Auction


Early Televisi
ULTRACOLOR


Television Co
PlayStation


ULTRACOLOR


Early Televis


Early Televis onvention
on 2
Enjoy Living Color
RCA VICTOR
2
RA-1AG


Early Tele


basic strength


Early Televis onventio
Pla n 2
ULTRACOLOR
Dave Abramson
Colorado Springs
co
2006


Early Television Conve
PlayStation 2


Early Television Conven
Play on 2
National
TELEVISION


THE NEW


SONY


Early Television Convention
PlayStation 2
DA-1AG


Early Television Convention
PlayStation 2
NORTH AMERICA


Packard Bell


David Pike
Farmington Hills
133


104
ELECTRONIC TECHNICIAN
103


Superior


Early Television Convention
PlayStation 2


SIENNA LE
SONY
KV-4000

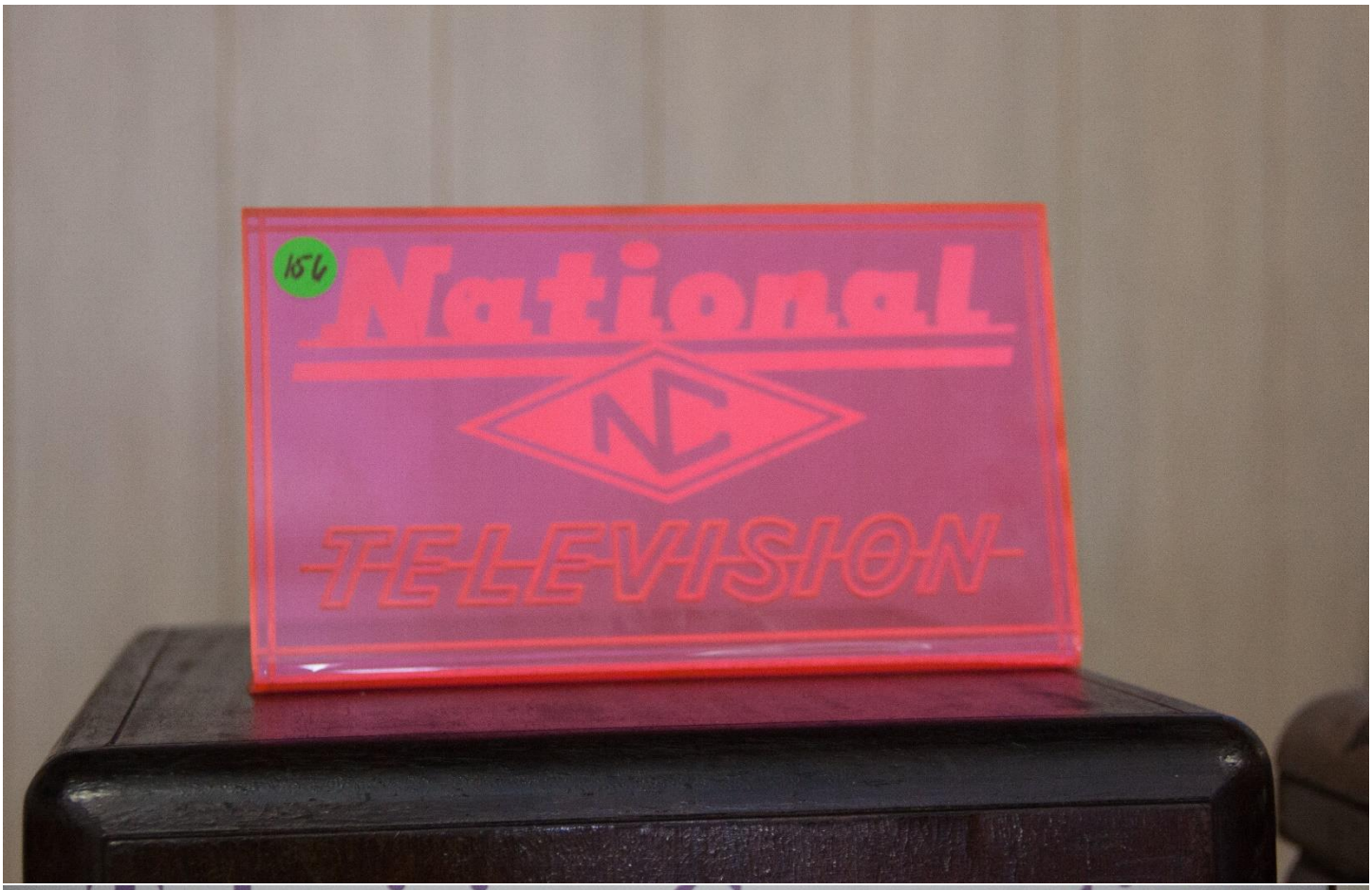

SONY
TRINITRON
KV-4000


TRANSIT connect


ZENITH


Superior
CANTON, OHIO
ELECTRONIC TECHNICIAN
103


WESTINGHOUSE


156
National
NC
TELEVISION


y Television Convention
PlayStation 2
Now
FOR THE PRICE ONCE PAID FOR BLACK AND WHITE TELEVISION
Enjoy Living Color


ABERCROMBIE

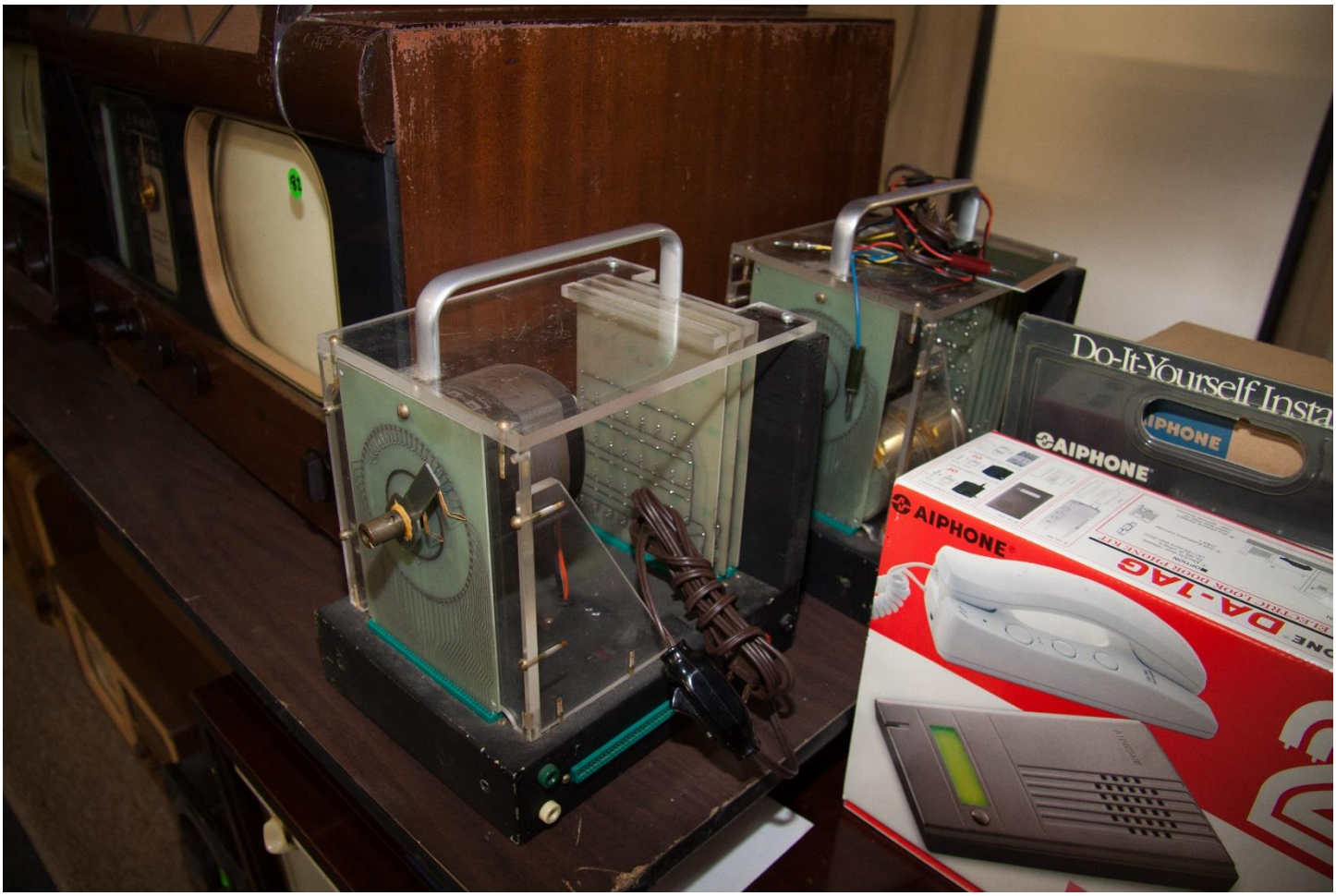

RCA


20D-12404
HICKOK
Package #: 100
Small Magnifiyr.
Min. Bid: $9 Max. Raise: $1
Bid $$
Name
Bidder


