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;;;Learning Times 131023
>> HELLO, EVERYONE.
I HOPE YOU CAN HEAR ME OKAY.
OUR PRODUCER IS HAVING WORK DONE
ON HIS HOUSE.
THANK YOU FOR JOINING US TODAY.
SO, I'M GOING TO JUST QUICKLY DO
A INTRODUCTION.
WE HAVE A LOT TO COVER TODAY.
IT LOOKS LIKE RIGHT NOW WE HAVE
ABOUT A HUNDRED AND 48 PEOPLE
SIGNED ON NOW.
IT'S GREAT TO SEE SO MANY OF YOU
AND FAMILIAR NAMES.
IT'S GREAT TO YOU HAVE BACK.
PLEASE CONTINUE TO SAY HELLO IN
THE CHAT BOX.
THROUGHOUT THE SESSION PLEASE
FEEL FREE TO POST YOUR QUESTIONS
IN THERE.
WE WILL GET TO THEM AT BREAKS OR
TOWARDS THE END.
WHAT MIKE WOULD NORMALLY TELL
YOU GUYS, IF YOU'RE HAVING
ISSUES WITH SOUND.
IT LOOKS LIKE HEATHER MIGHT BE.
MIKE AND I WILL TRY TO HELP YOU
IN THE CHAT BOX.
LET US KNOW IF YOU'RE HAVING
SOUND ISSUES WELL.
WILL COMMUNICATE WITH YOU
THROUGH THERE.
BECAUSE, AGAIN WE HAVE SO MUCH
TO COVER.
I'M GOING TO MAKE THIS SHORT.
AS MANY OF YOU KNOW OUR ENTIRE
SERIES OF ON-LINE COURSES ARE
POSSIBLE BY A LIBRARIAN GRANT
FROM THE INSTITUTION OF MUSEUMS
AND LIBRARY SERVICES.
FOR THIS -- ORGANIZING OUR
SPEAKERS AND ALSO ALL OF THE
WONDER FULL MATERIALS I HOPE YOU
GUYS ARE USING.

I'M HAPPY TO WELCOME BACK LAURA WHO WILL BE ONCE AGAIN FIELDING YOUR FANTASTIC QUESTIONS.

>> THANK YOU, JENNY.

GLAD TO BE HERE.

HAPPY TO BE ABLE TO HELP IN BEING PART OF THE PRESERVATION AND BRINGING THE PROGRAMS TOGETHER.

HERE WE ARE A NON PROFIT REGIONAL CONVERSATION LAB.

WE HAVE QUITE A BIT OF EXPERIENCE WITH AUDIO-VISUAL MATERIALS AS WELL.

THANK YOU FOR HAVING US.

LOOK FORWARD TO THE TALK TODAY.

>> LAWYER, THANK YOU.

OUR CORE SCHEDULE IS OUR THIRD WEBINAR.

WE WILL MEET FOR A FOURTH TIME ON MONDAY DATE AT 2:00 O'CLOCK EASTERN.

SAME PLACE, SAME TIME.

YOU'RE WELCOME TO WORK TOWARDS A CERTIFICATE OF COMPLETION.

IF YOU'RE INTERESTED IN DOING SO WE ASK YOU TURN YOUR HOMEWORK ASSIGNMENTS NO LATER THEN WEDNESDAY NOVEMBER 6th.

IF YOU HAVE QUESTIONS FEEL FREE TO CALL OR E-MAIL US.

WE'RE HERE TO HELP YOU.

TO MOVE ONTO OUR TOPIC I'M PLEASED TO WELCOME OUR SPEAKER. LINDA TADIC.

-- A NON PROFIT LIBRARY FOR HISTORICAL SOUND AND MOVIE COLLECTIONS.

SHE CONSULTS AND GIVES LECTURES WITH A DIVERSE GROUP OF CLIENTS. FROM 2004 TO 2011, LINDA WAS AN A DJUNT PROFESSIONER.

SHE HAS MORE THAN 25 YEARS OF EXPERIENCE MANAGING -- AND SERVED PREVIOUSLY AS THE ASSOCIATION OF MOVING IMAGE.

LINDA, WE'RE HAPPY TO HAVE YOU

ONBOARD TODAY.

THANK YOU FOR JOINING US.

>> THANK YOU, JENNY.

HELLO, EVERYONE.

THANK YOU TO THE HERITAGE
PRESERVATION FOR INVITE MEG TO
PARTICIPATE IN THIS WEBINAR.
NOW I DO HAVE APOLOGIES FOR THE
LARGE NUMBER OF POWERPOINT
SLIDES.

FOR THOSE WHO DOWNLOADED THE PDF
VERSION OF THE PRESENTATION.
THIS ARE MANY, MANY FORMATS,
VIDEO FORMATS.

>> Tom: IDENTIFY THEM I WANTED
TO GIVE YOU DETAILS IMAGES.
THE COLOR VERSION OF THE
POWERPOINT VERSION IS VERY
IMPORTANT BECAUSE SO MANY
ASPECTS OF IDENTIFICATION RELY
ON COLOR, THE COLOR OF THE VIDEO
CASSETTE.

SO, LET'S GET GOING HERE.
WHAT WE'RE COVERING TODAY ARE
PHYSICAL PROPERTIES OF NOT JUST
VIDEO BUT OPTICAL MEDIA.
PRESERVATION ISSUES, AND FORMATS
AND IDENTIFICATION.
WHAT WE WILL NOT COVER IS
DIGITIZATION.

THAT WILL BE COVERED NEXT WEEK
AND CATALOGING AND MET ADATA.
WE WILL NOT COVER THAT AS WELL.
SO, THE RESOURCES ON-LINE.
THERE IS A BIBLIOGRAPHY OF WEB
BASED READINGS, A LIST OF
PRESERVATION LABS IN THE U.S.
SORRY IF YOU'RE NOT IN THE U.S.
THEY HAVE EXPERIENCE WITH
ARCHIVAL VIDEO PRESERVATION.
THERE IS A LIST OF CURRENT VIDEO
FORMATS WE WILL REFER.

>> Tom: THERE IS AN ADDITIONAL
LISTING THE VIDEO FORMATS WE
WILL DISCUSS AS A CHEAT CHEAT TO
KEEP TRACK.

THERE ARE LIKE 30 FORMATS, A

LOT.
LET'S GET STARTED.
WITH VIDEO.
IN BRIEFS IF IT HAS BRACKETS
IT'S FILM.
IF NOT VIDEO.
NOW THOSE WHO ATTENDED THE PRESS
ENIZATION ON AUDIO YOU HAVE
PROBABLY HEARD THIS INFORMATION.
AUDIO TAPES AND VIDEO TAPES ARE
MAGNETIC MEDIA. VIDEOS SHARE
PHYSICAL PROPERTIES WITH AUDIO
TAPES AS WELL.
VIDEO CAN COME IN REEL OR
CASSETTE FORM.
ALSO VIDEO CAN CARRY ANALOG AND
DIGITAL SIGNALS JUST LIKE AUDIO
TAPE.
>> THE PRIMARY CONCERNS WITH
VIDEO IS THE FORMATS.
IDENTIFICATION CAN BE DIFFICULT.
WHY SO MANY FORMATS?
MANY HAVE BECOME OBSOLETE.
THERE IS A SHORT LIFE
EXPECTANCIES.
CONCERNS FOR THE ENVIRONMENTAL
AND ORGANIC, INHERENT PARTS OF
THE MEDIUM, AND WHAT HUMAN BEING
BEINGS DO TO DETERIORATE TAPES.
HOW DID VIDEOTAPES START IN
THANK YOU, BING CROSBY.
HE WANTED TO RECORD AND WATCH
HIS PERFORMANCES AND THEN HE
WANTED TO RECORD HIS TELEVISION
PERFORMANCES.
HE GAVE FUNDING TO START
DEVELOPING MAGNETIC VIDEOTAPE.
THE O, ORIGINAL MARKET WAS IN
BROADCASTING.
NOW LIKE OTHER TIME-BASED MEDIA.
IT QUICKLY MOVED AND FORMATS
WERE DEVELOPED FOR THE CONSUMER
MARKET.
VIDEOTAPE WAS NEVER INTENDED AS
A PRESERVATION MEDIUM.
THERE ARE OVER 60 FORMATS
INTRODUCED SINCE 1966.

UNFORTUNATELY MOST ARE OB SLEET.
WE ARE COVERING 30 OF THEM
TODAY.

BEFORE WE DELVE INTO THEM LET'S
UNDERSTAND THE GENERAL
PRESERVATION CONCERNS.

THIS VIDEO IS FROM A CLEAR
DOCUMENT ON MAGNETIC TAPE
STORAGE AND HANDLING.

I BELIEVE IT'S A REFERENCE FOR
OTHER WEBINARS IN THE SERIES.
QUICKLY, THIS IS A WONDERFUL
DOCUMENT.

YOU HAVE THE BACKCOAT ON THE
BOTTOM.

A THIN RIBBON WHICH EVERYTHING
SITS ON TOP.

THE SUB STRAIGHT IS MADE OF
POLYESTER, THE CARRIER FOR THE
BINDER AND MAGNETIC PARTICLES TO
SIT.

THE BINDER, THE ORANGE AREA ON
THE TOP OF THAT.

THAT HOLDS THE MAGNETIC PART
CAPS THAT CONTAIN THE -- AND THE
LUBRICANT.

IT'S LIKE JELLO WITH MARSHMALLOW
AND FRUIT HELD ON TOP WITH THE
TOP COAT, A SKIN.

ALL OF THESE PROPERTIES HAVE
SOME PROBLEMS.

THE SIX THERE ARE FOYER THAT
CONTRIBUTE TO SIGNAL
DEGRADATION.

WE WILL GO THROUGH EACH OF THESE
AND DISCUSS THE ISSUES.

THE BINDER HOLDS MAGNETIC
PARTICLES.

THIS IS THE WEAKEST IN
VIDEOTAPE.

IF THERE IS MOISTURE IN THE AIR.
I KNOW SEVERAL OF YOU ARE IN
HIGH HUMIDITY ENVIRONMENTS IT
CONTRIBUTES TO WHAT IS COMMONLY
CALLED STICKY SHED SYNDROME.

IT'S STICKY, THE BINDER BREAKS
APART AND THE MAGNETIC PARTICLES

SHED WHEN THE TAPE IS PLAYED.
NOW TAPES THAT HAVE BEEN PLAYED
CAN BE DAMAGED AFTER THE
VIDEOTAPE THAT HAS SHEDDED.
IT STICKS TO THE MAGNETIC
PLATES.

THAT CAN CAUSE DROP OUTS IN THE
SIGNAL.

A RESOURCE ON THE BIBLIOGRAPHY
IS HOSTED AT.

SO, I ENCOURAGE YOU TO LOOK AT
THE EXAMPLES OF DROP-OUTS AND
THE OTHER PROBLEMS WE WILL BE
SUSSING.

