

NTTW4 BUDAPEST December 6th, 2019



As those with the technical knowledge to repair and maintain analog video playback equipment aged out of the professional field, the ability to steward the equipment for preserving analog video to standards becomes an endangered skill set at risk of being lost.



## MAGNETIC MEDIA









## OBSOLETE!!!:(



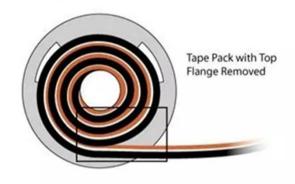


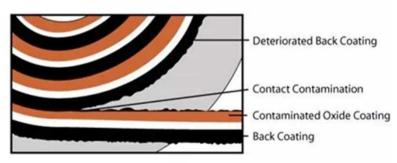




### MAGNETIC MEDIA

Sticky Shed: Contact Contamination

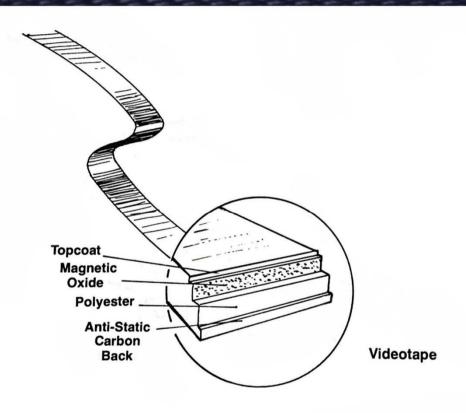






LEFT: https://vhsconversion.wordpress.com/2012/03/13/sticky-shed-syndrome/
RIGHT: https://www.canada.ca/en/conservation-institute/services/preventive-conservation/guidelines-collections.html

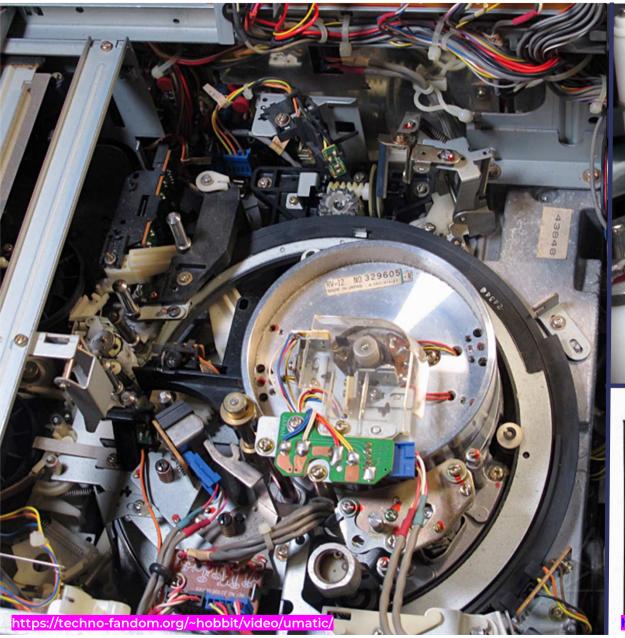
## FUGITIVE MEDIUM!

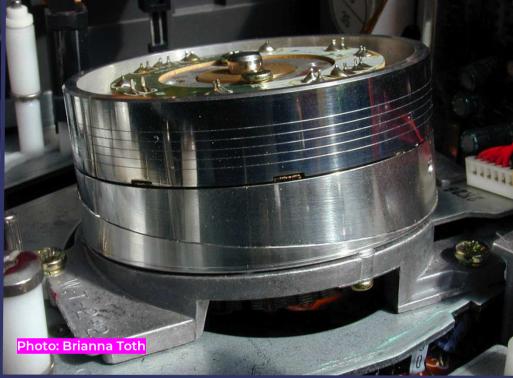




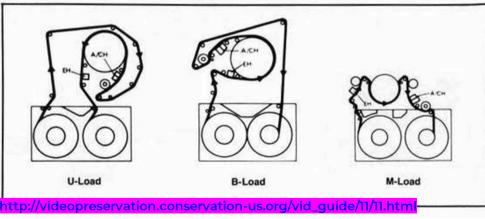
LEFT: Charles Bensinger, The Video Guide, Santa Barbara: Video-Info Publications, 1979: 71.

