

History of The Case Amateur Radio Club and W8EDU

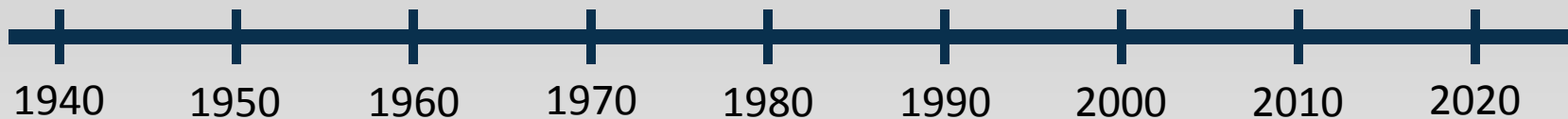
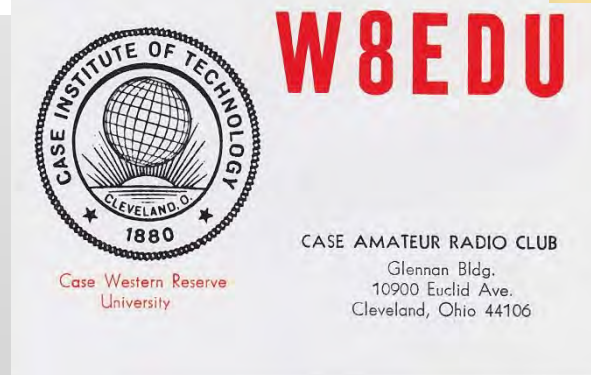
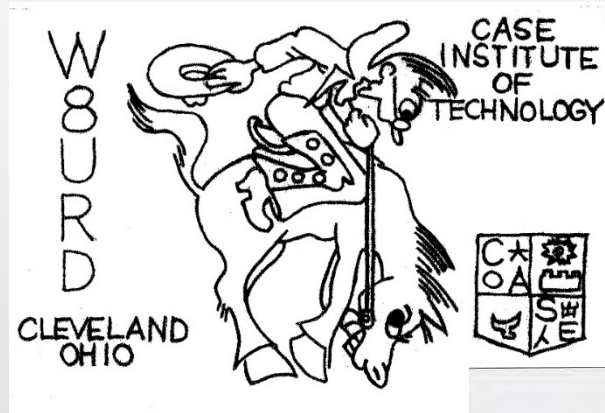
James M. Galm, W8WTS

HamSCI Workshop 2019 – 23 MAR 2019

Case Western Reserve University

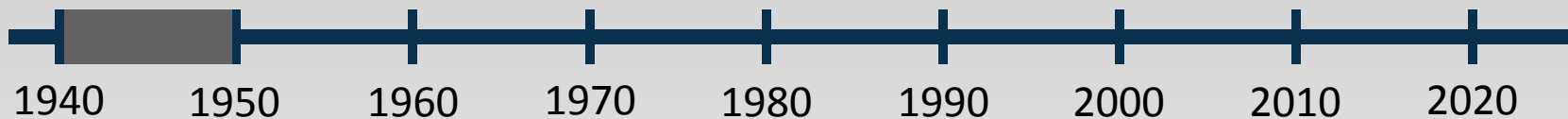
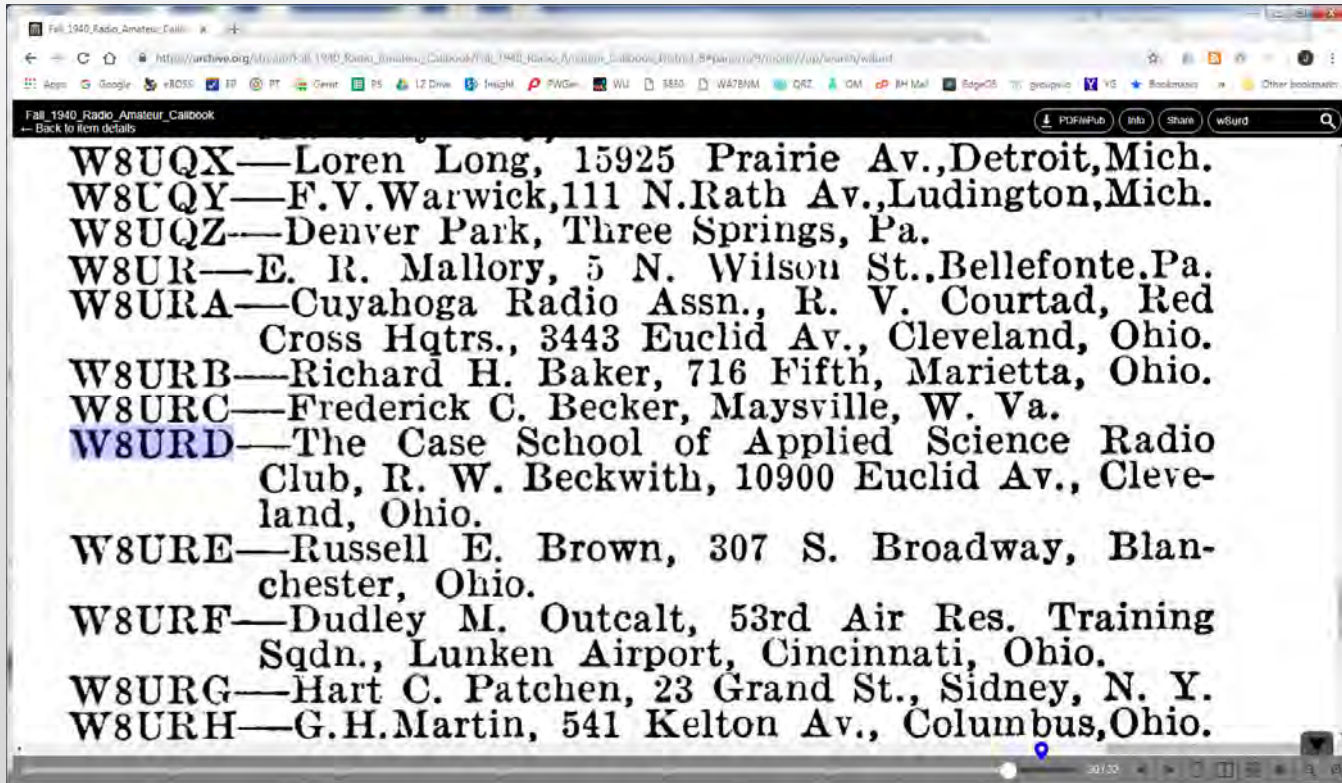
Cleveland, OH

Let us follow the time line.



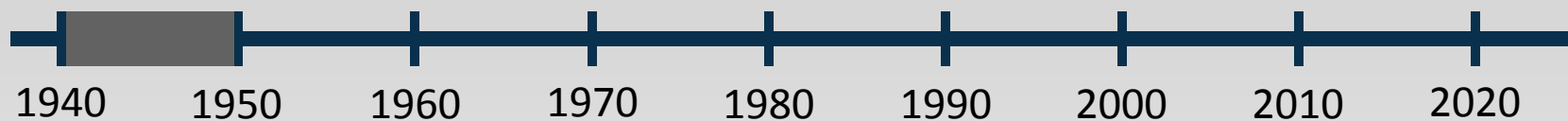
Early Years – W8URD

- W8URD was assigned in 1946.



Early Years – W8URD

- R. W. Beckwith was W800Q.
- His last appearance in the CB was in 1941.
- Spring 1957 issue of Theta Tau Magazine.



Early Years – W8URD

- In the initial year of 1946, John D. Johannesen was the faculty advisor.

MEMBERS OF CASE INSTITUTE OF TECHNOLOGY RADIO CLUB *HKK!*

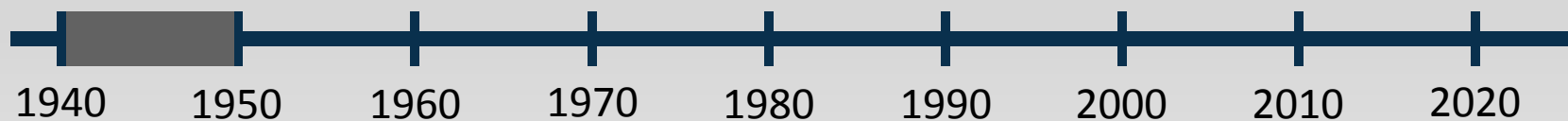
April 1, 1949

John D. Johannesen	W3KHZ	Faculty Advisor
Don J. Karbo	W3UNA	President
Allen E. Lepley	-	Vice President
Hal J. Braschwitz	W3YPT	Secretary
Bob P. Borofka	W3DER	Chief Engineer
Vic Miesek	W3TQH	
Jim Kauer	W3DFD	
Dick Wiltshire	W3ZKK	<i>OH YEAH! JIM BOROWY</i>
Chuck Streater	-	
Jerry Lowenstein	W3RDE	
Earl Bake		
Dick Heckleman		
Jack Mowry	W3MKA	
Jerry Kilroy	-	
Francis Wirth	-	
Al Lehman	-	
Harold Lee	-	
Ted Sandy	-	
Ray Daniels	-	
Jim Marshall	W3PJU	
Gordon Green		
Steve Hmelar	W3LQD	
Bob Bowerman		
Chuck Wallace		
Kurt Lewis		
Don Kauer		
Dick Bell	W3VEA	
Bob Furlong		
Roger Reeves		



