

**FIRST AMENDMENT TO  
MEMORANDUM OF AGREEMENT**

HAWAII PUBLIC RADIO

and the

UNIVERSITY OF HAWAII

for the benefit of the

University of Hawai'i at Mānoa  
Office of Student Life and Development – KTUH)

**25** This First Amendment to Memorandum of Agreement ("**1<sup>st</sup> Amendment**"), made this day of **June, 2019** ("Execution Date"), to be effective as of **June 25, 2019** ("Effective Date"), by and between Hawaii Public Radio, a Hawaii nonprofit corporation, whose principal business address is 738 Kaheka Street, Honolulu, Hawai'i 96814 ("**HPR**") and the University of Hawai'i, whose business address is Bachman Hall, 2444 Dole Street, Honolulu, Hawai'i 96822 ("**UNIVERSITY**") for the benefit of the University of Hawai'i at Mānoa, Office of Student Life and Development ("**UHM OSLD**") and KTUH – University of Hawaii at Mānoa College Student Radio, whose business address is 2445 Campus Road, HH203, Honolulu, Hawai'i 96822 ("**KTUH**").

**WITNESSETH THAT:**

WHEREAS, HPR and the UNIVERSITY entered into that certain Memorandum of Agreement dated March 8, 2015 ("**MOA**") under which HPR allowed KTUH to install and co-locate a KTUH 7 kilowatt transmitter and a 3 bay antenna (hereafter collectively the "**KTUH Transmitter**") on or within the HPR Building and/or the HPR Broadcast Antenna ("**HPR Broadcast Tower**"); and

WHEREAS, the State of Hawaii Department of Land and Natural Resources ("**DLNR**") and HPR entered into that certain lease dated July 19, 2007 ("**HPR Lease**"), under which DLNR leased that certain site known as the "Hawaii Public Radio Transmission Site" located on Tantalus, Kalawahine, Oahu, Hawaii, consisting of approximately 1.27 acres, together with roadway and utility easements ("**Leased Area**") for a term commencing on August 1, 2007 and expiring on July 31, 2037 ("**Lease Term**"); and

WHEREAS the UNIVERSITY was responsible for obtaining approval from the DLNR under the HPR Lease for the co-location of a KTUH Transmitter on or within the HPR Building and HPR Broadcast Tower (collectively the "**KTUH Co-location**"); and

WHEREAS, the UNIVERSITY obtained such approval from DLNR at the DLNR meeting held on July 24, 2015; and

WHEREAS, the UNIVERSITY and Mauna Kea Broadcasting ("**MKB**") entered into an agreement dated March 21, 2005 ("**MKB Agreement**"), under which the UNIVERSITY is permitted to use an antenna site on the Wiliwili Ridge in East Oahu ("**Wiliwiliinui Booster Site**") to help boost the KTUH broadcast signal; and

WHEREAS, the Wiliwilinui Booster Site contains a broadcast antenna and accompanying translator equipment that boosts KTUH's broadcast signal for better reception on the eastern portion of Oahu, and on the islands of Molokai, Lanai, and Maui (collectively the "**Wiliwilinui Booster Antenna**"); and

WHEREAS, the UNIVERSITY's right to use the Wiliwilinui Booster Site and the Wiliwilinui Booster Antenna to boost the KTUH broadcast signal is authorized under that certain broadcast license issued by the Federal Communications Commission ("**FCC**") dated October 26, 2015, License File No. BLFT-20151013AIM ("**FCC License**"), that authorizes the University and KTUH to use a broadcast frequency designated in the FCC License ("**Broadcast Frequency**") to boost the KTUH broadcast signal; and

WHEREAS, the UNIVERSITY has determined that it does not presently need the Wiliwilinui Booster Antenna, the Wiliwilinui Booster Site, and the FCC License (which includes the Broadcast Frequency) at the present time to boost KTUH's broadcast signal and HPR has requested that the UNIVERSITY assign all of the same to HPR for its use; and