BINDER, CAN CAUSE MOLDY TAPES.
THIS IS QUAD TAPE TRANSFER.
THIS WEBSITE HAS EXAMPLES OF
MOLD AND DETERIORATION FOCUSING
ON TWO INCH QUAD TAPES.

HOW CAN YOU TREAT THIS?

ONCE TYDROLYSIS STARTS YOU CAN
PERMANENTLY STOP IT -- CAN'T BE.
IF YOU HAVE EXPERIENCE TO -- I
HIGHLY RECOMMEND YOU TAKE IT TO
A PROFESSIONAL TO HAVE IT BAKED.
ONCE IT'S BAKED YOU HAVE TO
TRANSFER THE CONTENT PRETTY
SOON.

IT'S BEEN STABILIZED.

TREATING THE MOLD.

YOU MUST CAREFULLY TREAT THE
MOLD.

UNLESS YOU HAVE A LAB SET UP TO
DEAL WITH MOLD TAKE IT TO A
PROFESSIONAL.

NOT ONLY CAN YOU RUIN THE TAPE
IF YOU DON'T KNOW HOW TO DO IT
CORRECTLY BUT YOU CAN DAMAGE
YOUR HEALTH BREATHING IN THE
MOLD SPORES.

LUBRICANT THAT'S THE SECOND
COMPONENT OF THE TAPE.

THE LUBRICANT HELPS THE TAPES
MOVE THROUGH THE DECK BUT IT
NATURALLY DRIES OUT OFFER TIME.

ESPECIALLY HOT AND DRY
ENVIRONMENTS EXCEL BROUGHT IT

DRY TAPES BECOME BRIT CAL AND GET STUCK IN PLAY BACK TAPES AND DAMAGE THE TAPES.

>> THEY CAN BE RELUBRICATED BUT TAKE IT TO A PROFESSIONAL.

IF YOU OVER LUBRICATE IT CAN CAUSE SIGNAL LOSS.

>> NOW THE MAGNETIC PARTICLES. THIS IS CRITICAL, THEY STORE THE INFORMATION AND IS HELD IN THE BINDER.

THERE IS NOTHING YOU CAN DO TO RESUPPLY PARTICLE LOSS.

YOU WILL HAVE DID I MINED HUE, COLOR AND REDUCED SOUND FROM THIS.

THERE ARE SEVERAL KINDS OF MAGNETIC PARTICLES.

FIRST IRON OXIDE.

THEN THEY IMPROVED ON THAT AND DEVELOPED COBALT-DOPED IRON OX SIDE.

THEN THEY DEVELOPED CHROMIUM OXIDE OR CR₂O₃.

YOU FIND THAT IN EARLY VHS TAPES AND CASSETTE TAPES.

THEY HAVE OX SIDE.

OX SIDE PLUS MOISTURE EQUALS RUST.

>> SO TRYING TO TAKE CARE OF THAT PROBLEM WITH HAVE THE BARIUM FERRITE PARTICLES DEVELOPED.

A LONGER LIFE EXPECTANCY.

MOST TAPES TODAY ARE CREATED WITH METAL PARTICULATE PIGMENTS. IT'S BEEN MOVED FROM BETA MT TO THE PRESS SENT.

THEY'RE PROTECTED FROM MOIETY YOU'RE IN THE AIR.

THEY DON'T DETERIORATE AS QUICKLY.

ON THE OTHER HAND IF THEY'RE EMERSED IN WATER IT'S DIFFICULT TO RESTORE THE TAPES.

NOW ME TAPES.

WE WILL HEAR ABOUT ME DURING THE

PRESENTATION.
METAL EVAPORATED TAPES.
TKHOEPBT HAVE A BINDER.
PARTICLES ARE IN THE TAPE SUB
STRAIGHT.
YOU WILL FIND THESE IN THE MALL
CASSETTES.
MINI CAMS.
THEY HAVE A THINNER MAGNETIC
COATING.
THE TAPES ARE MORE FRAGILE.
YOU CAN STORE UP TO TWO HOURS OF
DON TENT.
THESE ARE THIN TAPES.
THEY'RE FRAGILE.
IF YOU DO REPEATED PLAYING OR
LEAVE THE TAPE IN PAUSE IT CAN
DAMAGE THE TAPE.
THIS IS MORE ANECDOTAL QUOTES WE
SAY.
WE FOLLOW THE FIVE PLAY RULE.
DON'T PLAY THE ME TAPES MORE
THAN FIVE TIMES.
THEN YOU HAVE TO TRANSFER IT.
SO AVOIDING PARL CAL LOSS.
ONCE IT'S GONE IT'S GONE.
KEEP THE TAPES COOL AND DRY.
TRANSFER FROM THE ME TAPE AS
SOON AS POSSIBLE.
DON'T LEAVE TAPES IN PAWS.
DON'T PLAY THEM MORE THAN FIVE
TIMES BEFORE YOU TRANSFER THEM.
IF YOU SEE HE HAD DENSE OF MET
CAL PARTICLE LOSS SHOULD YOU
TRANSFER THAT RIGHT AWAY.
>> THE SUB STRAIGHT, ANOTHER
KPWOEPBENT OF VIDEOTAPE.
THIS IS MADE OF POLYESTER.
THIS SUPPORTS THE MAGNETIC
COATING AND EVERYTHING ON IT
IT'S CHEMICALLY STABLE.
IT CAN STRETCH.
IT CAN BE STRETCHED BY A POOR
TAPE PACK AND HIGH HUMIDITY AND
TEMPERATURE.
IF IT STRETCHES THE CONTROL
TRACK CAN BE DAMAGED.

THE TAPE WILL RUN THROUGH THE
DECK.
THE CONTROL TRACK.
THIS ISN'T A PHYSICAL PROPERTY
IT IMPACTS WHETHER AN ANALOG
TAPE CAN BE READ.
THIS ACTS AS A SPROCKET.
IT'S A PULL ON THE EDGE THAT
DRIVES THE TAPE THROUGH THE
VIDEO RECORD ERA CORDING TO THE
SPEED ON THE CONTROL TRACK.
IF IT'S DAMAGED YOU CAN HAVE
DROP OUTS ON THE TAPE.
IT WILL RUIN THE SYNC BETWEEN
THE TAPE AND VCH AND YOU CAN SEE
GLITCHES.
>> TO AVOID SUBSTRATE DEMORE FOR
PHAEUGS STORE TAPES IN A COOL
AND DRY ENVIRONMENT.
MAKE SURE THE TAPE HAS AN EVEN
"PACK."
NO POPPED STRANDS.
MAKE IT AS FLAT AS POSSIBLE.
SO BASIC PARTS OF VIDEOTAPE
CONVERSATION.
VIDEOTAPE LIFE EXPECTANCY.
IT WON'T JUST DISAPPEAR ON
DECEMBER 31, 2013.
IT MEANS THE TAPE IS
DETERIORATING AND YOU SHOULD
TRANSFER THE CONTENT.
FOR VIDEOTAPE IT'S 5-50 YEARS.
IT DEPENDS ON THE FORMAT AND THE
TAPE STOCK AND STORAGE
ENVIRONMENT.
WHAT DO YOU DO TO EXTEND THAT
LIFE EXPECTANCY?
LITTLE STEPS.
MAKE SURE THE TAPE.
EVERY CASSETTE BASED TAPE HAS A
RECORD AND SAVE TAB OR BUTTON ON
IT.
WHEN WE GO THROUGH THE FORMATS I
WILL POINT OUT WHERE TO FIND THE
SAVE BUTTON.
MAKE SURE IT'S TURNED TO SAVE.
>> STORE THE TAPES STANDING UP

LIKE BOOKS.
IF THEY'RE STORED FLAT GRAVITY
WILL LOOSEN THE TAPE PACK.
NO POPPED STRANDS.
>> WIND TO THE HEAD OR THE END.
DON'T EVER LEAVE THE TAPE
EXPOSED IN THE OPEN AREA, IN THE
FRONT OF THE TAPE.
THAT WILL HELP TO INVITE
MOISTURE FROM THE HUMIDITY IN
THE AREA TO DAMAGE THE TAPE.
>> REHOUSE THE TAPES TO INERT
PLASTIC CONTAINERS.
YOU SHOULD PRIORITIZE TAPES IN
CARDBOARD CONTAINERS.
AGAIN THE CARDBOARD, THE ACID IN
THE PAPER ACCELERATES ACID AND
MOLD.
YOU MAY HAVE EXTRA LABELS OR
INFORMATION ON PAPER IN THE
CASES.
THAT COULD HOLD IMPORTANT
INFORMATION.
SA +*EUFB THE PAPER BUT TAKE IT
OUT OF THE CONTAINER AND HAVE A
META DATA TO LINK THE VIDEOTAPE
TO WHATEVER THE INSERT IS YOU
TOOK OUT F IT HAS IMPORTANT
INFORMATION ON IT.
>> NOW THE MACRO ENVIRONMENT,
STORAGE ENVIRONMENT.
DON'T STORE TAPES IN NON
ARCHIVAL BOXES.
TAKE YOUR TAPE OUT OF THE
ORIGINAL BOX AND PUT IN
NON-ARCHIVAL BOXES.
USE METAL SHELVES.
WOOD ATTRACTS MOISTURE.
KEEP THEM IN COOL AND DRY
ENVIRONMENTS.
WE WILL GO THROUGH THE STANDARD
FOR THE IDEAL ENVIRONMENT.
AND THE GOOD KNEW IS MAGNETIC
MEDIA DOES NOT HAVE BE STORED IN
AS COLD AS ENVIRONMENT AS FILM.
>> HERE IS THE ANSI STANDARD FOR
SHORT-TERM, MEDIUM-TERM AND

LONG-TERM STORAGE.
MEDIUM-TERM IS IN THE MIDDLE.
LONG-TERM STORAGE SHOULD BE COLD
AND DRY.

>> LET'S GO INTO MORE.
DON'T EVER STORE YOUR VIDEOTAPE
ABOUT 65% RELATIVE HUMIDITY.
I KNOW THAT CAN BE DIFFICULT FOR
THOSE WHO ARE IN HIGH HUMIDITY
ENVIRONMENTS THAT'S AT THE RATE
WHEN FUNGAL GROWTH WILL OCCUR.
STORAGE BELOW 45° F CAN CAUSE A
BREAKDOWN.

STORAGE GENERAL TIPS, THE HIGHER
TEMPERATURES MUST BE BALANCED
WITH LOWER HUMIDITY.

TEMPERATURE FLUCTUATIONS CAN BE MORE
DAMAGING TO THE TAPE THAN HAVE
TAPE STORED AT A HIGH
TEMPERATURE OR HUMIDITY.

SO, PRIORITIZE AT THIS SIZE AND
THEN WE WILL GET TO FORMATS.
OLDER TAPES SHOULDN'T BE
NECESSARILY PRESERVED FIRST.
WE'RE TALKING ABOUT THE MEDIA
ITSELF.

YOU HAVE YOUR OWN BASED ON
CONTENT.

THAT'S ON YOUR RULES AND
IMPORTANT CONTENT.