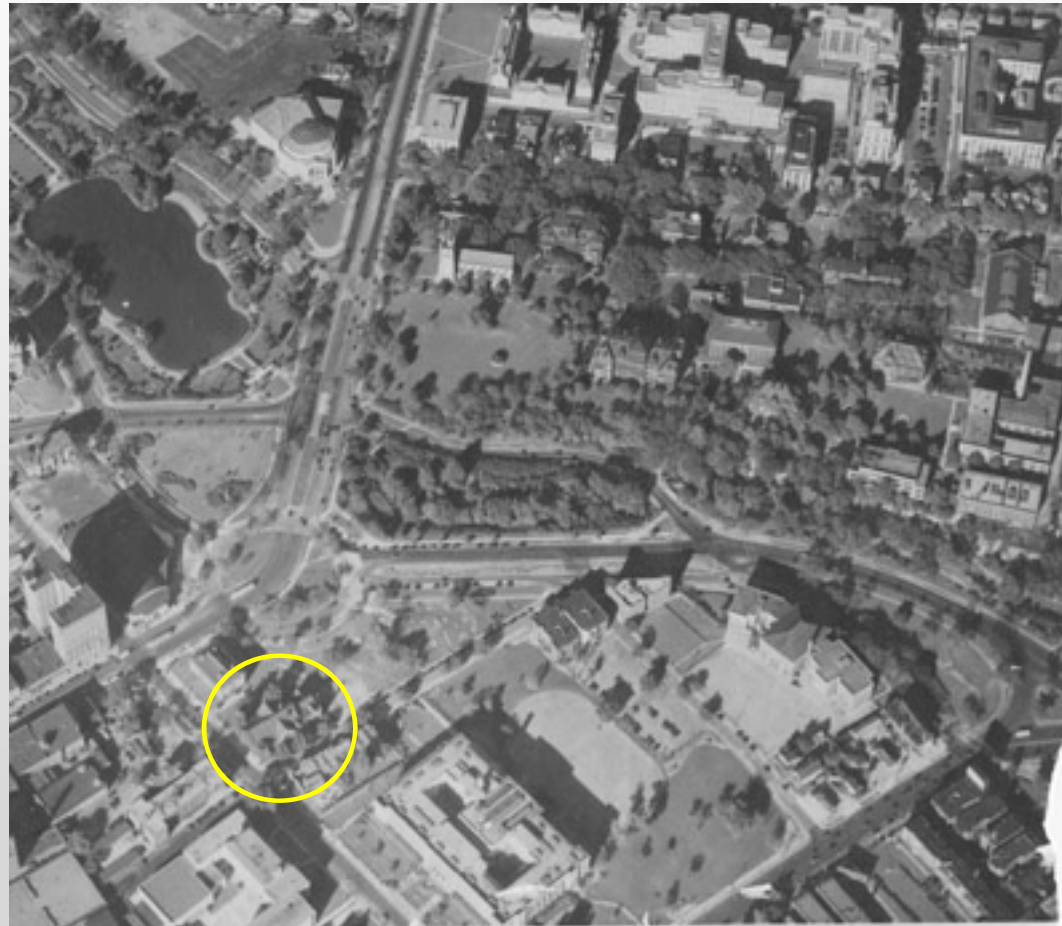
Early Years – W8URD

- CARC's first home was the *Case Club* building.
- A church purchased in 1913, *Case Club* included a gymnasium, swimming pool, bowling alley, dining room, and offices.

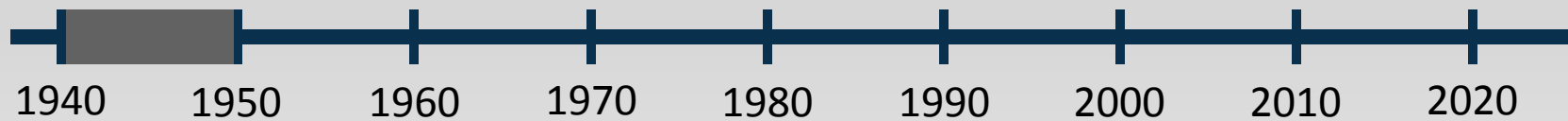


Early Years – W8URD

- The *Case Club* was a bit of a hike from campus.

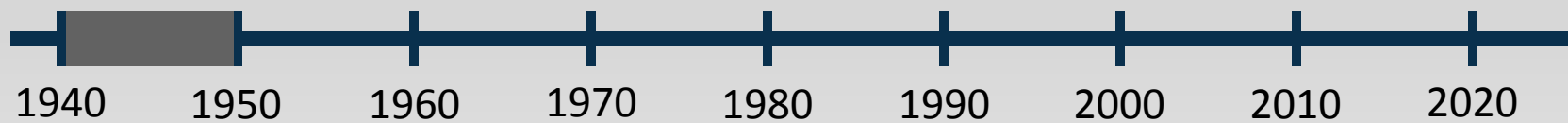


1946 Photo



Early Years – W8URD

- ARRL Field Day, 1949, from Burton, OH.



These Were Active Years – W8URD

- From the 1950 *Differential*, the Case Institute Yearbook.



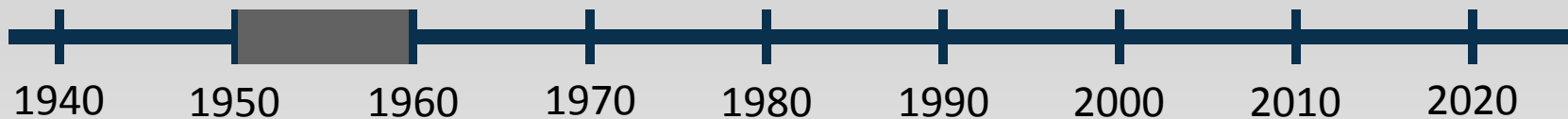
RADIO CLUB

RADIO "Hams" met weekly in the Case Club "Shack" with their president, Hal Braschwitz. They have contacted every continent in the world, except Asia, and have helped members get FCC licenses by teaching them the operation of receivers and transmitters.

With Vic Misek's invaluable help in building and repairing equipment, the club entered the National Sweepstakes Contest, exhibited transmitters during Freshman Week, and set up schedules for private communication to distant places.

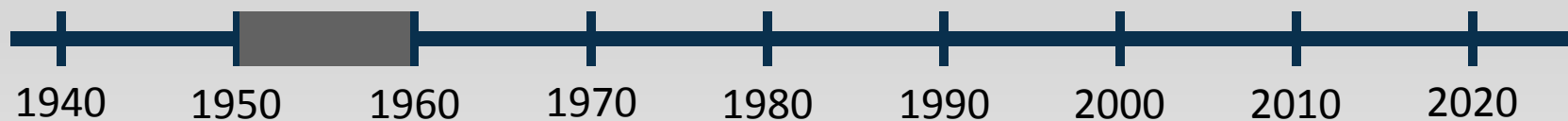
190

FIRST ROW: A. Lepley, O. Schwartz, R. Borofka, V. Misek, J. Werek, H. Braschwitz, T. Martin. SECOND ROW: J. Brown, R. Titterington, R. Daniels, R. Reeves, J. Mowry, R. Bell, A. Misek, T. Sandy. TOP ROW: A. Marrer, S. Reas, R. Sears, L. Huelsman, W. Gillmore, R. Proud, S. Goodkin, L. Shapiro.

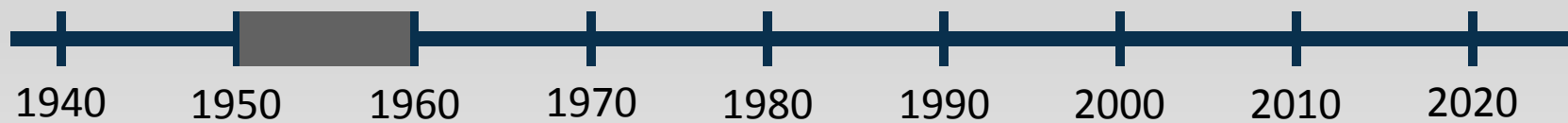


W8URD Falls Silent.

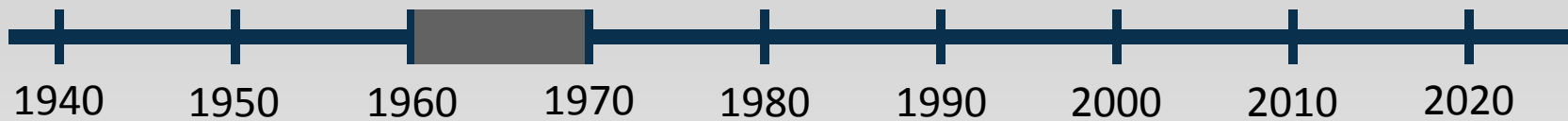
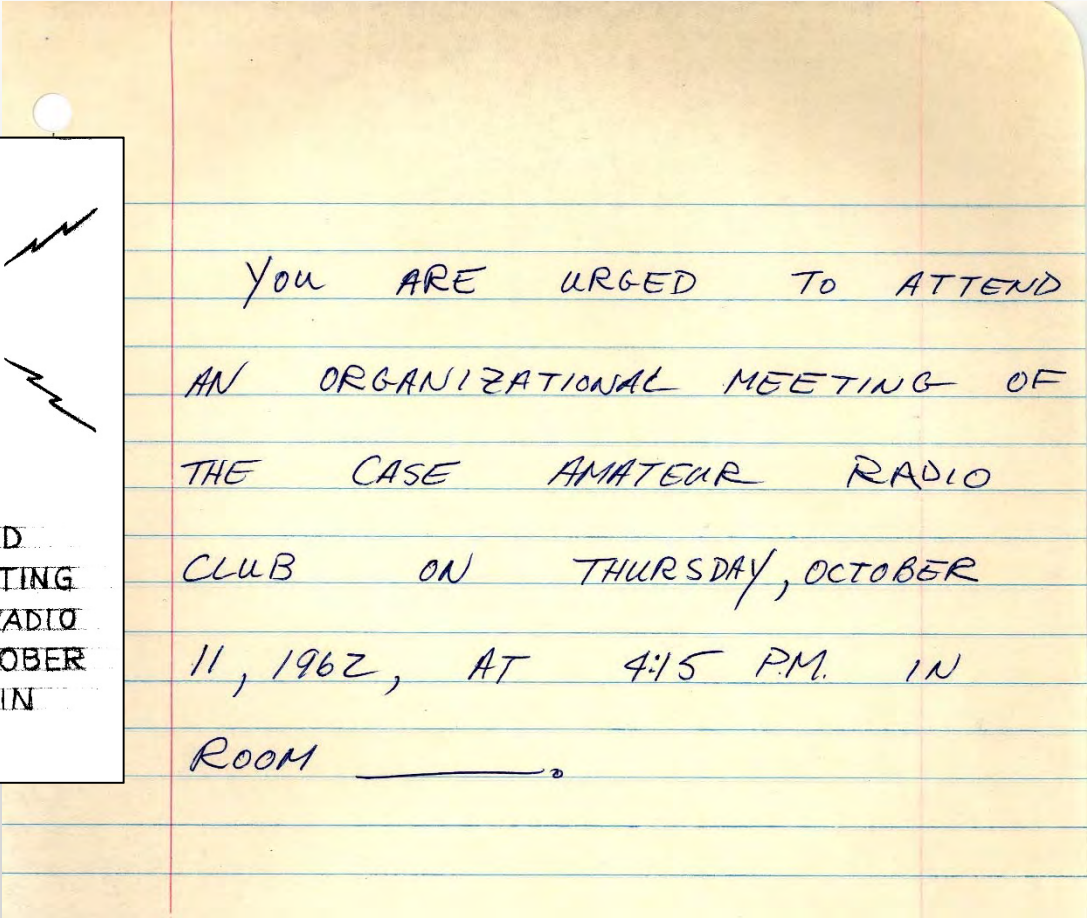
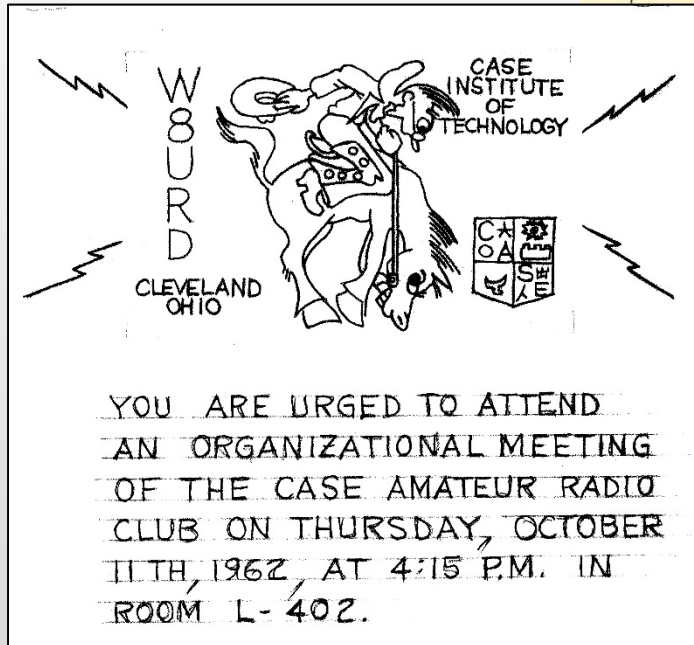
- Faculty advisor John Johannesen joined Bell Telephone Labs in 1953.
- The Case Amateur Radio Club became inactive in 1953.
- W8URD expired in 1955.
- By 1960, *Case Club* was gone, replaced by the new athletic center.