RIGHT: https://www.canada.ca/en/conservation-institute/services/preventive-conservation/guidelines-collections.html

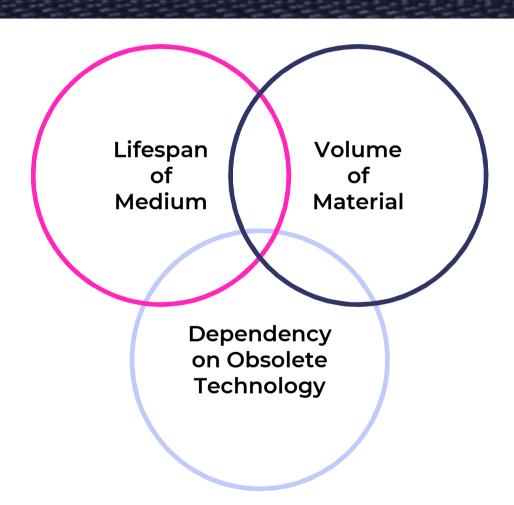




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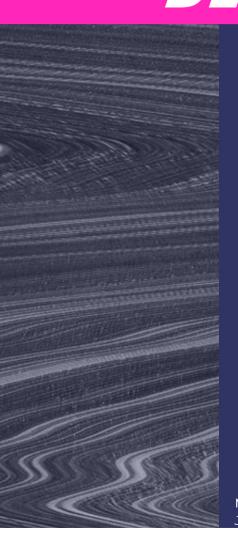
## MAGNETIC MEDIA CRISIS



#### "DEGRALESCENCE"

- END of manufacturing
- END of availability in the commercial marketplace
- END of bench technician expertise
- END of bench technician tools
- END of calibration and alignment tapes
- END of parts and supplies
- END of availability in the marketplace
- END of playback expertise

Mike Casey, "Why Media Preservation Can't Wait: The Gathering Storm." International Association of Sound & Audiovisual Archives
Journal, no. 44. (January 2015): 14-22.





# 2028

#### **APPROXIMATELY 10-15 YRS LEFT**

"In the mid-to long-term there is a major risk that carrier degradation combined with playback obsolescence will defeat the efforts of archivists..."

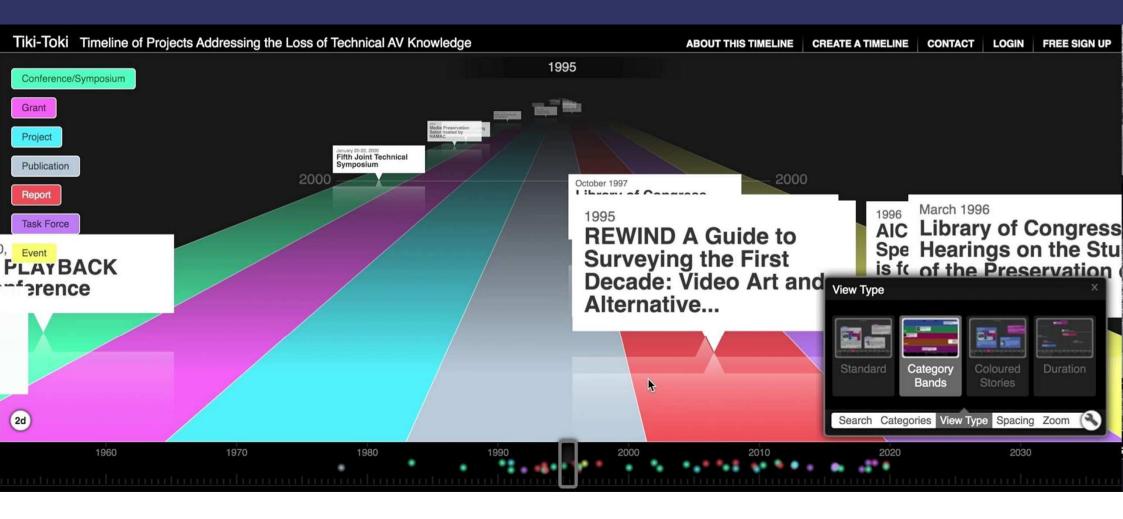
Task Force to establish the Selection Criteria of Analogue and Digital Audio Contents for Transfer to Data Formats for Preservation Purposes, International Association of Sound and Audiovisual Archives (IASA) Editorial Group (2003)



#### TIMELINE VISUALIZATION



#### TIMELINE VISUALIZATION



#### **EMPHASIS ON PHYSICALITY OF MAGNETIC TAPE**

Chemical makeup of magnetic tape, a potential video preservation format, cleaning techniques, proper storage conditions, video error identification

#### FINDINGS

#### **CATALOGUING STANDARDS**

Believed in the 90s documentation was the first step to preservation and would assist with record sharing and grants.

#### **PLAYBACK EQUIPMENT ABSENT**

If included, it was a brief mention or footnote and the main focus remained carrier and object specific.