FOR THE PHYSICAL PROPERTIES OF
THE TAPE CHECK THE CONDITION OF
THE TAPE.

INHERENT FORMAT AND STABILITY.
THE STORAGE ENVIRONMENTS THAT
THE TAPE HAS BEEN OVER IT'S
ENTIRE STORAGE LIFE AND HOW
OFTEN IT'S BEEN USED.
EXAMINED.

>> SO, HOW DO YOU PRIORITIZE?
THIS IS A POLL QUESTION.

KEEP YOUR EYE ON.

THIS THOSE WHO HAVE PRINTED OUT
THE HAND OUT YOU CAN LOOK OVER
THIS AS WE DISCUSS.

GOOD EXAMPLES.

OLD TAPE.

MIDDLE CHILD, AND THE YOUNGER
KID ON THE BLOCK IS THE MINI DV.
THIS DESCRIBES THE AGE,
DIFFERENT STORAGE ENVIRONMENTS
THAT THEY HAVE BEEN IN OVERTIME.
THEN HOW TESTIMONY THEY'RE USED
AND WHETHER THEY'RE OB SLEET.
>> WE WILL COME BACK TO THIS
POLL AT 150.

WE HAVE A HUNDRED MORE SLIDES IT
WILL GO QUICKLY.

AT THAT POINT WILL YOU COMPLETE
THE POLL AND WE WILL SEE WHAT
YOU THINK AFTER HEARING ABOUT
THE VARIOUS FORMATS.

QUICKLY, AMY, ONE OR TWO
QUESTIONS ON CONVERSATION
ACTIONS BEFORE THE FORMATS.

>> YES, LINDA, WE HAD A FEW
QUESTION THAT'S CAME UP.
ONE THAT I THOUGHT WAS REALLY
RELEVANT FOR A LOT OF PEOPLE
HERE.

AARON FROM LOUISVILLE, KENTUCKY.
HE HAS A QUESTION THAT A LOT OF
MEETINGS THERE IS TALK ABOUT NOT
BOTHERING TO REHOUSE VIDEOS
BECAUSE THEY HAVE A SHORT LIFE
SPAN.

SAVE YOUR MONEY FOR TRANSFER
INSTEAD.

DO YOU HAVE A COMMENT ON THAT?

>> IF YOU HAVE COLLECTIONS AND
THOUSANDS OF VIDEO TAPES YES PUT
THE COST TO TRANSFER RIGHT AWAY.
IF YOU KNOW YOU CAN'T TRANSFER
THEM.

AGAIN IT'S THE STORAGE AND HOW
LONG THEIR LIFE EXPECTANCY IS.
IF YOU HAVE TAPES IN CARDBOARD
CONTAINERS I WOULD CHANGE THEM
RIGHT AWAY.

SEPARATE THOSE IN CARDBOARD SO
THEY'RE NOT IMPACTED BY MOIST
RAOUR IN THE AIR BASED ON THE A
SID I CAN QUALITY OF THE BOXES
OR CONTAINERS.

>> GREASE.

ONE MORE QUESTION FOR YOU.
THINK YOUR DISCUSSION OF THE
MEDAL EVAPORATED TAPES.
SOME SAY THERE COLLECTIONS HAD
BEEN PUT ONTO THAT FORMAT FOR
PRESSERRIZATION SERVICES.
OTHER FOLKS WONDER IS THERE ANY
OTHER NAMES OR BRAND NAMES TO BE
AWARE OF AND LOOK OUT FOR?

>> AS WE GO THROUGH THE TAPES
YOU WILL NOTICE IN THE HAND OUTS
AND SLIDES.

YOU CAN REMEMBER TO THEM.
YOU MADE A GREAT JOB OF MAKING
PDFs OF THOSE.

I WILL SHOW YOU WHERE TO LOOK
FOR THE ME OR MP SYMBOL.
SO YOU CAN A TENT PHI THE
METAL

EVAPORATED TAPES.

>> NOW YOU HAVE TONS OF
INFORMATION TO GET TO.
WE WILL A ADDRESS MORE QUESTIONS
LATER.

>> OKAY.

>> GREAT.

>> LET'S SEEP L. KEEP ON GOING
AND TALK ABOUT FORMATS.
FORMAT OBSOLESCENCE.

THIS IS THE LACK OF ACCESS TO
PLAY BACK EQUIPMENT THAT'S THE
MOST CRITICAL FACTOR HERE FOR OB
OBSOLETENCE.

RATHER THAN BE OBSOLETE IF THERE
ARE OPERATING PLAY BACK TECHS
YOU CAN PUT IN DANGER.

THE WAKE-UP CALL.

THIS IS A HAND OUT I PROVIDED TO
YOU ALL.

THE VIDEO STOCK AS OF
OCTOBER 2013 THIS CHART IS NOT
MEANT TO SAY THIS IS WHAT YOU
SHOULD TRANSFER TOO.

YOU SHOULD TRY TO MOVE AWAY FROM
TRANSFERRING CONTENT FROM VIDEO
TO VIDEO.

THIS TELLS YOU LOOK AT THE RIGHT PART ON THE SHEET.

IT LISTED THE DECKS BEING MANUFACTURED.

I HAVE A COLUMN FOR COMBO UNITS. BASICALLY THEY'RE CREATING STKEBGZ WHERE YOU CAN CREATE MULTIPLE FORMATS.

YOU SHOULD TRY IF YOU INTEND TO DO TRANSFERRING OR PLAY BACK OF THE FORMATS OF THESE FORMATS YOU SHOULD GO OUT NOW AND BUY THOSE DECKS.

ESPECIALLY THE DEDICATED DECKS IF YOU CAN AFFORD IT OR THE COMBO UNIT.

THAT'S THE PURPOSE OF THAT HAND OUT.

DIGITIZATION PRESSERRIZATION THAT'S ALL YOU CAN DO.

YOU HAVE TO DIGITIZE THE PRESERVATION.

VIDEO IS GOING AWAY, DIE.

I THINK SO BEFORE TRANSFERRING NOW WE WILL GO THROUGH FORMATS REALLY QUICKLY.

WHAT I WANT TO DO IS HELP TO YOU IDENTIFY THE FORMAT THAT YOU HAVE.

TO HELP YOU IDENTIFY THE TAPES OR BASICALLY BY VISUAL A DENT IF I KAOEUGS.

THE MAXIMUM RUNNING TIME OF THAT TAPE.

THE LABEL MAY SAY A WORK IS 21 MINUTES 30 SECONDS.

HOW CAN YOU TRUST IT?

YOU WILL EITHER WANT TO TRANSFER IT YOURSELF IN HOUSE.

I WOULD ESTIMATE THE TKEPBLG TAL STORAGE OR IF YOU ARE SENDING IT OUT YOU WANT TO TELL THE VENDOR THIS IS THE FORMAT AND ROUGHLY THE RUNNING TIME, MAXIMUM RUNNING TIME.

THEN YOU NEED TO BROADCAST THE NTSC IN THE U.S., PAL USED IN

THE MAJORITY OF THE WORLD AND
SECAM IS STANDARD IN FRENCH
SPEAKING COUNTRIES.
SO FORMAT I'D DENT FIRE.
VIDEOTAPE COMES IN TWO PACKAGES.
A REEL AND THIS LOOKS LIKE AUDIO
BUT IT'S VIDEO AND IT COMES IN
CASSETTE FORMS AND MANY SIZES
AND COLORS.
SO NOW WE WILL SKWRUPL TPHAOPT
FORMATS.
THE OLDEST GOING QUICK LIE
THROUGH THEM.
THE 2-INCH QUAD, HALF INCH AND
ONE INCH.
THE FIRST VIDEOTAPE FORMAT WAS
2-INCH QUAD RELEASED IN 1956 AS
WE LEARNED FROM BING CROSBY'S
FINANCIAL SUPPORT.
THE FIRST RECORDED ONLY BLACK
AND WHITE WITH COLOR ADDED A FEW
YEARS LATER.
YOU CAN SEE HERE IMMEDIATELY
STARTED TO WIN TECHNICAL EMMYS.
PEOPLE WANTED IT.
THEY COULD UNDERSTAND THE VALUE.
HERE IS A PICTURE OF THAT FIRST
TWO INCH QUAD.
LOOK AT THE COST.
THE DECK WAS EXPENSIVE.
THE STAY WAS EXPENSIVE.
YOU COULD ONLY PLAY IT 30 TIMES
OR YOU DAMAGE THE TAPE.
>> NOW THESE ARE PICTURES OF
EQUIPMENT AND HOW THE TAPE IS
THREADED THROUGH THE DECK.
I NEED TO GIVE CREDIT TO A
ORGANIZATION AMPEX WHO LET ME
COME INTO THEIR FACILITY FOR AN
AFTERNOON AND TAKE ORE,
PHOTOGRAPHING THE FORMATS AND
EQUIPMENT YOU WILL SEE HERE.
THEY'RE VERY GENEROUS.
AND THEN HR-TS GO THROUGH THE
TAPE THAT HE DIDDING.
THOSE OF WHAT WHO ARE FAMILIAR
WITH FILM FLAT BED, THIS SHOULD

LOOK FAMILIAR.
THE CAPE COMES IN HERE, ACROSS
THE HEAD AND OUT HERE FROM THE
RIGHT.
IT LOOKS VERY SIMILAR TO A FILM
PLAY BACK DECK.
THIS IS WHAT THE CASE MAY LOOK
LIKE.
TWO INCH REAL CASE.
THEY'RE VERY LARGE UP TO
20 POUNDS.
VERY HEAVY . THE WIDTH OF THE
TAPE SO YOU CAN SEE.
TWO INCH ON THE RIGHT AND 1.5
COMPARISON ON THE LEFT.
NOW THE REALIZES COME IN A
VARIETY.
THE DETERMINES THE RUNNING TIME.
THE TAPE -- THIS IS THE SIZE AND
MAXIMUM RUNNING TIME OF THE
TAPE.
>> FORMAT SPECIFIC PROBLEMS FOR
TWO INCH VIDEO REEL IS THE REEL
ITSELF, NOT THE TAPE.
IT'S THE FOAM.
IT HAS GLUE AS WELL THAT CAN GET
ON THE TAPE.
SOME HAVE SHEDDING FOAM THAT
KIDS TO THE CAPE HERE IS AN
EXAMPLE FROM QUAD TAPE TRANSFER.
ON THE RIGHT YOU HAVE THE FLANGE
THE EDGE ON THE SIDE.
THEN IF IT'S --
HERE ARE EXAMPLES.
FILM CAN COME OFF ONTO THE TAPE
AND IT GETS GUI.
ZIMIRI.
THIS IS OB OWE SLEET.
NO DECKS.
RARE TO FIND A DECK OR PART OR
VEND TORE TRANSFER IT.
HALF INCH OPEN REEL IS THE NEXT
FORMAT DEVELOPED.
A PORTABLE DECK WITH AN ATTACHED
CAMERA.
YOU MAY FIND IT IN PUBLIC ASS
ACCESS, VIDEO ARTISTS, SCHOOLS,

AND ENG.

