19)

submit to their respective governments" the stated recommendations. Here is an immense improvement in the amateur position. Only Canada, Cuba, Newfoundland and the United States accepted the old Ottawa agreement, and Mexico did not sign the Madrid radio regulations. Now all of these countries have agreed (subject to ratification, of course) that the 1715- and 3500-kc. bands are assigned exclusively to amateurs throughout North and Central America. This makes for the freer encouragement of amateur radio in these countries and relieves us of the possibility that some of these countries might put fixed or mobile services in these bands. Strangely enough, the only difficulty encountered in this negotiation came from Canada who, distressed by the narrowing of a maritime mobile band important to her, endeavored to have the 1715-2000 band shifted bodily upwards. But neither Mexico nor the U. S. would accept this displacement of the amateur band, and eventually Canada was persuaded.

The agreement as signed distributes the frequencies from 1600 to 4000 kc. to various services, sometimes in minor deviation from the Madrid table and, as stated, assigns 1715-2000 and 3500-4000 exclusively to amateurs. The band 1500 to 1600 kc. is left unassigned; we understand it is generally regarded as "available for broadcasting." Above 4000 kc. the governments agree to follow the Madrid table rigidly except that 5600-5700 kc. is assigned exclusively to air mobile. Channel centers, separation between channels, tolerances and stabilities are agreed upon, none of these affecting us, and there are extensive definitions, including two amateur ones which comply with existing language. It is expected that the agreement will be ratified by the respective governments by an exchange of diplomatic notes and become effective the first of 1934.

Our thanks and congratulations are due the L.M.R.E. and its officers for their success in looking after amateur interests at the conference. This is the first time that the headquarters of the I.A.R.U. has called upon a member-society to undertake amateur protection at a conference held in its country, as is provided for in the Union's constitution. Its success causes us to look forward to the day when in every country we shall have an amateur society capable of taking care of the interests of amateurs of the whole world when an international conference is held in its country. *A su salud, L.M.R.E.!*

F. H. Rawson, Chicago, advises that he will pay telegraph charges on any messages addressed to him from Byrd Antarctic Expedition, II, when telegraphed to him collect at 1550 North State Parkway, Chicago, Illinois.

W1YU in the 1940s



- During WWII, most W1YU members went into the service and the station went on hiatus
- W1YU re-emerged in 1946, had 20 members and held regular meetings
- Yale's first commercial station, WOCD (now WYBC) went on the air drawing members away from W1YU

W1YU in 1953



Yale Club President James Douglas '55, operating W1YU in the basement of Hendrie Hall

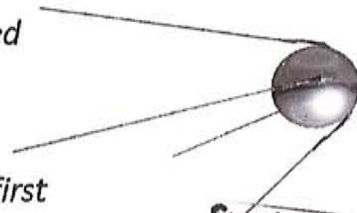
W1YU in 1957

"The sounds of the first satellite ever launched into outer space were received Saturday by Yale's amateur radio station, W1YU."

"At 1:47 PM Saturday, the station heard the first pulsating "twirp" of the recently launched projectile. Since then the signals have been heard seven times."

"W1YU recorded audible effects of the 184 pound Russian sphere last night from 11:20 until 11:50."

Yale Daily News, 10/07/57



Sounds Of Satellite Above New Haven Recorded by W1YU

The sounds of the first satellite ever launched into outer space were received Saturday by Yale's amateur radio station, W1YU. At 1:47 P.M., Saturday, the station heard the first pulsating "twirp" of the recently launched projectile. Since then the signals have been heard seven times. A standard amateur communication receiver, equipped with a 32 foot antenna, was the major piece of equipment used by the club to record the satellite's aural effects. In addition, a radio scope from...

W1YU in the 1960s



- K6BZZ Richard Dabney recalls that prospective W1YU operators needed to pass a test to operate alone - troubleshoot a non-operational ancient transmitter.

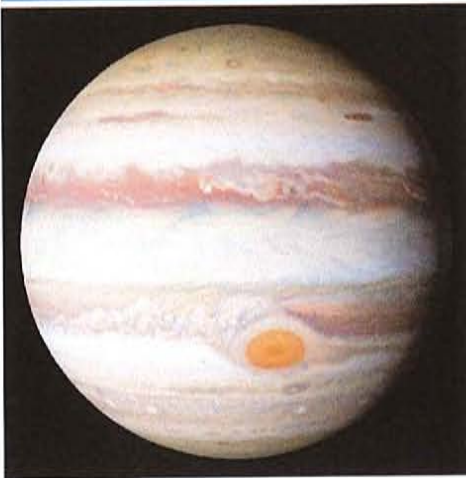
"It resembled something left over from the '30s....Access was from behind after walking through a wooden arm barrier... the finals were strange, probably RK-65s."

W1YU in the 1960s

- W1YU ran two phased log periodic beams on 15 and 20 meters AM
- K6BZZ recalls excellent conditions during a time when the sunspot cycle was just coming off the high of the mid- to late- 1950s

"I don't remember how much power we were running but it must have been several hundred watts. I would call CQ and many times exotic call signs would respond. "One time it was Italian Somaliland, then Rhodesia. What fun. Most are deleted entities now."

W1YU in the 1960s



- Project Jupiter: NSF research project led by W2BMF, Jim Douglas ('61PhD) measuring the decametric (21MHz) radiation from Jupiter.
- W1YU members provided knowledge support and assistance, helped with construction of electronics at Hendrie Hall and Bethany Observatory, and assisted with observing
- Benefit to W1YU:
 - Use of two large 8 element Yagis.
 - Project Jupiter funds enabled the club to build a 1KW transmitter.

W1YU in the 1960s



- KH7JJ, Ned Conklin, built the amplifier using a pair of 4-400As HV power supply and high-level plate modulator using a pair of 304TLs.
- W1ICB, Doug Bingham, built the 6146 exciter from ARRL Handbook design and K2DCJ, John Frampton, an avid DXer and contester, built the VFO.

"We had a wicked signal on 75 all over the northeast." - KH7JJ, Ned Conklin

W1YU in the 1960s



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"We had a wicked signal on 75 all over the northeast." - KH7JJ, Ned Conklin

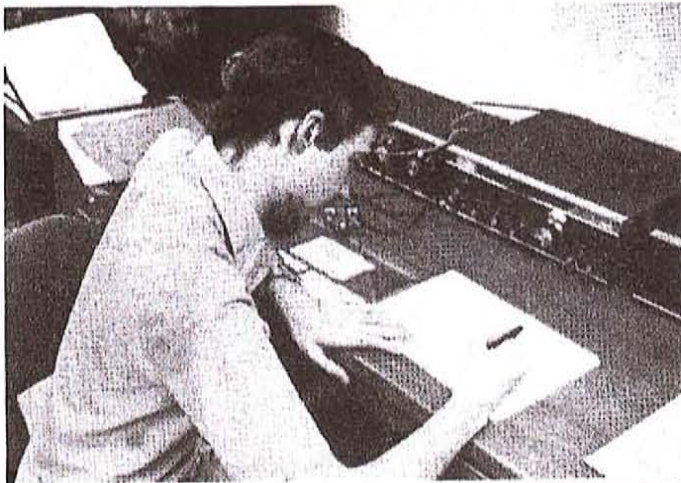
W1YU in 1973



- Teacher-organizer Bob Monaghan offered a non-credit Novice licensing class along with undergrad Wayne Itona, hoping to “revitalize the radio club and get more people into it.”
- Antenna was a cubical quad constructed on roof of Bingham Hall

“It’s a monstrosity, but it’s really going to help in getting back to full operation.” - Roger Gollub, '77

W1YU in 1980



YDN · Ethan Strominger

R.L. Drake Company donated \$2,000 of equipment to W1YU:

- TR-7 transceiver
- Matching network
- Power supply, &
- Moseley antenna...

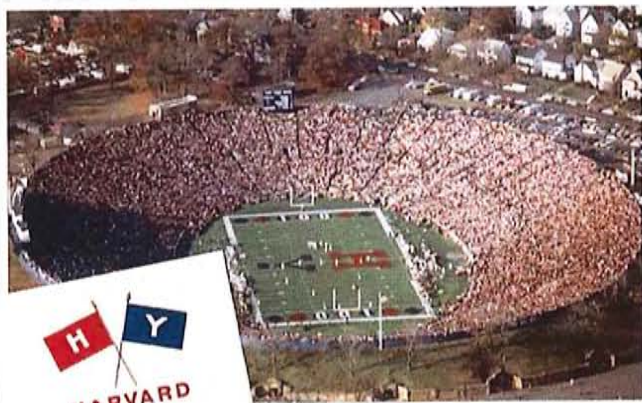
in *exchange* for 5 Yale T-shirts!

W1YU in the 1980s



- 1982-83: 15 Members
- Simplex club frequency
146.55 MHz used for talk-ins
- Novice class offered in 1982,
by faculty advisor Tony (now
N1ESZ, and WA3ZEV Tome
Inglin
- 1984: Club grew to approx.
20 members, due to the
enthusiasm of club president,
Ben Zigun KA1WA.

W1YU in the 1990s



- W1YU-W1AF holds a joint
operation at the Harvard-
Yale Game at the Yale Bowl.
W1YU president Joe O'Brien
demonstrates CW on TV
- 1992: Dean's Office takes
back 305 Crown Street from
W1YU. Yale ARC has not
had a permanent fixed
station until this year
- W1YU wins the 1995 CW
Collegiate Championship.

W1YU Station Locations Over The Years



HENDRIE HALL

- 1930s: Dunham Annex
- 1951-1953: Hendrie Hall
- Fall 1969: Bingham Hall
- 1973: Return to Hendrie Hall sharing space with WYBC
- 1975: Mason Lab
- 1980s-1992: 305 Crown St
- 2017-? The Graduate Club

W1YU in the 2000s



Martin AA6E

- W1YU president Martin Ewing AA6E hosted a meeting of interested parties at his home in Branford, where it was proposed the club be reconstituted as a no-longer primarily undergrad organization
- The new W1YU is no longer under the authority of the Yale College Dean's Office
- Membership now open to Yale students, alumni, faculty, staff and retirees

Yale University Amateur Radio Club -- W1YU

28 Wood Road
Branford, CT 06405

September 6, 2006

Ms. Linda Koch Lorimer
Secretary
Yale University
P.O. Box 208230
New Haven, CT 06520-8230

Dear Linda,

Our Club requests to be known as the "Yale University Amateur Radio Club - W1YU".

Let me highlight a bit of our history. The Club has been in existence at Yale since 1926. It is an organization of amateur "ham" radio operators at Yale for mutual support and education, as well as for service to the Yale community. Over the years, the Club has evolved along with student life and technology. In its most recent incarnation, it was a Student Organization in Yale College with Tony Niesz as Faculty Advisor and a room in the 305 Crown St. building.

The Club became inactive as undergraduate membership fell to zero ca. 2003. At that time, we were asked to remove our equipment from 305 Crown St., and we lost registration with the College.

This year, a group of us has been re-energizing the Club, mainly around faculty, staff, and alumni, while still seeking out student hams as we can identify them. Thus, we are seeking recognition as a "non-undergraduate organization".

We intend to develop a broad membership of interested members from the Yale community. Today, we have a core group of 15 persons, and a total of over 40 on our mailing list.

We are happy to answer any further questions.

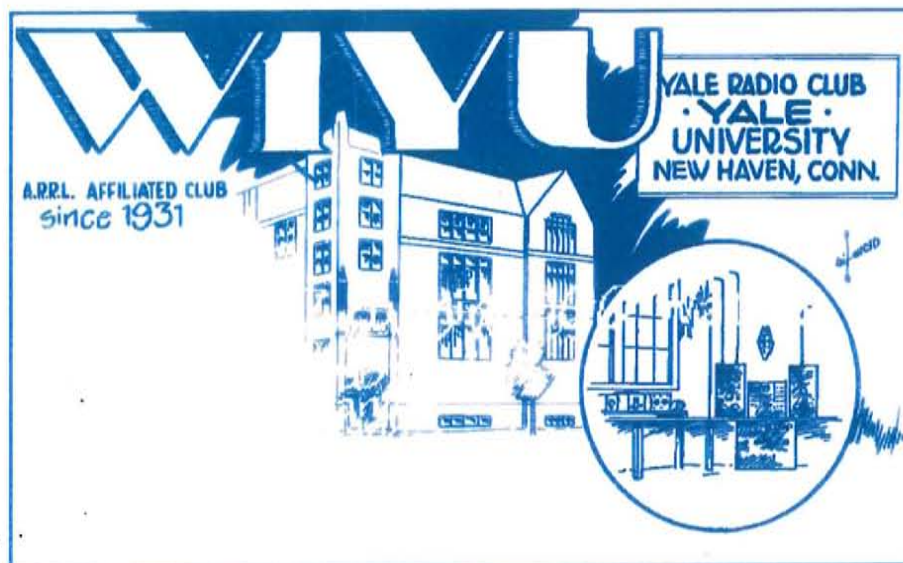
With best regards,

Martin Ewing, President
martin.ewing@yale.edu, 203-315-5160

CQ DE

W1YU

-since 1926



The Yale Amateur Radio Club

Are you a licensed ham operator? Want to be?