WHEREAS, the UNIVERSITY is willing to assign to HPR the UNIVERSITY's interests in the Wiliwilinui Booster Antenna, the Wiliwilinui Booster Site, and the FCC License (which includes the Broadcast Frequency) and HPR is willing to accept and use the same, subject to the UNIVERSITY being allowed to continue the KTUH Co-Location and operate the KTUH Transmitter from the HPR Broadcast Tower and the HPR Building; and

WHEREAS, the UNIVERSITY had to install an aural studio transmitter link during the KTUH Co-location with HPR, which link consists of a microwave antenna, including a BEXT Transmitter (collectively the "**KTUH Microwave Antenna**"), that is located on the roof of the HPR Kaheka Street studio ("**HPR Kaheka Site**"); and

WHEREAS, the KTUH Microwave Antenna is covered by a microwave license with a call sign of WQXV680, which was granted by the FCC on June 22, 2016; and

WHEREAS, the UNIVERSITY will be relocating the KTUH Microwave Antenna to a site within another UNIVERSITY campus within the next ninety (90) days to one hundred twenty (120) days following the Effective Date herein and will be vacating the HPR Kaheka Site within that time frame ("**Move-Out Date**"); and

WHEREAS the UNIVERSITY is willing to make this assignment and HPR is willing to accept this assignment on the following terms and conditions,

NOW, THEREFORE, in consideration of the mutual covenants and promises herein made, the parties do hereby agree as follows:

- I. Assignment of Wiliwilinui Broadcast Antenna and FCC License. The following will be added as paragraph VI (Assignment) to the MOA:

"VI. Assignment of Wiliwilinui Broadcast Antenna and FCC License.

- A. Wiliwilinui Booster Site. Under a use agreement with Mauna Kea Broadcasting ("**MKB**") dated March 21, 2005 ("**MKB Agreement**"), the UNIVERSITY has the right to use an antenna site on the Wiliwilinui Ridge in East Oahu to boost the KTUH broadcast signal ("**Wiliwilinui Booster Site**").
- B. Wiliwilinui Booster Antenna. The Wiliwilinui Booster Site contains a FM translator station, broadcast antenna and transmitter equipment (Facility ID

6902) that boosts KTUH's broadcast signal for better reception on the eastern portion of Oahu, and on the islands of Molokai, Lanai, and Maui, together with improvements that house said equipment (collectively the "*Wiliwilinui Booster Antenna*").