>> THERE WILL TWO VERSIONS.

EIAJ WAS THE STANDARD.

HERE IS A PICTURE OF A DECK FROM
SCENE SAEUFRBZ, MAKES TO THEM.

THIS IS A AUDIO.

AUDIO TAPE WASN'T COLORED.

IT DIDN'T HAVE A PICTURE.

ALSO YOU HAVE THE MODEL NUMBER
TO DO THE RESEARCH ON THAT.

TKP-RBD THIS IS WHAT THE CASES
MAY LOOK LIKE.

A EXAMPLE ON THE LEFT AND ONE ON
THE RIGHT.

A HALF INCH TAPE CASE.

IT FEELS LIKE SOFT LAST AND I
CAN OPENS LIKE A BOOK OR DVD
JEWEL CASE.

>> HALF INCH OPEN REEL.

IT LOOKS LIKE IT COULD BE AN
AUDIO REEL.

I HAVE AN EXAMPLE ON THE RIGHT.
AUDIO REELS CAN COME IN THE SAME
SIZE AS THE HALF INCH OPEN REEL.
SO, WE HAVE HALF INCH VIDEOTAPE
WIDTH AND ONE QUARTER INCH AUDIO
ON THE RIGHT.

THAT'S A LEADER NOT TAPE.

YOU CAN HAVE HALF INCH AWED CROW
TAPE.

INCH

VIDEOTAPE.

THE RUNNING TIME WOULD BE
ROUGHLY 30 MINUTES, BLACK AND
WHITE OR COLOR.

LIKE TWO INCH SQUAD IS SLEET
IT'S RARE TO FIND DECK PARTS AND
A FACILITY TO TRANSFER IT.

ONE INCH OPEN REEL WAS THEN
DEVELOPED AFTER THE 2-INCH TAPE
TO BE THE NEXT STUDIO OR
BROADCASTING FORMAT, MORE
PORTABLE.

USED IN STUDIO AND THE FIELD.

ALSO ARCHIVED FOR

PRESSERRIZATION VIDEO OF THE

80s TO 90s.

IT WAS OFTEN USED AS THE
FORMATION FORMAT.
THESE ARE WHAT THE DECKS LOOK
LIKE.
THE VIDEO CASE LOOKS SIMILAR TO
THE TWO INCH.
IT'S JUST ONE INCH.
I THINK SO HERE IS ONE MUCH TAPE
WIDTH.
I THINK THAT SLIDE IS GONE.
OH, WELL.
THE TAPE WIDTH ONE INCH COMPARED
TO THE TWO INCH.
THE SUMMARY IS OB SLEET BUT YOU
CAN FIND USED DECKS AND PARTS
BECAUSE OF THE WIDE USE IN
BROADCASTING.
MANY DECKS ARE OUT THERE LET'S
LOOK INTO THE FORMATS, THE OLDER
CASSETTE.
THIS IS THE LAST REFERS TO THE
WIDTH OF THE TYPE IN THE MAIN.
WE WILL LOOK AT THESE IN DETAIL.
U-MAT I CAN WAS THE FIRST ONE.
IT CAME OUT IN 86.
IT REPLACED 16MM FILM.
WILL YOU SEE IT IN TWO SIZES.
20 MINUTES AND 30-60 MINUTES.
ONE OF THE UNIQUE PROBLEMS WITH
THESE, THIS IS ANECDOTAL OTHER
THAN AN OFFICIAL GUIDE BOOK.
ARCHIVES HAVE NOTICED STOCK
BATCHES IN THE FIRST TEN YEARS A
HAVE NOTICEABLE DROP OUTS.
IF YOU HAVE THREE QUARTER INCH
U-MAT I CANS IN THE COLLECTION
FROM THIS TIME PERIOD YOU SHOULD
LOOK AT THEM AND START TO
TRANSFER THEM.
VISUAL IDENTIFICATION IS THERE.
I'M GETTING INTO THE PICTURES OF
THEM.
THESE ARE THE DECKS.
THE TO IS U-MAT I CAN DECK
BOTTOM IS U-MAT I CAN SP DECK
THAT CAN PLAY AOU MAT I CAN
TAPES -FL.

>> SOMEONE WHO SIGNED UP FOR THE WEBINAR POSTED A IMAGE OF THESE EXACT TAPES.

THIS IS A U-MAT I CAN TAPE.

A 20 MINUTE SMALL CASSETTE.

HOW DO YOU IDENTIFY THE MAXIMUM RUNNING TIME?

THERE IT IS ON THE RIGHT BOTTOM SIDE.

20 MINUTES.

U MAT I CAN 60.

THIS IS JUST U-MAT I CAN.

A 60 MINUTE CASSETTE.

HERE IS THE RED BUTTON.

ONLY FORMAT WITH A RED BUTTON ON THE BACK.

THAT'S THE RECORD/SAVE BUTTON.

POPE THAT OUT AND 0 IT CONFETTI.

>> NOW WE'RE JUMPING INTO SP FOR

U-MAT I CAN SP A SMALL SKA PET.

THERE H. THERE IS BUTTON ON THE RIGHT.

HERE IS HOW YOU DID I DENT PHI

IF YOUR TAPE IS U-MAT I CAN OR

U-MAT I CAN SP.

LOOK HERE.

NO HOLE THERE.

THERE IS A HOLE ABOVE THE RED BUTTON.

THERE IF IT HAS A HOLE ABOVE THE RED BY THE ON IT'S A SP TAPE.

IF IT DOESN'T HAVE A WHOLE THAT MEANS IT'S A AOU MAT I CAN.

THE U-MAT I CAN SP WAS JUST THE DECK ITSELF.

DIDN'T KNOW WHETHER IT WAS PLAYING A SP OR REGULAR U-MAT I CAN TAPE BASED ON A HOLE OR NOT.

HOW DO YOU FIND OUT THE MAXIMUM RUNNING TIME.

IT'S ON THE SPINE.

20 MINUTE TAPE.

SUMMARY.

THIS IS AN OB SLEET TONE

DANGERED FORMAT.

THE LAST DECK WAS MANUFACTURED IN 2008.

IT'S DIFFICULT TO FIND THESE
DECKS WHERE THEY HAVE USABLE
PARTS.
BETAMAX.
NOW BETAMAX SOME HAVE BETAMAX IN
YOUR COLLECTION EVEN THOUGH VHS
WON THE FORMAT WARS.
EVEN THOUGH SONY LOST THE WAR
THEY USED THE BETAMAX TAPE, THE
FORMATION FOR IT'S SUITE OF
FORMATS.
HERE IS A BETAMAX DECK.
TOP LOADING.
HERE IS THE TAPE.
HOW CAN YOU TELL IT'S A BETA
TAPE?
>> THE TELL STATION B, SCRIPT ON
THE TAPE IN THE RIGHT CORNER.
THE SUMMARY.
IT'S OBSOLETE.
VHS WON THE WAR.
A CONSUMER CASSETTE BASED FORMAT
USED TO RECORD ORIGINAL CONTENT.
HOME MOVIES, SCHOOLS, YOU CAN
STILL FIND THE TAPE OF STOP
MANUFACTURED TODAY.
YOU CAN ONLY FIND THE VCHR'S AS
COMBO UNITS.
YOU HAVE TO BE CAREFUL.
THERE ARE FORMATS THAT LOOK LIKE
VHS BUT AREN'T.
HERE IS A PROFESSIONAL DECK.
THE FRONT.
THE BACK.
HERE IS WHERE YOU FIND THE, THE
RUNNING TIME HERE.
THEN ALSO THIS IS THE RECORD
SAVE TAB.
YOU HAVE TO BREAK THAT OFF.
>> SUMMARY LAST DECK WAS
MANUFACTURED IN 2008.
NOW TO THE BETACAM FORMATS.
WANT TO GO THROUGH THESE
QUICKLY.
I DON'T WANT TO RUN OUT OF TIME.
I WANT TO SPEND TIME ON THE
BETACAM AND SMALLER FORMATS.

THE 8 MILL MEETER AND MINI DV
FORMATS.

LET'S GO THROUGH THIS QUICKLY.
BETACAM FORMATS.

WHEN SOMEONE SAYS I HAVE A BETA
TAPE YOU HAVE TO MAKE SURE IT'S
BETAMAX, BETACAM, BETASP, WHICH
IS IT?

THE FIRST CAMs WERE ANALOG.
BELL ACAM WAS DEVELOPED IN 1982.
IT'S HALF INCH AS THE BETA MAX.
IT HAS METAL PARTICLES.

HERE IS THE BETACAM FRONT AND
THE TAPE BACK.

YOU CAN SEE THE RECORD SAVE TAP
FOR ALL OF THE BETACAM FORMATS
TENT TO BE THE SIDE.

>> OKAY.

THE MAXIMUM RUNNING TIME IS
FOUND ON THE SPINE AND BACK
LOWER LEFT.

THIS SAYS 10 MINUTE TAPE.

SUMMARY IT IS OB SLEET.

YOU CAN PLAY THE TAPES IN A
COMBO UNIT.

BETASP IS FOR SUPERIOR
PERFORMANCE.

THIS USED METAL PARTICULATE.
IT WAS A SPECIAL FORMAT FOR
BROADCASTING.

LOOKS LIKE WE LOST SOME OF THE
SLIDE IMAGES.

>> HERE WE GO.

FOUR DIFFERENT DECKS I HAVE
HERE.

THERE ARE -- A RECORDER AND
PLAYER AND A DEDICATED DECK.
THAT IS A BROADCAST STANDARD.

YOU HAVE TO KNOW IF YOU HAVE
PAL, NTSC OR BELL A CAMS.

THE BETA SP TAPES.

HERE ARE EXAMPLES OF THE FRONT
AND BACK.

THE RECORD SAVE TAB IS ON THE
SIDE.

THIS IS A 60 MINUTE TAPE.

THE SUMMARY IS THE DECKS,

DEDICATED DECKS ARE NO LONGER
CREATED, MANUFACTURED.
THEY CAN BE PLAYED IN A COMBO
UNIT.

YOU CAN FIND USED DECKS AND
PARTS AVAILABLE.

>> SO, CONTINUING WITH THE BETA
CAM FORMATS NOW TO THE DIGITAL
FORMATS.

THE DIGITAL, SD, STANDARD DEF
NOT HI-DEF.

SO THE DIGITAL BETA CAM CAME OUT
IN 1993 STANDARD DECK.

I'M NOT GOING THROUGH THE
DIGITAL SIGNAL.

YOU CAN READ THAT ON THE
HANDOUT.

IT'S A PROFESSIONAL FORMAT AND A
COMMON PHYSICAL FORMATION USED
IN ARCHIVES STILL.

-- THEY, IT WAS DETERMINED THE
PUBLIC ARCHIVES IF THEY'RE NOT
TRANSFERRING TO DIGITAL FILES
THEY'RE TRANSFERRING TO DIGITAL
BETA CAM.