RAM
Fragile
RCA
MERIT
TRIAD
ROGERS


RCA


FRAGILE
Glass top
OR CT-100


Do-It-Yourself Insta
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DA-1AG


basic strength
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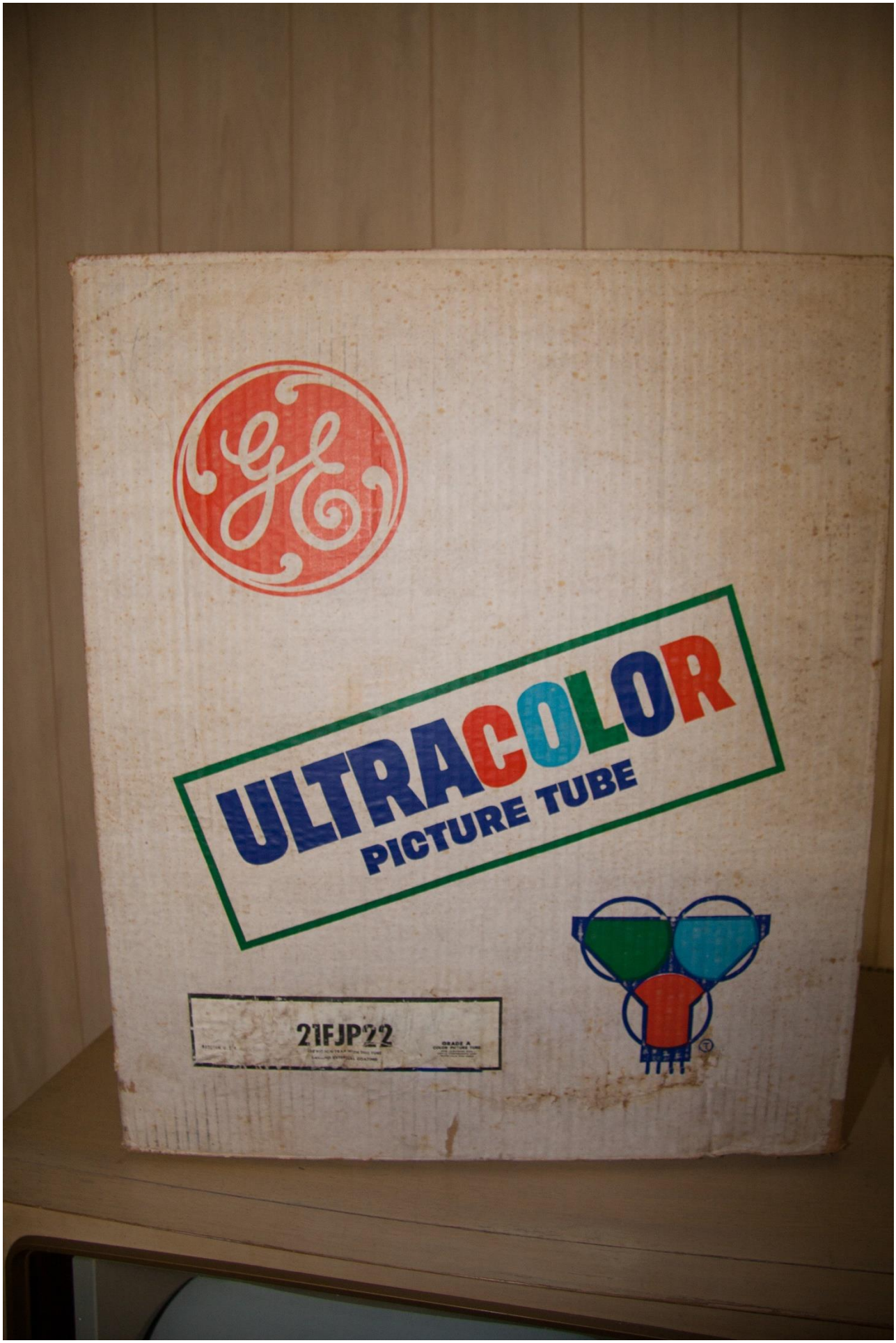
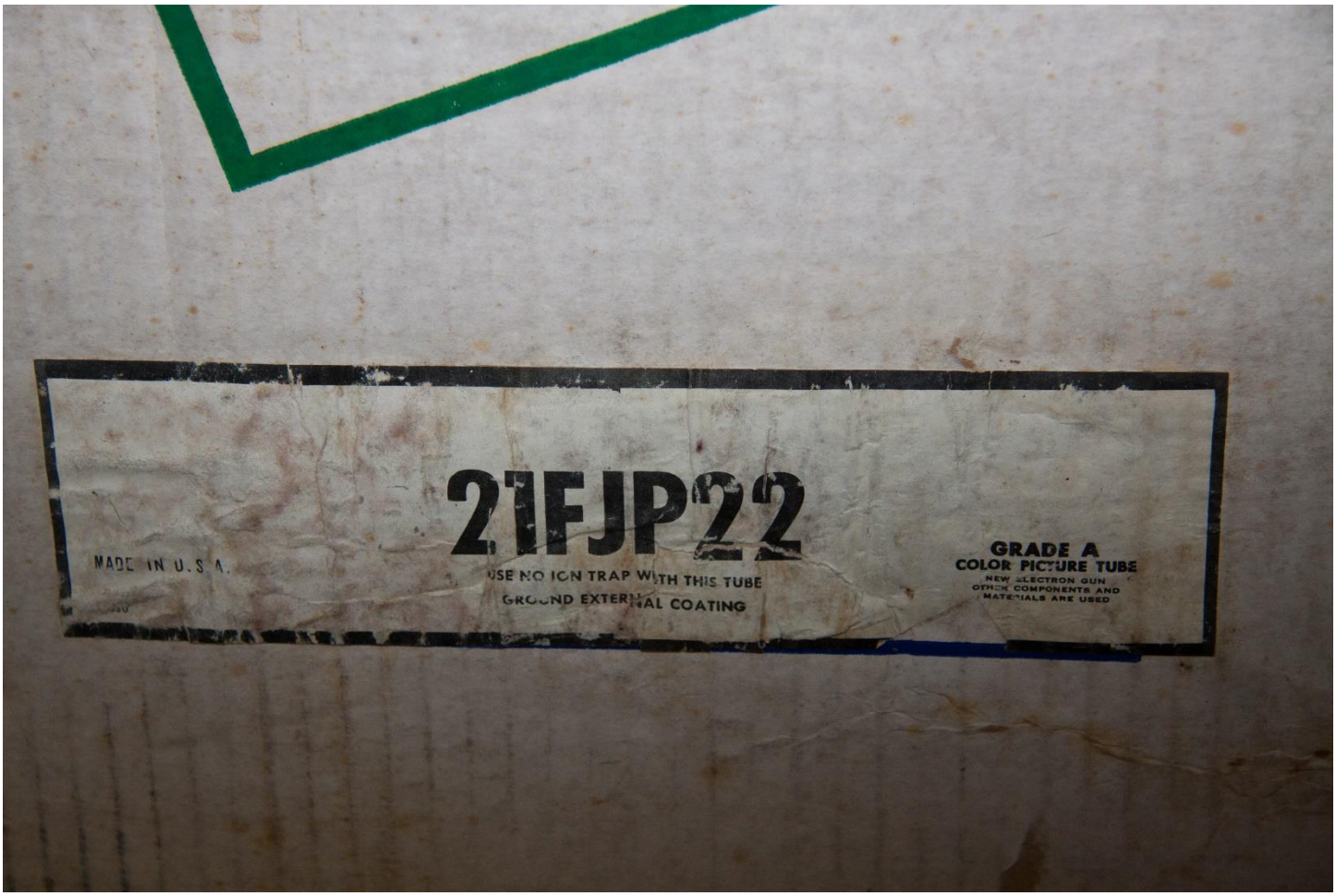

ULTRACOLOR
PICTURE TUBE
21FJP22


21FJP22
MADE IN U.S.A.
USE NO ION TRAP WITH THIS TUBE
GROUND EXTERNAL COATING
GRADE A
COLOR PICTURE TUBE
NEW ELECTRON GUN
OTHER COMPONENTS AND
MATERIALS ARE USED


RCA
Hi-Lite
Color TV
Picture Tube
LASER BRITE
GLASS
CATHODE RAY TUBE
GLASS
CHANNEL MASTER
OPTI-VUE
COLOR
PICTURE TUBE
DELL


Early Television Convention
PlayStation 2
HAWK EYE
Enjoy Living Color


RAM
Motorola


Early Television Convention
HAWK EYE
HAWK EYE
RCA

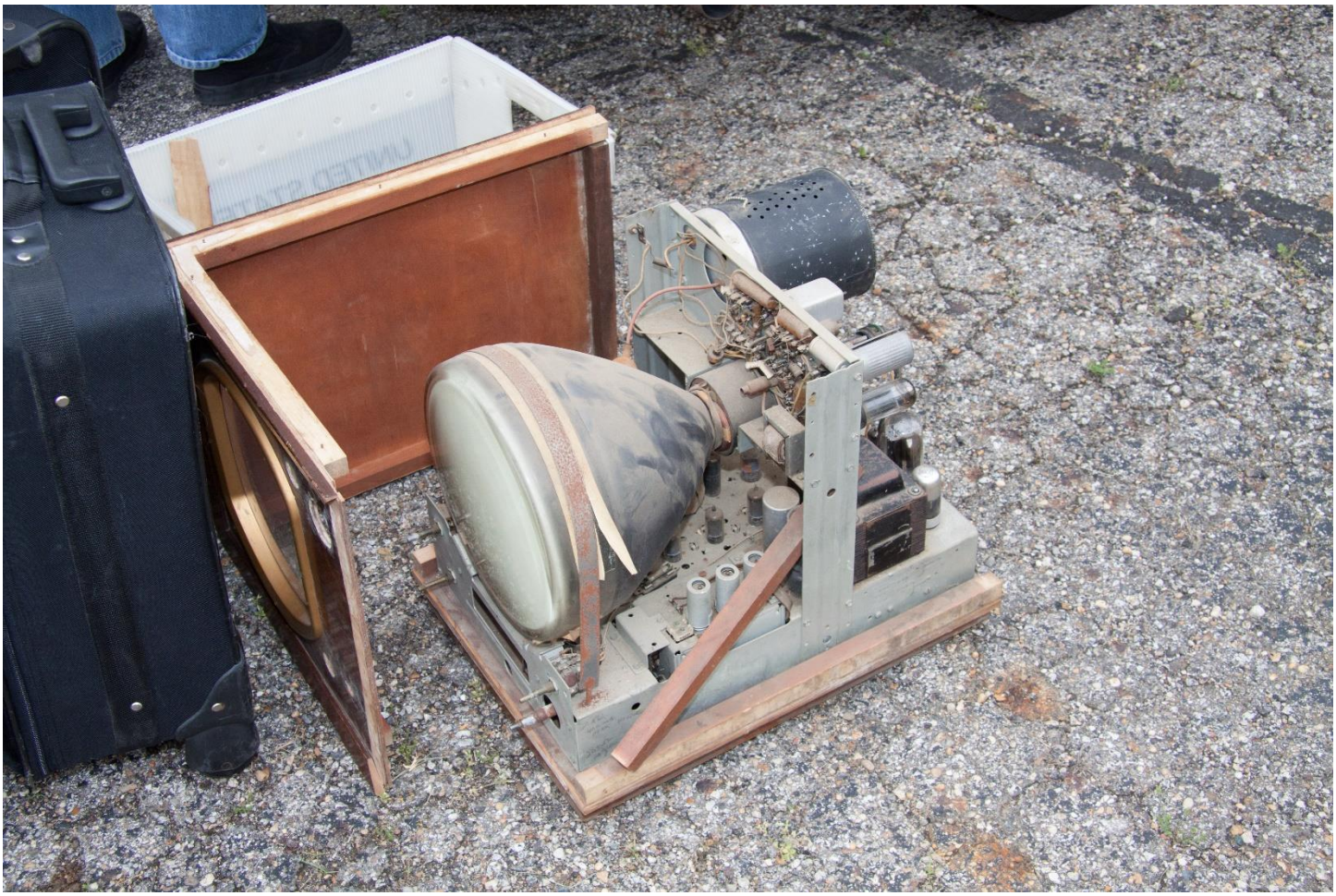

IMPORTANT
ULTRACOLOR
PICTURE TUBE
GENERAL ELECTRIC COLOR TUBES ARE SERVICE-DESIGNED, MANUFACTURED AND TESTED TO HIGHEST STANDARDS. IT'S THE BUILT-IN QUALITY THAT COUNTS.
GLASS HANDLE WITH CARE
GENERAL ELECTRIC
TUBE DEPARTMENT, OWENSBORO, KY.
ULTRACOLOR
PICTURE TUBE
21FJP22