- C. FCC License. The UNIVERSITY's right to use the Wiliwilinui Booster Site and the Wiliwilinui Booster Antenna to boost the KTUH broadcast signal is authorized under that certain broadcast license issued by the Federal Communications Commission ("*FCC*") dated October 26, 2015, License No. BLFT-20151013AIM ("*FCC License*"), that authorizes the University and KTUH to use a certain broadcast frequency designated as K264BL ("*Broadcast Frequency*").
- D. Assignment of UNIVERSITY's interest. The UNIVERSITY has determined that it does not presently need the Wiliwilinui Booster Antenna, the Wiliwilinui Booster Site, and/or the FCC License (including the Broadcast Frequency) to boost KTUH's broadcast signal. In response to HPR's request, the UNIVERSITY hereby assigns to HPR and HPR hereby accepts and assumes the UNIVERSITY's interests in and obligations relating to the Wiliwilinui Booster Antenna, the Wiliwilinui Booster Site, and the FCC License (including the Broadcast Frequency), subject to the following terms (collectively the "*Assignment*"):
1. HPR to obtain all governmental approvals. With assistance from the UNIVERSITY, HPR shall obtain any and all governmental approvals, at no cost to the UNIVERSITY that may be necessary to complete the Assignment, including, without limitation, any FCC approvals. The UNIVERSITY understands that certain FCC Forms need to be initiated and submitted by the UNIVERSITY. HPR will endeavor to assist the UNIVERSITY in the UNIVERSITY's efforts to complete the license assignment process.
  2. HPR to accept assignment "as is." HPR accepts the Assignment, including the Wiliwilinui Booster Site, the Wiliwilinui Booster Antenna, and the FCC License (including the Broadcast Frequency) in an "as is where is" condition, with no representations or warranties from the UNIVERSITY or any UNIVERSITY employee, student, consultant, agent, representative, and/or any person or entity acting on the UNIVERSITY's behalf (collectively the "*University Agents*") and with the condition that HPR will not assert any claims or actions against the UNIVERSITY or the University Agents relating to the condition of the Wiliwilinui Booster Site, the Wiliwilinui Booster Antenna, and/or the FCC License (including the Broadcast Frequency).
  3. HPR to release and discharge the UNIVERSITY. From and after the Effective Date herein, HPR hereby releases, waives, and discharges the UNIVERSITY from any responsibilities, obligations, claims, and/or actions relating to this Assignment, including those that may arise from the use of the Wiliwilinui Booster Site, the Wiliwilinui Booster Antenna, and/or the FCC License (including the Broadcast Frequency).
  4. HPR to indemnify, defend, and hold harmless the UNIVERSITY. HPR shall indemnify, defend, and hold harmless the UNIVERSITY and the University Agents from and against any and all any claims, demands, suits, actions, causes of action, judgments, injunctions, orders, rulings,



directives, penalties, assessments, liens, liabilities, losses, damages, costs, and expenses (including reasonable attorneys' fees and costs, by whomsoever incurred, sustained or asserted, including, without limitation, claims for property damage, personal injury, bodily injury, death, lost revenues and other economic loss, and/or environmental damage, directly or indirectly arising from or related in any way to exercise of any rights, the performance of any obligations, and/or acts or omissions of HPR and/or HPR's officers, employees, consultants, agents, representatives, or any person or entity acting on behalf of HPR (collectively the "**HPR Agents**") in connection with this Assignment and/or under or pursuant to this MOA and 1<sup>st</sup> Amendment.

5. HPR to pay for all assignment and operating costs. HPR shall pay for any and all costs relating to the Assignment and completing said Assignment, all without cost or expense to the UNIVERSITY. From and after the Effective Date herein, HPR shall assume responsibility and pay for any and all costs to operate, maintain, and keep in good condition and repair the Wiliwilinui Booster Site, the Wiliwilinui Booster Antenna, and the FCC License (including the Broadcast Frequency).
6. HPR to continue to allow KTUH Co-Location. HPR shall allow the UNIVERSITY to continue the KTUH Co-Location and continue to operate the KTUH Transmitter from the HPR Broadcast Tower, subject to the UNIVERSITY's rights, as described in this 1<sup>st</sup> Amendment, including the right to move to and operate from any relocated and/or new HPR Broadcast Tower.
7. MKB Agreement. HPR will secure its own use agreement with MKB for use of the Wiliwilinui Booster Site at HPR's sole cost. The UNIVERSITY will have no further responsibility and/or liability and shall not be bound by or required to perform any obligation under any such separate MKB/HPR use agreement.
8. University option. Prior to the expiration or sooner termination of the HPR Lease with DLNR, and only if HPR determines not to renew said Lease and not relocate, HPR agrees to grant the UNIVERSITY the first right of refusal to assume ownership of the HPR Broadcast Tower and the HPR Building (to the extent that HPR does not relocate the same to another location to continue HPR broadcast operations) and either accept assignment of the HPR Lease for the remaining Lease Term or seek a new lease with DLNR for the Leased Area. HPR shall give the UNIVERSITY at least ninety (90) days prior written notice of the expiration or early termination of the HPR Lease and the UNIVERSITY will thereafter notify HPR in writing whether and the extent to which the UNIVERSITY desires to have HPR transfer ownership of the HPR Broadcast Tower and the HPR Building to the UNIVERSITY. Once the UNIVERSITY so notifies HPR, HPR shall prepare the appropriate documentation and transfer ownership of the HPR Broadcast Tower and the HPR Building to the UNIVERSITY within sixty (60) days following the UNIVERSITY's written notice to HPR. HPR understands that certain FCC Forms may need to be initiated, completed and/or submitted by HPR in connection with any such transfer of ownership. The UNIVERSITY will endeavor to assist HPR in HPR's efforts to complete the transfer process. The UNIVERSITY acknowledges that the UNIVERSITY will be responsible for paying any and all costs involved