PEOPLE ARE OTHER STILL USING
DIGI BETA ALE THOUGH THE NECKS
ARE NOT BEING TRANS TPEFRD.

>> THERE WAS A E-MAIL OUT FROM
SONY.

THEY'LL STOP MANUFACTURE THE
DECKS BUT THEY'RE STILL SELLING
THEM.

>> DIGI BETA TEAMS COP IN TWO
SIZES, MALE AND LARGE.

HERE IS THE BACK.

HERE IS THE RECORD SAVES TAB.

THEN HERE YOU HAVE THE TAPE
MAXIMUM RUNNING TIME.

THE SUMMARY IS.

FOR THE ACTIVE DATE RANGE I HAVE
2012 WITH A QUESTION MARK.

IT'S NOT SURE IF THEY HAVE TRULY
STOPPED MANUFACTURING THE DECK.

YOU CAN PLAY THEM NAY COUPLE OF
COMBO UNITS AND THEY'RE WIDELY
AVAILABLE.

>> NOW WE'RE GOING TO GO THROUGH
MORE PROFESSIONAL BROADCASTING
TAPES.

I WILL GO QUICKLY.

BETA CAM SX.

THIS IS HIGHLY CREATED SIGNAL.

THESE ARE YELLOW.

THIS IS WHERE THE COLOR COATING
TOMS INTO PLAY.

BELL A CAM SX TAPES AND HOLDERS
ARE IN YELLOW.

THERE IS THE RECORD AND SAVE
BUTTON ON THE SIDE AND THE
MAXIMUM RUNNING TIME HERE AND ON
THE BACK.

THE SUMMARY IS WHERE AGAIN.

THERE ARE NO MORE DEDICATED

DECKS THAT ARE CREATED.

TAPE PLEA IN THE WOULD OWE UNIT.

LET'S KEEP GOING TO MPEG IMX.

THIS PLAYS AN MPEG FLAVOR.

ANOTHER PROFESSIONAL

BROADCASTING FOREMAST SOMEWHERE

YOU CAN SEE IT'S I AM MX NOT SX

BECAUSE THE CASE COLORS ARE.

>> HERE IS AN EXAMPLE OF THE

MPEG IMX TAPE.

HERE AND HERE.

RECORDS AND SAVE TAG ON THE
SIDE.

AGAIN THEY LOOK EXACTLY THE
SAME.

SAME SIZE JUST DIFFERENT COLORS.

THIS IS WHERE THE COLOR COATING
COMES INTO PLAY.

IMX IS THE SAME AS MX.

THESE ARE THE LAST OF THE PW +*ET

BELL A CAM FORMATS WE'RE

DISCUSSING.

THAT'S HD.

THE FIRST WAS DEVELOPED IN 1997.

IT'S A PROFESSIONAL FORMAT.

THE HDCAM TAPES HAVE AN ORANGE

LID.

IT HAS TWO MAXIMUM RUNNING

TIMES.

THE CAMERA IF YOU RECORD

DIRECTLY IN CAMERA IT'S TWO DIFFERENT SETTINGS FOR HOW YOU WANT TO RECORD.

SO YOU HAVE DIFFERENT RUNNING TIMES.

>> AGAIN LOOK AT THIS.

>> THEY LOOK EXACTLY THE SAME. SAME SIZE AND THE COLOR CODING TO WHAT IT'S CALLED ON THE FORMAT.

THE SR FORMAT THE MOST COMMONLY USED FORMAT TODAY IS IT CAN RECORD UP TO 2K RESOLUTION. SOME TV SHOWS AND SPORT EVENTS ARE RECORDED ON IT AS WELL. THERE WAS A BIG SHORTAGE OF THIS TAPE IN 2011 FROM THE JAPANESE TSUNAMI.

THE ONE FACILITY CREATING THESE TAPES WAS FLOODED.

THAT WAS A WAKE-UP CALL.

WE NEED TO GO DIGITAL.

>> HDCAM RS TAPES HAVE A CYAN COLOR LID.

THIS IS PRETTY MUCH THE ONLY PROFESSIONAL GRADE FORMAT IN ACTIVE PRODUCTION.

STOCK AND DECKS ARE MANUFACTURED.

SO LET'S GO INTO THE SMALL FORMATS THAT ARE OUT THERE.

8MM TAPES WHICH WERE DEVELOPED FOR THE CAMCORDER MARKET.

THEY'RE PRETTY MUCH THE SIZE OF AN AUDIO CASSETTE.

THOSE ARE PROCEEDED BY THE MINI --

OF THE 1MM FORMATS I WANT TO GIVE YOU THE HIGHLIGHTS.

OF THESE HI8 IS BEING MANUFACTURED.

HERE IS A DECK NO LONGER MANUFACTURED.

HERE YOU CAN SEE HERE THE MPOME.

THIS IS TELLING YOU IT'S MP.

METAL P PLUS P -- THERE IT IS.

YOU CAN SEE THAT IS MP RIGHT

HERE.

>> HI8 TAP.

YOU HAVE THE RECORD HERE ON THE SPINE OF THE EDGE.

>> HI8 TAPE CAN BE IN HIGH MP OR ME.

>> YOU HAVE TO LOOK TO A PHI IT YOU AN MP TAPE.

>> 8-MILLIMETER VIDEO SUMMARY OF ALL OF THEM THE ONLY MANUFACTURED IS THE HI8.

DVD TAPE FORMATS.

YOU PROBABLY HAVE A LOT OF THESE IN YOUR COLLECTION.

THEY'RE USED COMMONLY FOR ORAL HISTORY AND RECORDING EVENTS.

SO, LET'S JUST GO INTO THE TAPE THAT'S ONE QUARTER INCH.

THESE FORMATS ARE STANDARD DEFS. YOU CAN RECORD.

MINI DV TAPES 1995 STARTED IN 1995 CAPTURED THE DV SIGNAL -- I'M GOING TO SKIP OVER THE TECHNICAL INFORMATION.

THERE ISN'T TIME.

ALL MINI DV TAPES ARE -- EVAPORATED.

MINI DV TAPES ARE VERY TIMEY . IT'S NOT EVEN LIKE THREE INCHES LONG.

THEY HAVE TWO RUNNING TIMES ON HOW IT'S RECORDD IN THE CAMERA. YOU NOTE AGAIN IT'S ME.

>> THIS ARE YOU GO YOU HERE THEM Z.ME.

MINI DVD TAPE BACK AND THEN THE RECORD BUTTON ON THE SPINE.

>> MINDV TAPES CAN BE USED FOR HDV AND DVD.

SUMMARY IS IT'S CURRENT USE AND CAN BE PLAYED IN A COMBO UNITS. DVCAM.

STONY DEVELOPED THIS IN 1995.

>> HERE IS A DVCAM DECK THAT CAN PLAY MINI DV TAPES.

HERE IS THE EXAMPLE OF THE DV CAM TAPE.

YOU CAN DEBT WHAT IT IS.
HERE IS AN EXAMPLE THE DVD CAM
ON AND OFF.
THE SUMMARY IT'S QUARTER INCH
AND STILL IN CURRENT PRODUCTION.
STOCK IS BEING PHARPB AOU
FACTORED AND YOU CAN PLAY IT IN
SEVERAL COMBO UNITS.
>> MOVING ONTO DVCPRO.
THIS WAS DEVELOPED BY PANASONIC.
PRO, PRO 50 AND HD.
I MAY HAVE THESE IN YOUR
COLLECTION.
IT CAN BE USED AS ORAL HISTORY
AND INDEPENDENT PRODUCTION.
THE PRO MEDIA IS
INTERCHANGEABLE.
DEPENDING ON THE CAMERA YOU CAN
RECORD PRO 50 ON A DVCPRO TAPE.
>> THEY ARE ALL MP5 NOT ME.
THAT WAS PURPOSEFUL THEY DIDN'T
EXPECT THE ME TAPES TO BE AS
DURABLE.
>> HERE IS AN EXAMPLE OF DECKS.
IF YOU HAVE A SMALL DVC PRO TAPE
YOU HAVE TO USE THE AD A.
TKAPTER ON THE RIGHT SIDE.
DVC PRO TAPE LIDS ARE YELLOW.
YOU CAN FIND THE MAXIMUM RUNNING
TIME, 66 MIN.
THAT'S THE RECORD SAVE TAB.
THE PRO TAPES HAVE RED LIDS.
AGAIN COLOR COATING.
>> DVC PRO SUMMARY CURRENTLY
MANUFACTURES.
YOU CAN FIND DECKS.
IT'S AVAILABLE AND STILL OUT
THERE.
ING.
>> HERE IS AN EXAMPLE.
LOOK AT THE SIZES.
>> YOU CAN SEE THE SIZES ON THE
GRAPH.
MANY SMALL CASSETTES.
>> LET'S GO BACK TO THE POLL.
GWENNIE, DO YOU BRING IT?
IN?

>> THERE WE GO.
>> PULL UP THE THREE OPTIONS
HERE.
SORRY I WAS MUTED.
AND I'M AFRAID I'M GOING TO HAVE
TO COVER UP YOUR SLIDE TO DO
THAT.
>> HERE WE GO.
>> OKAY.
GIVE YOU JUST 30 SECONDS TO FILL
IT OUT.
>> IT LOOKS LIKE OBVIOUS PICKS
HERE.
>> IT LOOKS LIKE WE HAVE A FEW
MORE PEOPLE CLOCKING IN.
IS THAT WHAT YOU EXPECTED SEE
TO +* SEE, LINDA?
ACTUALLY, CAN I SCROLL THIS
DOWN.
OKAY.
>> LET ME KNOW WHEN YOU WANT ME
TO MOVE THESE OFF.
>> BASICALLY WE HAVE THE NUMBER
ONE.
WHAT PEOPLE HAVE.
PEOPLE ARE SAYING THE THREE
QUARTER.
NUMBER -- OKAY.
THEN THE SECOND ONE FOLKS ARE
SAYING THE 2-INCH.
THEN THE -- LET'S SEE HERE TO
MAKE SURE THIS IS RIGHT.
OKAY.
THAT'S INTERESTING.
I AGREE WITH EVERYBODY WHO SAID
PNEUMATIC SHOULD BE TRANSFERRED
FIRST.
NUMBER ONE.
GO AHEAD AND REMOVE THEM, JENNY.
I'M NOT TALK ABOUT THE CONTENT
BUT THE FORMAT AND AGE.
MY PHONE CLICKED.
CAN YOU HEAR ME OKAY?
OKAY.
GREAT, THANK YOU.
ALRIGHT.
BASED ON THE STORAGE ENVIRONMENT

AND HOW OFTEN IT'S USED.
FOLKS SAID THE THREE QUARTER
INCH PNEUMATIC FROM 1975.
IT'S IN THE FIRST TEN YEAR
PERIOD WHEN THE STOCK MAY NOT BE
THAT GOOD.
EVEN THOUGH IT WAS STORED
EXCELLENTLY THE LAST TEN YEARS.
BEFORE THAT HORRIBLE
ENVIRONMENT.
YES, AGREE THAT SHOULD BE THE
FIRST.
AGAIN CONTENT IRRESPECTIVE.
THAT'S THE FIRST TO BE
TRANSFERRED.
NOW WHAT FOLKS SAID SHOULD BE
SECOND WAS THEY MENTIONED THE
TWO INCH VIDEO REEL SHOULD BE
TRANSFERRED AND THIRD THE MINI
DV I WOULD PROBABLY GO WITH THE
MINI DV BEFORE THE 2-INCH VIDEO
REEL.
WE'RE NOT TALKING ABOUT
CONTENT.
THE REASON I SAY THIS IS IT'S
BEEN STORED IN A GOOD
ENVIRONMENT FOR MOST OF IT'S
LIFE.
IT'S STILL WITHIN THE TERM OF
LIFE EXPECTANCY.
THE MINI IS EVAPORATED STOCK,
OLDER END OF 15 YEARS.
HIGH ENVIRONMENT AND HEAVILY
USED.
I WOULD WANT TO GET THAT CONTENT
OFF BEFORE THE TWO INCH TAPE.
AGAIN IT DEPENDS ON THE CONTENT.
THIS IS HOW WOULD I PRIORITIZE.
THANK YOU FOR THINKING ABOUT IT
AND PARTICIPATING.
LET'S GO ON.
I WILL SKIP THROUGH THE LESS
COMMON FORMATS.
YOU CAN LOOK AT THE HAND OUTS
AND LEARN ABOUT THEM.
I WILL SKIP THROUGH TO THE END
OF THE VIDEO SECTION.