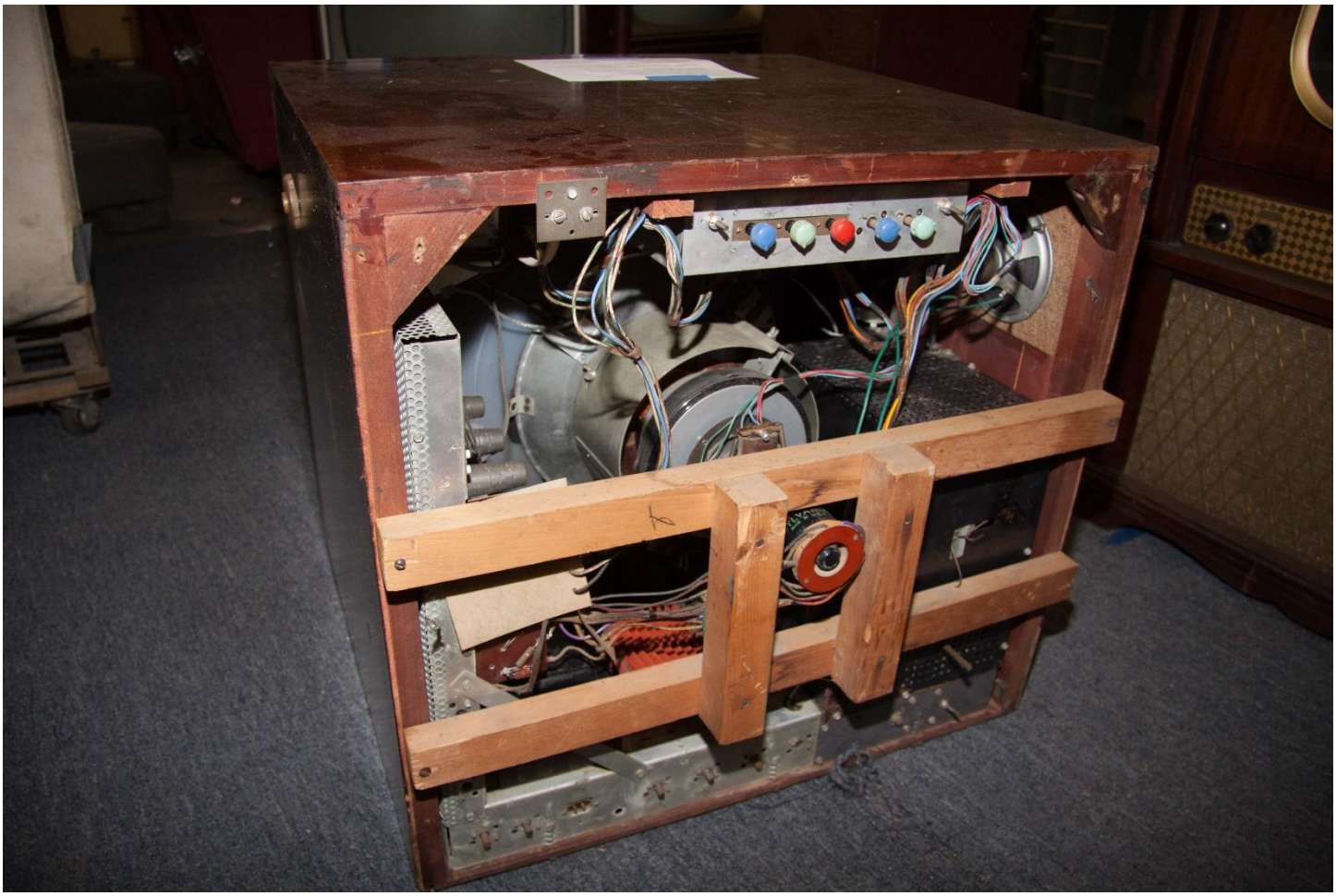

STOP
ULTRACOLOR
PICTURE TUBE

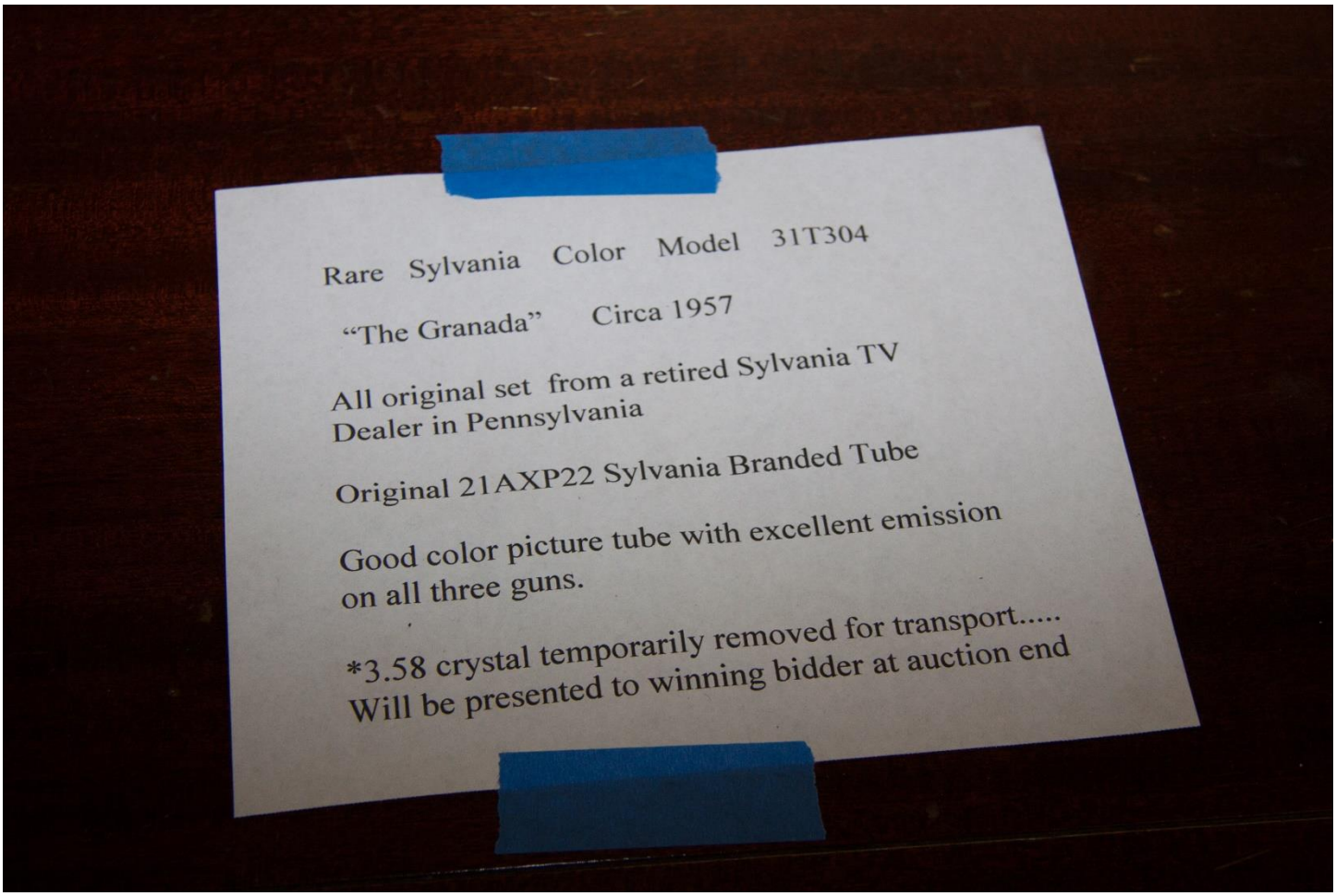

Trash
ZENITH


Early Television Conven


EXIT
DEWALT






Rare Sylvania Color Model 31T304
"The Granada" Circa 1957
All original set from a retired Sylvania TV
Dealer in Pennsylvania
Original 21AXP22 Sylvania Branded Tube
Good color picture tube with excellent emission
on all three guns.
*3.58 crystal temporarily removed for transport.....
Will be presented to winning bidder at auction end


COLOR


HDVS
High Definition Video System
SONY


SUPPLIES
HDVS
SONY


THE NEW FINCO
THE NEW FINCO
12


GLASS
Chuck Azar


Early Television Convention


ZENITH
RADI


Tom Barker
Greensburg
IN
182


93
64
RCA Victor
Television


Early Tele on Con
Station


Early Tele
ULTRACOLOR
SONY


Early Television
Now
Enjoy
Living
Color
RCA VICTOR
BIG
COLOR
Television
GLASS
2YEAR
WARRANTY


SONY
Raytheon
PHILCO TELEVISION
STANDARD BROADCAST
FREQUENCY MODULATION


Early Tele n Convention
ation 2
the Evolution of the TV Set
1928-1984
Museum of Broadcasting
Enjoy Living Color

TK-41s at Auction


RAM
Fragile


RAM
Fragile
LEAD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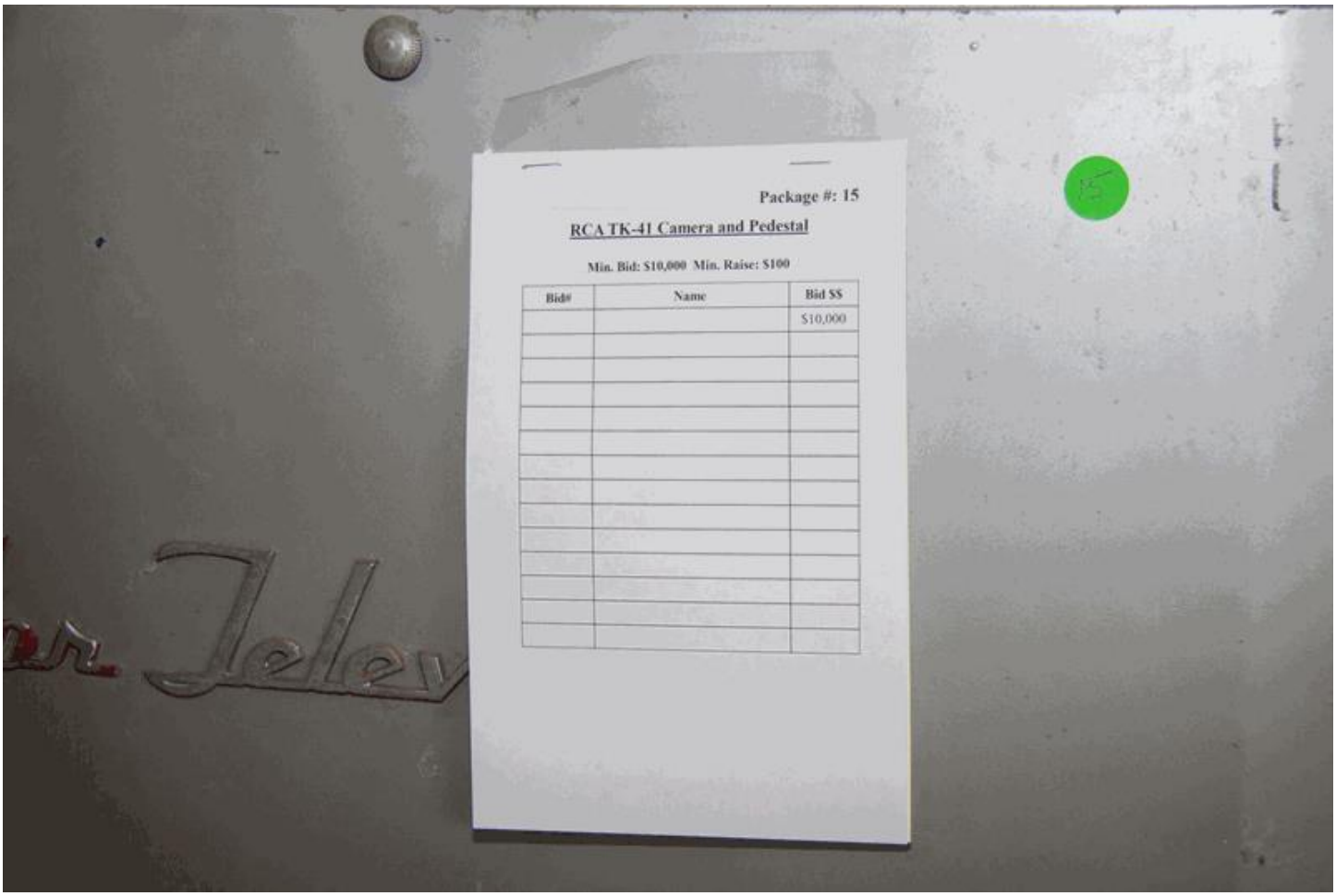
HAWK
EYE