CARC Lies Dormant for Seven Years.



Case Amateur Radio Club Redux.



Spring Semester – W8EDU is born.

Page Three




Photo by Ed Rich

A CASE RADIO CLUB MEMBER sits by his equipment in the basement of Old Main.

Case Amateur Radio Club Renovated After Many Years of Inactivity

The old sanitary engineering laboratory in the basement of Old Main has become the official meeting place for dedicated amateur radio operators on the Case campus. It is the site of the restored Case Amateur Radio Club now in operation after many years of inactivity. Station call letters issued by the F.C.C. are W8EDU, and 30 club members use the equipment according to their individually licensed operating privileges.

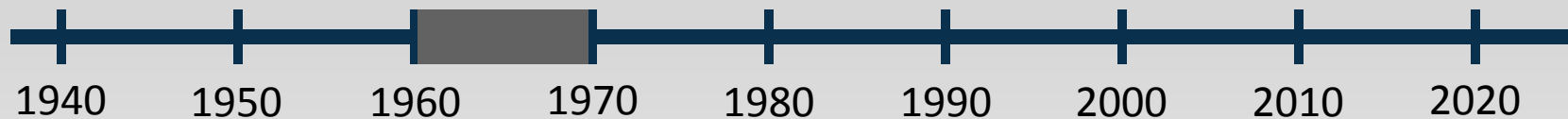
- From the May, 1963 edition of the *Case Tech*.

Last semester Chester J. Slabinski, a junior, initiated attempts to re-establish the club to the status it enjoyed several years ago. The previous station, W8URD, recorded contacts with nearly 100 countries, though the club became inactive due to a lack of interest.

With the help of fellow hams and Dr. Marshall Crouch, the present club advisor, Chester renewed interest in amateur station activities, and he now presides over the newly formed organization. Mr. Slabinski commented: "It made me sick to see these small liberal arts colleges with elaborate amateur radio stations and Case, a leading technological institution, with many hams and no equipment."

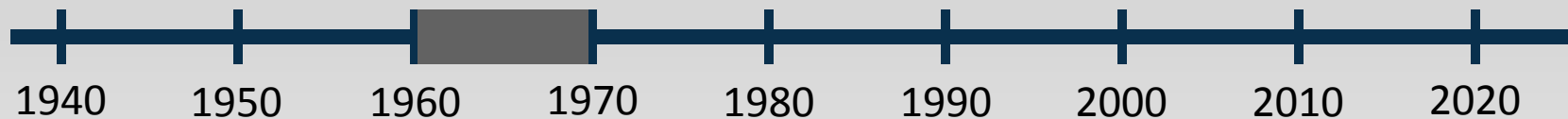
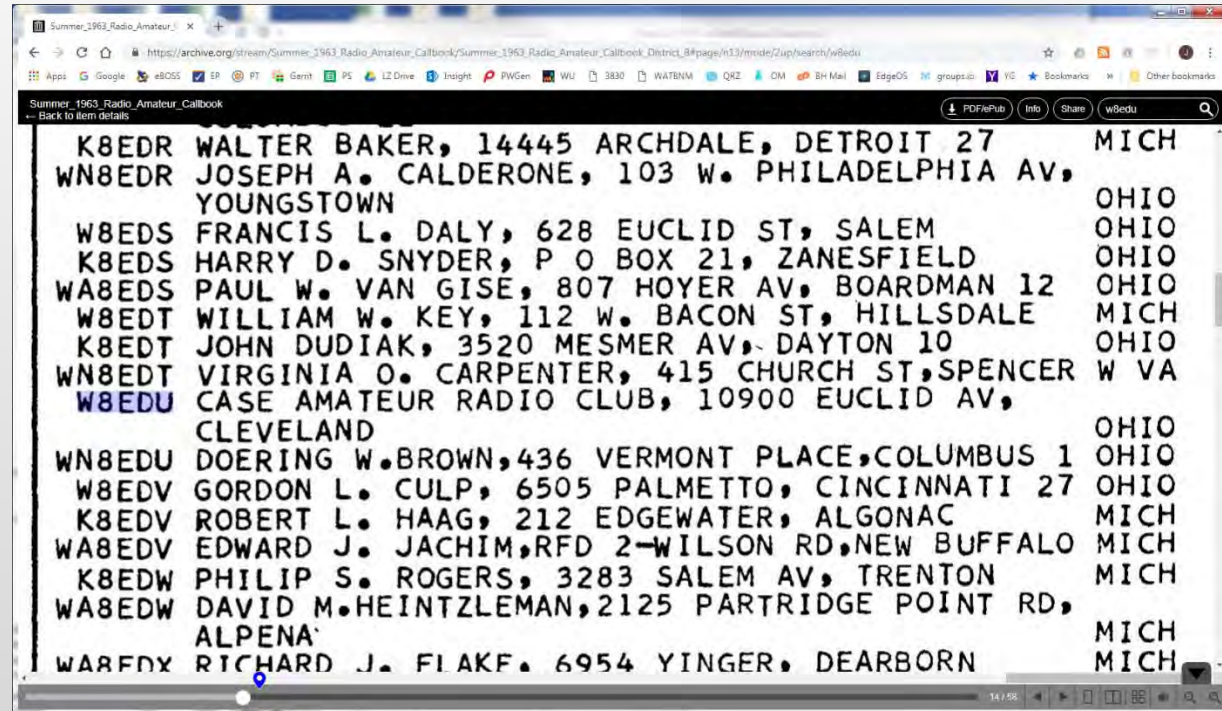
In less than a month of operation, club hams have contacted amateurs in ten states and several points in Canada with their low power equipment supplied by members. Future plans for the organization, now temporarily chartered by the Senate, include the establishment of better operating equipment and a more efficient antenna system. The primary objective is service to the Case community via amateur radio, such as providing emergency communication and handling radiogram messages for resident students.

HORAN
*Electrified
Duplicating*
Phone Cedar 1-2511



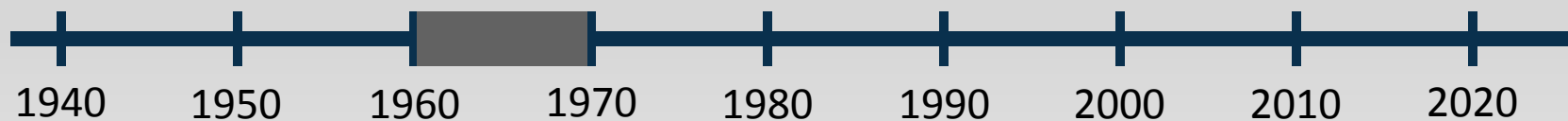
Spring Semester – W8EDU is born.

- It is official.
- From the Summer 1963 Radio Amateur Callbook.



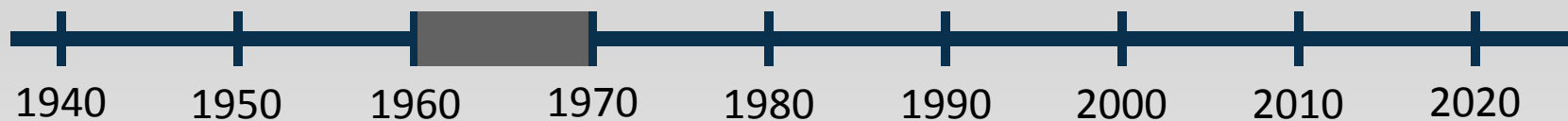
A New (Old) Home on the Quad.

- Case Main, aka Old Main was the first Case building in University Circle.



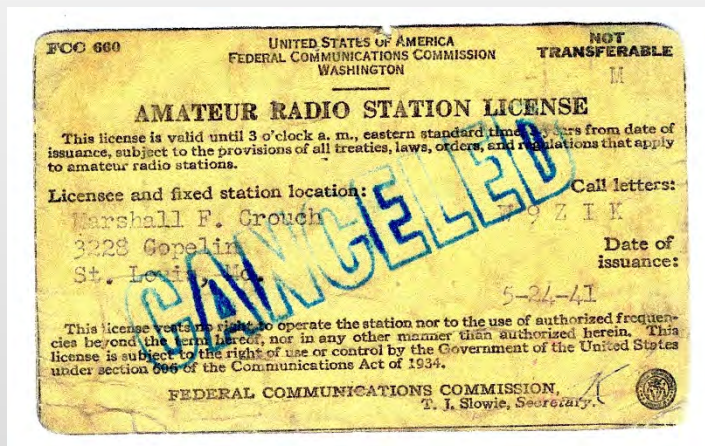
A New (Old) Home on the Quad.

- Adlebert Hall on the left preceeded Old Main by two years.

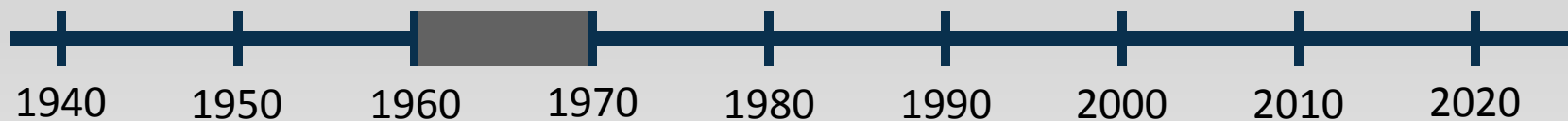


New Advisor - Professor Crouch.

- Had been a Radio Amateur since 1941!