with obtaining any necessary government approvals, including FCC approval.

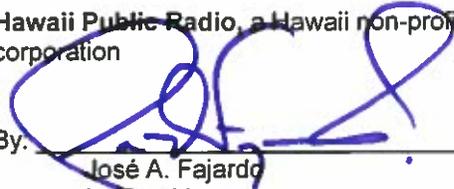
9. HPR Relocation. HPR may offer, subject to the UNIVERSITY obtaining proper FCC approvals, the UNIVERSITY space on its new or relocated broadcast tower that HPR moves to after the expiration or early termination of the HPR Lease. HPR agrees to allow the UNIVERSITY to co-locate the KTUH Transmitter to the New HPR Tower on terms similar to that contained in this MOA, as amended. HPR and the UNIVERSITY agree that the UNIVERSITY will be responsible for the costs of moving or relocating the KTUH Transmitter to the new or relocated HPR broadcast tower.
- E. KTUH Signal Strength Increase and Co-Location on other HPR Towers. If in the future KTUH desires to increase the strength of its broadcast signal from the HPR Broadcast Tower and/or co-locate KTUH transmitters and/or antennas to other HPR broadcast antennas and/or towers located on the islands of Kaua'i, Maui and/or Hawai'i, HPR shall consider these requests.
- F. HPR to allow KTUH to use HPR Kaheka Site. During the KTUH Co-Location and to connect to the KTUH Transmitter upon the HPR Broadcast Tower, the UNIVERSITY had to install an aural studio transmitter link which link consists of a microwave antenna, including a BEXT Transmitter (collectively the "KTUH Microwave Antenna"), upon the roof of the HPR Kaheka Street studio ("HPR Kaheka Site"). HPR has in the past allowed and will continue to allow the UNIVERSITY to operate the KTUH Microwave Antenna at the HPR Kaheka Site until the UNIVERSITY completes the relocation of the KTUH Microwave Antenna to a site within another UNIVERSITY campus within ninety (90) days to one hundred twenty (120) days following the Effective Date herein ("Move-Out Date"). Upon completion of such relocation, the UNIVERSITY will have vacated the HPR Kaheka Site. HPR will allow the UNIVERSITY to continue to operate the KTUH Microwave Antenna at the HPR Kaheka Site until the Move-Out Date. HPR shall cooperate with the UNIVERSITY in the UNIVERSITY's efforts to obtain all governmental approvals that may be necessary to stop KTUH operations at the HPR Kaheka Site and relocate the KTUH Microwave Antenna to another UNIVERSITY campus, including, without limitation, cooperating with the UNIVERSITY's efforts to modify its applicable FCC licenses and approvals to cover such relocation of the KTUH Microwave Antenna. The UNIVERSITY acknowledges that the UNIVERSITY will be responsible for paying any and all costs involved with obtaining any necessary government approvals, including any FCC approval and licenses.
- II. Same Definitions: Paragraph VI (Definitions) is hereby added to read as follows:  
"Terms with initial capital letters used in this 1<sup>st</sup> Amendment shall have the same meanings as that contained in the MOA."
- III. Counterpart signatures. Paragraph VII (Counterpart signatures) is hereby added to read as follows:  
"Counterparts; Electronic Signatures. This MOA and any amendments thereto may be executed in counterparts, each of which shall be deemed an original, and said counterparts shall together constitute one and the same agreement, binding all of the parties hereto, notwithstanding all of the parties are not signatory to the original or

the same counterparts. For all purposes, including, without limitation, recordation, filing, and delivery of this instrument, duplicate unexecuted pages of the counterparts may be discarded and the remaining pages assembled as one document. The submission of a signature page transmitted by facsimile (or similar electronic transmission facility) or by email shall be considered as an "original" signature page for purposes of this MOA or any amendments thereto."