(We'll help you get your ticket.)

Interested in radio & communications technologies?

(Morse code to WiFi and beyond!)

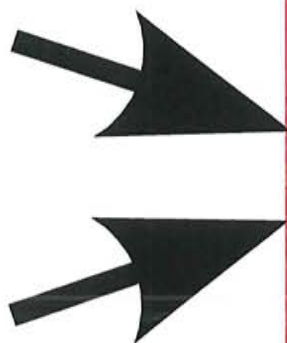
Want to meet people around the world?

(Hams from New Haven to Timbuktu)

Help with emergency communication services?

(When cell phones don't work!)

***Join us! -- a group of faculty, students, staff,
and alumni who are reviving the Club.***



**Organizational Meeting
Wednesday, March 22, 2006
7:30 pm
Becton Faculty Lounge
Dunham Lab, 10 Hillhouse Ave.**

More: www.yale.edu/w1yu -- call: Martin Ewing, AA6E, 315-5160

W1YU Field Day 2008



Tony N1ESZ sets up a Buddipole antenna on the Yale baseball field

W1YU Field Day 2008



Tony N1ESZ & Monty (future KB1TXM)

The Amateur Radio Club at Yale – W1YU

April 20, 2011

Ms. Linda Koch Lorimer
Vice President and Secretary
Yale University
P.O. Box 208230
New Haven, CT 06520-8230

Dear Linda:

The Amateur Radio Club at Yale would like to submit the attached application to renew our status as a non-undergraduate organization.

The club has most recently been active in 2007, but has been in existence at Yale since 1926. It is an organization consisting primarily of faculty, staff, alumni and retired employees who are amateur "ham" radio operators. The members of W1YU seek to become more active for the purpose of engaging in fellowship and education, as well as to provide service to the Yale community.

Included with this application are the proof-of-registration documents from 2007 for your reference. We are available to answer any questions and have included our contact information below. Thank you for considering this request.

With best regards,

George Andrews, President
203-737-2832
george.andrews@yale.edu

Monty Shepardson, VP and Station Trustee
203-432-0175
monty.shepardson@yale.edu

Amateur Radio Club at Yale - W1YU

Application Addendum

June 2, 2011

According to the Federal Communications Commission, the purpose of Amateur Radio is to provide volunteer, noncommercial communication service to the public; continue the advancement of radio skills through education and technical training; and to enhance and expand the number of trained operators, technicians and electronics experts.


At Yale, W1YU plans to operate as a general club for the purposes of education and participation in traditional amateur radio activities, and also seeks to become more active in a public service capacity through an affiliation with Yale's Emergency Management Office. Director Maria Bouffard has indicated that she is willing to sponsor our group so that we may hold meetings and participate in activities related to emergency management at Yale which are appropriate for volunteers.

Typically, amateur radio operators assist organizations in emergency communications by providing incident communication support (for example, in the event of a large weather emergency such as a hurricane or major winter storm). In addition to this, our members can help Yale by acting as technical resources, providing equipment suggestions, and providing assistance when called upon in a catastrophic communications failure. It is important to point out that amateur radio operators do not interfere with official emergency radio traffic by police, fire, and medical responders. Amateur operators relay messages on separate frequencies to supplement existing systems and to provide assistance as needed.

W1YU is recognized as a club by the Amateur Radio Relay League (ARRL) and the Connecticut Section Manager has indicated that she could be of assistance to this club, especially related to Amateur Radio Emergency Services (ARES), a national amateur emergency communications program.

If the opportunity is available, W1YU requests to be recognized as an official club by Yale University on a permanent, or semi-permanent basis, instead of requiring our group to apply each year.

QSL CARDS OVER THE YEARS



WIZY

YALE RADIO CLUB
YALE UNIVERSITY
NEW HAVEN,
CONN.

Radio WIZY; This acknowledges our QSO of 1/1/11 Your signals were 2019 40 17R
73 WIZY 1/1/11 11:15

DUNHAM LABORATORY OF ELECTRICAL ENGINEERING

YALE UNIVERSITY YALE RADIO CLUB NEW HAVEN, CONN.

W1YU

O.R.S. A.R.R.L. AFFILIATED CLUB O.B.S.

Radio W9507; This acknowledges our QSO of 1/1/11
Your signals were 185 101 0300 11:15 1/1/11 Opr.

W1YU

YALE RADIO CLUB
YALE UNIVERSITY
NEW HAVEN, CONN.

W1YU-W1A-W1EC
OBS-OBS. T1
AFFILIATED CLUB AERL
EMERGENCY CONTROL-ARRV A.R.S.
W1YU IS ON THE AIR FOR-
-TFC, DX, R.C. AND EXP.
TRANSMITTER NO.1
400 WATTS, 2-22k IN LAST
STAGE, 3 PHASE POWER.
FREQUENCY: _____ K.C.
RADIO _____ YOUR _____
SIGNALS WERE _____ HERE

73 _____ QRV
DUNHAM LAB. OF ELECTRICAL ENGINEERING

YOUR CARD WILL BE APPRECIATED.

W1YU

YALE UNIVERSITY
AMATEUR RADIO CLUB

2045 YALE STATION
NEW HAVEN, CONN., U.S.A.

NEW HAVEN, CONNECTICUT USA


W1YU

Amateur Radio Club at Yale University
New Haven, Connecticut
USA

www.w1yu.sites.yale.edu

Confirming QSO with	Date	UTC	MHz	RST	Mode	QSL

www.ustraph.com



W1YU

Yale University
New Haven, Connecticut

To: AB1CDE This confirms our 2-way SSB QSO
Date: January 1, 2010 Time: 0000 UTC
Band: 20m UR Sigs: 59+20
Gallia est omnis divisa in partes tres, quarum unam incolunt Belgae...

Section III – Activity February 2016 – July 2017

The most current renaissance of the W1YU club began in February 2016 with the arrival of several new Yale Medical School Faculty members who were experienced and/or enthusiastic about reviving W1YU. First, James Surprenant AB1DQ contacted W1YU about becoming involved. James, who holds an Amateur Extra Class license and is now W1YU's First Vice President, had recently arrived at Yale and was seeking an active radio community. Within a week, one of James's colleagues on the medical campus, Dr. Edward Snyder W1YSM, expressed an interest in becoming involved as well. Incredibly, Ed had achieved all three license classes over a matter of 4 months - Dec 2015 – March 2016. Now the current Secretary/ Treasurer of the club, Ed, who also holds an Amateur Extra Class License, was eager to see W1YU function as a viable organization on campus.

Within a week, on February 18, 2016, W1YSM organized a W1YU club meeting at the Graduate Club at 155 Elm Street, where he is a member. He arranged for the group to have a private meeting room and refreshments. We had 11 people in attendance including four new members, which signaled another revival of the club. Prior to this, W1YU met infrequently, either on campus or at a coffee shop near campus, Maison Mathis, with three or four either current or emeritus faculty.

Following this meeting, W1YU had several executive meetings at either Maison Mathis or Starbucks, to revise the Constitution and Bylaws and elect a slate of officers. The Constitution was revised to add several officer positions to accommodate the activities we decided to pursue moving forward. We wanted to again have a regular ON-AIR Net, participate in ARRL activities and contests, update the website, and coordinate more effective outreach to Yale students. The slate of officers below was voted on and approved:

President:	Scott Matheson (N3NFP), Law School
First Vice President:	James Surprenant (AB1DQ), School of Medicine
VP for Digital Media:	Kurt Heumiller (KB2ZUZ), Center for British Art
Secy/Treasurer:	Ed Snyder (W1YSM), School of Medicine
Station Trustee:	Monty Shepardson (KB1TXM), Office of Development

AB1DQ also began a thorough search of Yale's archives for any historic information about W1YU. He created a presentation on amateur radio and W1YU from the 1920s to the Present. He and Douglas Maggs, a Harvard College senior who was President of the Harvard Wireless Club,



W1YU – The Amateur Radio Club at Yale Calling CQ

W1YU, the Amateur Radio Club at Yale is seeking new members (students, staff or faculty) who are licensed amateur radio operators ("hams"), or anyone who is considering becoming a licensed amateur radio operator.

Amateur Radio may have special appeal to those interested in engineering, computer science, digital electronics, mathematics, physics, astronomy, meteorology, or emergency communication.

We will plan an organizational Club meeting in the Fall when classes resume. Please consider joining us. We look forward to hearing from you.

Contact us at: W1YU-officers@mailman.yale.edu
<http://w1yu.sites.yale.edu>

Club, presented the history of the two Ivy League radio clubs to an SRO crowd of about 50 people at the Boxboro Ham Convention on September 11, 2016 (See Section II). Ed Snyder also gave a presentation on reviving ham radio on college campuses today.



Boxboro Ham Convention on September 11, 2016

This topic was of great interest to the ARRL and the new CEO, Thomas Gallagher NY2RF, who was seeking to raise awareness of amateur radio at the college level. W1YU is positioned to be a leader in this effort.

2016-17: The W1YU Year in Review

The past academic year has been a busy and productive one for the Amateur Radio Club at Yale University. Here's a look back on what we accomplished this year.

September: W1YU began the academic year by hosting the first New England Collegiate Amateur Radio Club program at Boxboro. The standing-room only two-hour program attracted members of regional college amateur radio clubs as well as ARRL CEO, Tom Gallagher, NY2RF. The program included a joint presentation with the Harvard Wireless Society, W1AF on club histories, followed by a round table discussion hosted by Dr. Edward L. Snyder, W1YSM.

October: Monthly meetings resume at our first home, Dunham Lab and gave a well-attended ham radio demonstration at the Center for Engineering Innovation and Design (CEID) which attracted new student members. Also, W1YU returned to HF participating in the School Round Up operating PSK31 and SSB from AB1DQ's shack in Cheshire CT. We placed 13th in the contest with a score of 2,670 points.

December: On December 5th, the Amateur Radio Club at Yale held it's first VE session in decades. Electrical Engineering senior, Han Zhang, KC1GTO, passed both Elements 2 & 3 to earn his General Class Ticket. VEs included Dr. Edward L. Snyder, W1YSM, James M. Surprenant, AB1DQ, and Santo Galatioto, WG1S.

February: W1YU hosted its second CEID program, a receiver kit build-a-thon. The program was led by W1YU Student member, Han Zhang, KC1GTO and 20 participants built the Pacific Antenna 40M DC Easy Receiver kit – every one worked!

March: Thanks to the vision and generosity of club Treasurer and Secretary, Dr. Edward L. Snyder, W1YSM, the Amateur Radio Club at Yale has its first fixed station since leaving 305 Crown Street. Located in the 2nd floor Hunt Boardroom of the Graduate Club at 155 Elm Street in New Haven, the new W1YU features an HF/VHF/UHF station.

April: W1YU participated in the first Harvard University Amateur Radio Symposium held in Cambridge, Massachusetts. James M. Surprenant, AB1DQ, gave a presentation on the history and revival progress of the Yale Club, and Scott Matheson, N3NFP and Dr. Martin Ewing, AA6E were panelists for the round-table session.

May: The proverbial antenna farm went up on the roof of the Graduate Club with the installation of a G5RV antenna for HF and a Diamond X50a for UHF/VHF FM ops.