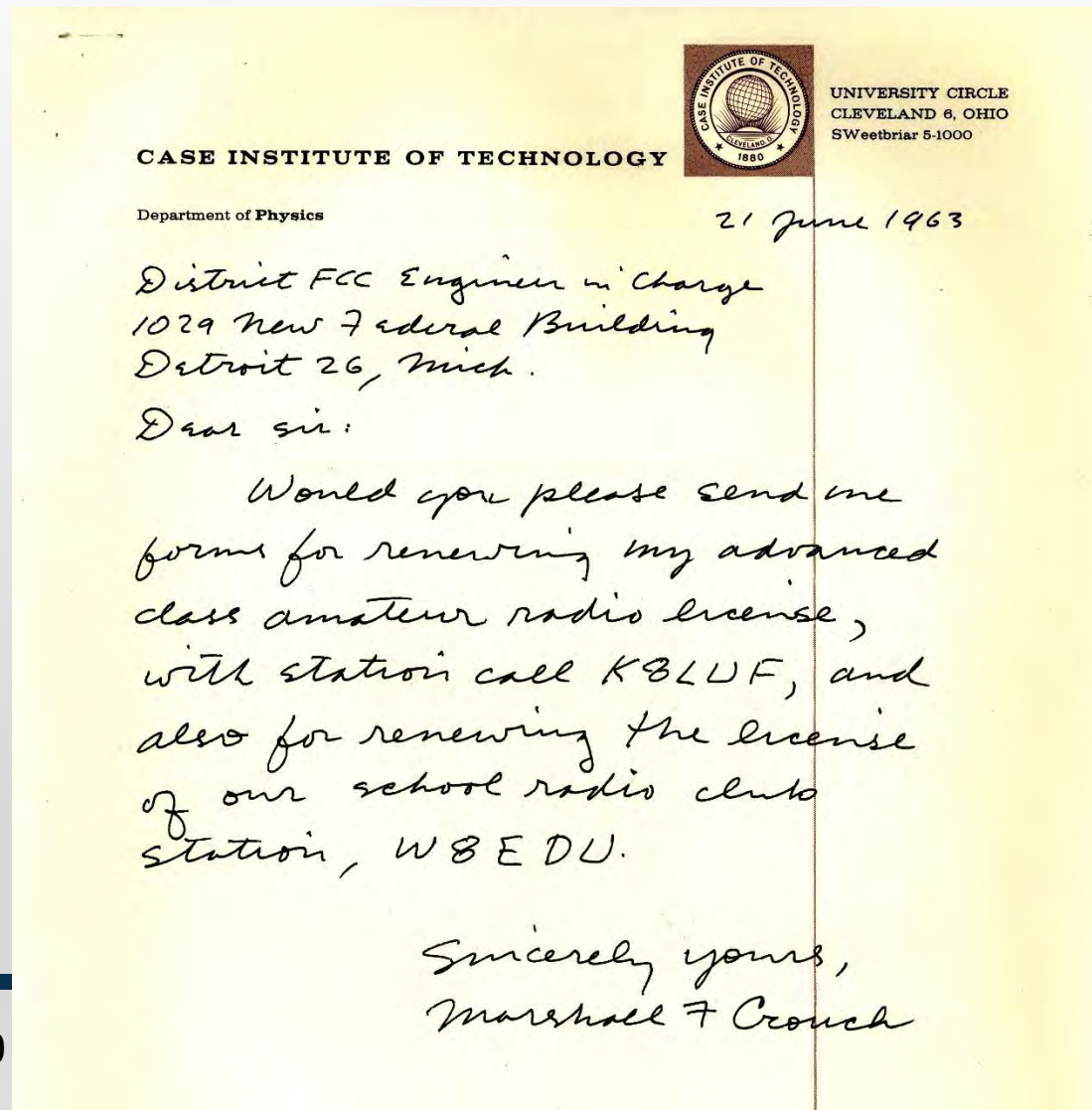
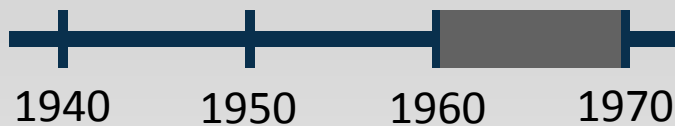
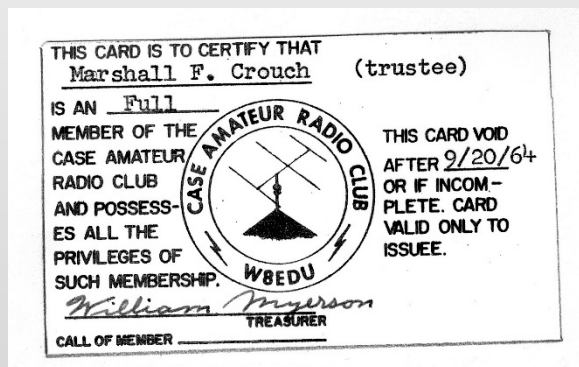


- Joined Physics faculty in 1953.

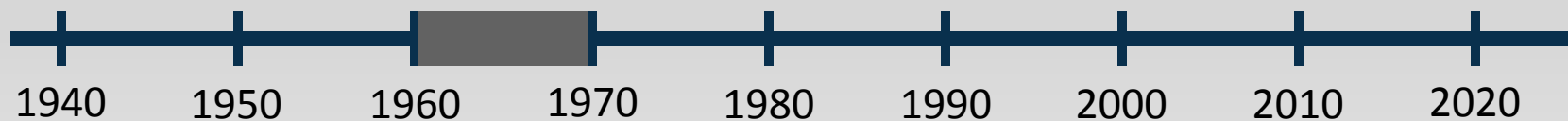
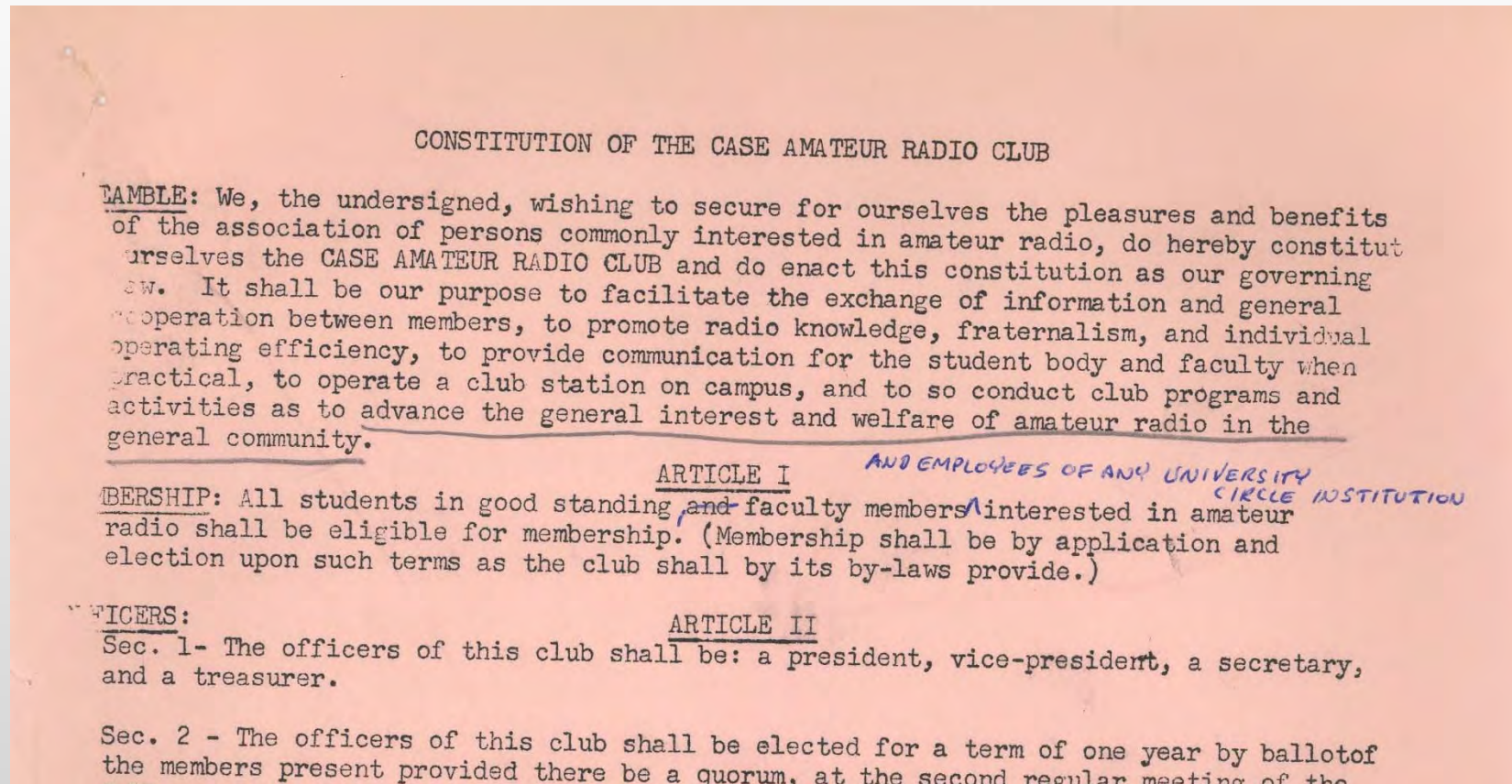


New Advisor - Professor Crouch.

- Became K8LUF in 1958.



CARC Begins to Formalize.

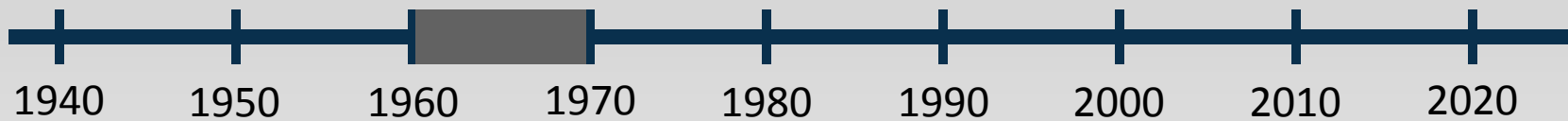


CARC Begins to Formalize.