>> OKAY.
END OF VIDEO LITERALLY.
NOT JUST THE SEGMENT BUT VIDEO
IS DYING.
PHYSICAL VIDEO IS DYING.
EVERYTHING HAS TO BE TRANSFERRED
TO DIGITAL FORMAT.
ANY QUICK QUESTIONS ON FORMAT
IDENTIFICATION.
QUESTIONS NOT NECESSARILY ON THE
ID BUT THERE ARE A FEW PEOPLE
WHO HAVE QUESTIONS ON ANY BASIC
MAINTENANCE OR CLEANING TIPS FOR
THE PLAY BACK MACHINES.

>> YES.
I BELIEVE THERE ARE GOOD, IF YOU
LOOK AT THE DOCUMENTATION THAT I
HAVE ON THE HAND OUT YOU SEE
HINTS ON IT.
BASICALLY YOU NEED TO, IF YOU
HAVE A COLLECTION AND BELIEVE IT
IS OLDER TAPES AND COULD BE
GUMMING UP THE DECKS YOU SHOULD
USE ALCOHOL TO CLEAN THEM.
DON'T TOUCH THE PLASTIC PARTS ON
THE DECK.
YOU SHOULD LOOK ON-LINE AND FIND
GUIDANCE ON EXACTLY HOW TO DO IT
DEFINITELY CLEAN THE DECKS.

OTHER L.
>> OTHER QUESTIONS GO BACK TO
PRESERVATION AND THE FLAT PACK
ON THE TAPE.
>> HOW DO YOU MAKE SURE YOU ARE
DOING THAT.
ANY TIPS THERE.
>> THE ONLY WAY IS TO PLAY IT ON
THE DECK.
GO THROUGH IT SLOWLY.
THE PROBLEM IS PEOPLE SAY ON THE
OTHER HAND IT CAN BE DIFFICULT
TO ACHIEVE A TOTALLY FLAT PACK.
DON'T RISK WEARING OUT THE TAPE
AND DAMAGING THE TAPE BY PLAYING
IT TOO MANY TIMES.
TIMES MAKE SURE THAT IS REWOUND
TO THE HEADS OR TO THE TAILS OF

THE TAPE.

>> THAT'S THE ONLY WAY TO GET A
FLAT PACK TO PLAY THE TAPE.

>> YOU DON'T WANT TO LEAVE IT IN
THE MIDDLE.

>> YES.

>> THERE ARE DISCUSSIONS ABOUT
PEOPLE WANTED TO PERHAPS DOING
REFORMATTING ON THEIR OWN
BECAUSE OF THE SIZE OR SCOPE OF
THEIR COLLECTION.

>> PHILIP FROM NEW YORK ASKED ON
A GOOD PLACE OR BRAND OF A
PROFESSIONAL VHS DECK TO GET.

>> VHS DECKS ARE NO LONGER
MANUFACTURES.

PROFESSIONAL DEDICATED DECKS.
YOU HAVE TO BUY A USED ONE.
IF YOU WANT TO BUY ONE, DON'T
NECESSARILY GO TO E-BAY BUT
MAYBE A PLACE THAT PURCHASES OLD
DECKS AND RETURN ISHING THEM.
THAT WAY YOU KNOW IT'S PLAYING
RIGHT.

I DON'T KNOW.

I CAN MENTION.

THERE ARE VENDORS THAT SELL
THEM.

I DON'T WANT TO DO COMMERCIALS
FOR THEM.

LOOK AT THE LIST OF VENDORS WHO
DO THE TRANSFERS.

GIVE THEM A CALL.

YOU KNOW I COULD RECOMMEND SOME
FOLKS BUT I FEEL I SHOULD NOT DO
THAT.

CALL THEM AND SEE IF THEY HAVE
DECK S AVAILABLE.

IF THEY'RE DOING RECEIPT
FORMATTING THEMSELVES THEY HAVE
DECKS ON HAND AND PARTS.

>> GREAT, JOANNA FROM MEXICO
CITY HAS A QUESTION ABOUT LTO
TAPES.

WANTED TO KNOW YOUR THOUGHTS OF
USING THOSE AS LONG-TERM
ARCHIVING STORAGE.

>> THAT'S A LONG ANSWER.
IT'S NOT THE SAME AS VIDEOTAPE.
THERE ARE SIMILARITIES BUT
DIFFERENT ONES.
IT DEPENDS ON THE GENERATION AND
INFRASTRUCTURE.
I WOULD LOVE TO ANSWER THE
QUESTION BUT I DON'T HAVE THE
TIME TO GET INTO IT.

>> FAIR ENOUGH.
WE ONLY HAVE AN HOUR AND A HALF.
I WILL GO BACK ONE LAST QUESTION
BEFORE WE GO OFF INTO THE NEXT
SECTION.

IT GOES BACK TO THE CONVERSATION
AND PRESSURIZATION SECTION.
YOU MENTIONED ABOUT THE FACT
THAT THE SHORT-TERM FLUCTUATIONS
AND TEMPERATURE MAYBE MORE
DAMAGING THAN SUSTAINED HIGH
TEMPERATURES.

CAN YOU CLARIFY THE ENVIRONMENTAL
ISSUES MORE.

>> IF THERE IS FLUCTUATION IN
TEMPERATURE THE TAPE IS STRESSED
THROUGH THE ENVIRONMENT.
IT'S EXPANDING AND CONTRACTING.
IT'S MORE DANGEROUS THAN HAVING
IT EVEN AT A HIGH TEMPERATURE.
HIGH HUMIDITY IS NOT GOOD NO
MATTER WHAT.

ESPECIALLY AS I MENTIONED 65%
AND ABOVE.

ARE YOU DESTROYING THE TAPES IN
THAT ENVIRONMENT.

THEY WON'T LAST LONG.
THE FLUCTUATION IS WORST.

IT'S FLUCTUATING WORST THAN
HAVING A CONSISTENT FORMAT.
IT CAN DAMAGE THE TAPES.
IT'S THE PHYSICAL NATURE OF
CONTRACTING AND EXPANDING.

>> GREAT WE DO HAVE MORE
QUESTIONS BUT WILL SAVE THOSE
FOR THE END.

>> OKAY.

>> LET US JUMP INTO OPTIMAL

MEDIA.

OPTICAL MEDIA. FOUR MORE FATS
LASER DISK, CD, DVD AND BLU-RAY.
WE ARE NOT FOCUSING ON LASER
DISK.

WE'RE FOCUSING ON THE FORMATS TO
RECORD CONTENT ON.

AND CONTENT YOU NEED TO
PRESERVE.

CONTENT YOU CREATED OR REQUIRED.
NOW CDRs FIRST.

THE ROM IS THE MORE COMMERCIAL
FORMAT.

THE AUDIO CDs YOU BUY.

THOSE ARE MANUFACTURES DIFFERENT
FROM THE Rs.

THERE IS CD-R AND CD-RW.

WE'RE FOCUSING ON RECORDABLE.

THEY WERE FIRST RELEASED IN
1990s.

THEY WERE AFFORDABLE IN THE LATE
1990s.

THEY'RE USED TO STORE IMAGES,
AUDIO AND SMALLER FILES.

THEY HAVE A LIMITED STORAGE
CAPACITY UP TO 700 GIGS.

I MENTIONED THE CD-R ARE
RECORDABLE.

CD-RW ARE WRITE AND ERASE.

AUDIBLE CD-Rs FROM THE 90s.

IT IMPACTS THE PLAYING DEVICES.

THE CONSTRUCTION OF THEM,
PHYSICAL PROPERTIES ARE THE SAME
AS CD-R.

I'M SORRY SOMEONE CAUGHT A TYPO
THERE.

THANK YOU, YES.

MEGS NOT GIGS.

THANK YOU FOR CATCHING THAT.

OKAY.

DVD-Rs.

I WILL GO INTO DVDs BEFORE THE
PHYSICAL PROPERTIES.

THEY SHARE SOME OF THE SAME
PHYSICAL PROPERTIES.

DVD-R ARE 1997.

AND THE PLUS R IS 2002.