W1YU MEETING AGENDA

August 29, 2017

Graduate Club 5:30p – 6:30p

- 1.) Report on Maria Bouffard Annual Report and Meeting (W1YSM)
- 2.) Update on 2017-2018 Student Recruiting Efforts (AB1DQ)
 - a. Law School Student Activity Fair
 - b. Yale Org Sync
 - c. Tech Class Advertising
 - d. Net Announcements
 - e. Social Media
- 3.) Boxboro Update (W1YSM)
- 4.) Tech Class Update (AB1DQ, N3NFP & K1RSU)
- 5.) Ten Tec Jupiter Update (N3NFP)
- 6.) VP for Digital Media Vacancy (N3NFP)
- 7.) Fall CEID Program (N3NFP)

MINUTES W1YU Club MEETING
Graduate Club
155 Elm Street, New Haven, CT
July 25, 2017
5:30p – 6:30p

- Attendees: James AB1DQ, Scott N3NFP, Ed W1YSM
- Minutes: No prior minutes read
- Items: See Attached Lists:
 - Ongoing W1YU Activities List
 - Resources needed to restore W1YU to OnAir Status
- Assignments:
 - SKYWARN integration with Maria Bouffard OEM Ed W1YSM
 - Alumni Outreach AYA Ed W1YSM
 - QSL Card Design James Ab1DQ
 - Annual Report completion Ed W1YSM
 - Conference Call re: CARI-OTA at Boxboro Ed WQ1YSM
 - CEID James/Scott
 - FCC License Classes/VE Sessions James/Scott
 - Recruit new members ALL
- Shack Rental: Paid until March 2018- need philanthropy W1YSM/ALL
- New Shack sign – black metal W1YU to be put up
- Discussed FCC “Felony” Question
- Boxboro seen as a leadership opportunity
- Next meeting August 29, 2017 Graduate Club

ONGOING W1YU ACTIVITIES LIST

JUNE 1, 2017

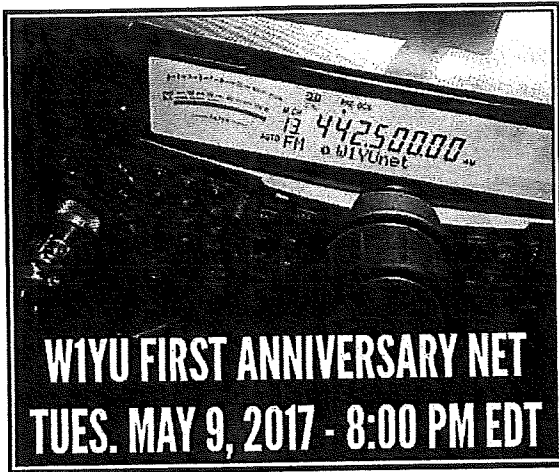
ITEM	LEADER	STATUS	X
• INSTALL VHF/UHF ANTENNA	SCOTT/JAMES		
• NET REPORT W1YU (442.500 DCS 073)	ED		
• DISCUSS AMENITIES ACQUIRED	JAMES		
○ REFRIGERATOR			
○ KEURIG (BOTTLED WATER)			
○ COST OF K CUPS			
○ RUG SWEEPER			
○ WASTE BASKET			
○ GARBAGE DISPOSAL			
• NEW GEAR (HEADPHONES)	JAMES		
• HOW TO USE THE RADIOS -CRITICAL	JAMES		
• MEETING FREQUENCY 1 BUS MTG; 1 ACTIVITY	ALL		
• BOXBORO	ED/JAMES		
• PUBLIC SERVICE – SKYWARN/COCORAHS	ED/MONTY		
• FUND RAISING – FINANCIAL PLANNING	ED		
• VE SESSIONS	???		
• LICENSE TRAINING	???		
• CEID	ALL		
• MEMBERSHIP APPLICATIONS	ED		
• NEW MEMBERS ---STUDENTS	???		
• MARCONI/LEE DE FOREST SPEC EVENT STATION	???		
• ALUMNI OUTREACH	???		
• ADVERTISING	???		
• GIFTS OF BOOKS AND EQUIPMENT	MONTY/SCOTT		
• QSL CARD DESIGN	JAMES		
• ANNUAL REPORT	MONTY		
• 3 YEAR PLAN	ALL		

YARC SPARK

An occasional newsletter published by the Amateur Radio Club at Yale University

2nd Edition, No. 2 - May 2, 2017

Check into the W1YU Anniversary Net - Tuesday, May 9, 2017



Join us on the air on Tuesday evening, May 9, 2017 at 8:00 pm EDT on the Woodbridge 442.500 Mhz (073 DCS) W1WPD/R repeater as we celebrate our first anniversary of the weekly Yale ARC net!

Starting on May 10, 2016, W1YU has been on the air every week, discussing our weekly topic, passing traffic and performing radio checks. The W1YU net is informal and fun and radio amateurs EVERYWHERE are encouraged to check in. If you are outside of the Woodbridge/New Haven vicinity, you can check in via Echolink or IRLP by way of the NEW ENG Conference nodes.

Dr. Ed Snyder will be your Net Control Station for the anniversary net and he has a few surprises planned. Everyone who checks in will receive a commemorative certificate and QSL card.

IF YOU ARE IN NEW HAVEN that night, please come to our open shack night that will proceed the net. Join us starting at 6pm at W1YU located on the second floor of the Graduate Club at 155 Elm Street in New Haven. Refreshments will be served!

Harvard Symposium

Members of the Amateur Radio Club at Yale, W1YU, participated in the first Harvard Wireless Club Amateur Radio Symposium held in Harvard Hall this past Saturday, April 29, 2017. Representing W1YU was club President Scott Matheson, N3NFP, 1st Vice President James M. Surprenant, AB1DQ, and former club President, Martin Ewing, AA6E. James gave a presentation entitled, *W1YU - Reviving a Storied Collegiate Amateur Radio Club for the 21st Century* and Scott and Martin participated as panelists in the round table forum, *Youth in Amateur Radio*.

Featured speakers included Benjamin Lee K7JS [Harvard], Flavio Jorge, CT7ATQ [University of Aveiro], Paul Horowitz, W1HFA [Harvard], Daniela Marcelino, CR7AQM and Micael Rebelo, CR7AQL [University of Aveiro], Nicolas Weninger KC1GLI and Saahil Mehta, KG5HEW [Harvard Univ], Tom Gallagher, NY2RF [ARRL], Martin Atherton, G3ZAY [Cambridge Univ.], Vasiljic Perovic, MOHZC, William Eustace, MOWJE, and Fred Hopengarten, K1VR.

W1YU congratulates W1AF on an outstanding program and in particular outgoing Harvard Wireless Club president Douglas Maggs, KK4UHK.

The symposium has been archived on YouTube and may be viewed here:
<https://www.youtube.com/watch?v=Xr2sUtDldXI>

AGENDA/ACTION ITEMS

- **Introductions and welcome to W1YU– We are back and OnAir!**
- Minutes approved
- Discussion of CEID activities – what worked, what didn't
- Website migration (Kurt)
- Discussion of W1YU Net and NC status – operators welcome
- Net is Tuesdays 8-9pm, W1WPD repeater 442.500/+/-073 DCS
- EchoLink linkages - *NEW-ENG* 9129 node ; IRLP node
- Discussion of Maker Faire; kit building
- Balloon launch; Field Day ; School Roundup (AB1DQ represented W1YU)
- QRP
- Go Box storage
- QSL Card design and approval
- Need for an antenna and fixed site for club station
- Meeting adjourned at 6:30p by 1st VP AB1DQ James
- VE Session (1ST) started for Han Zhang '17 EE; VEs AB1DQ, W1YSM, WG1S
- HAN PASSED TECHNICIAN AND GENERAL CLASS EXAMINATIONS!!!!!!!
- **Next meeting date –MONDAY NIGHT JANUARY 23, 2017 – Dunham Hall**

Respectfully submitted,

Ed W1YSM

Net Control W1YUsecy/Treas W1YU

W1YU Yale Amateur Radio Club Meeting Summary

Third Club Meeting

December 5, 2016

Start time - 5:30pm EDT

Close time - 6:30pm EDT

Date: December 5, 2016

Site: Dunham Lab, Mann Engineering Student Center, 10 Hillhouse Ave, NH, CT

Presiding: W1YU, 1st VP ---- James AB1DQ

Attendees

<u>Call Sign</u>	<u>Name</u>
W1YSM	Ed
N3NFP	Scott
KB1TXM	Monty
AB1DQ	James
KC1GEB	Gerry
KC1EE0	Brenda
K1RSU	Rich
WG1S	Santo
Trainee no license	Han Zhang

W1YU
Meeting Agenda
4/25/16; 5:30 pm
Maison Mathis coffee shop, 304 Elm St.

1. Welcome new members
2. Election results - congratulations, new officers!
3. Next steps with the club
 - Activity ideas for summer and fall
 - Ideas to increase student membership
 - On-Air Activities (participation in nets, etc.) Also, what's the best frequency for us? Let's think about the best place for us on the air to: 1) communicate, practice, etc. and 2) go to in the event of a campus emergency (for those of us interested in emcomm). This would probably be someplace in the 2 meter or 70 centimeter band, but we can discuss any frequency of interest. We don't have to decide at the meeting, but let's begin to think about it.
4. Open Discussion – bring your topics

W1YU
Working Group Meeting
Starbucks; March 2, 2016 5:30 p.m.

Agenda

Participants:

Scott Matheson, James Surprenant, Ed Snyder, Monty Shepardson

1) Discuss Proposed New Officer Structure

- 3 Options
- How would each work in practice

2) Review Constitution and Bylaws

- Do changes seem logical?
- Do we agree on the changes?
- Anything missing?

3) Review Membership Data

- Full, Associate, Affiliate
- Participation impacted by location of members, status with university

4) Determine timing to present slate to local members

- Send an email to members with 1) Revised Constitution and list of changes 2) Slate of Officers
- Ask for email vote returned to W1YU-Officers (not private, but all could participate) or should we schedule a meeting and vote (private, but only attendees could participate).

W1YU Meeting
The Graduate Club
155 Elm St, New Haven
February, 18, 2016 5:30 p.m.

Agenda

- 1) Introductions and Welcome to Ed Snyder, James Surprenant, Santo Galatioto, Jeff Walden
- 2) Brief Recap of W1YU
 - Affiliation with Yale Emergency Management
 - Copies of Constitution and Bylaws available
- 3) Use of W1YU call sign and redesigning/reprinting a QSL card
 - Scott received an inquiry from an alumnus who will be on campus for his 50th reunion in May regarding W1YU activity during the weekend.
- 4) Discussion of potential activities in service to Yale
 - How can our group help in a situation that requires extra radio communication on campus – ask Maria what protocols she would like to use? This could be an emergency situation, or a routine situation where extra communication would be helpful.
- 4) Discussion of equipment preferences, what radios/frequencies are we using, what are the options?
- 5) Other topics – Open Forum
 - Has anyone had any issues with new listserv (mailman)?

Useful Web Links re DMR:

From CT ARES site: Digital Mobile Radio (DMR) is an open digital radio standard that is a relatively new mode for CT ARES members. DMR operates within the existing channel spacing used in land mobile frequency bands globally. Its primary goal is to specify a digital system with low complexity, low cost and interoperability across brands, so radio communications purchasers are not locked in to a proprietary solution. DMR provides voice, data as well as other services. It is a two-slot, Time Division Multiple Access (TDMA) system offering voice, data and a range of other features and applications.

<http://www.ctdarn.net/>

<http://www.nedecn.org/> New England

<http://www.dmr-marc.net/> Nationwide or greater

http://ctares.org/ares_dmr.php CTARES

<http://nw.nedecn.org/MinimalNetwatch> See who is on the system



Yale



W1YU AMATEUR RADIO CLUB at YALE

THE GRADUATE CLUB
155 ELM STREET
NEW HAVEN, CT 06511

APPLICATION FOR MEMBERSHIP

Call Sign: _____

Name: _____

Home Address: _____

Home-City, State, Zip: _____

Work Address: _____

Work-City, State, Zip: _____

Cell Phone: _____

Home Phone: _____

Work Phone: _____

Email address: _____

ARRL Membership: Yes No Life

Would you like to be added to the W1YU List-serve? Yes No

Current Yale Students

College Address: _____

College Class & Academic Major: _____

License Class: Novice Tech General Advanced
 Extra

Are you a VE? Yes No

Station Information: MF HF VHF UHF
 Fixed Mobile Portable
 SSB CW Digital APRS
 AM FM Digital Voice

Membership Category:

- Full Member (a licensed amateur radio operator and current member of Yale community):
- | | | |
|--|--|--|
| <input type="checkbox"/> Undergrad Student | <input type="checkbox"/> Grad Student | <input type="checkbox"/> Post Doc. |
| <input type="checkbox"/> Prof. Student | <input type="checkbox"/> Faculty | <input type="checkbox"/> Staff |
| <input type="checkbox"/> Visiting Faculty | <input type="checkbox"/> Yale Alumnus/Alumna | <input type="checkbox"/> Retired Staff |
- Associate Member (a current unlicensed member of Yale community, incl. spouses)

Spouse of _____

- Affiliate Member (a licensed amateur radio operator who is not a current member of the Yale community but in the local area)

What are your radio related interests?