#### EQUIPMENT RELATED INSTANCES

- **2005** "The Artist Instrumentation Database Project" by Mona Jimenez
- 2008 "IMAP Obsolete Videotape Playback Equipment Project: National Survey Final Report" prepared by Jeffrey Martin
- **2012-2014** Michael Angeletti's "EIAJ Refurbishment Project" at Stanford Preservation Lab
- **2015** BAVC submits "All Hands on Deck" Proposal to NEH twice without success
- **2019** UNESCO's Information for All Programme (IFAP) Working Group on Information Preservation launches the "Magnetic Tape Alert Project"

#### EQUIPMENT RELATED INSTANCES

**2008** "IMAP Obsolete Videotape Playback Equipment Project: National Survey Final Report" prepared by Jeffrey Martin







#### HANDS-ON TECHNICAL PROFICIENCY & "GETTING UNDER THE HOOD"

#### BAVC's "All Hands on Deck" NEH Proposal

- 1. 30-hour training curriculum
- 2. Use the curriculum to teach a hands-on training workshop to 10 audiovisual archivists
- Develop an online resource that made the curriculum freely available

## PROS & CONS

PRO	PRO	CON	CON
Thorough and ensures knowledge is passed on correctly	Tried and tested	Cannot be applied on a large scale:  Few can be taught at once and few who can teach	Time intensive nature of approach at odds with lifespan of medium







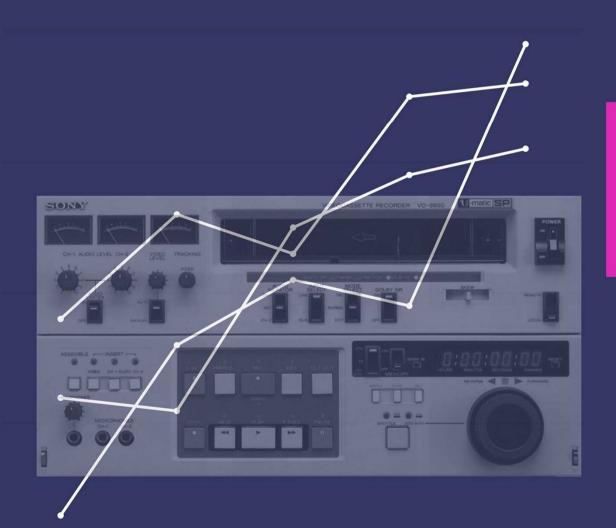
#### **LARGE SCALE MIGRATION & DIGITIZATION**

#### Indiana University Bloomington's Memnon-Sony Partnership

- MDPI is spearheaded by Mike Casey
- Massive digitize effort to transfer 350,000 items of significant media holdings by 2020
- Academic and corporate partnership

#### PROS & CONS

CON CON PRO **PRO** Tried and tested Example of Difficult to find Specific nature of marriage of incentive for approach may not archives and be possible to companies to industry: sharing replicate elsewhere replicate: volume & propriety competition knowledge



## MEASURING SCALABILITY

#### **IRB SURVEY DESIGN**

Survey was approved by the IRB in June

Widely distribute in January 2020

# **SKILLS**from AHOD grant proposal

- Tools required for playback machine repair
- Prepping tapes for playback
- Knowledge of the tape path (and ways to align the tape path)
- Proper cleaning techniques (for each format)
- Salvaging equipment from broken decks
- Servicing the video drum (and video heads)
- Tension adjustments
- Basic equipment testing
- Replacing belts
- Demagnetization
- Basic electronics for VTR maintenance (learning how to read schematics and circuit boards)

## PLATFORMS

timeline instances

- Apprenticeships/mentorships
- Intensive workshops w/curriculum
- Partnerships with proprietary companies
- Co-op for spare parts or consortium to buy parts in bulk
- Narrated online demos
- Database of technical manuals
- Oral histories
- 3D printing of parts

#### BUILD ON EXISTING DATA

- Library of Congress's Television and Video Preservation Report (1997)
- A Public Trust at Risk: The Heritage Health Index Report on the State of America's Collections (2005)
- Magnetic Media Survey by Sarah Nguyen, Jared Nistler, and Darach Miller (2019)
- UNESCO's Magnetic Tape Alert Project (2019/2020)

#### RESPOND TO FEEDBACK

- What is the state of having access to equipment repaired?
- Who's doing repairs now? How does throwing more people into that pool help?
- Do the people coming to workshop have an inhouse crew at their own institution? Are the skills usable as soon as they get back to their home institutions?
- Is "creating jobs" a part of this?
- Who is the target audience (ex. early career, late period librarian, student, technician, etc.)?
- What are the tangible ways this helps AV archives?

#### POSSIBLE OUTCOMES













**FORMAT SPECIFIC PRESERVATION PRIORITIES** AND **TRENDS** 

**STRATEGICALLY MATCH** 

RESOURCES, SKILLS **AND NEEDS** 

**USE IDENTIFIED** SKILLS, CASE STUDY MODELS **AND POTENTIAL PLATFORMS MODULARLY** 