WHAT'S THE DIFFERENCE IN THE PLUS R WAS DEVELOPED TO HAVE IMPROVED EVER IMAGEMENT.
>> IF THERE WAS A SKIP CAN T. COULD CORRECT EASILY.
MOST DRIVES CAN PLAY BOTH. MORE FAVOR THE MINUS R.
THE RW IS AVAILABLE IN BOTH MINUS R AND PLUS R.
>> I SEE A LOT OF PEOPLE. THEY'RE CHATTING AND SAYING ABOUT THE GIGABYTES. IT'S MEGABYTES.
SORRY ABOUT THE TYPO.
SO THE DVD MINUS R AND PLUS R-R. THEY'RE LARGER IN SIZE. SIMILAR CONSTRUCTION.
THERE ARE TWO DISCS THAT ARE GLUED TOGETHER.
HOW CAN YOU TELL IF YOU HAVE AN RW OR AN R?
IF YOU SEE IN THIS IMAGE THERE IS AN RW.
THERE A MINUS R.
THIS IS A PLUS R.
THE PLUS ARE IS AN RW.
HOW DOES THIS OPTICAL MEDIA WORK.
>> THEY USE A LASER.
THE LASER WRITES DATA ON THE DATA LAYER.
THE LAYER IN THE CDs AND -- THEY'RE AN ORGANIC DIE.
THE DIE CHANGES WHEN DATA IS WRITTEN ON IT.
IT'S A FILM RATHER THAN A DIE. OTHERWISE THE CONSTRUCTION IS SIMILAR TO THE Rs.
THE DAT IS IS WRITTEN FROM THE INNER HUB TO THE OUTER EDGE.
IF YOU HOLDUP A CD OR DVD-R TO A CERTAIN AGE WILL OR LIGHT YOU CAN SEE IT'S A DARKER AREA.
THE DARKER AREA IS THE AREA WRITTEN.
WHEN IT READS THE DATA THERE IS A REFLECTIVE LAYER IN THE MEDIA

ITSELF.
SO A QUICK DIAGRAM OF THE LAYER.
WE HAVE THE BOTTOM.
THE SUB STRAIGHT POLY CARBONATE
SUB STRAIGHT.
THAT'S THE SHINY SIDE.
THEN THE DATA LAYER ON TOP OF
THAT SUB STRAIGHT.
THAT'S THE ORGANIC DIE.
YOU HAVE THE METAL REFLECTIVE
LAYER.
IT'S ON CDs MADE OF GOLD,
SILVER OR SILVER ALLOY.
A LACQUER ON TOP AND THE LABEL
AREA ON THE TOP WHERE YOU MIGHT
HAVE A LABEL.
WHERE PEOPLE COMMONLY WRITE ON
IT.
DVDs ARE SIMILARLY THE SAME.
THERE IS A POLY CARBONATE ON
TOP AND GLUE BETWEEN THE TWO
LAYERS.
THIS IS JUST SINGLE SIDES HERE.
THE DIFFERENCES AGAIN IS WHERE
THEY USE A FILM RATHER THAN A
DIE.
THIS IS ALUMINUM.
THE PROBLEM WITH ALUMINUM IS IT
CAN OXIDIZE FASTER.
IT DEFINITELY IS NOT CONSIDERED
APPROPRIATE FOR LONG-TERM
STORAGE.
THE CRWs.
NOW WHAT ARE SOME OF THE
PROBLEMS HERE THE SUB STRAIGHT.
THE WOULD THE BOTTOM.
IF YOU HAVE SMUDGES OR DIRT THAT
BLOCKS THE LASER FROM READING
THE DATA.
LITTLE SCRAPS IT CAN COMPENSATE.
IF YOU HAVE A CLUMP SCRATCH IT'S
THE SAME AS A FINGERPRINT.
YOU CAN HAVE MOISTURE ABSORBED
IN THE DISK THROUGH THE SUB
STRAIGHT AREA LEADING TO THE
METAL LAYER OXIDIZING.
WITH A DVD THE RELATED ISSUE IS

TKPWHR +*E GLUE HOLDING THE TWO PARTS TOGETHER.
THE CAN FALL APART.
THE DVD CAN FALL APART OR GLUE CAN FAIL.
IT DETERIORATES.
IF IT DOES IT OPENS ENTRY POINTS FOR MOISTURE CREEPING IN WHICH CAN DETERIORATE THE MEDIA.
SO THE DATA LAYER IS THE NEXT PART.
THIS IS WHERE THE DIE IS.
IT'S ORGANIC DIE AND ACCEPTABLE TO SEVERAL PROBLEMS.
THE MAIN IS IT CAN FADE FROM UV RAYS FROM LIGHT AND HEAT.
IF IT FADES YOU CAN'T READ THE DATA ON THE DISK.
THERE ARE THREE KINDS OF DIE.
CYANINE AND THEN DEPENDING ON THE METAL IT'S A CERTAIN COLOR.
THE CYANINE IS THE MOST SENSITIVE TO FADING OF THE THREE KINDS OF DIE.
PHTHALOCYANINE IS MORE DURABLE AND YOU WILL FIND IT IN THE ARCHIVE AL MEDIA.
>> THEN YOU HAVE AZO.
IT WILL LOOK GREEN OR BLUE DEPENDING ON THE MEDIA.
MOST DVD-Rs USE AZO DIE.
THERE ARE DIFFERENT RESEARCH ON THE TESTING OF THE STKAOEUS.
TO BE IN SEARCH OF THE BEST LONG-TERM STORAGE MEDIA. THEY THINK THIS IS THE MOST RESISTENT RESISTENT.
SO THE METAL REFLECTIVE LAYER.
THAT'S THE OTHER PART.
I MENTIONED THE GOLD ARE NON CORROSIVE.
THESE ARE GOING TO BE THE ARCHIVE AL MEDIA.
IF A MANUFACTURE SAYS IT'S ARCHIVE AL THEY'RE MADE OUST GOLD.
THE METAL REFLECTIVE CAN LAST A

HUNDRED YEARS.
IT CAN BE CORROSIVE.
THIS HAVE A LIFE EXPECTANCY OF A
FEW DECADES.
IF YOU HAVE MOLD IT HAS AN
ALUMINUM METAL LAYER WITH MEANS
IT'S A ROM OR RW DISK.
WHAT DO THESE LOOK LIKE?
HOW DO YOU DETERMINE HERE ARE
OUR MACS UPPED TPHAOEGT.
I CAN SEE THEY LOOK THE SAME.
WE KNOW THAT THE TOP TOP IS AN
R.
THE BOTTOM IS AN RW.
ON THE OTHER SIDE THOSE ARE THE
EXAMPLES I SHOWED BEFORE.
THE BOTTOM IS ON ALUMINUM.
THIS IS BLUE ON TOP AND GOLD.
>> THE PROBLEMS IS THE LABEL
SIDE.
SO THE LABEL CAN BE A FIXED OR
WHERE PEOPLE WILL RIGHT.
IF YOU HAVE A SCRATCH ON THE
LABEL SIDE IT CAN HARM THE METAL
REFLECTIVE LAYER.
THAT CAN IMPACT IF IT WILL READ
THE INFORMATION ON IT.
IF THAT'S HARMED IT MAY NOT READ
THE INFORMATION.
IF YOU HAVE A STICKY LABEL THE
STICKINESS CAN DETERIORATE AND
BREAK APART AND GET DOWN INTO
THE METAL REFLECTIVE LAYER AS
WELL.
BLU-RAY IS THE MOST RECENT
OPTICAL MEDIA. YOU CAN USE IT AS
A WRITABLE MEET YUM AS WELL.
RELEASED IN 2005.
THE Rs RELEASED IN 2005.
SO, BLU-RAY IS USED FOR STORING
LARGER FILES AND HD VIDEO.
IT HAS LARGER STORAGE CAPACITY
FOR SINGLE LAYER AND DUEL LAYER
IT'S LARGER.
DIFFERENCES IS WHY IS IT CALLED
BLU-RAY.
THE LABEL IS BLUE.

BLU-RAY IS VIOLET OR RED.
THE DIE IN BLU-RAY IS IN
ORGANIC.
IT WON'T HAVE THE FADING
PROPERTIES.
EXCEPT FOR ONE OF THE VERSION
THAT'S IS ANYTHING THAT'S LTH.
THAT IS AN ORGANIC DIE.
HERE ARE IMAGES OF THE DIFFERENT
KINDS OF BLU-RAYS.
AGAIN THE LTH HAS THE ORGANIC
DIE.
THEN THE DUEL LAYER WHICH HAS
LARGER CAPACITY.
THERE IS A VERSION FOR NON TAPE
MEDIA.
IT'S A BLU-RAY BASED FORMAT.
IT'S USED TO SHOOT ENG.
HIGHER READ AND WRITE SPEEDS IN
A RIGHTABLE AND ERASABLE FORMAT.
WHAT ARE THE PROBLEMS THAT
IMPACT READ ABILITY?
THE DIE CAN -- THE LAYER CAN CO
ROAD.
POOR HANDLING THAT'S WHAT YOU
CAN DO.
FINGERPRINTS AND SCRATCHES.
WRITING ON THE MEDIA. THE INK
AND SCRATCH POSSIBILITY AND YOU
HAVE THE DANGER OF ERASING FILES
ON THOSE DISCS.
WHAT CAN DO YOU TO HELP THE
DISCS LIVE LONGER?
THE LIFE EXPECTANCY IS TWO TO A
HUNDRED YEARS.
IT DEPENDS ON THE METAL LAYERS,
THE DIE, THE STORAGE
ENVIRONMENT.
WHAT CAN BE DONE TO EXTEND THE
LE?
LITTLE STEPS REHOUSE THEM IN
PROPER JEWEL CASES.
THIS IS FOR CONTENT YOU WANT TO
LAST FOR A GOOD LONG TIME.
REMOVE PAPER INSERTS.
STORE UP RIGHT LIKE BOOKS.
DON'T WRITE DIRECTLY ON THE

MEDIA RECORDING AREA.
WHERE YOU SHOULD WRITE IS IN
THIS INNER UP AREA WHERE THERE
IS NO INFORMATION.
YOU COULD USE A WATER SOLUBLE
PEN, A THIN ONE.
WRITE AN EYE DENT PHING MARK
LIKE A ITEM ID.
OF COURSE THE MET A DATA FOR THE
RECORD YOU TRACK WHAT IS ON THE
CONTENT RATHER THAN ADDING THE
TITLE OR ANYTHING HERE.
SOME ARCHIVES, THEY SEE THIS
NUMBER HERE, THIS IS THE
MANUFACTURE NUMBER.
THEY TRACK IN THE MET A DAT AT
NUMBER ON THE INNER HUB NOT EVEN
WRITE ANYTHING PERIOD.
SO THIS NUMBER BE COMES THE
UNIQUE A DEPARTMENT FIRE FOR THE
ITEM.
>> DON'T TOUCH THE UNDER
RECORDING SIDE.
IF YOU HAVE THE SMUDGES OR
ANYTHING THERE THAT COULD IMPACT
THE LASER FROM BE WILL ABLE TO
READ THE DATA. TO REMOVE MARKS
USE A SOFT CLOTH OR AN EYE GLASS
CLOTH AND ISOPROPYL ALCOA HOT.
GO FROM THE HUB OUT.
WHEN THEY READ FROM THE LASER --
THE LASER COULD HITCH A RIDE ON
THE SCRATCH.
IT WILL STOP READING THE
INFORMATION ON THE GROOVE.
GO FROM THE INNER HUB OUT.
IF YOU'RE RECORDING TO MEDIA
DON'T FILL UP THE DISK.
MAKE SURE THERE IS A BLANK SPACE
AT THE EDGE.
IF THERE IS EDGE DAMAGE HA WILL
DAMAGE THE CONTENT ON THE DISK.
THE MEDIA WRITES FROM THE EDGE
OUT.
USE GOLD MEDIA FOR LONGER
STORAGE.
MACRO ENVIRONMENTS KEEP OUT OF