- | | |
|---|---|
| <input type="checkbox"/> AM | <input type="checkbox"/> ON AIR NCS |
| <input type="checkbox"/> AMSAT | <input type="checkbox"/> Packet Radio |
| <input type="checkbox"/> ARES | <input type="checkbox"/> Public Service |
| <input type="checkbox"/> Balloon Launch | <input type="checkbox"/> Radio Astronomy |
| <input type="checkbox"/> Contesting | <input type="checkbox"/> QRP |
| <input type="checkbox"/> CW | <input type="checkbox"/> Repeaters |
| <input type="checkbox"/> Digital Modes (PSK31, JT65) | <input type="checkbox"/> SSB |
| <input type="checkbox"/> Digital Voice (DMR, DSTAR) | <input type="checkbox"/> Scratch Building |
| <input type="checkbox"/> EMS | <input type="checkbox"/> SKYWARN |
| <input type="checkbox"/> Kit Building | <input type="checkbox"/> Traffic Handling |
| <input type="checkbox"/> Moon Bounce | |
| <input type="checkbox"/> Other (please describe): _____ | |

How did you learn about W1YU? _____

LOYALTY OATH: I WILL ABIDE BY THE CONSTITUTION AND BY-LAWS OF THE W1YU AMATEUR RADIO CLUB AT YALE (a copy is available on the website and at our headquarters)

Applicant Signature

Date

Approved By

Title

Date

Section IV – W1YU Station Headquarters

As mentioned, before, in February 2016, W1YU was a nomad. We had no home, meetings were held at a variety of unsatisfactory venues, and we had no area to set up a station—which is the life- blood of an Amateur Radio Club. Thus in early 2017, W1YSM explored the possibility of renting space at The Graduate Club on Elm Street in New Haven to establish an “interim” fixed station for W1YU. After discussing the possibility with Maria Bouffard in the Office of Emergency Management, as well as Yale’s Risk Assessment Office, Ed very generously signed a contract to personally pay for a 1 year lease for the club as well as insurance. The generous space boasted furniture, heat and light, privacy, security, rest room facilities, windows with easy access to a roof to facilitate erecting antennae, parking, and was convenient to campus.

During this time, it is hoped that the club will continue to build its membership, develop a plan for raising funds for our operating needs, and organizing an ongoing schedule of radio activities. Having a fixed station on campus will enable W1YU to attract more students, hold regular meetings, and operate the weekly net from a proper home for the station.

Below is the notice announcing the new station as it appeared on the W1YU website:

“NEW HAVEN *February 22, 2017* - For the first time since leaving 305 Crown Street in the early 1990s, the Amateur Radio Club at Yale has its first fixed location in New Haven.

At last night’s club meeting, members voted to approve the proposal that W1YU rent room at the Graduate Club on the New Haven Green to be used as a club house and to set up a fixed HF/VHF/UHF station at the site.

The idea initiated with W1YU Secretary & Treasurer, Dr. Ed Snyder, W1YSM, who has been instrumental in the recent revival of the Yale club as well as the on-campus amateur radio experience nationwide. Dr. Snyder recently funded the W1YSM Snyder Family Collegiate Amateur Radio Endowment to help the ARRL focus some of its efforts on getting college stations back on the air and active. Dr. Snyder, a professor at the Yale School of Medicine is a member of the Graduate Club and has generously offered to pay the rent on the new club space through the summer.

The New Home of W1YU



Last night's meeting was held at the Graduate Club so members could see the second floor space first-hand. Members have begun making offers to donate surplus and backup gear to build the HF station which we hope to have on the air soon. One of the bigger problems confronting W1YU is the placement of HF antennas; several ideas were proposed at the meeting last night.

It is hoped that having a permanent presence near campus will help attract additional student members who either already hold an amateur radio license or may be interested in earning their ticket. Plans for the space include holding all future club meetings and VE sessions there, participating in future contests and on-air events, and setting up a special event station during Alumni Week.

Following last night's meeting, Dr. Snyder hosted the weekly W1YU net from the Graduate Club, using his Yaesu handheld, coupled to a mag mount antenna affixed to a cookie sheet as a ground plane. Signal reports from AA6E, Martin, and K1RSU, Rich, stated it was Ed's best signal ever into the W1WPD/R repeater in Woodbridge!

Our next club meeting will be held at our new location on Monday, March 27, 2017 at 5:30 PM. The Graduate Club is located at 155 Elm Street in New Haven and W1YU is located in the 2nd floor conference room. All interested parties, whether licensed or not, whether Yale affiliated or not, are welcome to attend - come see what's happening at W1Y

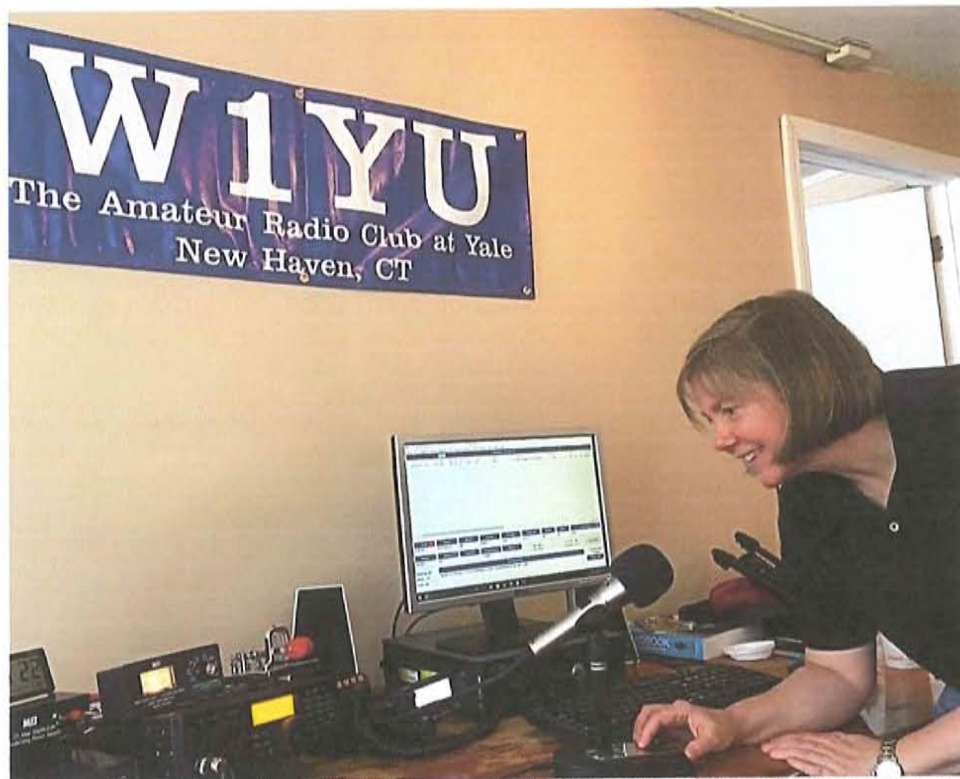
February 21, 2017



W1YSM, Dr. Ed Snyder, makes the first QSO from the new W1YU

The Club has held regular meetings at the Graduate Club station since opening in February. Leading up to Yale alumni reunions at the end of May, James, Scott and Ed installed and secured the station's antennas with the help of an electrician. The antennae that were installed were a Diamond X-50 UHF/VHF and G5RV HF long wire. The HAMS who helped in the installation were N3NFP, AB1DQ, W1YSM and a licensed electrician Mike Pascale. Martin AA6E provided a very generous contribution to help pay for the antennae and installation as well as mapping out the plan for the optimal antenna orientation. James AB1DQ provided most of the necessary radio

equipment on long-term loan to W1YU. N3NFP played a major role in purchasing key materials required for installation and KB1TXM participated in these efforts.

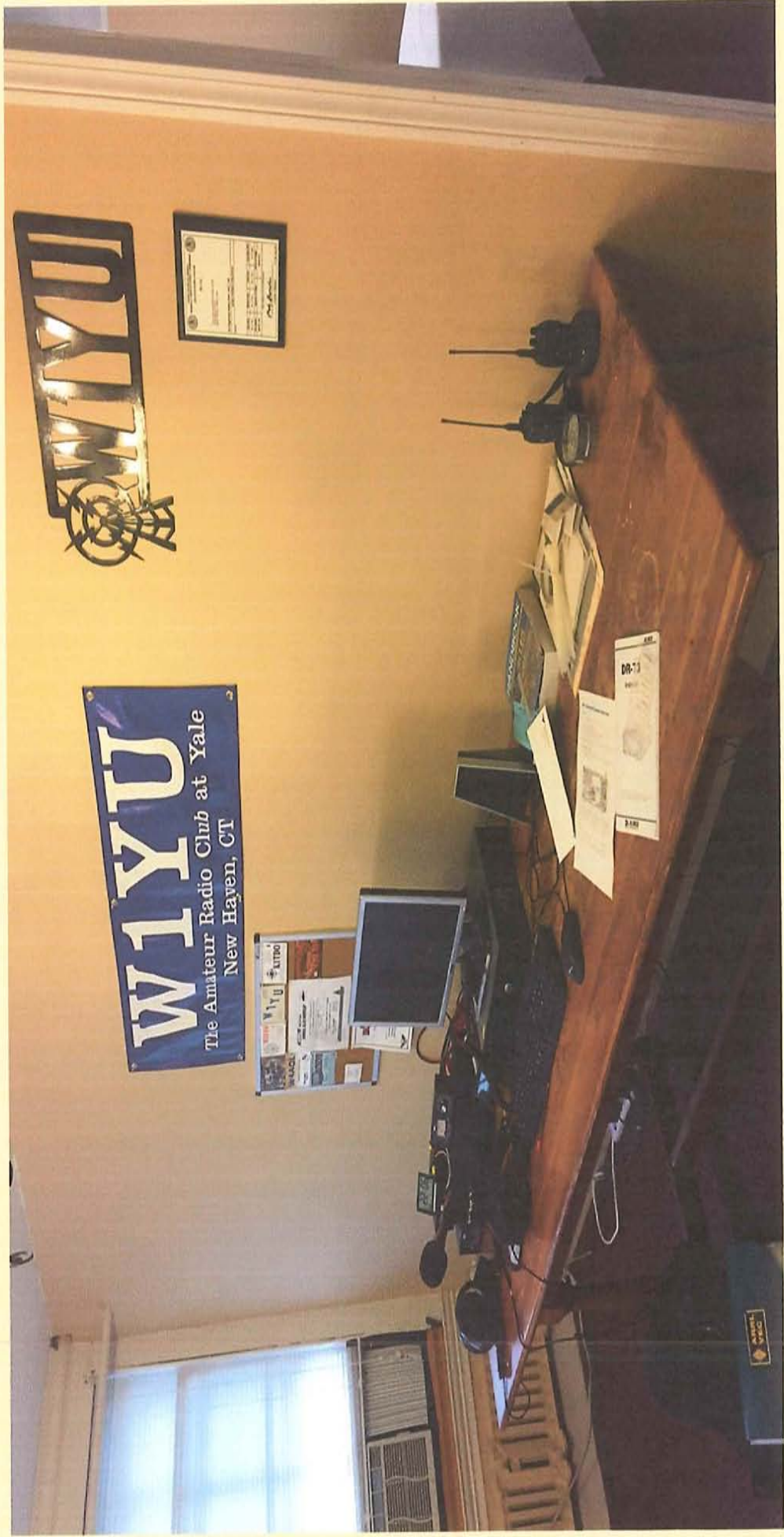


Yale license trustee, Monty Shepardson, KB1TXM, operating W1YU at the May 27 2017 Alumni Open Shack event



- (L) On Sunday, May 21, 2017, Secretary/Treasurer, Dr. Edward L. Snyder, W1YSM and President Scott Mattheson N3NFP install W1YU's new G5RV antenna on the rooftop of the Graduate Club. They were assisted by area electrician Mike Pascale. W1YU 1st VP, James M. Surprenant, AB1DQ was also on hand.
- (R)The antenna stretches diagonally across the rooftop of the Graduate Club and is anchored to two of the building's chimneys. The G5RV design was engineered by Louis Varney (G5RV) in 1946. The design is a basic dipole with 15.55 m elements, fed by 8.84 meters of impedance-matching symmetric 300 ohm ladder line. With use of a tuner, the G5RV is resonant from 80M - 10M. W1YU club operators have logged dozens of long distance (DX) contacts into Europe and Asia as well as with other hams in the US, Canada and Mexico.