Early Television C



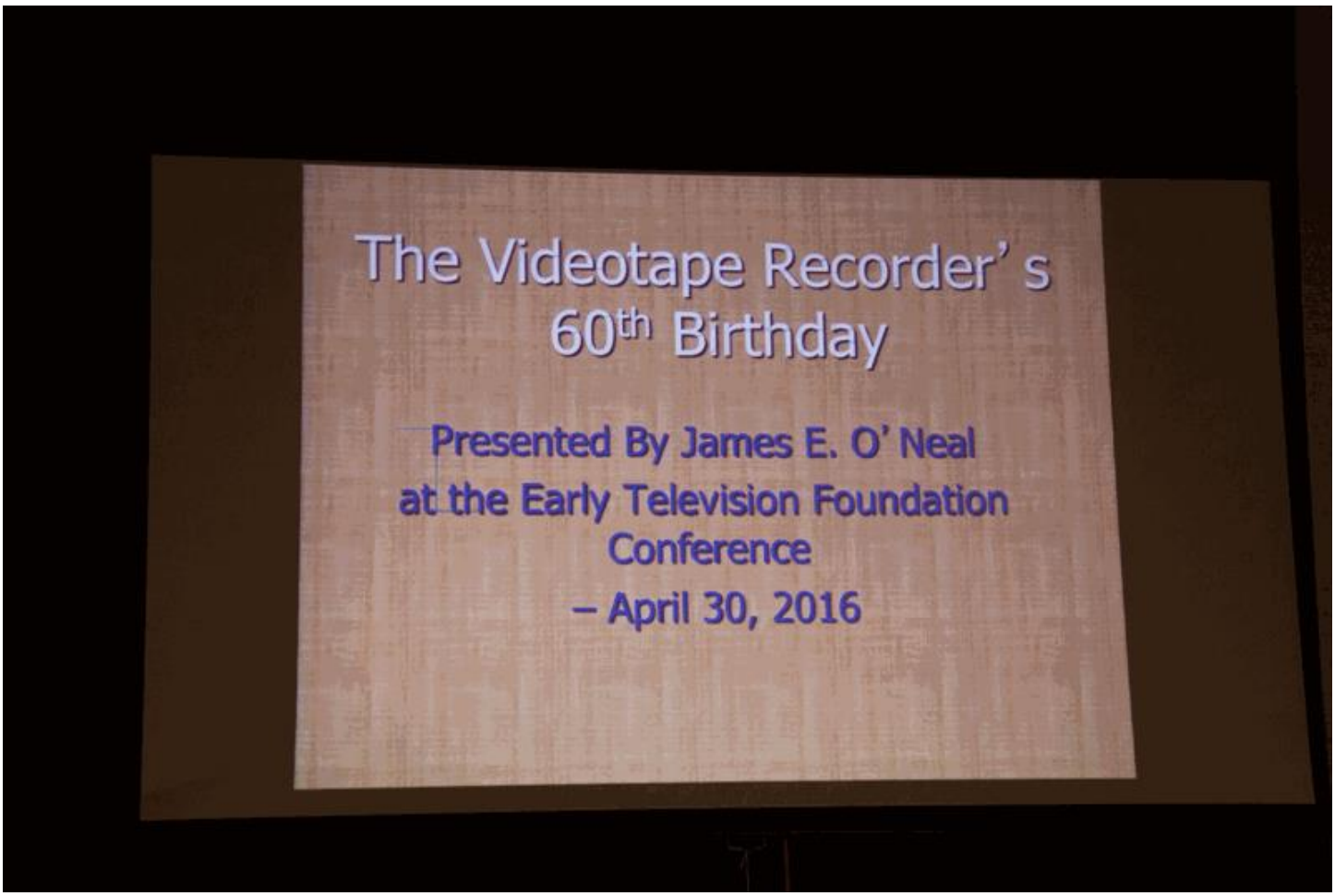
Package #: 15

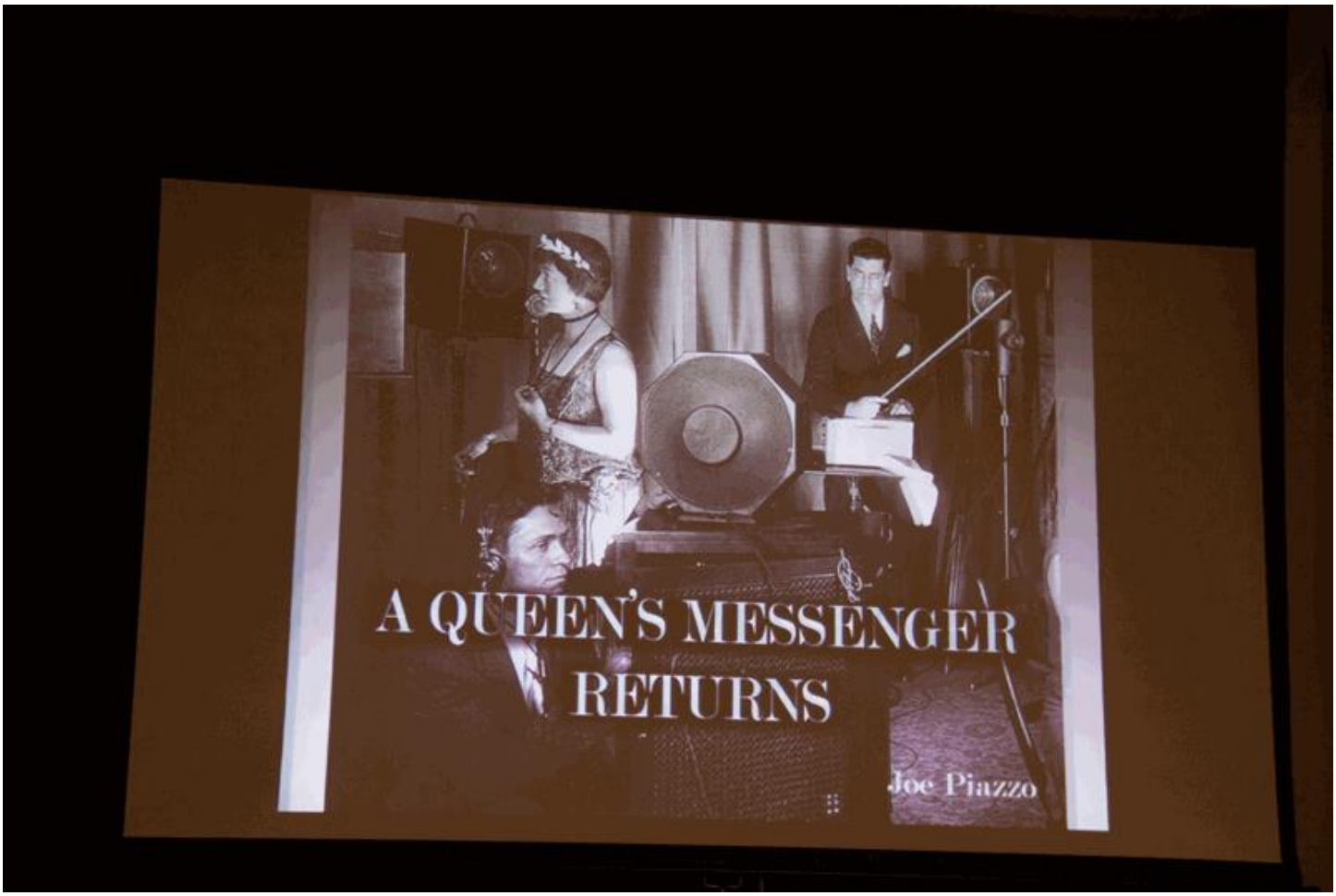
RCA TK-41 Camera and Pedestal

Min. Bid: $10,000 Min. Raise: $100

Bid#	Name	Bid $$
		$10,000

Presentations

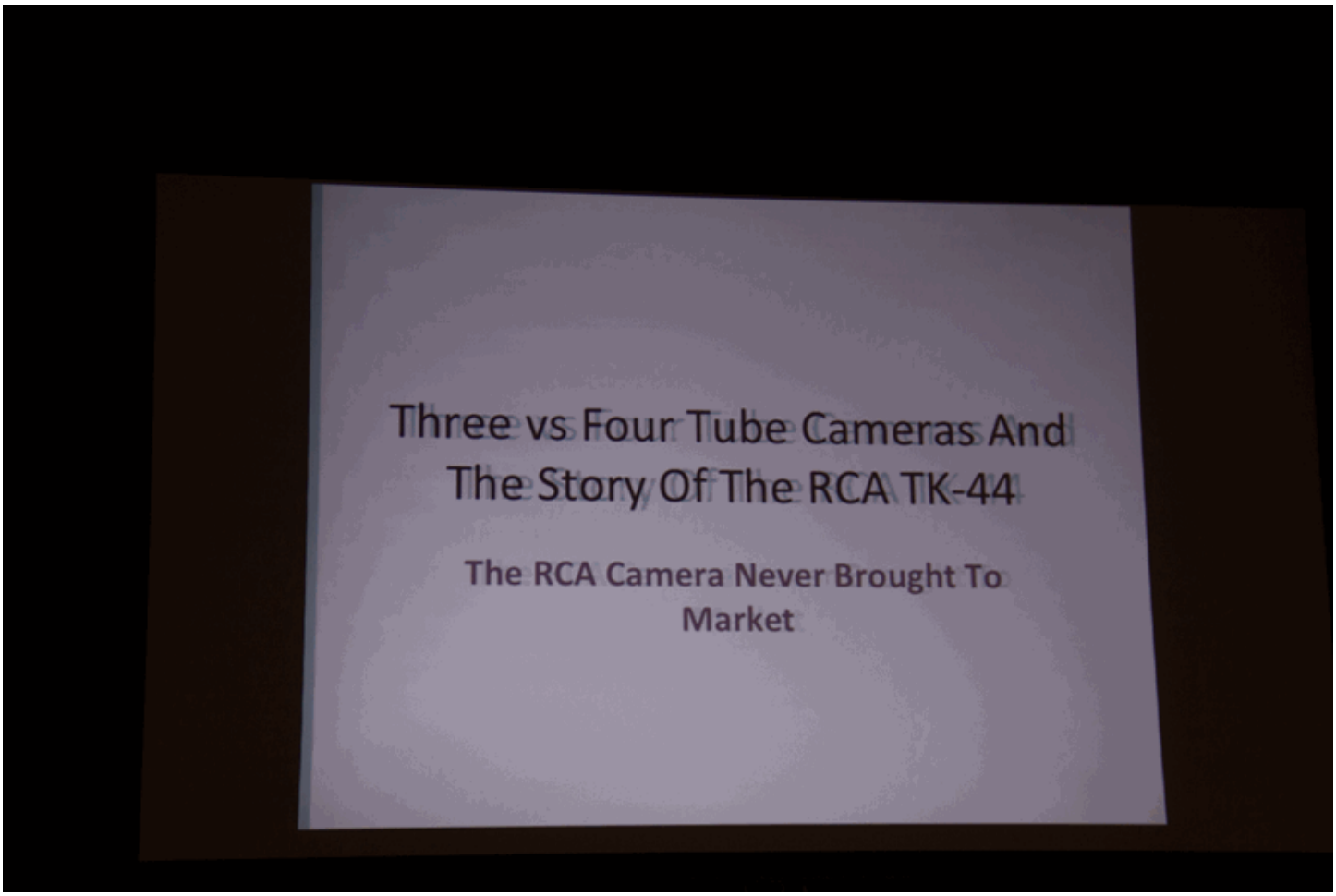


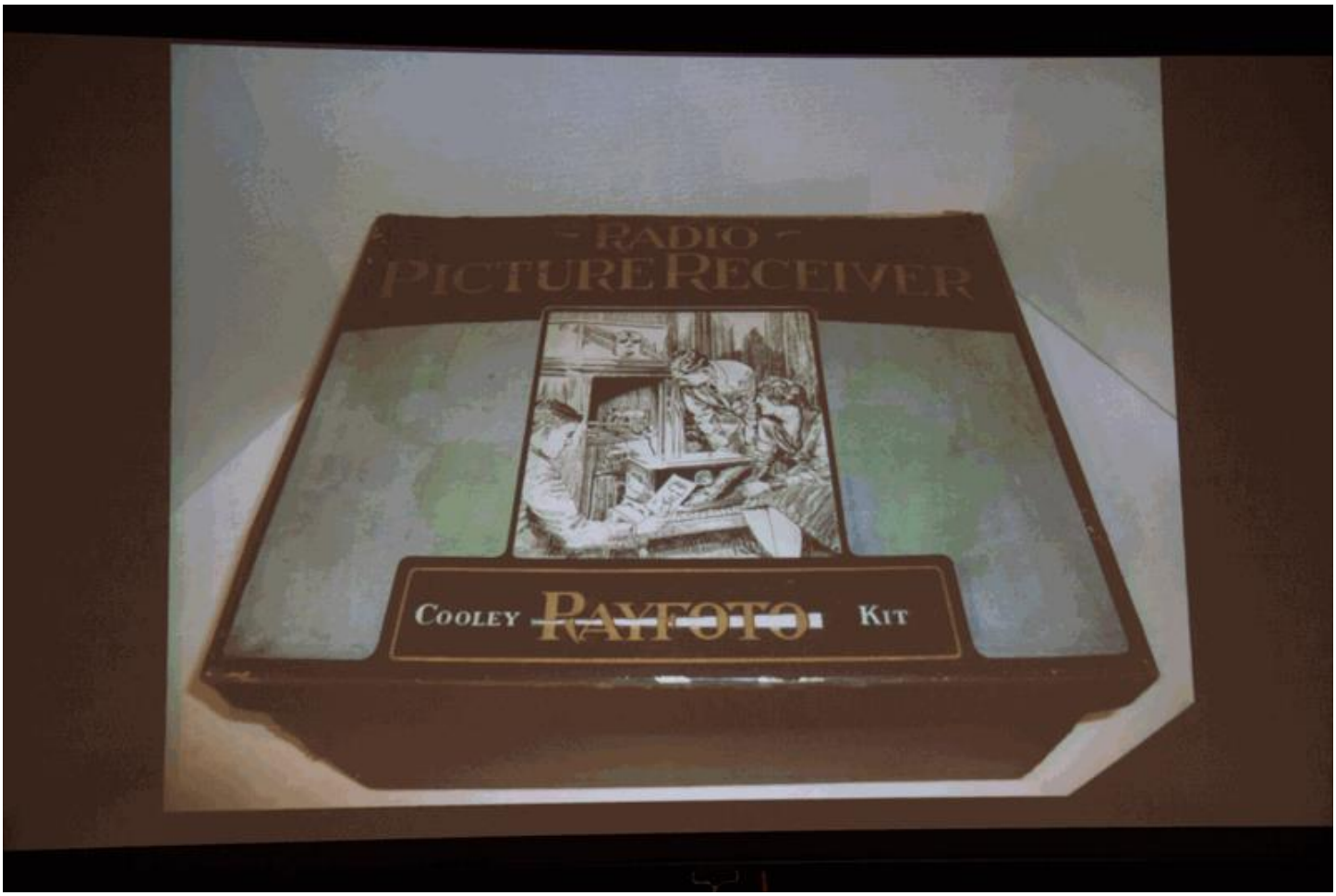

A QUEEN'S MESSENGER
RETURNS
Joe Piazzo

A QUEEN'S MESSENGER RETURNS

Joe Piazzo


Markoy
CASTLE


Three vs Four Tube Cameras And
The Story Of The RCA TK-44
The RCA Camera Never Brought To
Market


RADIO
PICTURE RECEIVER
COOLEY
RAYFOTO
KIT


Mike Molnar
175

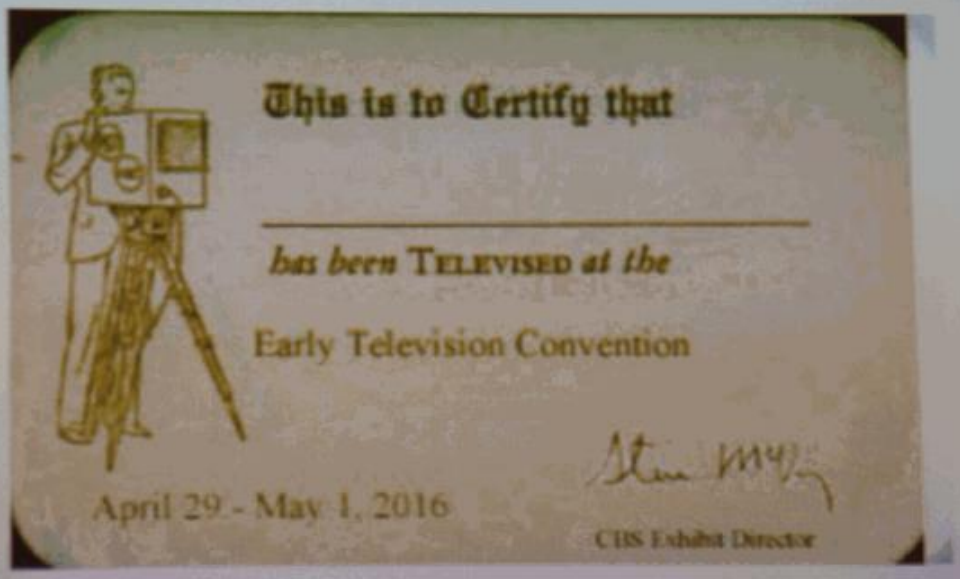
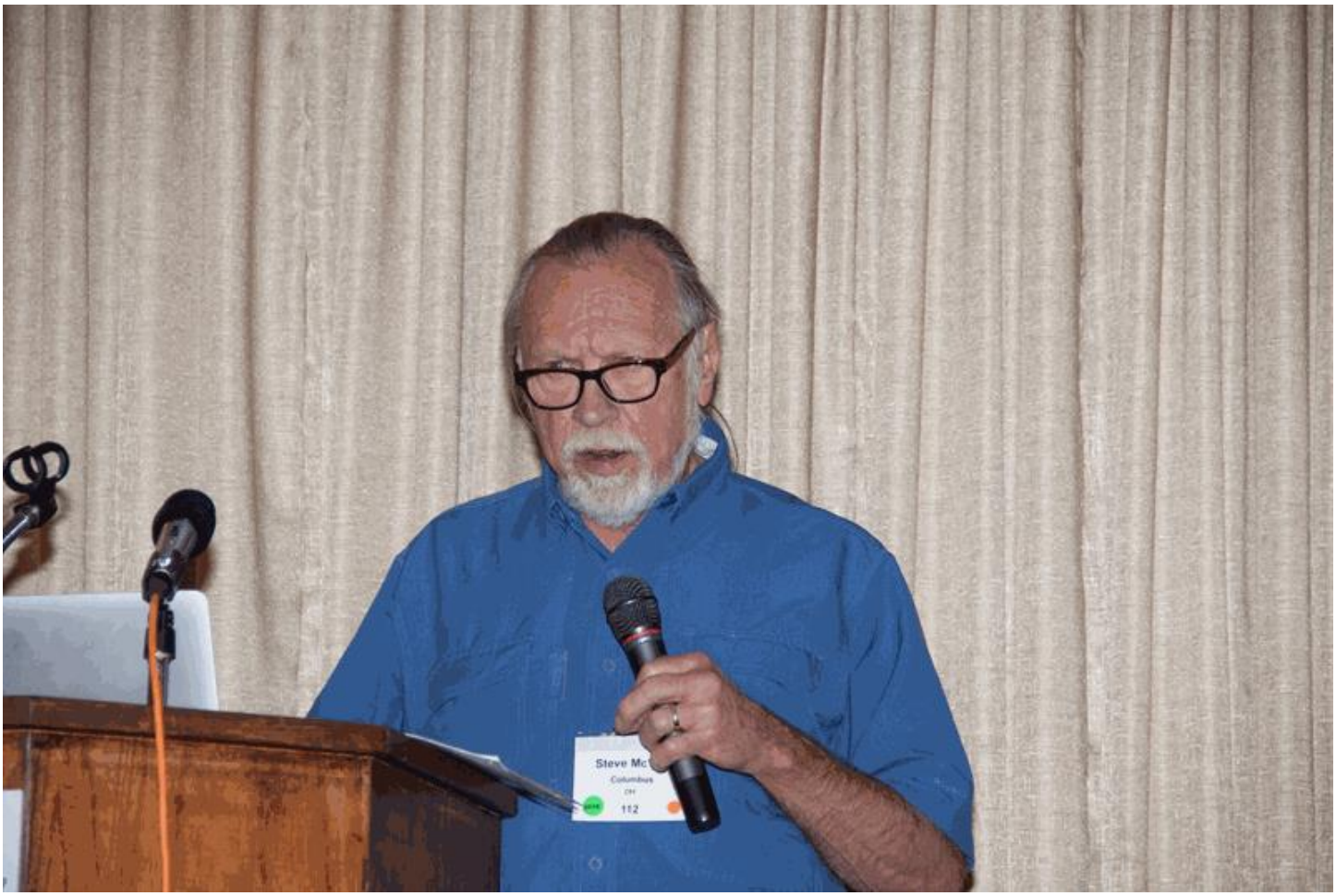