THE LIGHT.
AWAY FROM THE LIGHT.
YOU HAVE THE RAYS CAUSE IT TO
FADE.
STORE IN ARCHIVAL BOXES, METAL
SHELVES.
STORAGE DEPENDS ON WHO YOU TALK
TO.
THE TEMPERATURE BASICALLY CAN BE
AS COLD AS 14 AND UP TO 68°.
-- COLD AS 41° UP TO 68°.
OBSOLETE IS A FACTOR.
BEING ABLE TO PLAY IT BACK WILL
DISAPPEAR EVEN IF THEY SAY IT
CAN LAST A HUNDRED YEARS.
WELL, THERE WON'T BE DECKS
AROUND TO PLAY THAT IN A
HUNDRED YEARS.
SO, THAT IS A CRITICAL PROBLEM.
SO, GET THE CONTENT OFF WITH
VIDEO, AUDIO, VIDEO -BGS OPTICAL
MEDIA. FOCUS ON KEEP THE CONTENT
NOT THE PHYSICAL OBJECT.
KEEP THE OBJECT AS LONG AS YOU
NEED TO COPY IT.
COPY IT TO HARD DRIVES AND
SERVES.
THANK YOU.
THAT'S ME HOLDING A 2 MIN MICH
QUAD CASE T-FPLTZ LIKE A FASHION
ACCESSORY.
YOU CAN SEE HOW HUGE THEY CAN
BE.
THANKS TO THE FOLKS WHO ALLOWED
ME TO PHOTOGRAPH.
I PHOTOGRAPHED THE VIDEO FO
FORMATS.
AND EVERYONE ELLS WITH PHOTOS.
THAT'S IT FOR THE PRESENTATION.
WE CAN OPEN IT UP FOR KWEDZS.
>> LOTS OF QUESTIONS, LINDA.
WE WILL SEE WHAT WE CAN TAKE IN
THE LAST EIGHT MINUTES OR . SO
GOING TO PRESERVING THE
ORIGINALS AS BEST WE CAN WITH
THE NODE TO REFORMAT.
PEOPLE HAVE QUESTIONS.

DO YOU KEEP THE ORIGINALS AFTER REFORMATTING?

BEST TO KEEP THEM UNLESS THEY'RE DEAD.

WHAT IS YOUR TAKE ON IT?

THIS.

>> THIS IS MY PERM OPINIONSTPRUFPLT THE STORAGE CAPACITY TO HANG ONTO THE ORIGINAL WOULD I HANG ONTO IT.

IT DEPENDS WHAT YOU TRANSFER IT TO.

SAY YOU HAVE A IMPORTANT VIDEO FILE, NOT VIDEO FILE BUT VIDEOTAPE.

YOU TRANSFERRED THE CONTENT INTO A LOW RES VIDEO FILE.

DIGITAL FILE.

THAT MIGHT BE ALL YOU CAN DO TODAY.

MAYBE IN THE FUTURE CAN BE TRANSFER IT TO A BETTER FILE.

HANG ONTO IT.

HANG ONTO IN CASE YOU HAVE THE OPPORTUNITY TO DO IT BETTER IN THE FUTURE.

EVEN WHILE IT'S ON THE SHELF. IT DETERIORATES AS EVERY SECOND PASSES BY.

ONCE THE CONTENT IS TOTALLY GONE YOU DON'T HAVE TO HANG ONTO IT.

>> GREAT.

>> SO A MIXED ANSWER THERE.

>> THERE WAS A DISCUSSION IN THE CHAT BOT I THOUGHT I WOULD LOVE TO HAVE YOU WEIGHT IN ON.

ONE SAID THEY HEARD THAT BLU-RAY DISCS WERE GOING TO DISAPPEAR FROM THE MARKET SOON.

WHAT IS NEXT?

WHAT IS THE NEXT EMERGING THING TO WORRY ABOUT.

>> OH, BOY.

BLU-RAY DIDN'T HAVE MUCH UP TAKE IN BOTH IN LINE RAREYS A CHOICE OF DVD OR BLU-RAY.

THAT'S A COMMERCIAL RELEASE.

WE'RE TALKING ABOUT THIS

DISCUSSION.
YOU'RE CORRECT.
IT HAS NOT HAD THE UP TAKE FOR
RECORDABLE MEDIA.
EVERY MEDIA DISAPPEARS.
THE OBSOLETE FORMATS.
IT WILL BE GONE.
THERE WILL BE SOMETHING AROUND
THE CORNER.
SOMETHING THAT WILL LAST A
MILLION YEARS.
THE PROBLEM IS WILL YOU HAVE THE
PLAY BACK OPPORTUNITY IN THE
FUTURE IN A INNING YEARS.
CAN YOU PLAY IT BACK.
THAT'S WHAT I'M STRESSING HERE.
THE THING IS NOT TO WORRY ABOUT
THE PHYSICAL MEDIUM YOU WILL
STORE IT TO.
EVERY IS GOING DIGITAL.
THAT'S ANOTHER TOPIC.
IF YOU'RE TRANSFERRING NOW
TRANSFER TO A DIGITAL FILE.
HAVE A PRESERVATION STRATEGY TO
KEEP THE FILES ALIVE OVERTIME.
>> LINDA I'M HOPPING IN HERE AND
PULLING OVER A LINK TO THE HOME
WORK ASSIGNMENT FOR THE WEBINAR.
I'M GOING TO ASK THOSE WATCHING
IN A GROUP, ONE PERSON LOGGED
IN.
MULTIPLE PEOPLE EARNING A
CERTIFICATE OF COMPLETION.
IF YOUR GROUP LEADER CAN PUT IN
EVERYONE WATCHING WITH YOU THAT
WOULD BE GREAT.
WE HAVE ABOUT SIX MORE MINUTES
LEFT.
YOU HAVE A TON MORE QUESTIONS.
>> YES.
I'M GOING TO GO FROM THE TOP OF
MY LIST ON DOWN.
AS LONG AS WE HAVE TIME.
BOTH FOR VIDEOTAPE AND YOU
MENTIONED THE OPTICAL DISCS AS
WELL THERE IS THIS CHANCE FOR
MOLD.

YOU HAD MENTIONED CLEANING
TECHNIQUES FOR THE OCTOBER CAL
DISCS.

SOMEONE HAD A QUESTION ABOUT
WHAT DO YOU DO WITH MOLD ON
VIDEO TAPES?

FOR THAT I WOULD -- I WOULD SEND
IT OUT TO A PROFESSIONAL
CLEANER.

IF YOU DON'T KNOW WHAT YOU'RE
DOING.

YOU HAVE TO TAKE THE TAPE OUT OF
THE CASSETTE.

YOU COULD DAMAGE IT.

YOU HAVE TO HAVE THE APPROPRIATE
EQUIPMENT TO CLEAN IT OFF.

FOR THAT I RECOMMEND SENDING IT
TO A PROVIDER.

THERE AREN'T THAT MANY THAT CAN
GET MOLD OFF.

ON THAT HAND OUT I HAVE VENDORS.

YOU CAN CONTACT THEM AND ASK
THEM IF THEY CAN REMOVE MOLD
THEY WILL TELL YOU YES OR.

>> Don: THEY WON'T SAY THEY
CAN IF THEY DON'T.

>> WE HAVE SOMEONE IN THE GROUP
FROM GERMANY.

THEY POSTED THAT THEY SAID IN
GERMANY THERE IS ALSO A FORMAT
OF VIDEO 2000.

THAT WAS USED IN THE 80s DO.

YOU HAVE EXPERIENCE WITH THOSE?

>> I DO NOT KNOW WHAT THAT IS.
THAT IS GREAT.

>> A CASE OF STUMPING THE
EXPERT.

THERE.

>> I'M GOING TO WRITE THAT DOWN
AND LOOK IT UP.

>> THERE WERE A FEW RELATED
QUESTIONS.

I'M GOING TO ASK THEM AS THEY
WERE TYPED.

THREE QUESTIONS.

ONE WAS:

DO YOU THINK WE SHOULD DOUBLE UP

BY AR KAOEUFL HDD, DATA COPY AND
A PHYSICAL VERSION.

WHAT KIND OF HDD.

WHERE DO FLASH DRIVES FIT INTO
THIS.

>> OH, BOY.

I WOULD PULL LTL INTO THIS
CONVERSATION AS WELL.

I DON'T KNOW IF I'M STEPPING ON
THE REFORMATTING QUESTIONS NEXT
WEEK.

>> WHAT DO YOU SAY.

>> GO AHEAD AND ANSWER.

NEXT WEEK IT'S MORE DEPTH.
FOR THE EXTERNAL HARD DRIVE.
IF YOU WANT TO STORE CONTENT ON
THAT.

THE MAIN THING IS REDUNDANCY.
YOU WANT TWO OR THREE COPIES.
THREE IS RECOMMENDED FOR THE
DIFFERENT MEDIA.

EXTERNAL HARD DRIVE DON'T GO
WITH A TIES MORE THAN A T
E.R.A. BYTE.

THERE ARE REPORTS, IT'S
TEMPTING.

THERE ARE STORIES OF LARGER
STORAGE IT'S BASICALLY WRITING
THE TPO +*LGS INFORMATION AROUND
GROOVES, MAGNETIC MEDIA AS WELL.
THEY HAVE TO MAKE THE GROOVES
NARROW AND THERE IS MORE OF A
CHANCE TO FAIL.

AGAIN THESE ARE REPORTS ABOUT
THE MEDIA.

SO NO MORE THAN ONE T
E.R.A. BYTE, MULL APPROXIMATELY
COPIES AND DON'T FILL IT UP.

LTLs YOU HAVE TO KEEP UP WITH
DIFFERENT GENERATIONS.

LTL IT IS TWO GENERATIONS
READABLE.

ONE GENERATION WRITABLE.

YOU HAVE TO MAKE SURE YOU WILL
UPGRADE EVERY TWO GENERATIONS TO
LTL TAPE INDEX.

COY GO INTO MORE ABOUT THIS.

FLASH DRIVES CAN BE EXPENSIVE.
THEY'RE COMING DOWN BUT IT'S, AS
FAR AS A STORAGE MEDIUM PEOPLE
ARE NOT USING IT SERIOUSLY FOR
STORAGE ONLY FLASH DRIVES.
THEY WILL USE MORE ENTERPRISE TO
HELP WITH PERFORMANCE.

>> DID THAT ANSWER HELP?

>> I THINK SO.

THAT BRINGS TOUTS END OF OUR
TIME AS WELL.

GREAT.

>> I WILL GO AHEAD AND SKWRUPL
IN HERE.

REMAINED EVERYONE THE NEXT
WEBINAR IS MONDAY AT
2:00 O'CLOCK.

SAME PLACE.

LINDA, LAURA, THANK YOU.

THIS WAS A FANTASTIC
PRESENTATION.

EURPBGs THANK YOU, THANK YOU FOR
HAVING ME.

THERE WAS TOO MUCH INFORMATION.
HOPEFULLY PEOPLE CAN REFER TO
THE RESOURCES.

>> THIS IS A GREAT RESOURCE DOWN
THE ROAD.

A LOT OF FOLKS COMMENT THEY WILL
WATCH THIS AGAIN.

THANK YOU SO MUCH.

THANK YOU TO EVERYONE LOGGED IN.

SEE YOU MONDAY.

HAVE A GREAT WEEKEND.