Graduate Club Home of W1YU --- August 2017





THE ELM CITY CLUB

February 27, 2017

Dr. Edward Snyder
4 Jeremy Wood Drive
Wallingford, CT 06492

Dear Dr. Snyder,

This letter confirms our understanding regarding the rental of the Conference Room at The Graduate Clubhouse, 155 Elm Street, New Haven, CT.

This agreement will commence on March 1, 2017 for a period of six (6) months. The monthly rental fee is \$800 which will be billed to your member account each month.

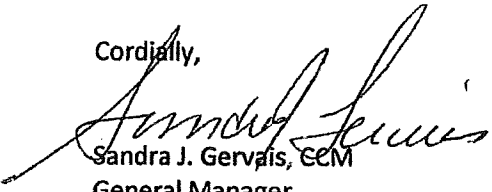
The Club will arrange for locks on both doors of the room and we will supply you with 4 keys. We will also supply 4 front door keys to access the building when the club is closed. It is our understanding that these keys will be given and used by only the officers of your club. During times when the building is closed the front door must remain locked, even when you are inside the building.

Any changes to the room that are of a permanent nature need to be approved by the club manager in advance of their implementation.

Your cooperation in respecting the privacy and noise volume for our other residents in the building is appreciated.

Thank you, we look forward to welcoming your group to the Club.

Cordially,

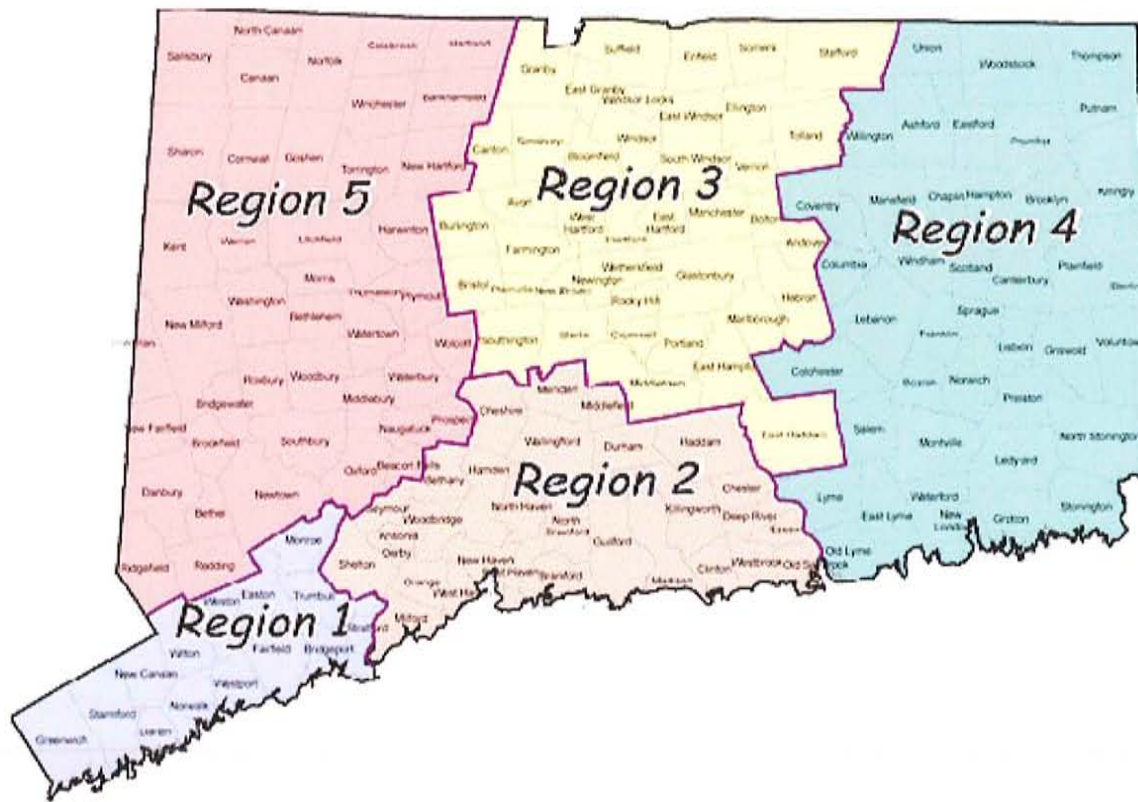

Sandra J. Gervais, CCM
General Manager

Section V – Affiliation with the Yale Office of Emergency Management

Maria Bouffard, Director of Emergency Management, attended our February 18, 2016 meeting with Stephen Woods, the deputy director, and they spoke about how W1YU can provide communications assistance to the university. Specifically, she spoke about how W1YU could help in the event of a loss of power on campus, and we also talked about ways we could serve in more routine situations that might require extra communications, like Commencement. Maria mentioned that CT ARES does a weekly radio test and that we might consider participating.

On February 21, 2016, Monty Shepardson met with Douglas Sharafanowich WA1FSH in Milford to discuss how W1YU could ramp up its activities and participate in the Connecticut Amateur Radio Emergency Services (CT ARES), for which Douglas is Region 2 Coordinator, which includes New Haven, Milford and several surrounding towns. CT ARES can be found on the web at: www.ctaresregion2.org. Douglas holds a weekly net called “Region 2 Ready Net” for hams to test their equipment and check-in on Monday night, 7:45 p.m. to 8:00 p.m., 442.500. Region 2 is divided into seven sections (New Haven is “Central 2”).

CT ARES (AMATEUR RADIO EMERGENCY SERVICES) REGIONS



CT ARES REGION 2

CT ARES - REGION 2
ZONE MAP
12-19-2011



As of August 2017, W1YU is talking to the Yale OEM about participating more actively in the 2017-2018 academic year, in the National Weather Service SKYWARN program through W1YU. SKYWARN amateur radio spotters, monitor dangerous weather conditions and notifies the NWS. This would be as part of an increased public service outreach effort for Yale University through W1YU.





ARRL *The national association for* **AMATEUR RADIO™**

EMERGENCY COORDINATOR

This certifies that

Edward Snyder, W1YSM

has been appointed a leadership official in the ARRL Amateur Radio Emergency Service for SKYWARN New Haven-Middlesex Counties in the Connecticut Section and agrees to abide by the rules of the ARRL Field Organization. This appointment shall remain in effect for a term of two years from the last date indicated hereon unless sooner terminated by the authorized ARRL official.

August 3, 2017

Date of Appointment

NN1N

Membership and Volunteer Programs Manager

Authorizing Official

W1YU Public Service Plans Going Forward

- **Integrate into OEM at Yale**
- **Expand SKYWARN Activities**
- **Identify areas where W1YU can serve/support OEM**
 - **Yale Sporting events**
 - **Weather emergencies**
 - **Campus activities**
 - **Recruit Undergraduates/Post Docs into public service aspects of AR**
 - **Provide PR opportunities for Yale through off-campus SKYWARN activities**
 - **Other**

Section VI – W1YU Net

An Amateur Radio “Net”, short for “network,” is simply an on-air gathering of ham radio operators on a specific frequency at a specific time. Nets are a way for amateur radio operators to check their equipment, pass “traffic” or messages through a network of operators to an intended recipient, or just have an informal conversation.

The W1YU Net, through the regularity of its on-air presence and the expertise of its Net Control Operators, has quickly become the foundation of the W1YU revival. Initiated by Ed Snyder and James Surprenant, the W1YU net is a regular event on Tuesday nights at 8p (2000 ET) on 442.500 MHz (DCS 073). In April 2016, W1YSM contacted Brian K1SOX, the owner of three area repeaters affiliated with the Shore Point Amateur Radio Club who recommended the 442.500 W1WPD repeater to us and authorized W1YU’s use on Tuesday nights. Ed and James drafted a script for our net, which is an informal but directed net and welcomes all amateur radio operators, not just members of W1YU. We have check-ins from local members, hams around Connecticut, and have also built up a steady number of check-ins through Echolink from operators as far away as Michigan and California. Echolink is software for the computer or smartphone which allows an operator to access a frequency through internet or cell service. During each net, there is a “Discussion Topic of the Week” for people to comment on, and often announcements of upcoming radio events are shared with the net. In 2016-2017, Ed and James have served as Net Control for all of W1YU’s nets, with Ed assuming primary responsibility for this activity. A sample of the Net Check-In Reports can be found in Section VI.

W1YU # of Weeks OnAir	Mean # Check-Ins	Mean Length of Net (min)
63	7	38

Amateur Radio Club at Yale W1YU

W1YU Net Script

Tuesday Nights 2000 pm Eastern Time

W1WPD Repeater
[442.500 MHz; DCS 073 ; + 5MHz offset]
EchoLink *NEW-ENG* Conference Node 9129
IRLP 9120

1958 ET

"This is **W1YSM --- WHISKEY 1 YANKEE SUGAR MIKE** - Does anyone need to use the **W1WPD** repeater before I start tonight's Yale Amateur Radio Club W1YU net in 2 minutes?"

2000 ET

I. STARTING THE NET

Are there any stations with "EMERGENCY" or PRIORITY TRAFFIC before I start tonight's Yale Amateur Radio Club W1YU Net ?"

"Please call now."

Drop carrier

Address the Emergency Need or say

"Nothing heard"

"CALLING YALE, CALLING YALE, CALLING YALE

"Calling the Yale Amateur Radio Club NET WIYU"

"Calling the Yale Amateur Radio Club NET WIYU"

"This is WIYSM - your Net Control Station."

"My name is ___ED_____ and, I am located in the town of WALLINGFORD ."

"The Yale Amateur Radio Club NET WIYU is a weekly Net meeting every TUESDAY evening at 8:00 PM (Eastern), on the Woodbridge WIWPD 442.500 DCS 073 Repeater, AND via EchoLink on the *NEW-ENG* Conference Node 9129 and Node 9120 on IRLP, for the purpose of:"

- **Passing Emergency, Priority and Routine Traffic**
- **Sharing Club related discussions, general comments, and announcements**
- **Discussing the "Topic/Question of the week."**
- **If you wish to comment on the Topic/Question of the Week, please do so during any of your Net turns"**
- **This week's Topic/Question is _____:"**

"This is a DIRECTED NET, an INFORMAL NET, and all licensed amateurs, with an interest in, or information for, this Net, are welcome and encouraged to Check-In. You do not need to be a member of WIYU." All licensed amateur radio operators are welcome to check-in.

"To check into the net please say "THIS IS", drop your carrier and listen for doubles and the courtesy tone....."

Drop your carrier and wait for the courtesy tone

"Then please give your call sign, (first) name, location (QTH) and whether you have any traffic for the Net. - " PLEASE HELP THE NCS AND GIVE YOUR CALL SIGN SLOWLY AND PHONETICALLY

"During the Net, the Net Control station will call each checked-in station and then the checked in station will pass the signal back to Net Control"

TRAFFIC SECTION:

If there any Stations wishing to pass traffic into or out of Connecticut, W1YU will take the traffic and bring it to either the WesCon or Nutmeg ARRL Traffic Nets to have it passed. Formatting can be done by the NCS if desired.

SECURING

If you need to SECURE from the Net while it is in session, please request permission to secure when checking-in, during a turn when commenting, or during a call for further check-ins. This courtesy will ensure we are not requesting comments from you when you have already secured or are off-frequency.

NOTE: Every 10 minutes identify your Call Sign and the Net ID and call for additional check-ins

"I will now take a list of check-ins, starting with Mobile Stations,"

"Mobile stations please call Now."

Drop your carrier

"The next call-up is for EchoLink stations. EchoLink stations, please call now."

Drop your carrier

"The next call-up is for any other stations wishing to check in to the Yale Amateur Radio W1YU Net, Please call Now."

NOTE: Log the stations, recognize and thank individual stations for checking-in

If anyone has Traffic, recognize their Call Sign and say "PLEASE LIST"

TAKE TRAFFIC

AFTER ANY TRAFFIC IS PASSED, BEGIN INFORMAL NET

When all Check-Ins are complete:

II. BEGIN THE NET

Call first station, starting with mobile stations....

Every 10 minutes identify yourself and the Net and call for additional check-ins.

"Any additional check-ins for W1YU, the Yale Amateur Radio Club Net, please call now"

RUN THE NET

III. ANNOUNCEMENTS

“I have the following club-related announcements”

Drop Carrier

OR

**“Are there any other announcements or business from anyone checked-in?
Call Now.....”**

Drop Carrier

OR “None Heard.....”