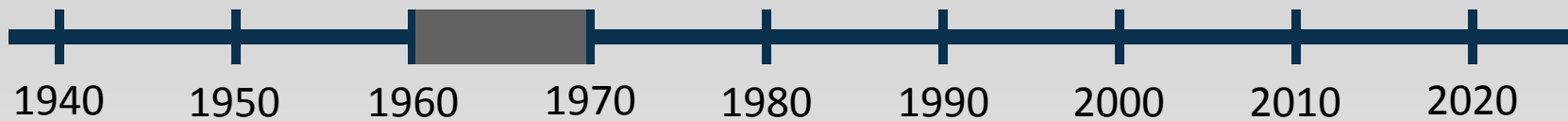
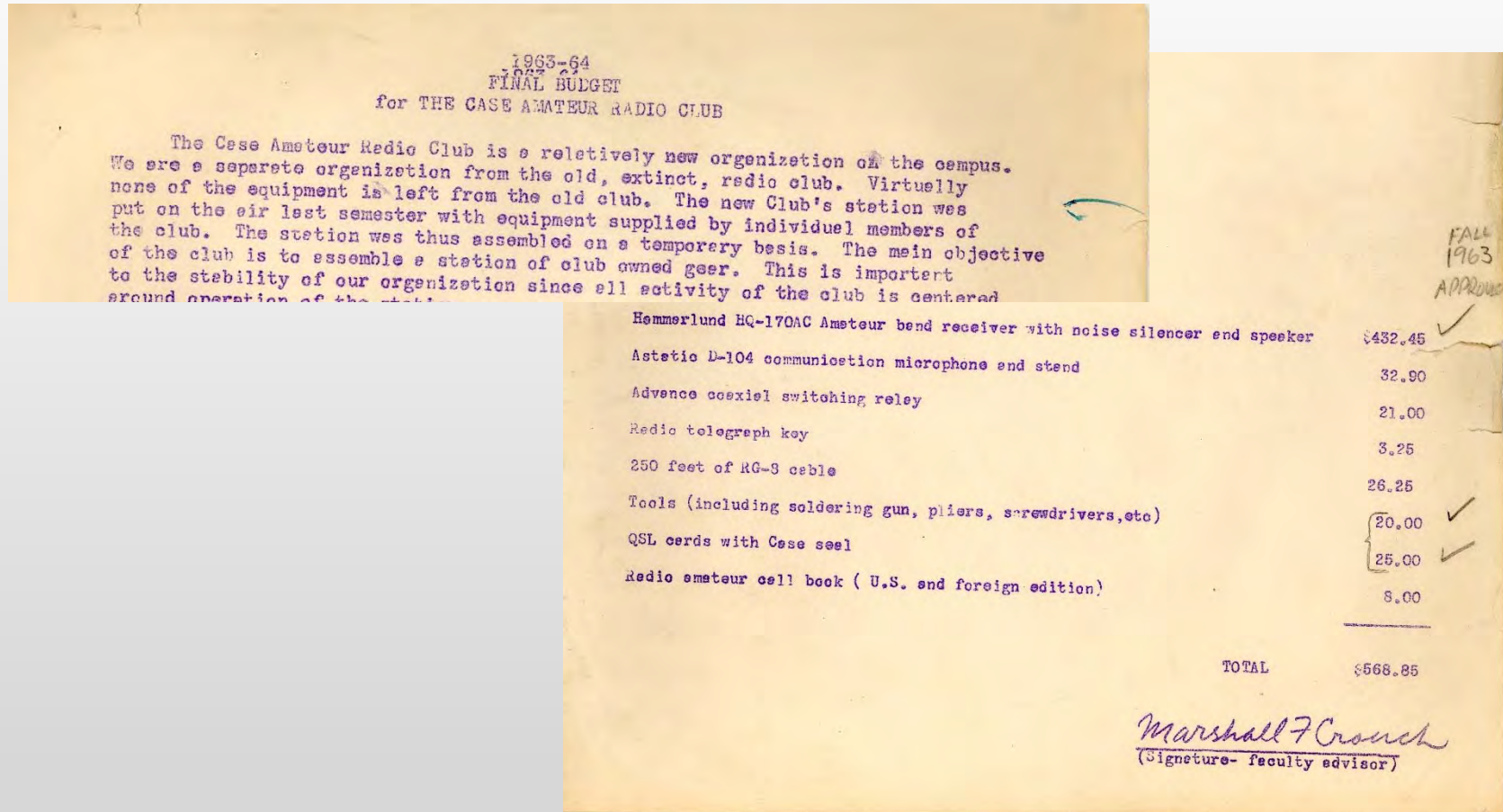
March 25, 1964

Officers of the Case Amateur Radio Club

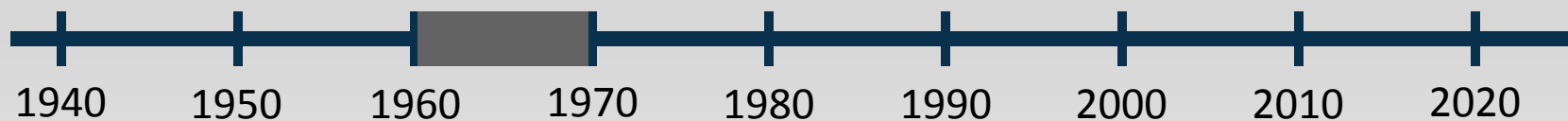
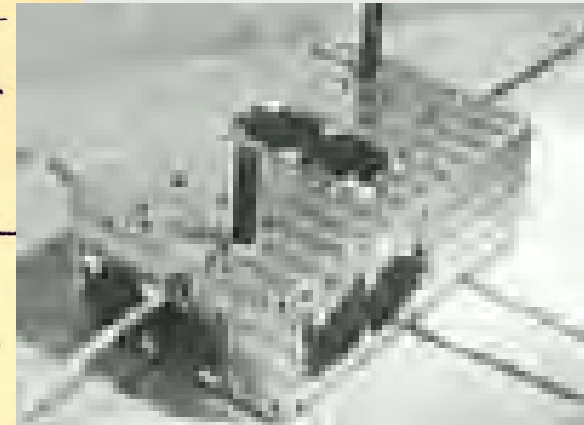
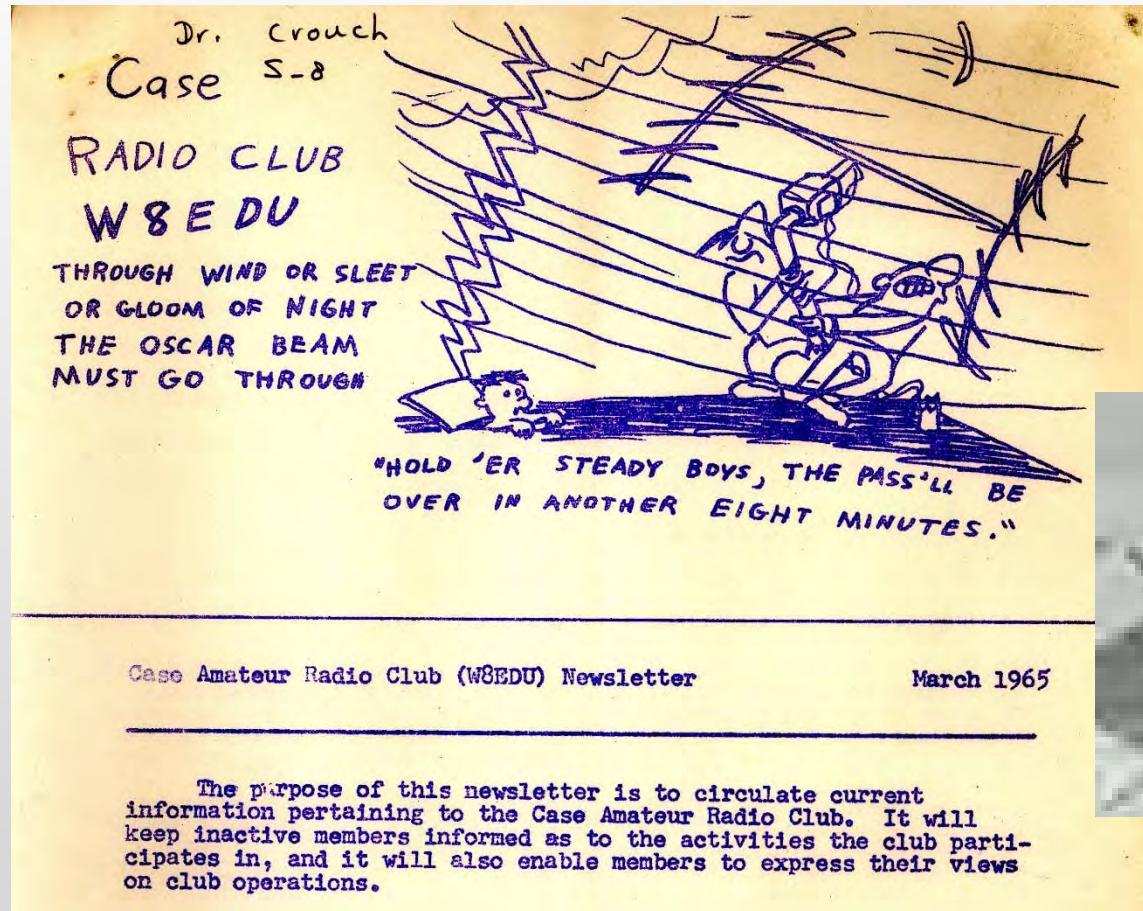
<u>name</u>	<u>room</u>	<u>old main box</u>	
Steve Moro (Pres.)	Pardee 327	B 125	WA2USG
Dave Sicking (V.P.)	" 323	C 57	K8TIE
Rollan James (Sec.)		D 167	
William Myerson (Treas.)	Yost 436	B 134	K3SEA



CARC Begins to Formalize.



Years of Growth for CARC ...

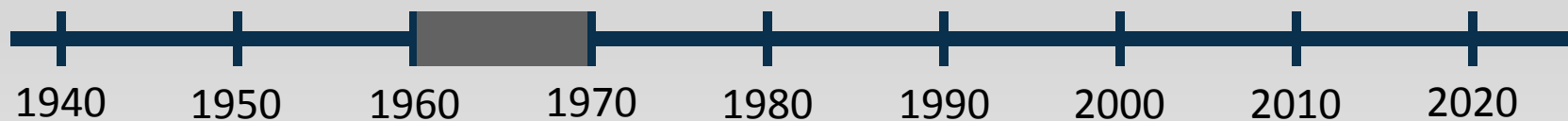


... And for the University.

- 1967 – Case Institute of Technology merges with Western Reserve College to form CWRU.



- 1968 – The T. Keith Glennan Space Engineering Building opened – the future home of CARC and W8EDU.