This is to Certify that
has been TELEVISED at the
Early Television Convention
April 29 - May 1, 2016
CBS Exhibit Director

FIG. 1-A VERICOLOR CAMERA CHAIN


Steve Mc
Columbus
OH
112


The CBS
Remington Rand
Vericolor Camera

ADVANTAGES OF THE

CHROMATRON

A SINGLE GUN TRI-COLOR TELEVISION TUBE

WIDE DEFLECTION ANGLE - 70°, which means it's

SHORT TUBE - the overall length for the [illegible] picture tube is [illegible]. It gives a

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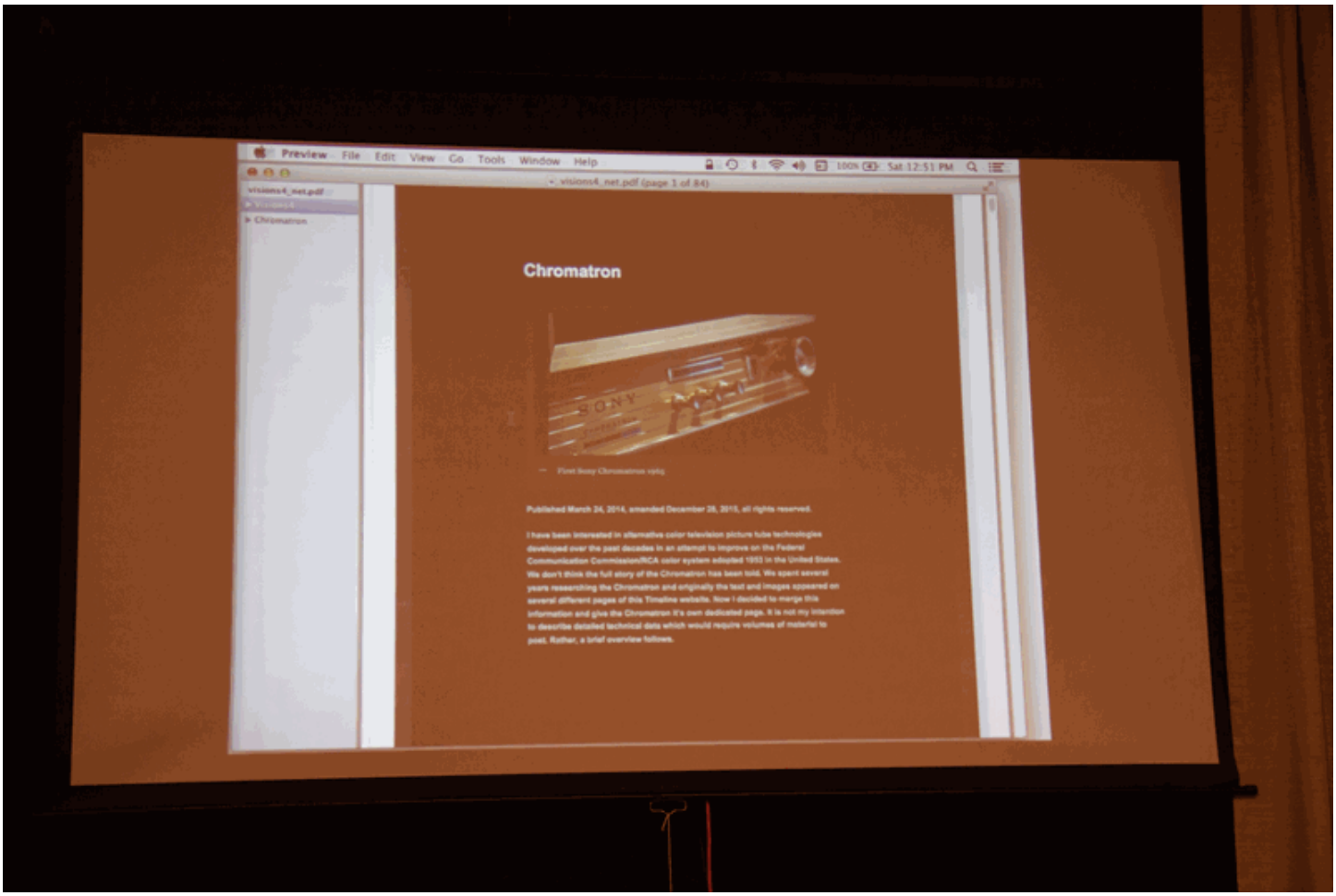
RELIABLE - Color control assembly not subject to damage even during extended periods of operation and high current beam in input to small area.