IV. CLOSING THE NET..

**“Before we close, are there any ADDITIONAL LATE check-Ins to the Net? Please call
now”**

Drop carrier

or “None Heard.....”

V. THE CLOSE

“Thank you all for checking-in to tonight's Yale Amateur Radio Club W1YU Net.”

“We thank”

Acknowledge all check-ins by first name and call sign as recorded on the Net Log for that day

Please encourage other licensed amateur radio operators to join us here every TUESDAY night at 2000 pm Eastern Time on the W1WPD repeater, 442.500 DCS 073”, or on EchoLink or IRLP.

“We would like to thank the owner and trustee of STATION W1WPD for use of the repeater and SPARC, the Shore Point Amateur Radio Club, for coordinating and scheduling this net. Their generosity makes the Yale Amateur Radio Net W1YU possible at this time.”

“This is **W1YSM closing the W1YU Net @ _____ (Eastern Time) and returning the W1WPD repeater to regular amateur use.**

“Good night, W1YU Clear”

VI. END OF NET

W1YU NET SCHEDULE

March 19, 2017

Dear James:

Below is the W1YU Net Control Schedule for April - June 2017 for the:

W1WPD Repeater Tues at 8pm 442.500/+ /DCS 073 ; EchoLink *NEW-ENG* Conference Node 9129

April 4	James	AB1DQ	
April 11	Ed	W1YSM	
April 18	Ed	W1YSM	
April 25	Ed	W1YSM	W1YU Club Meeting
May 2	Ed	W1YSM	
May 9	Ed	W1YSM	
May 16	Ed	W1YSM	
May 23	Ed	W1YSM	W1YU Club Meeting
May 30	James	AB1DQ	
June 6	James	AB1DQ	
June 13	Ed	W1YSM	
June 20	Ed	W1YSM	
June 27	Ed	W1YSM	W1YU Club Meeting

Ed W1YSM

W1YSM@arrl.net

#53
1ST ANNIV.
1YR NET

W1YU YALE AMATEUR RADIO CLUB

Net Check-In Form

W1WPD Repeater

[442.500MHz ; DCS 073 ; +5MHz offset]

Date MAY 9, 2017 Time Start 2000 ET Time Stop 2059

Net Control W1YU/SM1/Ed (Name/Call) Location New Haven

Topic of the Week What have you done in AR the past year (I became a dem!)

No.	CALL	TYPE (m/f)	NAME (first)	LOCATION	Traffic	NOTES	IN/OUT
1	K1SDX		Brian	New Haven	0	147.500	
2	KC1HNI		Chris	Northford	0		
3	KC1EED		Brenda	New Haven	0		
4	N1ESE		Tony	Hamden	0	Opq antenna	
5	K1RSU		Rufus	New Haven	0		
6	W1TOD		Bery	New Haven	0		
7	AB1DR		James	New Haven	1	1/1	
8	KC1TYM		Mike	New Haven	0		
9	AA6E		Mike	Bradford	0		
10	N3NFP		Scott	Hamden	0		
11	K3OT		Hank	Milford	0		
12	AD8Y	44 tube - 51 w/they	David	Cheshire	0	Vacuum tube - <u>TR100E</u> <u>For detuned V-tube</u>	
13	KB1QHX		Nathan	Cheshire	0	CASE	
14	W1HBI		Peter	Dix Hills			
15							
16							
17							
18							
19							

W1YU NET CHECK-IN REPORT FOR July 25, 2017 [#64]

Start time 2000 EDT

Close time 2029 EDT

Station/Frequency: W1WPD Repeater 442.500 MHz, DCS 073, 70cm band

Operating Conditions: Generally quiet band, mostly full quieting.

Weather: 70F, cloudy, little wind, no rain

TOPIC OF THE WEEK – Where on earth or sky would you pick as your most exotic place to set up a station

NCS Controller: Ed W1YSM Wallingford (TS-2000 Kenwood, feeding a Diamond X50A vertical at 50W)

<u>Check-in Call</u>	<u>Name</u>	<u>QTH</u>	<u>Station</u>
AB1DQ	James	Cheshire, CT	ECHOLINK
N1ESZ	Tony	Hamden, CT	
AAGE	Martin	Branford, CT	
N3NFP	Scott	Hamden, CT	
KC1EEO	Brenda	New Haven, CT	
W1ZBI	Peter	Dix Hills, NY	

Topic of the Week: Various exotic places, mostly island in Pacific or Alaska
No traffic passed

Announcements: The W1YU Net has been On Air for 64 consecutive weeks.
Boxboro Convention will have 3.5 hours on Collegiate Amateur Radio.
Solar Eclipse coming. W1YU held Club meeting tonight at 5:30p

New Haven/Middlesex SKYWARN, Thursday night 442.500/DCS073 ; linked to 145.29 (PL 110.9)
Next week, August 1, 2017, NCS is Ed W1YSM; Check-ins were from 2 states including NY.

Respectfully submitted,

Ed W1YSM
Net Control W1YU
Secy/Treas W1YU

Section VII – CEID Workshops

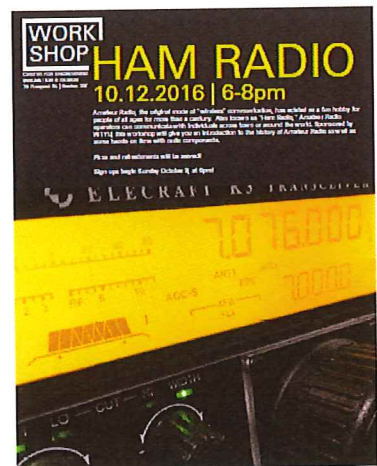
Early on, the W1YU officers realized that the Center for Engineering Innovation and Design at the School of Engineering & Applied Science would be the perfect location for amateur radio activities, given its location in the Engineering School and its membership of more than 2,000 people in the Yale Community. We advertised an Introduction to Amateur Radio in October 2016 and had an attendance of 25 students, which exceeded our sign-up maximum of 18 people. This event was very well-received and attracted one graduate student who became involved in the club and passed his license exam. As of February 2017, W1YU has held two workshops at the CEID as part of the “Wednesday Workshop” series.

James AB1DQ summarized each event:

1ST- CEID Wednesday Workshop – October 12, 2016

To recap last night at the CEID, we feel it went very well and exceeded our high expectations. We had eighteen members initially sign up for the presentation (the maximum), but actual attendance was in excess of that. I'd say conservatively there were at least 25 attendees for the presentations.

The introductory presentations were well received. Monty and I spoke about “what is amateur radio?” and the history of W1YU, Scott gave an exceptional introduction on digital modes, Connor spoke about EmComm and I concluded by discussing the “Maker/Builder Movement” as part of ham radio’s legacy that is strong today.



The break-out sessions went very well too. Scott demonstrated JT65 and digital modes while Kurt led students through a CW-keyer Arduino build. Monty demonstrated UHF communications with her handheld, allowing students to talk to the always-engaging AA6E Martin at home via the W1WPD repeater, and Connor and James demonstrated SSB and CW HF communications.

We ran into one technical glitch when we discovered one of the PL259 plugs was not properly attached to the feedline for the HF station, but we turned lemons into lemonade using the opportunity to demonstrate the resourcefulness of ham radio operators to repair gear in the field. Kudos to Kurt for making use of the CEID tools and repairing the feedline to get the HF station on the air. (Discovering you need to repair gear in the field at CEID is not unlike having your car breakdown at your mechanic’s garage – we made excellent use of the center’s soldering station to do our repairs!)

2ND CEID Wednesday Workshop – February 15, 2017

W1YU Kit Building Event at CEID a Success

Yale CEID students construct the 40M Easy Receiver kit

Yale School of Engineering Senior, Han Zhang, KC1GTO, led members of the Center for Engineering, Innovation and Design in a radio receiver kit building session last night. The event, attended by over 20 members of the CEID, began with a lecture by Han on the fundamentals of ham radio, how a basic radio receiver works, and a tutorial on soldering and kit building.



Students then paired off to build the Easy Receiver 40 meter direct conversion receiver kit offered by Pacific Antenna. W1YU thanks KA5DVS, James Bennett of Pacific Antenna for offering a student discount on the kits, helping make last night's event possible.

After CEID members completed their kits, W1YU president Scott Matheson, N3NFP, aligned each receiver to 7.250 MHz using his Elecraft K3 transceiver. Students were excited to hear the squeal of their radio's oscillator during alignment. After alignment, each receiver was tested as W1YU vice president, James Surprenant, AB1DQ, transmitted weak signal code using his Yaseu FT817 QRP transceiver connected to a Buddipole antenna set up in the lab.

Scott explained to students how they will be able to use their newly built receivers to tune to Morse Code signals on the 40 meter band, or connect their receivers to their computer sound cards to receive digital transmissions.

Also in attendance from W1YU was club Vice President for Digital Media, Kurt Heumiller, KB2ZUZ, who assisted students with the build and offered trouble-shooting services (largely unneeded), and W1YU Trustee, Monty Shepardson, KB1TXM, who assisted in inventorying components to make sure every student received a complete kit to build.

This was W1YU's second CEID event in as many semesters and we look forward to future joint endeavors.



KC1GTO, Han Zhang, provides an introductory lecture on ham radio & kit building.

Section VIII – Volunteer Exam Session

One of the hallmarks of an active radio club is the ability to administer the licensing exams to new and advancing hams. On December 5, 2016, W1YU administered its first Exam Session with three Volunteer Examiners (VEs). The Federal Communications Commission created the VE system to provide initial licensing examination for prospective new hams and upgrade examination opportunities for those already licensed. The ARRL oversees the work of their certified Volunteer Examiners (VEs) and serve as a liaison between the exam applicants and the FCC. Among the W1YU members, James AB1DQ, Ed W1YSM, Santo WG1S, and Martin Ewing AA6E are all authorized VEs. During the December 5 session, James AB1DQ, as the lead VE, was assisted by Ed W1YSM and Santo WG1S. They administered the Technician exam to Han Zhang, Yale College Class of 2017, who passed the Tech exam and then, in the same sitting, also passed the General exam. Han's call sign is KC1GTO. Han was the first student to take an exam through W1YU and receive an FCC license.

The good news is that Han, now KC1GTO, was our first licensed Yale Ham who received his ticket at W1YU's first VE session. The bad news is that as a Graduate Student, KC1GTO graduated in May 2017 and left Yale and the Club. This need for constant renewal of membership, is what makes sustaining activity among collegiate amateur radio clubs, so difficult.



Section IX – Communications – Social Media

Yale SCHOOL OF ENGINEERING & APPLIED SCIENCE

Undergraduate Study Graduate Study Faculty & Research Interdisciplinary Communities About

NEWS & EVENTS

News
Events
Yale Engineering Magazine

EXPLORE NEWS & RESEARCH

HAM RADIO AT YALE, 85 YEARS AND GOING STRONG

12/13/2010



Before the Internet and social media, there was amateur radio. Hobbyists flocked to it, communicating with others from across the globe, or just down the street. And then came, well, the Internet and social media – and the whole ham radio craze quieted down a bit. But some technology doesn't go away easily, and amateur radio is making a resurgence.

Making its own comeback is Yale's amateur radio organization, W1YU. Founded in the early 1930s, the Amateur Radio Club at Yale had a strong run for many decades, but activity started quieting down by the 1960s and '90s, as other technologies became shiny and new. But in recent months, the crackle, hiss and chatter of amateur radio systems is springing back to life in the Yale community and around New Haven. And indeed, the club has been going full force in the last year or so: earlier this semester, it hosted a very well-attended demonstration for Yale students at the Center for Engineering Innovation and Design (CEID), and it now holds regular meetings for members and prospective members in Dunham Lab. The club even recently received press in QST, the premier magazine for amateur radio in the U.S.

In February 2016, Ed W1YSM placed four ads in the Yale Daily News seeking potential new W1YU members interested in amateur radio from the Yale community. This was a way for W1YU to reach out to the campus community and we attracted two new undergraduate members through this effort. They were licensed hams and have participated in W1YU activities as their time has permitted.

W1YU has two listservs for its officers and members. Those listservs are: wlyu-

officers@mailman.yale.edu and wlyu-members@mailman.yale.edu. Prior to the revival of the club, we just used the officers email address for all of the local members. Upon becoming more organized in 2016, we dedicated the officers address for the five officers and the members list includes everyone who wants to receive communications about W1YU. We checked with the participants on the list to ask if they wanted to remain on the list and the vast majority of people for whom we had working email addresses indicated that they were excited to see W1YU become more active and that they wanted to remain on the list.