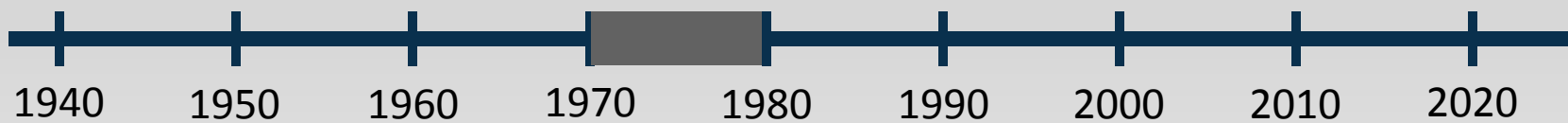
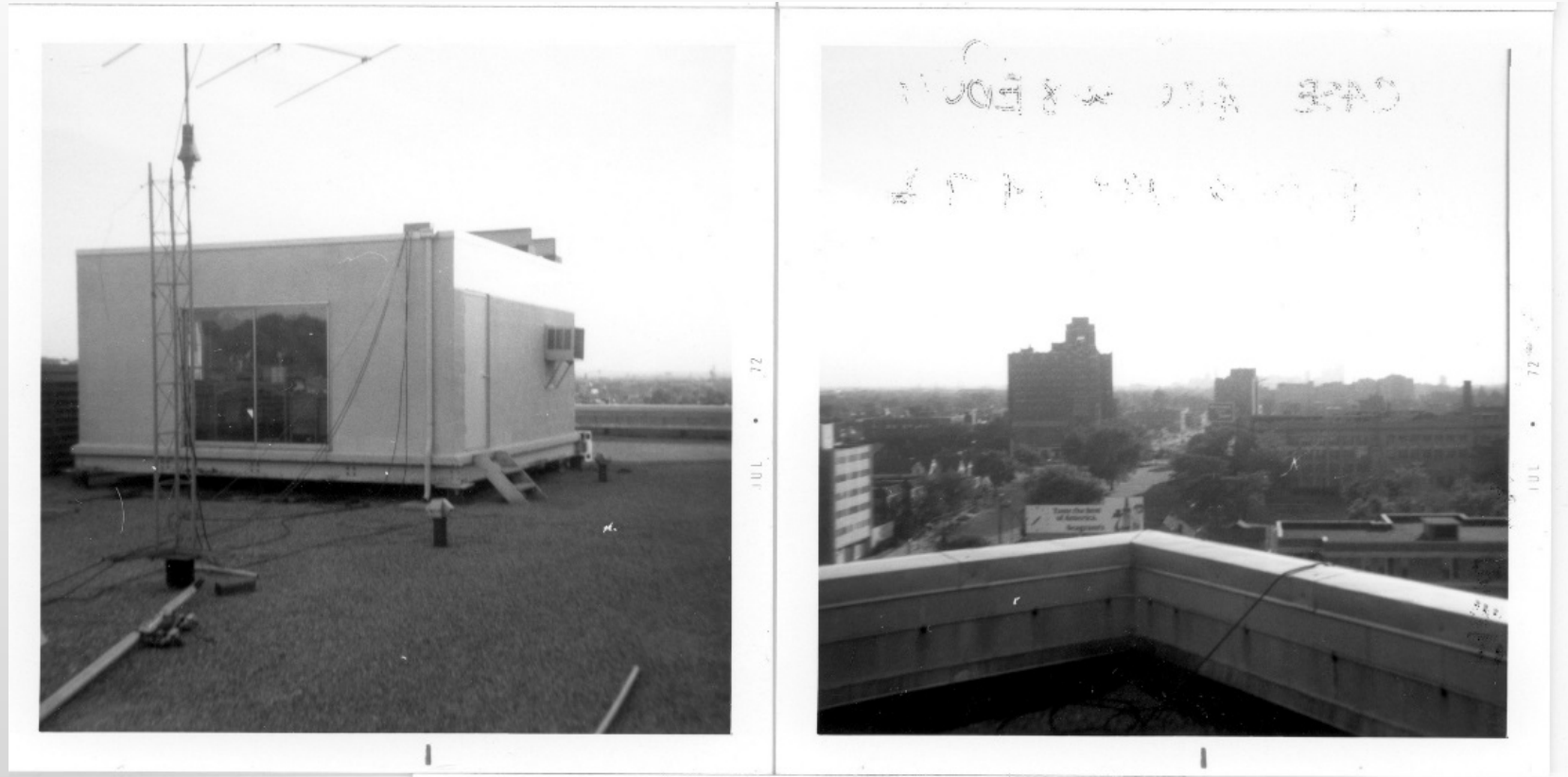


The Glennan Building Penthouse.

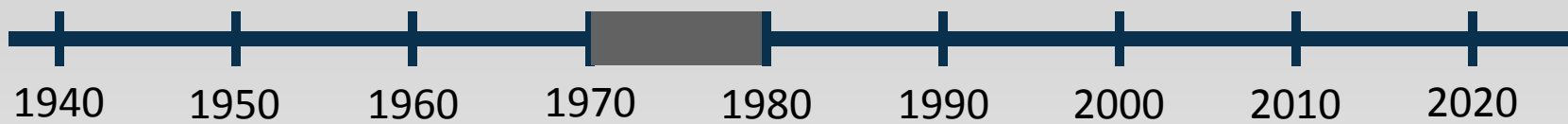
- A penthouse was built on the roof of Glennan after the EE department moved in.
- EE department chairman Bruce W. Johnson allowed CARC to share the penthouse in 1972.
- *This was a game changer.*
- Just in time. Old Main was razed in 1972.



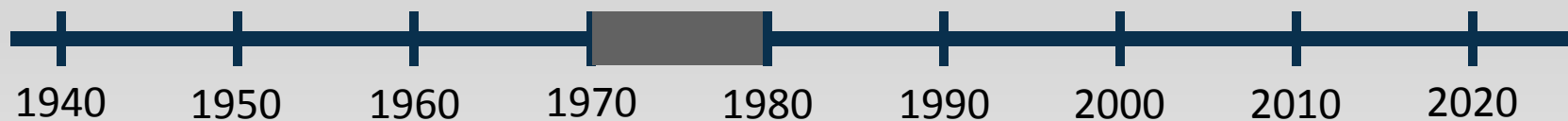
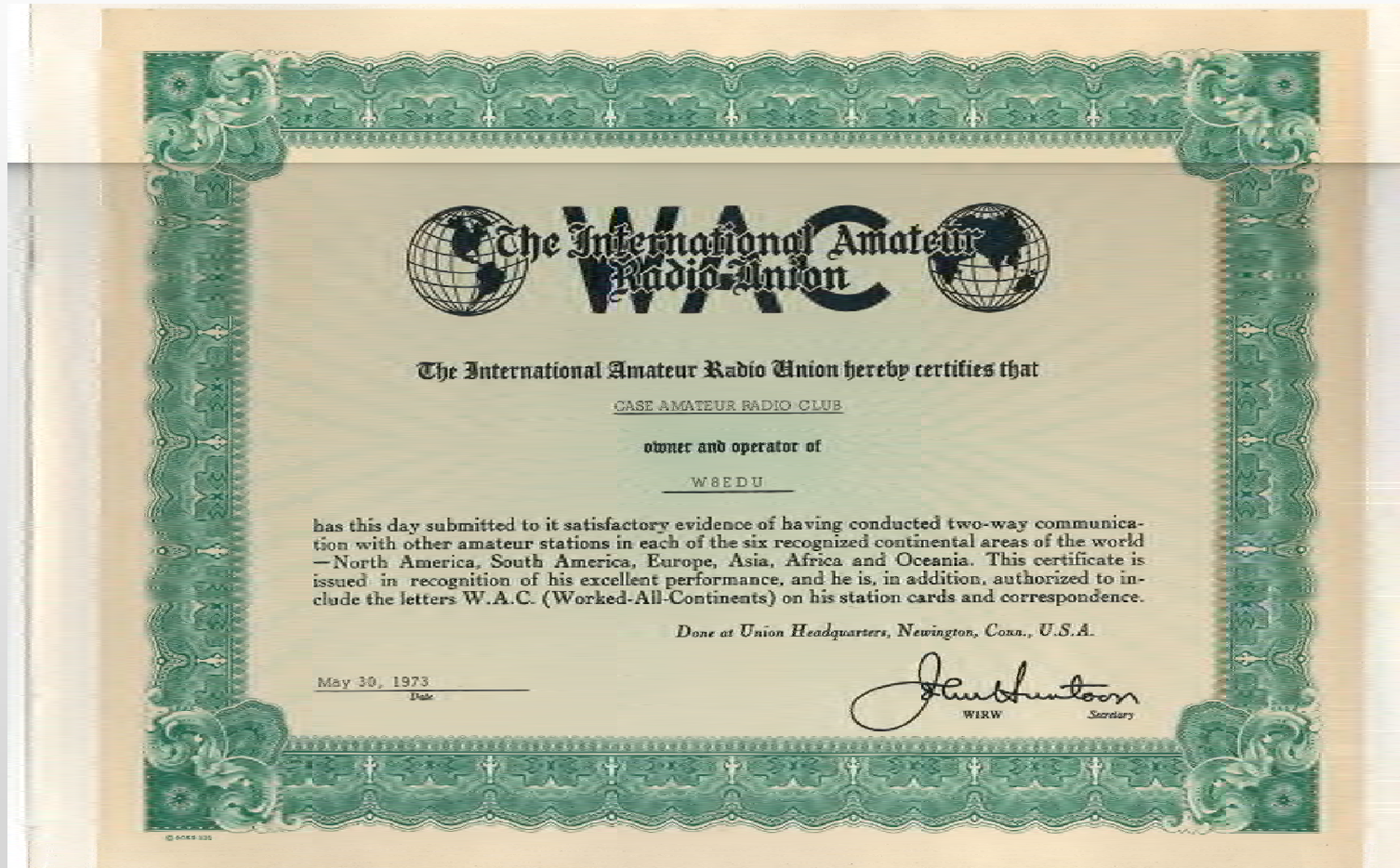
With the Glennan Penthouse,