CHROMATIC
TELEVISION LABORATORIES, INC.

PARAMOUNT BUILDING
1501 BROADWAY
NEW YORK 36, NEW YORK - [illegible]

WEST COAST DEVELOPMENT LABORATORY
[illegible]
BURBANK 1, CALIFORNIA - [illegible]


Preview File Edit View Go Tools Window Help
visions4_net.pdf (page 1 of 84)
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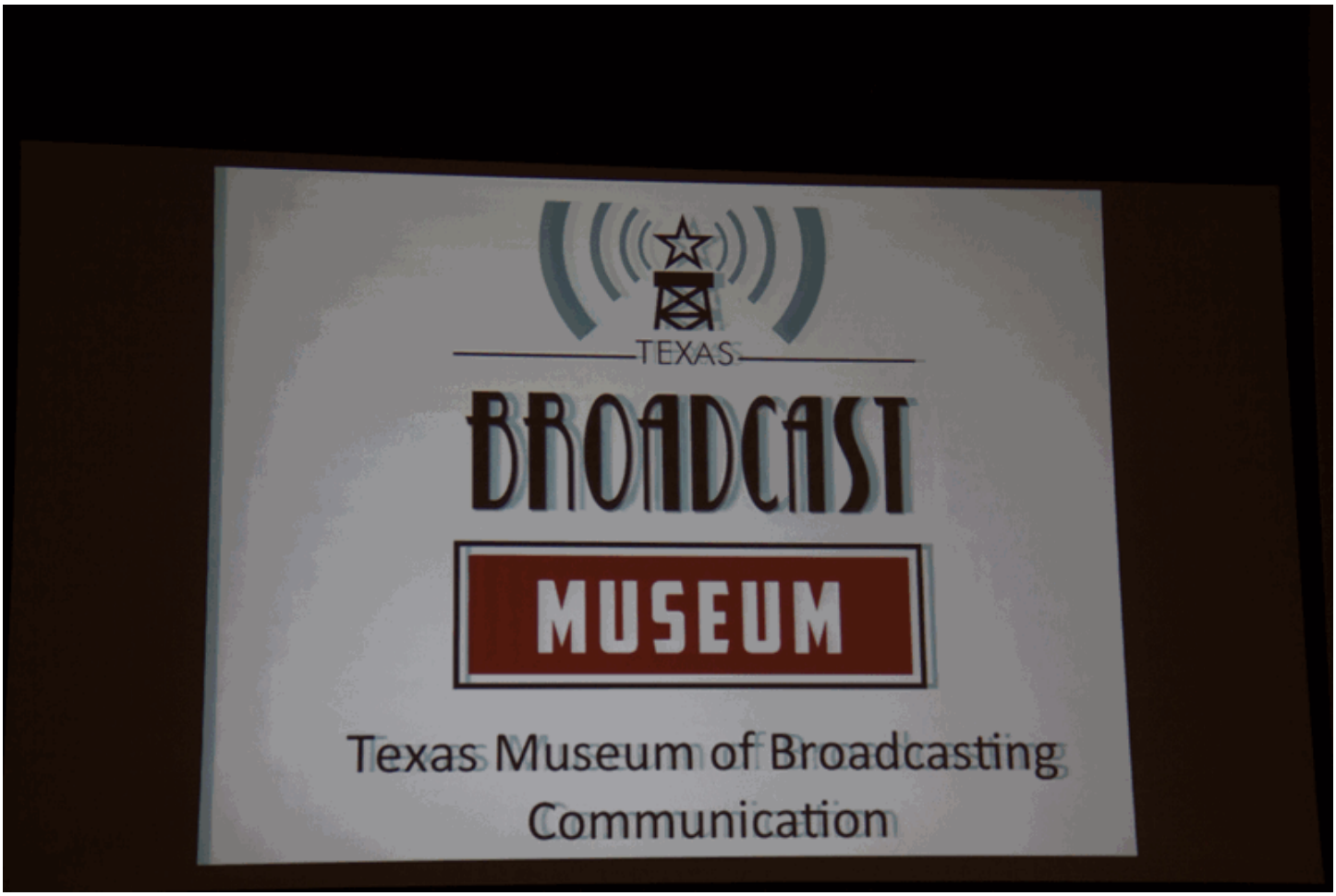
Chromatron
Chromatron
SONY
Published March 24, 2014, amended December 28, 2015, all rights reserved.
I have been interested in alternative color television picture tube technologies developed over the past decades in an attempt to improve on the Federal Communication Commission/RCA color system adopted 1953 in the United States. We don't think the full story of the Chromatron has been told. We spent several years researching the Chromatron and originally the text and images appeared on several different pages of this Timeline website. Now I decided to merge this information and give the Chromatron it's own dedicated page. It is not my intention to describe detailed technical data which would require volumes of material to post. Rather, a brief overview follows.