The club has also updated its website and created a Facebook page. The W1YU website address is: www.wlyu.sites.yale.edu. Scott Matheson and Kurt Huemiller did a wonderful job designing and updating the site. James Surprenant created the Facebook page at <https://www.facebook.com/deW1YU/> and has regularly posted news and information about the club. We have received a number of inquiries from potential new members, alumni who participated in the club during their time as students on campus, and people who were generally curious about amateur radio.

In December 2016, the School of Engineering & Applied Sciences (SEAS) online newsletter published an article about W1YU, entitled: "Ham Radio At Yale, 85 Years And Going Strong." The Yale Office of Public Affairs and Communications also featured this story at the top of its list in the weekly "Yale News" email that is distributed throughout the Yale community. This was a fantastic feature on the club and generated phone calls and emails from members of the Yale community interested in amateur radio. This story was not only published on the SEAS website (<http://seas.yale.edu/news-events/news/ham-radio-yale-85-years-and-going-strong>) but was also picked up by www.eham.net.

Yale SCHOOL OF ENGINEERING
& APPLIED SCIENCE

NEWS & EVENTS

HAM RADIO AT YALE, 85 YEARS AND GOING STRONG



12/13/2016

Before the Internet and social media, there was amateur radio. Hobbyists flocked to it, communicating with others from across the globe, or just down the street. And then came, well, the Internet and social media – and the whole ham radio craze quieted down a bit. But some technology doesn't go away easily, and amateur radio is making a resurgence.

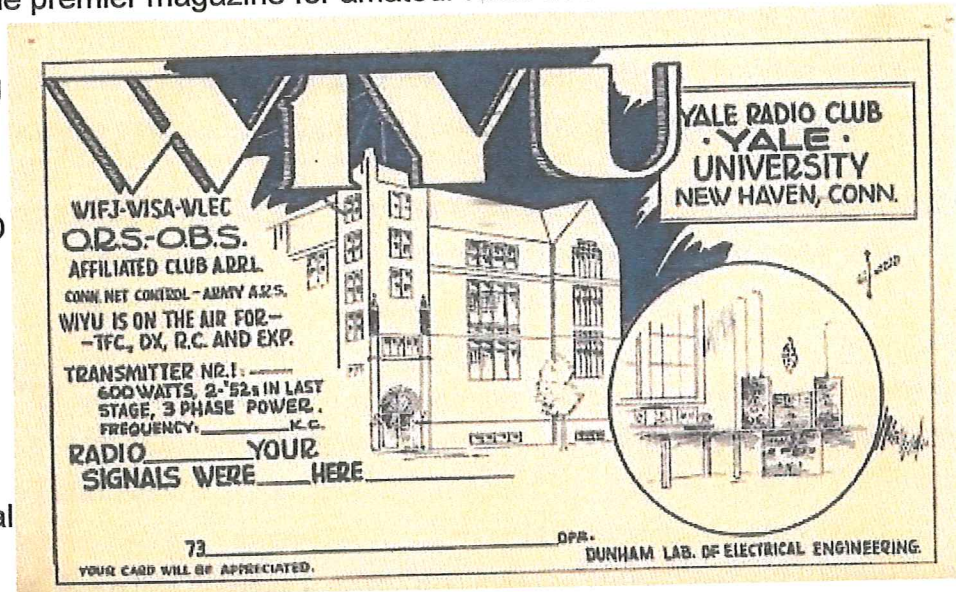


Making its own comeback is Yale's amateur radio organization, W1YU. Founded in the early 1930s, the Amateur Radio Club at Yale had a strong run for many decades, but activity started quieting down by the 1980s and '90s "as other technologies became shiny and new." But in recent months, the crackle, hiss and chatter of amateur radio systems is springing back to life in the Yale community and around New Haven. And indeed, the club has been going full force in

the last year or so: earlier this semester, it hosted a very well-attended demonstration for Yale students at the Center for Engineering Innovation and Design (CEID), and it now holds regular

meetings for members and prospective members in Dunham Lab. The club even recently received press in QST, the premier magazine for amateur radio in the U.S.

"In part, this is happening because it's a good fit with the maker movement, and the CEID is bringing together people from all different disciplines," said W1YU President Scott Matheson, an associate law librarian for Technical Services. "I think people are surprised at how much experimentation there is."



It's important for newcomers to the hobby to understand that a special license is required to become an amateur radio operator. There are three license classes issued through the Federal Communications Commission and W1YU members are available help those interested in obtaining a license understand the principles of radio and study for the required exam.

W1YU, which is open to all in the Yale community, promotes education about ham radio ("ham" and "amateur" are used interchangeably within the community) and provides opportunities to take part in traditional amateur radio activities. Members are also hoping to take a more active role in public service through its affiliation with Yale's Emergency Management Office.

For the first time in a while, the club has undergraduate students among its ranks. One of them is Connor McCann '18, a mechanical engineering major who received his ham radio operator's license when he was in eighth grade. People his age don't always see the relevance of ham radio, he said, but often come around when they learn more about it. For instance, he said, many don't realize how reliable it is as a form of communication. McCann has first-hand experience in that area, having worked several years as support for the Boston Marathon, which enlists ham radio operators to bolster its communications.

In 2013, the year of the Boston Marathon bombing, McCann was stationed on the course with a group of emergency medical technicians. When the bomb went off, "all the cell towers just

crashed and ham radio was, for a while, basically the only way that the EMT teams could contact their communication operators.”

“It’s very decentralized, and there’s no infrastructure for it,” he said. “So if there’s a terror attack, it’s very reliable because everyone can get on their kit and get on the air immediately.”

W1YU serves as a good platform to help either in an emergency or during regularly scheduled public events by offering a community of individual radio operators who can supplement existing communications and relay important messages.”

The club was founded in 1931 at the invitation of the Engineering school, which was looking to open a communications lab. The club was pretty active on the air in the 1930s. Due partly to the war, enthusiasm waxed and waned in the 1940s, but held strong in the ‘50s. In 1957, the club made news when it monitored the transmissions of Russia’s satellite, Sputnik. And in 1961, Prof. James Douglas (then the president of W1YU) and his researchers were measuring emissions from Jupiter. W1YU members built antennae as part of the project.

The DIY aspect of ham radio culture is also a big part of its recent surge in popularity, said James Surprenant, W1YU’s current First Vice President.

“Ham radio is the only affiliated radio service in which users are encouraged to build radios,” said Surprenant, a laboratory medicine grants administrator. That, he said, aligns it nicely with the maker movement that’s emerged in recent years.

Officials at ARRL, the go-to organization for amateur radio enthusiasts in the U.S., cited the recent success of W1YU’s forum at the CEID on college-related amateur radio, as one of the inspirations for a new initiative to promote ham radio at universities across the U.S. Its Collegiate Amateur Radio Initiative (CARI), which has a Facebook group to provide students and faculty involved with college ham radio clubs a way to interact, share projects, and connect with their peers.

Monty Shepardson, director of development for the Peabody Museum, has helped spearhead the club’s recent revival. The broad applications of ham radio have also contributed to its enduring popularity. For instance, she noted, amateur radio enthusiasts often engage in “storm spotting” – observing extreme weather patterns and relaying the information by radio to local authorities.

“It’s almost like amateur radio is so old that it’s new again,” she said. “Undergraduates are beginning to realize that there are many applications to many disciplines, including astronomy,

physics, math and engineering,” she said. “After a period of much lower interest, the state of student engagement is on the rise.”

For more information about W1YU, go to <http://w1yu.sites.yale.edu> or to Facebook at: <https://www.facebook.com/deW1YU/>.

Section X – Conferences

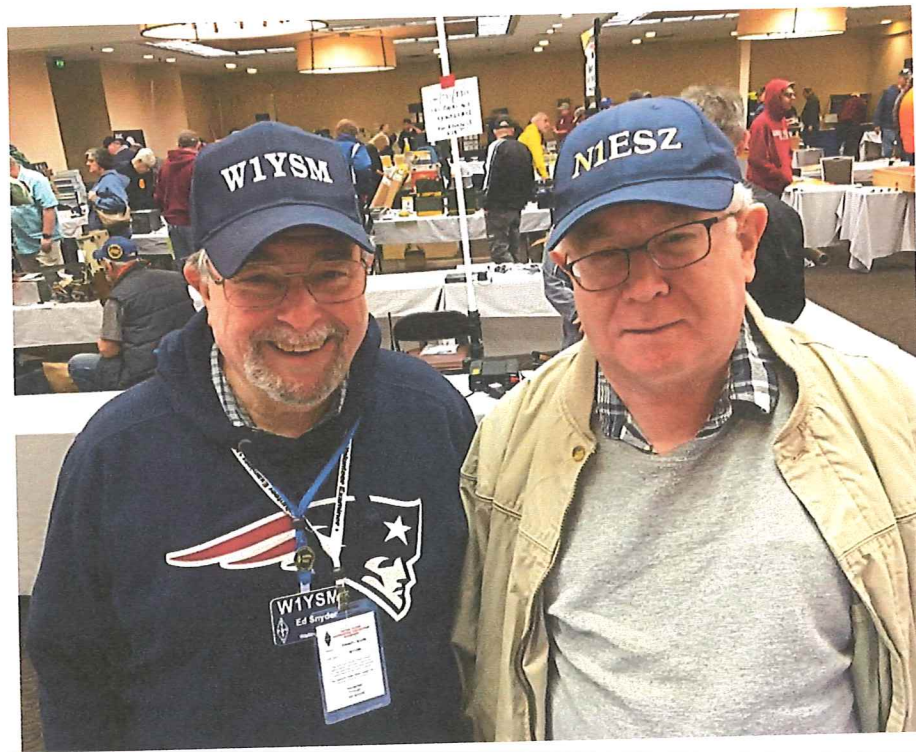
Members of W1YU participated in several amateur radio conferences in the last year:

Boxboro – September 9-11, 2016 in Boxboro MA

James AB1DQ from the Yale W1YU Club presented the history of Yale's Club and Douglas Maggs presented Harvard's history as a radio club, to a full room of about 50 people at the Boxboro Ham Convention. Ed W1YSM also gave a presentation on reviving ham radio on college campuses today. This topic was and is, of great interest to the ARRL and the new CEO Tom Gallagher, NY2RF, who is seeking to raise awareness of amateur radio at the college level. W1YU is positioned to be a leader in this effort

Nutmeg Hamfest – October 2016

Dr. Edward L. Snyder, W1YSM and James M. Surprenant, AB1DQ set up an informational table at the ARRL Connecticut Conference at the Sheraton Four Points Hotel in Meriden on October 16, 2016. The W1YU table featured a presentation on the club's history and several silver-haired hams stopped by to reminisce about working W1YU 'back in the day.' A Technician License study guide was auctioned off and several visitors signed up to receive club news electronically.



Edward L. Snyder W1YSM and Tony Niesz, N1ESZ, at the W1YU table at 2016 Nutmeg Hamfest

The Amateur Radio Club at Yale University

W1YU

Proudly announces

THE SECOND ANNUAL COLLEGIATE AMATEUR RADIO INITIATIVE SYMPOSIUM AT BOXBORO

Join us Sunday, September 10th 2017 from 8:30 am – noon
to gather with ham radio friends from other
colleges and universities to meet, greet,
and discuss topics of shared concern.

OUR PROGRAM:

- | | |
|---------------------|---|
| 08:30 am – 10:00 am | Featured guest collegiate club presentations by: <ul style="list-style-type: none">- W8SH Michigan State University- W8EDU Case Western Reserve University- W2KGY United States Military Academy- N3HAC Harrisburg Academy |
| 10:00 am – 11:00 am | CARI OTA Special Event planning round table discussion |
| 11:00 am – 12:00 pm | Town Hall Forum w. ARRL CEO Tom Gallagher, NY2RF |

REGISTRATION FOR THE
ARRL NEW ENGLAND AMATEUR
RADIO CONFERENCE IS ONLINE
AT WWW.BOXBORO.ORG

FOR MORE INFO ON THE CARI
SYMPOSIUM, CONTACT
W1YSM, ED SNYDER
AT W1YSM@ARRL.ORG



THE BOXBORO CONFERENCE
RUNS FROM SEPT 8 – 10 AT THE
BOXBORO REGENCY HOTEL
242 ADAMS PL, BOXBORO MA

PLEASE CHECK YOUR
CONFERENCE PROGRAM FOR
THE ROOM LOCATION
OF THE CARI SYMPOSIUM

Section XI – Activity with the ARRL

The American Radio Relay League, is the national association of Amateur Radio located in Newington, CT. W1YU has been an ARRL Affiliated Club since its inception in 1931. Over the past two years, W1YU has strengthened its connections to the League through our mutual interest in CARI.