IN WITNESS WHEREOF, the parties, by their duly authorized officers, have executed this MOA as of the Execution Date, to be effective as of the Effective Date.

HPR:

Hawaii Public Radio, a Hawaii non-profit corporation

By:   
José A. Fajardo  
Its President

DATE: 6-25-19

UNIVERSITY:

UNIVERSITY OF HAWAII', a body corporate and state university of the State of Hawaii'

By:   
David Lassner,  
Its President  
University of Hawaii'i

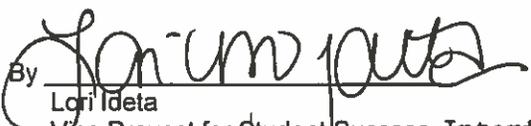
Date: 11/08/19

Recommend Approval:

By:   
Michael Bruno  
Its Provost and Vice Provost for Academic Affairs and Vice Provost for Research  
University of Hawaii at Mānoa

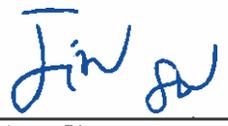
Date: 11/8/19

Recommend Approval:

By:   
Lori Ideta  
Vice Provost for Student Success, Interim Vice Chancellor for Students  
University of Hawaii at Mānoa



By   
~~Victor Timon~~ Spencer Oshita  
Interim Chair, UHM Student Media Board  
University of Hawai'i at Mānoa

By   
Wang Si  
KTUH General Manager





**UNIVERSITY  
of HAWAII**  
MĀNOA

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Student Life and Development  
2465 Campus Road, Campus Center  
Honolulu, Hawai'i 96822-2218  
Telephone: (808) 956-8178  
Fax: (808) 956-4810

MANOA COMMUNICATIONS  
CENTER

February 25, 2015

## MEMORANDUM

**TO:** Robert Bley-Vroman  
Chancellor

**VIA:** Lori Ideta *emi*  
Interim Vice Chancellor for Students

**VIA:** Bonnyjean Manini *By*  
Interim Director for Office of Student Life and Development

**FROM:** Sarah Yap *S. Yap*  
Director for Student Events and Campus Life  
Office of Student Life and Development

**SUBJECT:** KTUH FM 90.3 ANTENNA CO-LOCATION AGREEMENT WITH HAWAII PUBLIC RADIO

**SPECIFIC ACTION REQUESTED:**

It is requested that the attached Memorandum Agreement between KTUH FM 90.3 and Hawaii Public Radio be signed so that the agreement can be executed.

**RECOMMENDED EFFECTIVE DATE:**

Upon obtaining all required signatures.

**ADDITIONAL COST:**

There is no cost to enter into this agreement with Hawaii Public Radio. Hawaii Public Radio is a partner in learning for the students at KTUH. However, there will be costs related to the installation of the KTUH antenna. KTUH has set aside funds from their radiothon and donations to pay for the antenna colocation with Hawaii Public Radio on Tantalus. The cost to construct a KTUH owned tower to house an antenna would be too costly. This solution is a more cost effective option.