Makoy
CENTER


Makoy
CENTER


Makoy
CENTER


Early Television Museum
2016
Convention


TEXAS
BROADCAST
MUSEUM
Texas Museum of Broadcasting
Communication

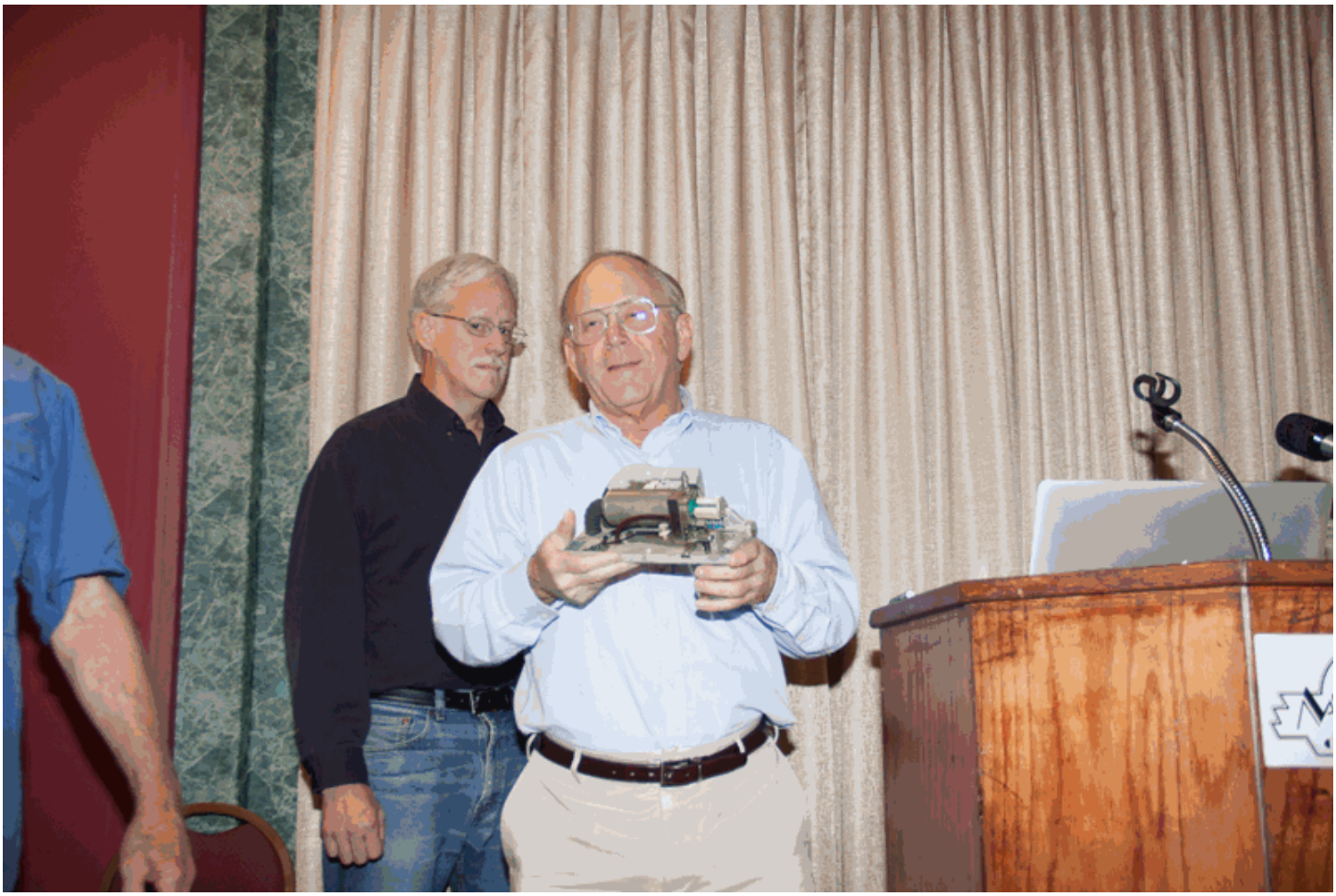

Makoy

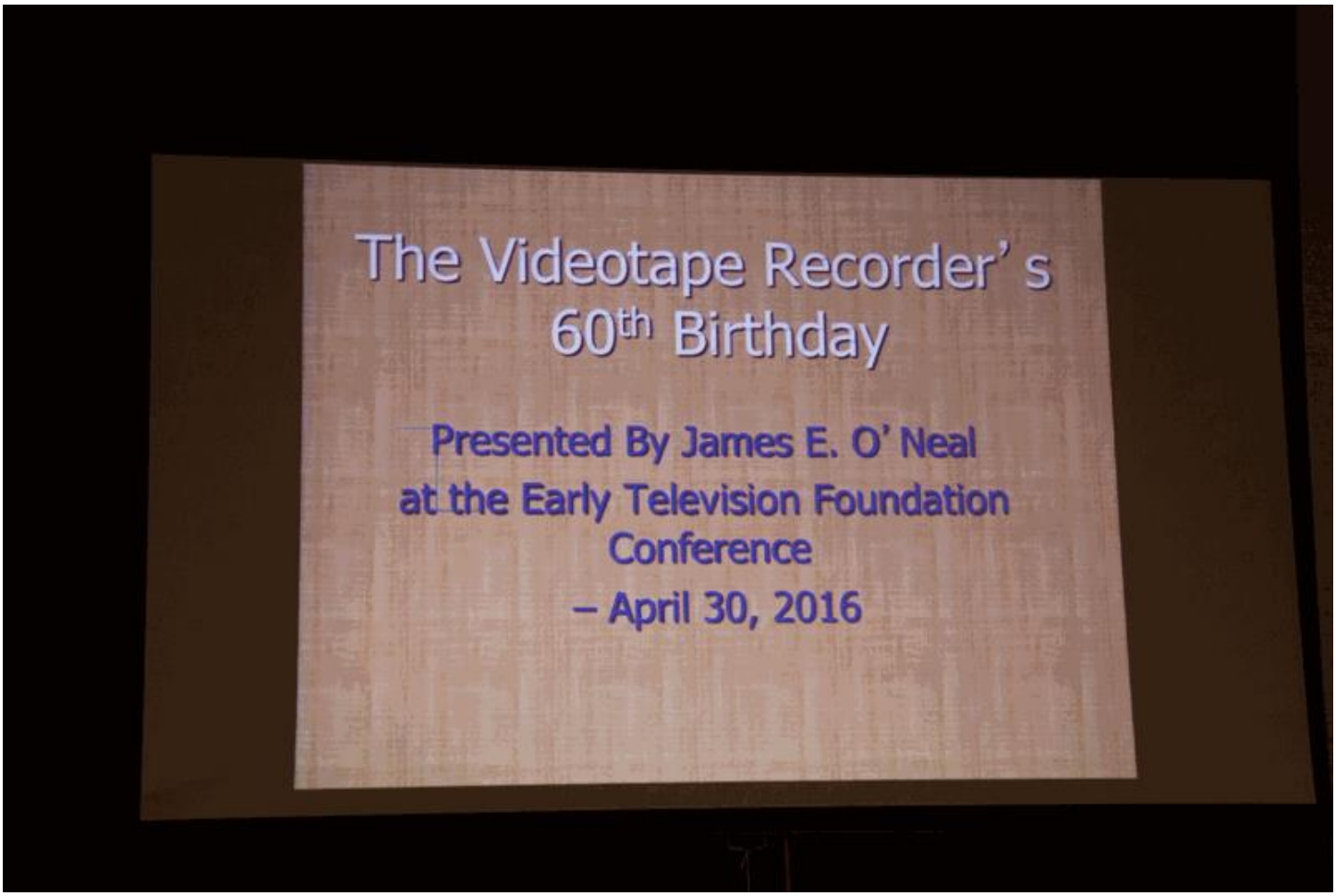
TV Signal Boosters and UHF Converters

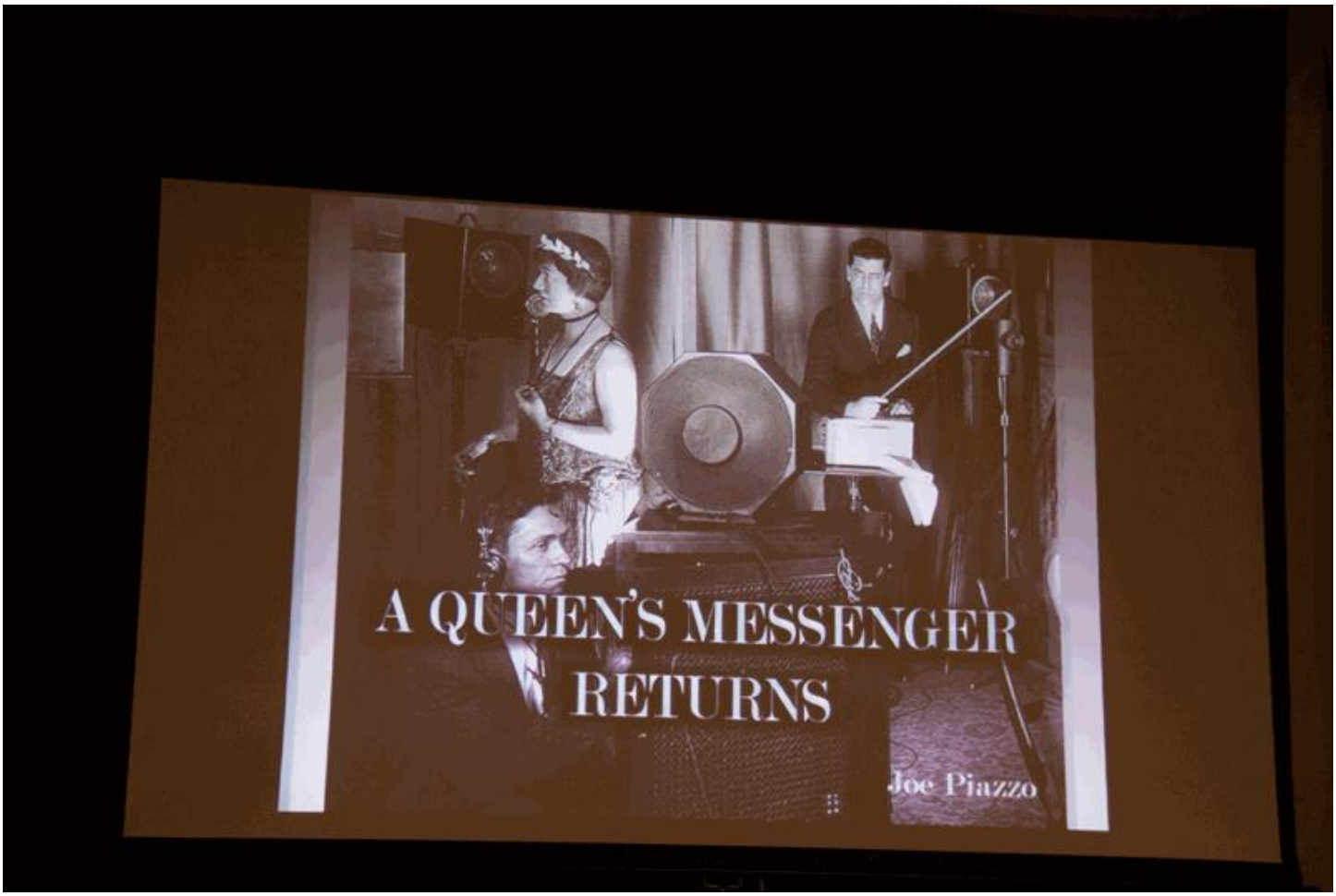
An Overview

Mark Nelson

WWW.TV-BOXES.COM




The Videotape Recorder's
60th Birthday
Presented By James E. O' Neal
at the Early Television Foundation
Conference
– April 30, 2016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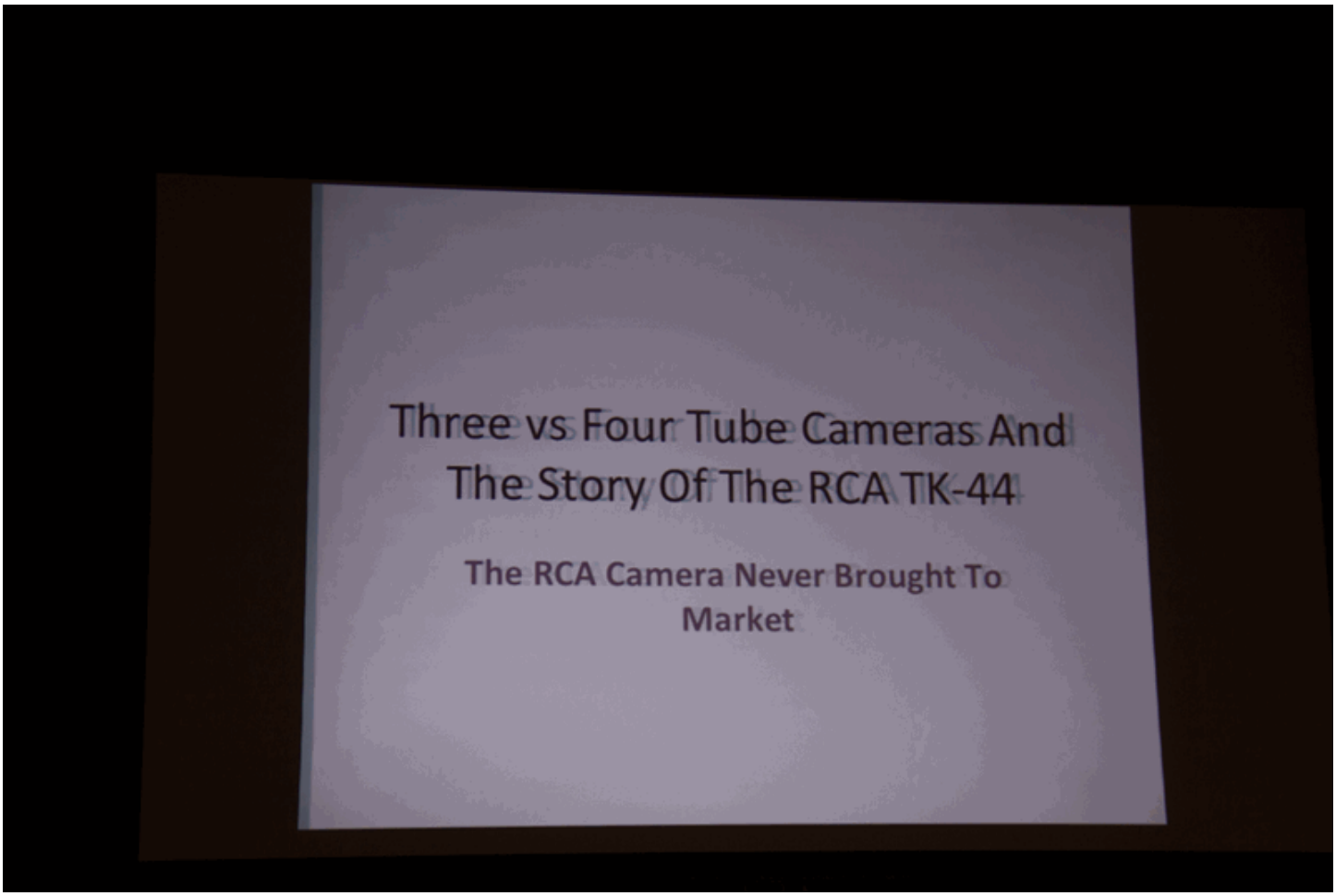
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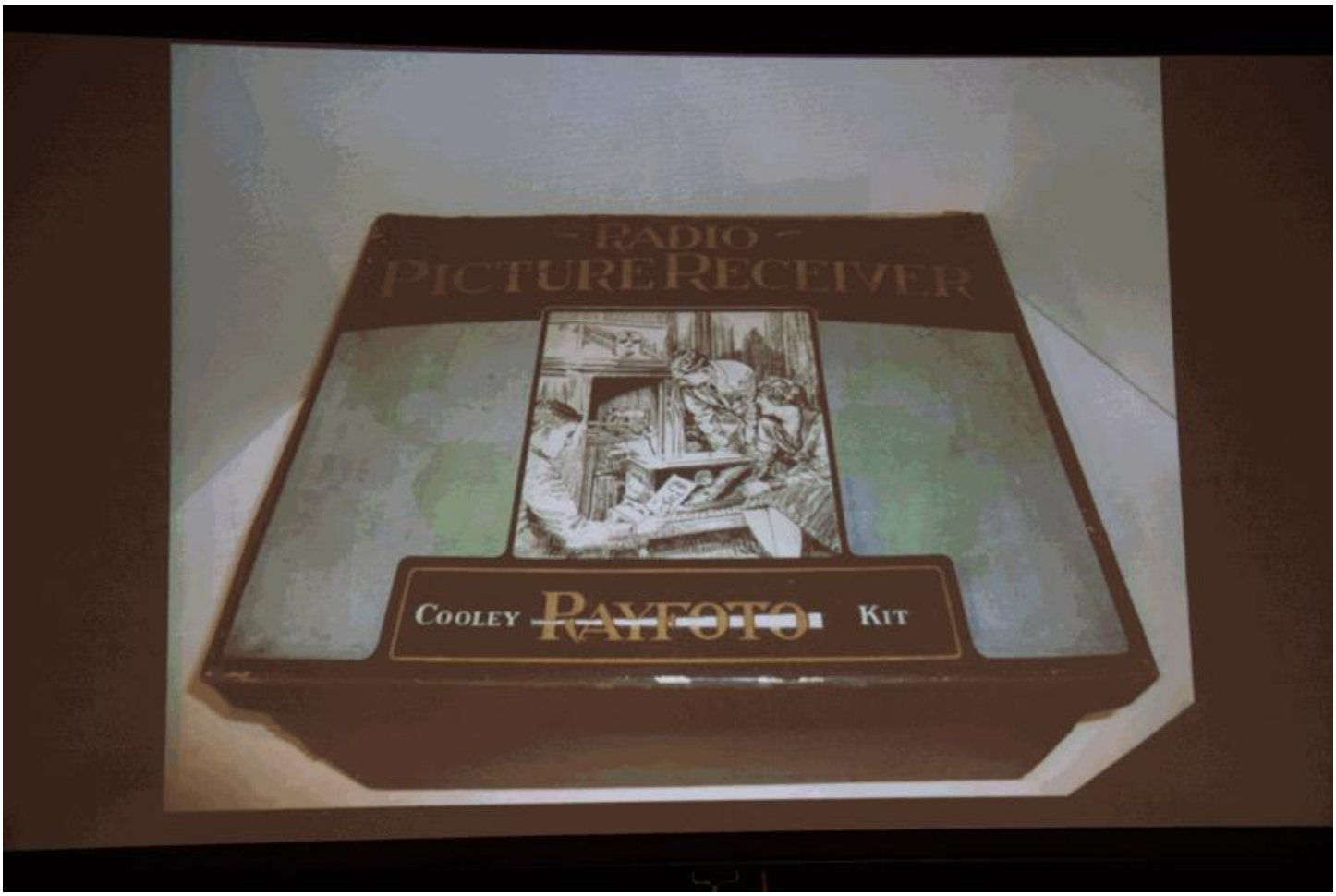