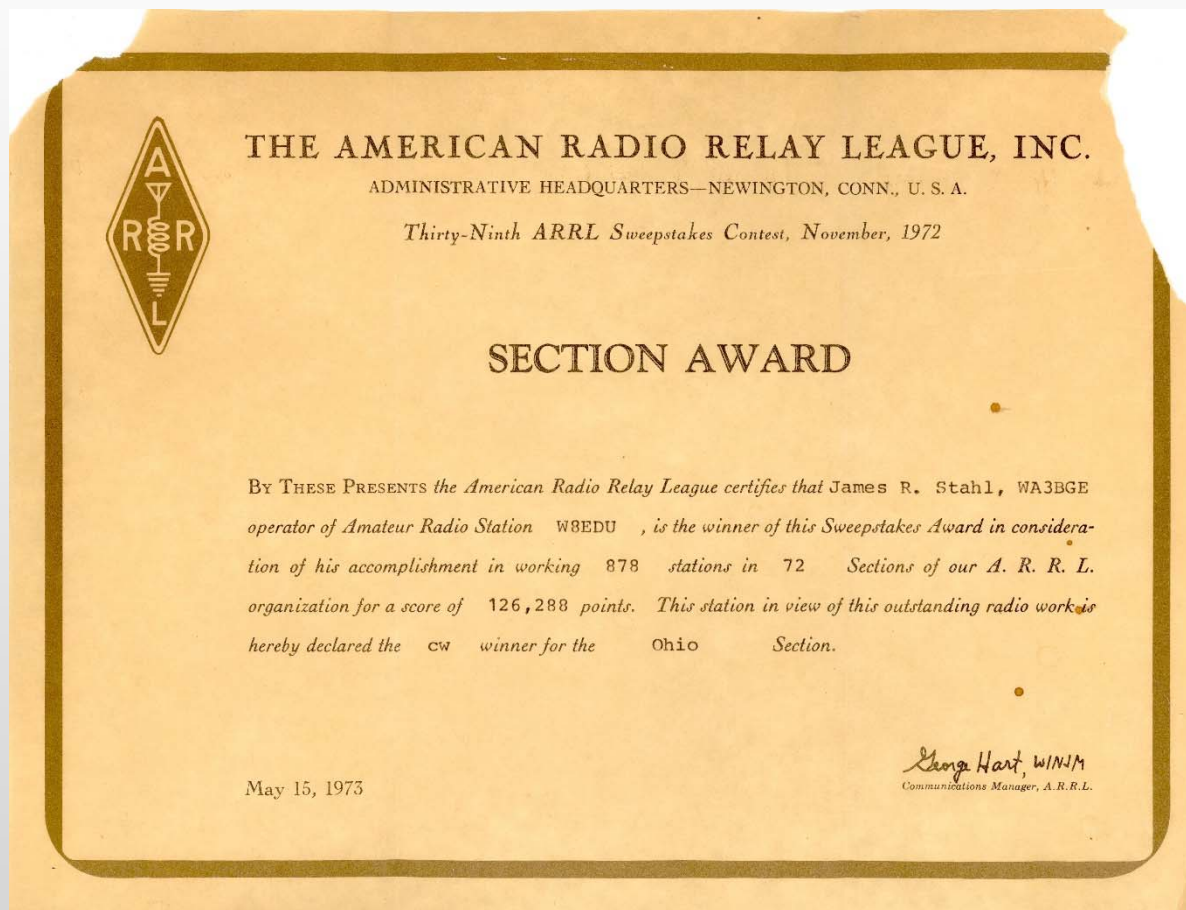
and a Modern Station...



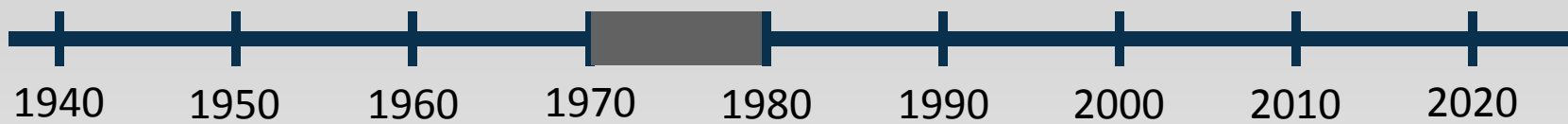
... The Club Made The Most of It.



These Were Years to GOTA.

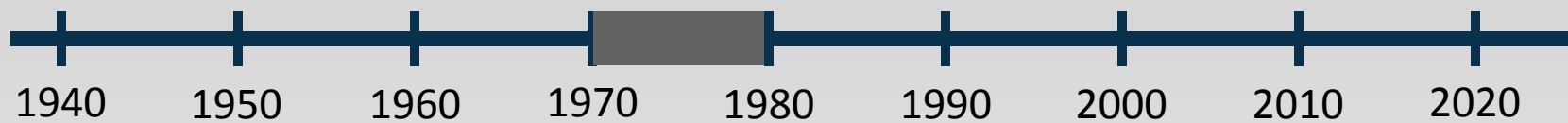
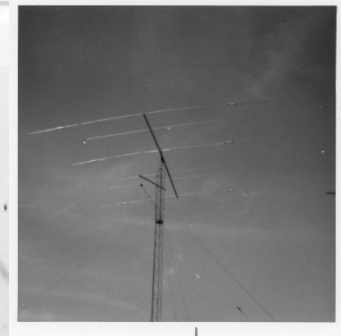


W8EDU Field Day 1972.

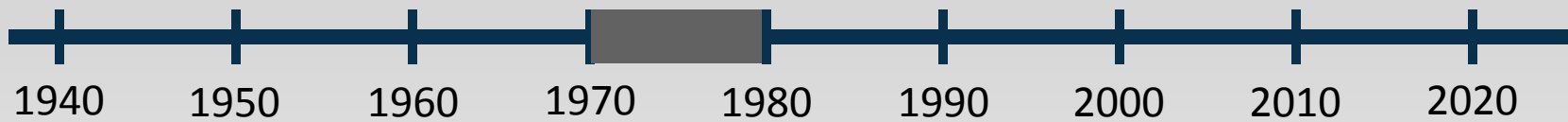


W8EDU Field Day 1972.

- CARC could recruit additional ME talent.



W8EDU Field Day 1972.



W8EDU in the Media.

Wednesday, September 7, 1977

CASE TECH

Radio Club Not CB



by PAMELA FRY

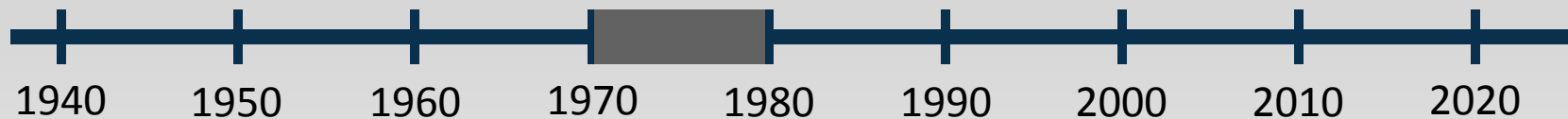
Wednesday, August 31, at 8 pm. the Case Amateur Radio Club held its first meeting for the year. The club was organized in 1963 although it has roots as far

Johnstown flood, for example.

After discussing the equipment used by the club and access to it, the members went to the station (also called the "shack").

trustee, has a special license from the National Science Foundation allowing him to use the club equipment in his communications with the personnel at the radio

Dr. Matthews, the club trustee, has a special license from the National Science Foundation allowing him to use the club equipment in his communications with the personnel at the radio telescope in Arecibo, Puerto Rico. Anyone can assist him in this work.



Early Participation in Research.

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF TELECOMMUNICATIONS POLICY
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
Washington, D.C. 20230
APPLICATION FOR FREQUENCY ASSIGNMENT ACTION

AGENCY SERIAL NO. 10 DATE 6
NSF 760019 760407

LINE LABEL LIST SERIAL NO. 10
AOL

LINE LABEL	TYPE OF ACTION	FREQUENCY	JOINT APPLCTN.	NET CONTROL 5	RELATED ACTION 6	ASSIGN. TYPE	BUREAU 4 TRUNK 6	EXP. DATE 4
FO1	NU	19091.5					NAIC	

LINE LABEL	STATION CLASS 4	EMISSION 7	POWER 9	NOTES 4	POWER DENSITY 4	FOR AGENCY USE ONLY			
EO1	FX	3A3J	1	S300					

APPROVED

19 MAY 1976

LINE LABEL	ST/CT 4	ANTENNA LOCATION 8	CONTROL 8	ANTENNA LAT. 7 LONG. 8	ANT. POL. 3	ANT. NAME 3	ANT. ORIENT. 3	TIME 4	CALL SIGN 6	ANT. DIMENSIONS 24
TO1	OHIO	CLEVELND		4130XXN08136XXW			150		WKQ 62	XXG
RO1	PTR	ARECIBO		1820XXN06645XXW			330		WDR 71	08G

LINE LABEL	CIRCUIT REMARKS 40	SER. REPLACED 10	DEL. DATE 4
CO1	*AGN, ARECIBO OBSERVATORY/CORNELL UNIV	NSF 750010	7606
CO2	*EQT, C, DRAT4XR4A		
CO3	*EQR, C, COLKWM1		

S300: If operations conducted under the authority of this asgmt result in harmful interference to non-Govt reception of transmissions from a foreign stn whose freq is listed in the FCC Received List, the Govt agency involved will assume its share of responsibility in removing the interference in accordance with established procedures.

LINE LABEL SUPPLEMENTARY DETAILS

S01 Cleveland, Ohio (Case Western Reserve Univ.) to Arecibo Observatory, Puerto Rico.

S02 Principal use is scientific data transfer, science planning and engineering discussions. Occasional use for

S03 logistics. Update of existing assignment.

CERTIFICATION: THIS IS TO CERTIFY THAT THERE IS AN IMMEDIATE OR EARLY NEED FOR THE REQUESTED ASSIGNMENT, THAT THE FREQUENCIES NOW AUTHORIZED FOR USE BY THIS AGENCY HAVE BEEN EXAMINED, EXISTING AUTHORIZATIONS DO NOT MEET THIS NEED, AND THE ADDITIONAL AUTHORIZATION REQUESTED OR ITS EQUIVALENT IS ESSENTIAL TO MEET THE AGENCY'S REQUIREMENTS SATISFACTORILY

FORM O-T-19A (REV. (7-75) (NEW OR NOTIFICATION) FORMERLY OEP-88A

SIGNED: *R. Marcus Price* R. Marcus Price
REPRESENTATIVE, FREQUENCY ASSIGNMENT SUBCOMMITTEE
INTERDEPARTMENT RADIO ADVISORY COMMITTEE
USCOMM-DC 49219-P76

194

1980s – Aggressive Fundraising.

- The S-Line was lost to theft in the late 1970s.
- The club needed to generate funds.
 - Relentless dumpster diving for sellable junk.
 - Combing labs for donations of surplus.
 - Constant hamfesting to sell the treasures.
 - High dollar funding requests from USG.
 - Asking every ham equipment manufacturer for free stuff.
- It worked.

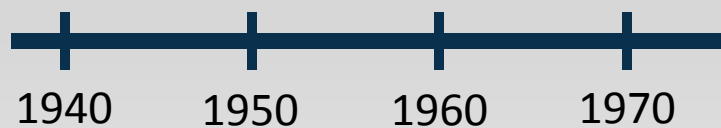


Completely Updated Shack.



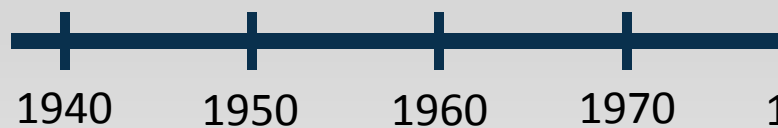
Real Antennas.

- Two element
40 m yagi.
- A4-S Tribander



Real Antennas.

- Members who had skills to build infrastructure.
- Most were hams before coming to W8EDU.