Attachment: Memorandum of Agreement between the University of Hawaii and Hawaii Public Radio

APPROVED / DISAPPROVED:

*R Bley-Vroman*

*3/8/15*

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Robert Bley-Vroman  
Interim Chancellor

Date

Cc: Nick Clutteffi, KTUH General Manager  
Alicia DeVoll, Student Media Board Chair

WHEREAS, HPR and the UNIVERSITY plan to seek such approval from the State Department of Land and Natural Resources and/or Land Board as may be necessary under the HPR Lease to accomplish the co-location of a KTUH Transmitter to the HPR Building and HPR Broadcast Antenna (hereafter collectively the "KTUH Co-location"),

NOW, THEREFORE, in consideration of the mutual covenants and promises herein made, the parties do hereby agree as follows:

I. Term of Agreement:

The term of this MOA shall be for the duration of the HPR Lease, including any extensions to the HPR Lease and/or HPR's continued ownership of the HPR Broadcast Antenna.

II. KTUH Relocation Area:

HPR and the UNIVERSITY acknowledge and agree that the KTUH Co-location will be accomplished by installing the KTUH Transmitter partially in the HPR Building (as shown on the map attached hereto as Exhibit A and incorporated herein by reference) and partially on the HPR Broadcast Antenna (as shown on the map attached hereto as Exhibit B and incorporated herein by reference), which together shall comprise the HPR Lease area to be made available to the UNIVERSITY for the KTUH Transmitter and the KTUH Co-location under this MOA.

III. UNIVERSITY responsibilities:

A. Installation and operation of the KTUH Transmitter. The UNIVERSITY shall be responsible, at the UNIVERSITY's expense, for installing, connecting, and operating the KTUH Transmitter upon and at the HPR Antenna.

B. Payment of pro-rata share of common expenses. The UNIVERSITY will be responsible for paying a pro-rata share of one third (1/3) of common expenses incurred in relation to the maintenance and repair of the HPR Broadcast Antenna (hereafter the "UNIVERSITY's Share").

1. UNIVERSITY's Share. The UNIVERSITY's Share was determined based on the number of broadcast stations operating from the HPR Building and the HPR Broadcast Antenna, with HPR having and operating two (2) broadcast stations and KTUH having and operating one (1) broadcast station. Such expenses shall include periodic servicing and repair of the HPR Broadcast Antenna and emergency or short notice repairs but shall not include any costs to upgrade, improve, or expand the broadcasting range or quality of the HPR Broadcast Antenna.

2. HPR Budget. HPR shall notify the UNIVERSITY in writing at least thirty (30) days prior to the start of each fiscal year (July 1) regarding the estimated annual amount of the maintenance and repair costs for the HPR Broadcast Antenna ("HPR Budget") and the amount of the UNIVERSITY's Share. The UNIVERSITY shall review the HPR Budget and the UNIVERSITY's Share and notify HPR within ten (10) days of receiving the HPR Budget of any issues or concerns that the UNIVERSITY may have with respect to the HPR Budget and/or the UNIVERSITY's Share. HPR shall address the UNIVERSITY's issues/concerns and respond to the UNIVERSITY's within ten (10) days

UNIVERSITY, at no cost to the UNIVERSITY, keys and combinations to locks, as may be necessary to allow the UNIVERSITY such access to the HPR Leased Area, the HPR Broadcast Antenna, and the HPR Building.

- B. Use of HPR generator. HPR will allow the UNIVERSITY to connect to and use the HPR generator(s) located on the HPR Leased Area in case of emergencies and power outages.
- C. Maintenance and repair of HPR areas. HPR shall be responsible, at HPR's expense, for keeping the HPR Leased Area, the HPR Broadcast Antenna, and the HPR Building (collectively the "HPR Areas") in good condition and repair and shall maintain the same, including, without limitation, making all structural repairs (e.g., roof replacement) and expending such capital costs as may be necessary to keep the HPR Areas in good condition and repair. HPR shall not include as part of the HPR Antenna Costs and/or charge the UNIVERSITY for any such structural repairs or capital costs incurred by HPR.
- D. Grant for others to use HPR Areas. HPR shall give the UNIVERSITY written notice prior to granting other persons or entities the right to install, connect, use, or operate from the HPR Broadcast Antenna and/or the HPR Building. HPR shall promptly and timely respond to any concerns raised or identified by the UNIVERSITY and try to resolve such concerns prior to allowing such other persons and entities access to the HPR Areas.
- V. Insurance. The UNIVERSITY, as an agency of the State of Hawaii, is self-insured and is willing to provide HPR with a Statement of Self-Insurance (which will be prepared by the State of Hawaii Department of Accounting and General Services Risk Management Office) upon request by HPR..
- VI. Modifications to the MOA