A growing number of campus radio clubs and student radio amateurs have begun to share ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative (CARI) Facebook page, which is aimed at sparking renewed participation, activity, and idea-sharing among this special sector of the Amateur Radio community. The now-expanded initiative stemmed from two well-attended ARRL New England Division Convention forums for radio amateurs attending college, one hosted by the Amateur Radio clubs at Harvard (W1AF) and Yale (W1YU). As the forum explained, the activity level at campus Amateur Radio club stations can vary wildly from one year to the next, as students graduate and newcomers arrive.

“The most common difficulty stems from uneven interest over time,” said ARRL CEO Tom Gallagher, NY2RF, in his “Second Century” editorial, “Cheers for College Amateur Radio: Sis-boom-bah!” in December 2016 QST. “Even the strongest leaders in college Amateur Radio graduate every 4 years, sometimes leaving their clubs without adequate continuity or leadership succession.”

Gallagher pointed out that “recognized” student activities require students in order to maintain that status. However, even officially recognized college club stations may find themselves at the mercy of administrations in terms of space for a station and antennas, and some clubs have had to move more than once to accommodate their schools’ space requirements. Issues involving safety and security can also affect college radio clubs.

In a recent post, Kenny Hite, KE8CTL, a graduate teaching assistant at West Virginia University, said the university’s Amateur Radio club, W8CUL, has been unable to participate in recent on-the-air events “due to lack of working equipment and questionable antenna setups,” as he put it. “We are working to identify working equipment/coax lines.” Another poster, Dennis Silage, K3DS, who’s associated with the Temple University Amateur Radio Club (K3TU), said, “A key to a successful and long-running college club seems to be faculty involvement for stability and recognition.” He invited other CARI participants to check out the club’s website to see what members have been doing.

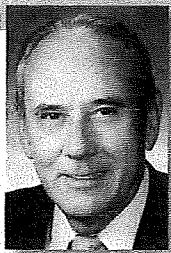
“It occurred to us that, if college Amateur Radio could galvanize [mutual interests], then colleges might just provide the ideal bridge between youthful interest in the subject and lifelong participation in our community,” Gallagher wrote.

Some ideas are already being suggested, and the Facebook page has spurred communication among an ever-widening network of those involved or interested in Amateur Radio on campus, from students, faculty members, and administrators to college radio club alums. One suggestion has been to harness the competitive nature of colleges to organize operating events — perhaps with “conferences” resembling those for sports — to keep interest alive.

ARRL received permission to rebrand the Collegiate Amateur Radio Operators Facebook group, initially organized by Sam Rose, KC2LRC, as the ARRL Collegiate Amateur Radio Initiative. All collegiate radio amateurs, clubs, and alumni are invited to participate and to get involved in activities that advance the art and enjoyment of Amateur Radio. All suggestions are welcome.



ARRL Expnds Initiative to Fire Up Collegiate Amateur Radio Clubs, 11/30/2016
<http://www.arrl.org/news/arrl-expands-initiative-to-fire-up-collegiate-amateur-radio-clubs>



Tom Gallagher, NY2RF — tgallagher@arrrl.org
ARRL Chief Executive Officer

Cheers for College Amateur Radio: Sis-boom-bah!

“Dating back to 1867, the onomatopoeic phrase “sis-boom-bah” imitates the sound of a skyrocket flight (sis), the burst of the fireworks (boom), and the reaction of the crowd (ah). College Amateur Radio clubs offer the ideal bridge between youthful interest and lifelong participation in our community — and they’re regaining popularity.”

When we asked the organizers of Boxboro — the ARRL New England Division Convention held in Boxborough, Massachusetts — to arrange a college Amateur Radio forum last September, we had no idea that the response would be overwhelming. ARRL HQ staffers Sean Kutzko, KX9X, and Bob Inderbitzen, NQ1R; ARRL Lab volunteer Dr. Martin Ewing, AA6E, and I feel a little bit like the dog who caught the school bus. To begin with, and almost on a whim, ARRL held two forums at Boxboro, to standing-room-only attendance. Representatives from New England schools attended in numbers we hadn’t expected. And the post-event e-mail and telephone traffic has been gratifying. We’ve had colleges and universities from across the country and around the world step up to participate or comment.

The first of the two forums was hosted by Yale’s W1YU and Harvard’s W1AF. Each organization presented a timeline history that spanned nearly a century. Attendees heard about the almost identical experiences of these two clubs, facing waxing and waning fortunes as Amateur Radio rose and fell in popularity over the years. The record, as Harvard’s club president Douglas Maggs, KK4UHK, remarked, is somewhat sinusoidal, and Yale’s experience — as well as that of other clubs attending — matched Harvard’s.

The most common difficulty stems from uneven interest over time. Even the strongest leaders in college Amateur Radio graduate every 4 years, sometimes leaving their clubs without adequate continuity or leadership succession. As Yale has demonstrated, capable administrators can fill the breach, but at colleges, “recognized” student activities still require students in order to maintain their recognition.

Add to this the constant upheaval of moving from space to space as a university’s needs change. Both clubs have been plagued by fires, thefts, and administrative foreclosure over the years. Moreover, fewer universities permit students or faculty to climb towers, push cables through walls, or make major modifications to their designated space without serious administrative oversight. Everybody seems to share the same squawks and face many of the same challenges.

We came away from Boxboro with the sense that there is a vital college radio interest, and we might be on to something. Then the cards and letters started pouring in. On the Monday following the event, Army Captain Matt Sherburne, KF4WZB, the faculty advisor of the US Military Academy’s station, W2KGY, contacted me. The day after that, I spoke with Martin Atherton, G3ZAY, at Cambridge University Wireless Society’s station, G6UW. The Citadel followed. Dartmouth College checked in. The University

of Arkansas. Scott Westerman, W9WSW, at Michigan State University. Agnes Scott College in Decatur, Georgia, a women’s college of about 1,000 students. I could go on, but you get the point.

It occurred to us that, if college Amateur Radio could galvanize these interests, then colleges might just provide the ideal bridge between youthful interest in the subject and lifelong participation in our community. With the demands placed on undergrads in colleges today, early pursuits often fall victim to a grinding course of study and competing social activities. The possibilities of college are exciting: West Point conducts high-altitude balloon launches, but also operates outreach programs in which more than 100 Latino students from all five boroughs of New York City have the opportunity to engage with Cadets and the technologies used in Amateur Radio. Like all colleges, the service academies are competitive. Captain Matt suggested a competition with Annapolis. One of QST’s leading advertisers suggested a new set of college brackets for Big Ten, ACC, Ivy, NEC, WAC, PAC-10, MAC, for college-oriented contesting and other GOTA events — just the thing we’re looking for to advance the art and enjoyment of Amateur Radio.

As for advancing the science of Amateur Radio, the world’s college talent can and will make enormous contributions. ARRL can kick-start that process by sponsoring a technical competition open to members of college Amateur Radio Stations. Would the ladies from Agnes Scott College care to whoop the geeks from MIT? Your suggestions would be welcome here at HQ. And to provide a channel for all that high-octane energy, ARRL has received permission to re-brand the Collegiate Amateur Radio Operators Facebook group as the ARRL Collegiate Amateur Radio Initiative, thanks to group admin Sam Rose, KC2LRC. You can find the group at www.facebook.com/groups/ARRLCARI. Whether you are a student, faculty member, administrator, or radio club alumnus, we need your involvement. Join us.

On a warm Sunday in September, we heard that rocket, saw the flash, and felt the crowd’s roar. I am deeply indebted to Martin, AA6E, and especially to Yale’s Dr. Ed Snyder, W1YSM, who has been an Amateur Radio operator for less than a year, for lighting the spark of this event.

Now where are my beloved Quakers?

73,

Tom Gallagher NY2RF

Section XII – Conclusion and Areas of Future Focus – as of September 2017

- A. CEID – Maker Faires for undergraduates**
- B. SKYWARN – Integrate with OEM Maria Bouffard’s Office**
- C. RECRUITMENT – undergrads, PostDocs, Faculty, Staff**
- D. FIXED, FIXED SITE – Need a permanent site supplied by Yale University**
- E. CARI – Need get OnAir as often as possible**
- F. VE SESSIONS/ LICENSE TRAINING CLASSES**
- G. INTERACT WITH OTHER YALE CLUBS AND NATIONAL AR CLUBS**

W1YU Goals 2017-2018

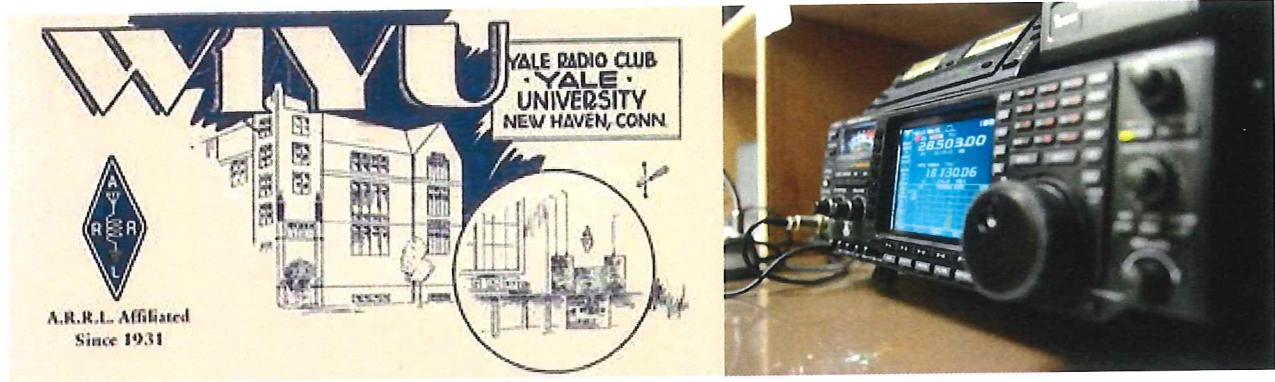
- I REINVIGORATE (and Maintain) W1YU Amateur Radio Club at Yale**
- II ATTRACT/GENERATE new club members & amateur radio operators**
- III INTEGRATE Public Service activities with Yale OEM**
- IV ESTABLISH robust communications**
- V SUSTAIN partnership with ARRL**

Attract/Generate New Club Members & Radio Amateurs –

Integrate Into the Collegiate Experience

- **Relate to college curriculum (physics, astronomy, digital modes, satellites)**
- **Promote scientific inquiry (radio theory)**
- **Promote scientific experimentation (antenna design)**
- **Provide recreational value (nets, chat rooms)**
- **Provide a service to the University (road races, monitoring student events)**
- **Relate to University Public Service OEM Mission (ARES/RACES/SKYWARN)**

EARN YOUR AMATEUR RADIO LICENSE AT YALE



W1YU, the Amateur Radio Club at Yale University is offering a Technician License class and exam session for interested students, faculty and staff

If you ever wanted to get on the air with ham radio, here is your opportunity! We will cover all material needed to pass the 35-question FCC Element 2 Technician Written Exam. The exam covers basic regulations, operating practices and electronics theory, with a focus on VHF and UHF applications. Morse code is not required for this license.

With a Technician Class license, you will have all ham radio privileges above 30 MHz, including the the very popular 2-meter band. Many Technician licensees enjoy using small hand-held radios to stay in touch with other hams in their area. Technicians may operate FM voice, digital packet (computers), television, single-sideband voice and several other modes. You can even make international radio contacts via satellites and Technician licensees now also have additional privileges on certain HF frequencies

2017

Five 2 hour classes will be taught by W1YU members on September 26, 28, 30 and October 3 and 5. A review session will be offered on October 7 followed by the exam. Our weekday sessions will run from 5:30 – 7:30 pm and the Saturday sessions will start at 1:00 pm.

All sessions will be held at the W1YU Station and Clubhouse located on the 2nd floor of the Graduate Club, 155 Elm Street in New Haven.

For more information or to sign up for the course, please contact either Scott, N3NFP at scott.matheson@yale.edu or James, AB1DQ at james.surprenant@yale.edu.

CONNECT WITH W1YU, THE AMATEUR RADIO CLUB AT YALE:

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