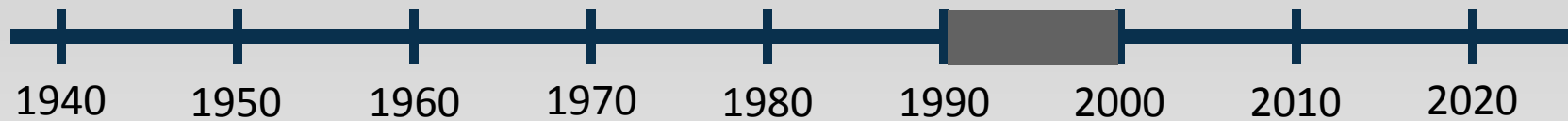
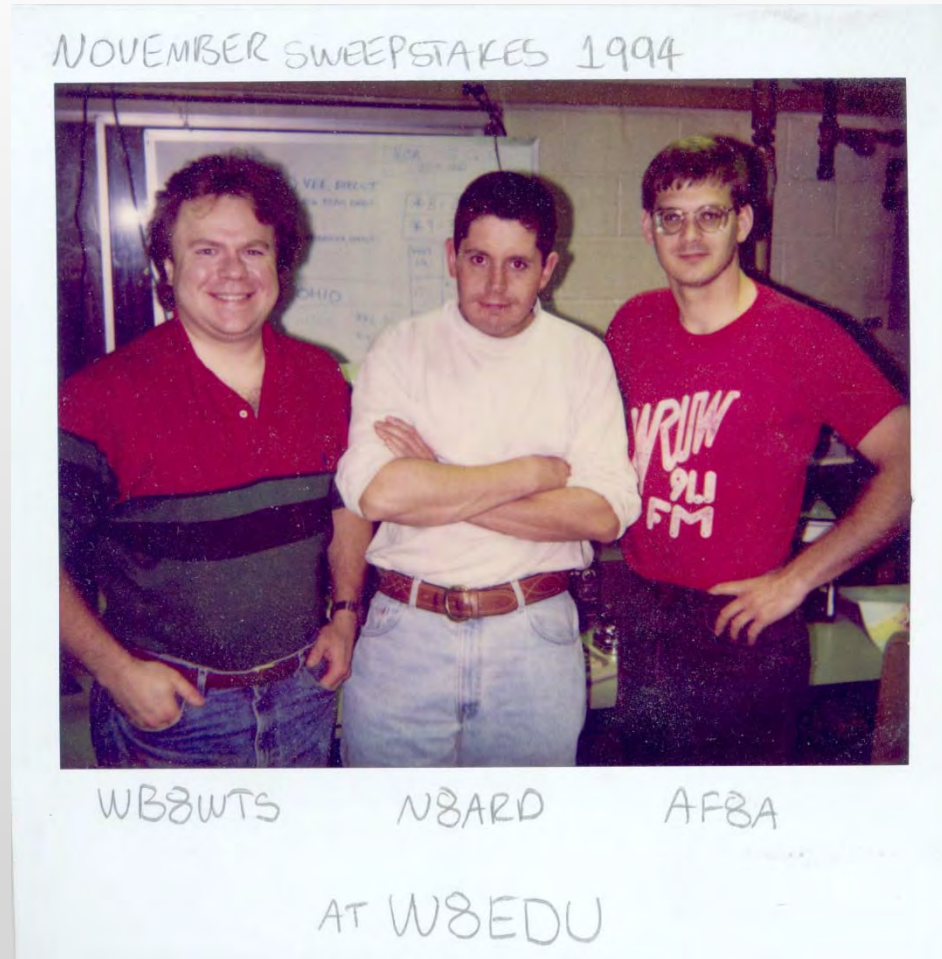


W8EDU was *ACTIVE*.

- Despite natural turnover, a core group kept W8EDU running.
 - Staff: K8DTS, KI8JV.
 - Alumni: AF8A, KB3HTS
 - Grad students: W8WTS
- Radiosport (contesting) became a favorite activity.
 - ARRL Sweepstakes
 - CQWW DX Contest
 - North American QSO Party
 - Of course – FIELD DAY

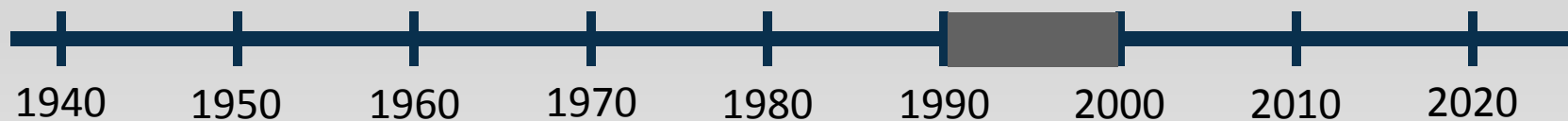


W8EDU was ACTIVE.



April 12, 1997: The Day the Tower Fell.

- Severe thunderstorm with 70 MPH wind gusts.
- An upper guy wire turnbuckle failed.
- The 70 ft tower folded in half.
- The 40 m yagi pierced the roof.
- *Between the University and ARRL Insurance, everything was replaced.*



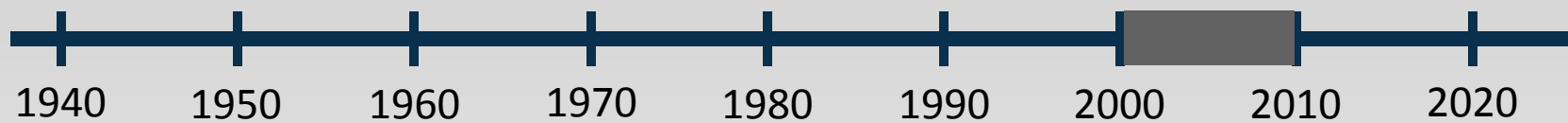
Most of all, W8EDU was on the air.

- November Sweepstakes, 2005.

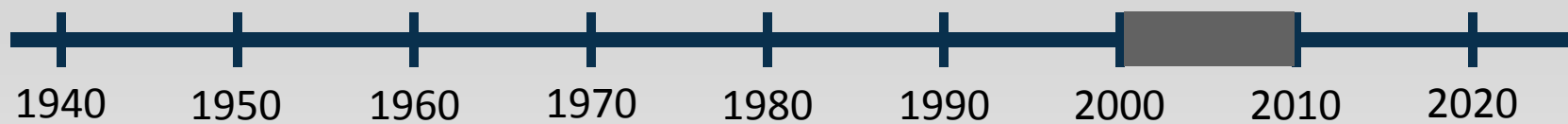


Most of all, W8EDU was on the air.

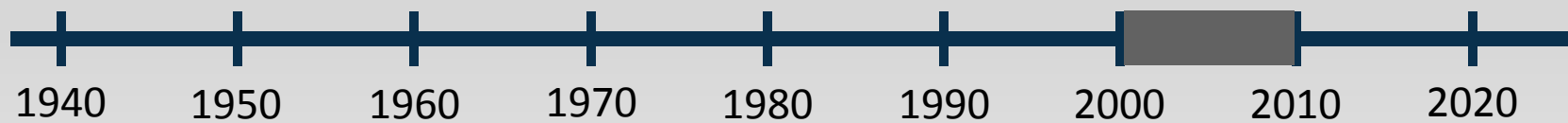
- Field Day, 2005.



The core group provides continuity.



The core group provides continuity.

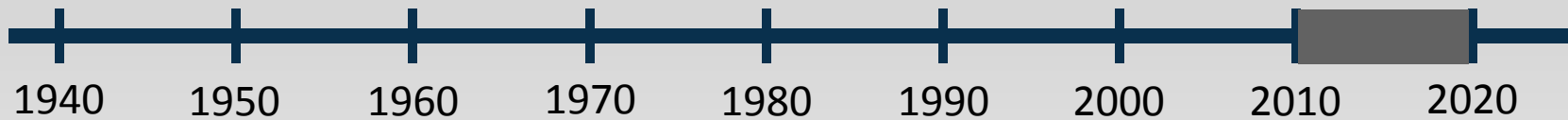


The core group provides continuity.

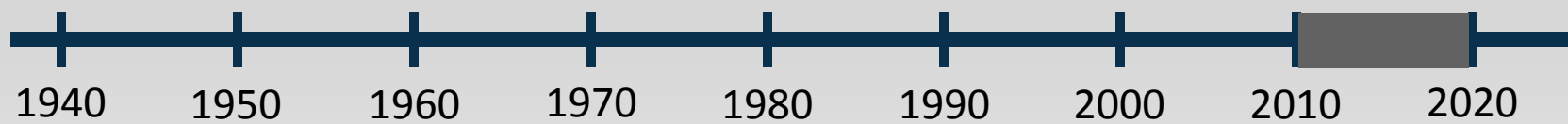
- Field Day, 2018.



No Day Like Field Day.

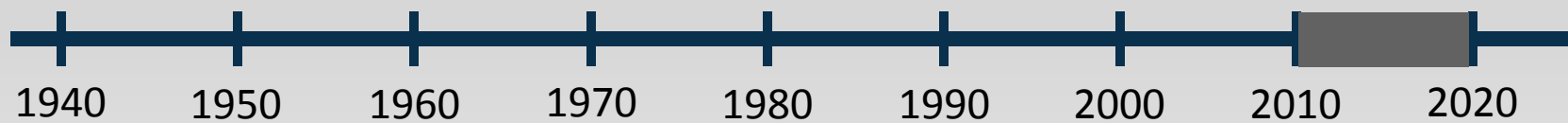


History Ends ...



History Ends ...

Ham Radio 2.0 Begins.



History Ends ...

Ham Radio 2.0 Begins.

Thanks and 73,
Jim, W8WTS.



Extra Credit Question.



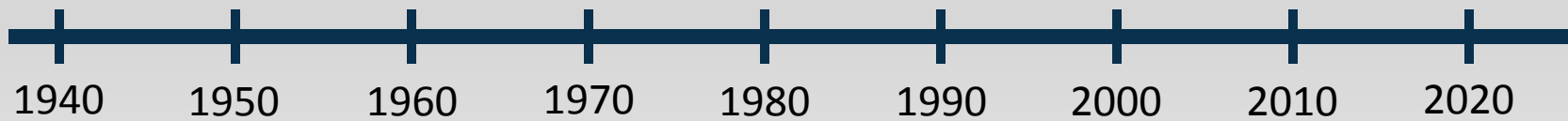
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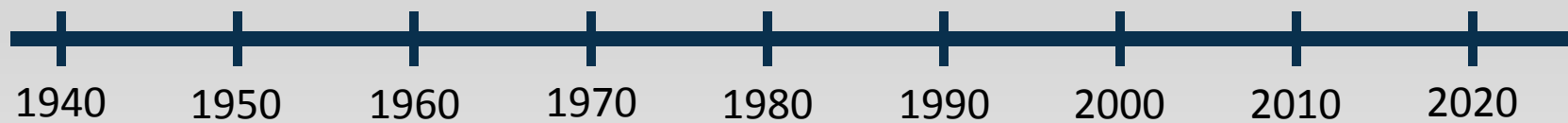
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Extra Credit Question.



Panorama from the top of the 70 ft tower.



Panorama of the shack, c. 2007.