Any modifications to this MOA shall be in writing and signed by both parties.

IN WITNESS WHEREOF, the parties, by their duly authorized officers, have executed this MOA as of the date first above written, to be effective as of said date.

[Remainder of Page Intentionally Left Blank]  
[Signature pages to follow]

# KTUH "THE ONLY STATION THAT LOVES YOU"

Increasing reach, partnering with the community and servicing the public interest.



## KTUH EARLY BEGINNINGS

- KTUH's roots go back as far as 1954 as KUOH but abruptly dissolved in 1957. It was revived again in 1966 by Fred Barbara and Ken Kuniyuki, two engineering students who stumbled on broadcasting equipment lying around. KUOH was resurrected on 10 watts of power. Ken, an ASUH Senator, obtained start up funding from ASUH and with the support from Speech Communication Department Chair Richard Rider, the station began broadcasting as KTUH.
- KTUH operated in Hawai'i Hall under the direction of the Speech Communication Department. It broadcasted on a closed AM feed to East-West Center, student housing and Hemenway Hall student lounge.
- KTUH was the first non commercial FCC licensed radio station in the state of Hawai'i in 1969. KTUH expanded its reach to Makiki, Kaimuki, Manoa, Downtown and Waikiki on 90.5 mHz (1965 - 1985).
- In 1971, KTUH delivered the first quadrophonic sound radio program in Hawai'i.
- In 1972 - 1975, KTUH broadcasted 24/7, 7 days a week with live DJs. Later that year, KTUH began transmitting to Hawai'i Kai via Kaiser Teleprompter (cable) on 90.9 mHz. The North Shore received FM stereo sound for the first time via KTUH's Mount Ka'ala booster translator on 91.1 MHz.



## KTUH MILESTONES

- In 1977, administrative support for KTUH is moved to the Bureau of Student Affairs (currently known as the Office of Student Life and Development).
- In 1979, KTUH moved to Hemenway Hall after receiving an appropriation from the State Legislature in 1974 and funding from the Campus Center Board for the construction of a new studio.
- In 1983, Broadcast Communication Authority is chartered by the Board of Regents to oversee student broadcast programs which primarily included KTUH. KTUH began receiving mandatory student fees as part of this incorporation.
- In 1985, KTUH increased its broadcast strength from 10 watts to 100 watts allowing it to be heard on the North Shore. The booster translator is still used for improved quality to the North Shore.
- In 1995, KTUH launched its website at [ktuh.org](http://ktuh.org).
- In 2001, KTUH increased its broadcast power from 100 watts to 3K watts and solidifies its on air presence in Honolulu. A new 90 foot tower, a 4-bay antenna and a translator are installed at Saunders Hall. Additionally, KTUH can be heard online at [ktuh.org](http://ktuh.org) for the first time.
- In 2005, KTUH installed a booster translator on the Wiliwili Ridge to improve its signal to East Honolulu.



## KTUH 2016 POWER INCREASE

- In 2016, KTUH underwent another power increase from 3K watts to 7K watts with the colocation with Hawai'i Public Radio on its tower at Tantalus. This power increase allowed KTUH to be heard island wide.
- KTUH entered into an agreement with Hawai'i Public Radio for this colocation. The colocation with HPR was approved by the Board of Land and Natural Resources as well as the FCC. With the agreement with HPR, KTUH was allowed to locate its antenna rent free and access HPR's power resources available at the site.
- KTUH call letters changed to 90.1 to minimize encroachment by other signals.
- KTUH no longer needed its Williwilui booster translator and began broadcasting HPR content from this site.
- During the construction of the KTUH antenna on Tantalus, it was found that the signal from the studio could not be transmitted directly to the Tantalus antenna.
- A second microwave hop needed to be installed on the roof of the Hawai'i Public Radio studio at Kaheka Street as a temporary fix.
- In 2018, KTUH finalized the relocation plans of the 2<sup>nd</sup> hop microwave antenna and received approval and assistance from ITS to locate it on the roof of the Honolulu Community College Library (KTUH HCC Project).
- In 2019, KTUH's HCC project is initiated allowing transmission via the UH network. The project is expected to be completed in Spring 2020.



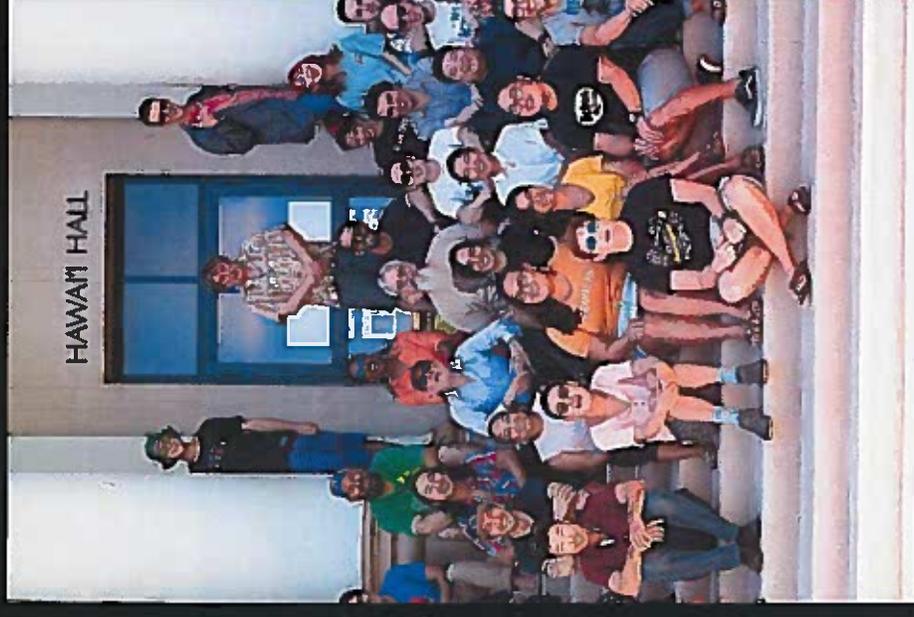
## SIGNIFICANCE OF THE 2016 POWER INCREASE

- KTUH formalizes its community partnership with Hawai'i Public Radio.
- Increasing its audience and reach allows KTUH to be of public service on air to the island of O'ahu and beyond through its online service.
- KTUH improves its professionalism and accountability because of its increase in market share.
- In Spring 2019, per Nielsen ratings, KTUH ranked 3<sup>rd</sup> among Hawai'i radio stations, Monday – Friday, from 7P – midnight, behind KSSK and KDDB (Da Bomb).
- KTUH is able to solidify its infrastructure by using the UH network and data center to house its servers.



## THE FUTURE IS BRIGHT

- Preserve KTUH assets, particularly related to the creative freedom that DJs have, the emphasis on student led management of the station, and ensuring that the station continues to be a learning lab for students regardless of their fields and interests.
- Pursue avenues to increase student listenership by improving online access.
- Continue to improve radio broadcast on island.
- Continue collaborative community relationships.
- Expand opportunities for fund development in order to secure discretionary funds to support the station when typical operational funds are low.
- Increase community support base for KTUH.





KTUH 2019