RADIO
PICTURE RECEIVER
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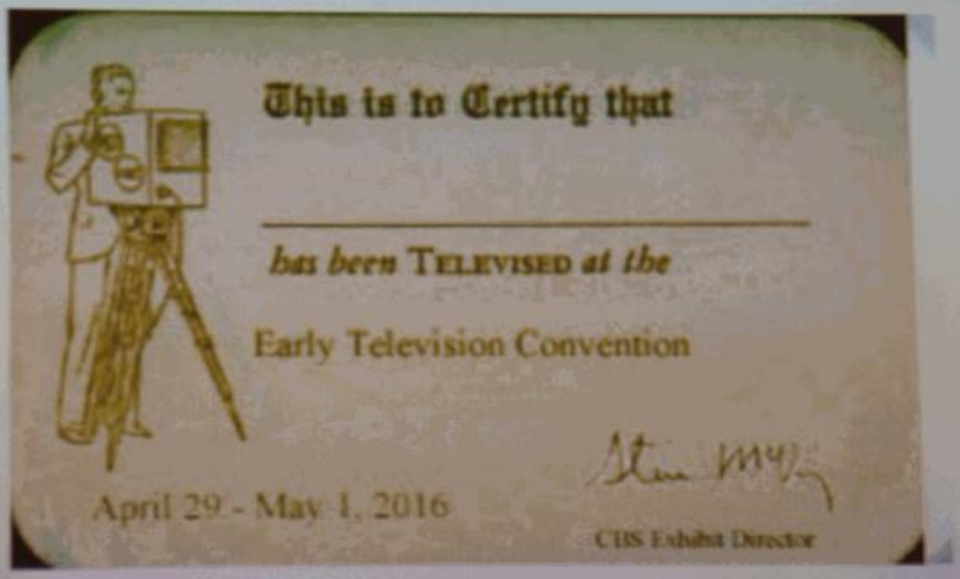
Mike Molnar
175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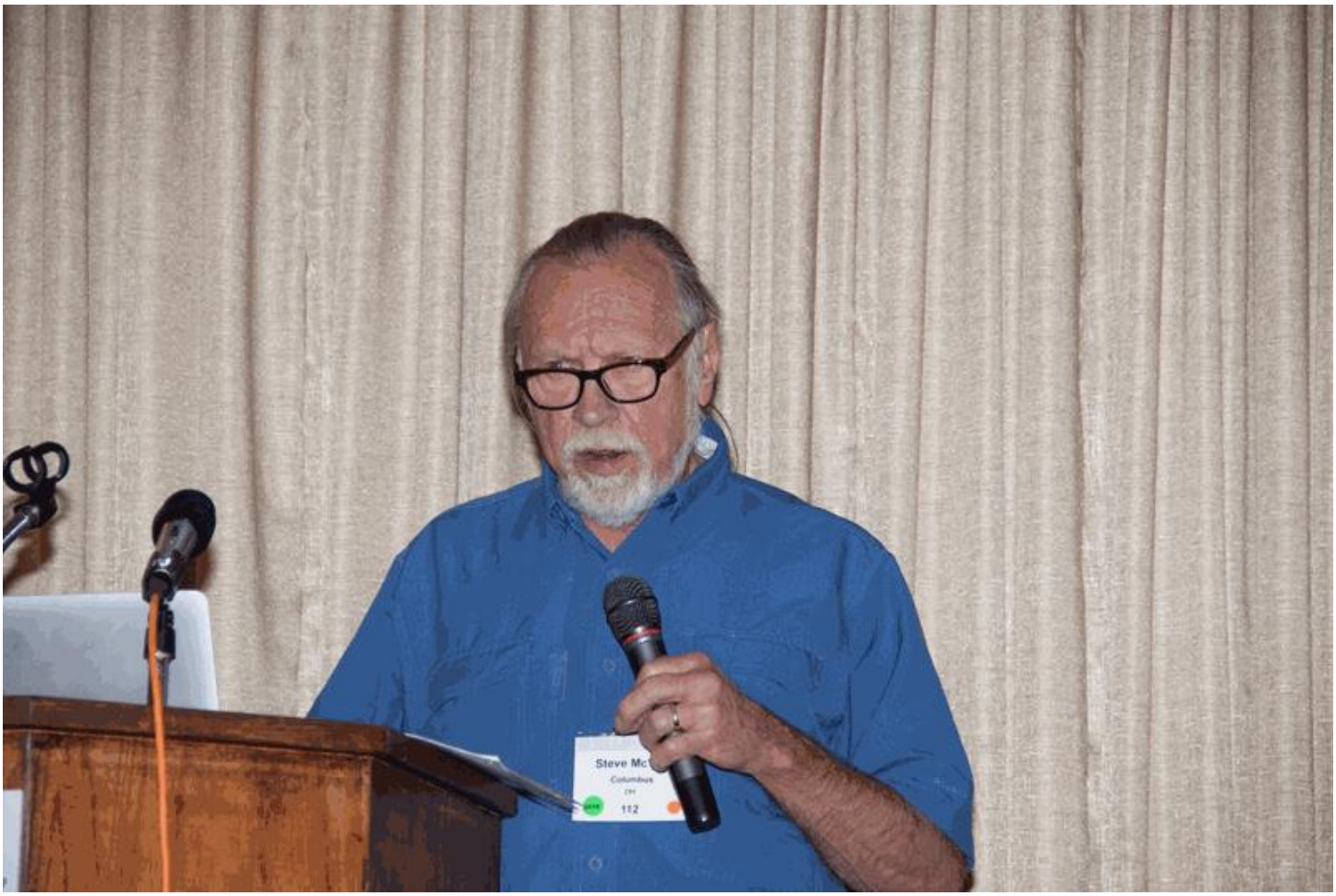
Steve Mc
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112


The CBS
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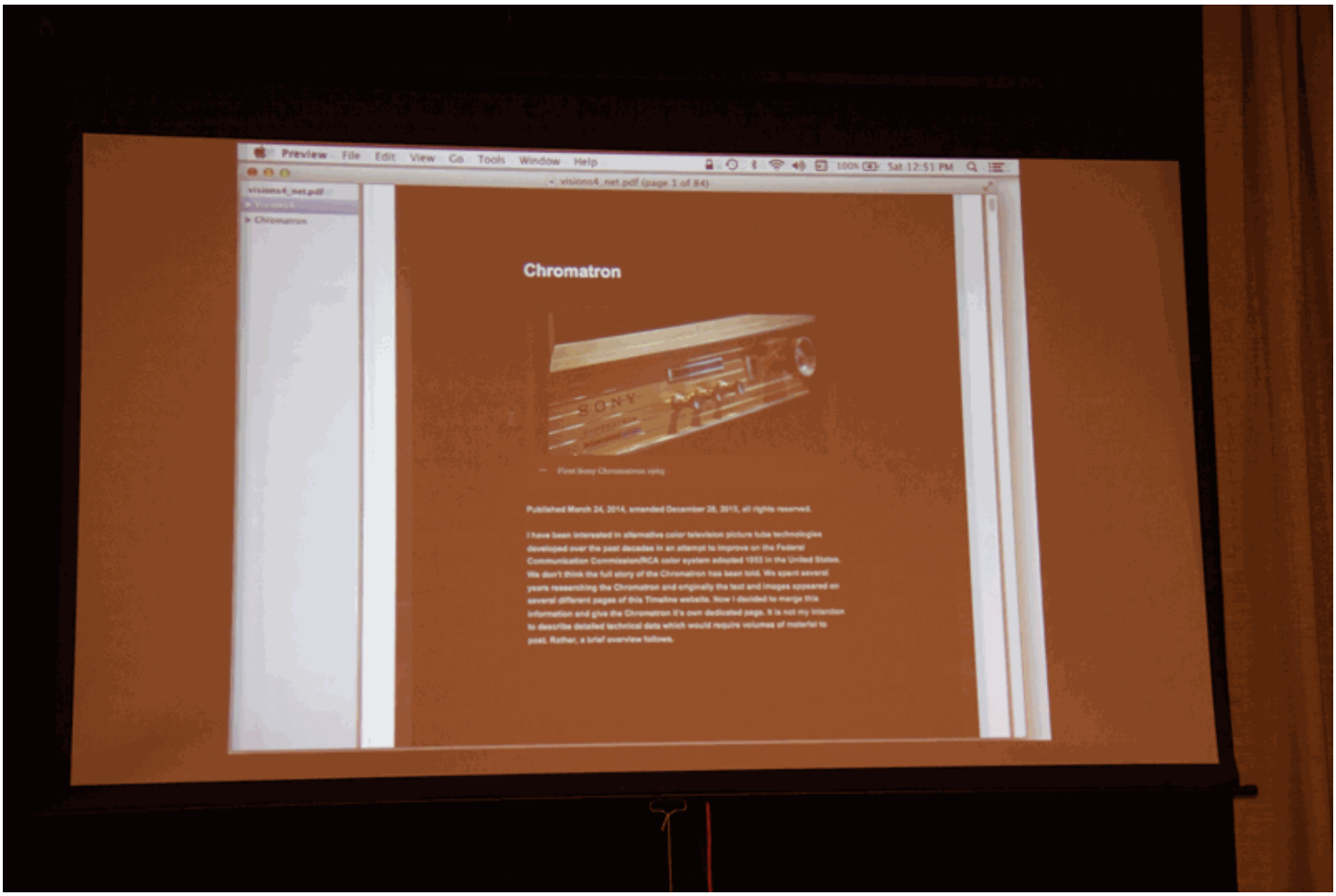
Preview File Edit View Go Tools Window Help
visions4_net.pdf (page 1 of 84)
visions4_net.pdf
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Chromatron
Chromatron
SONY
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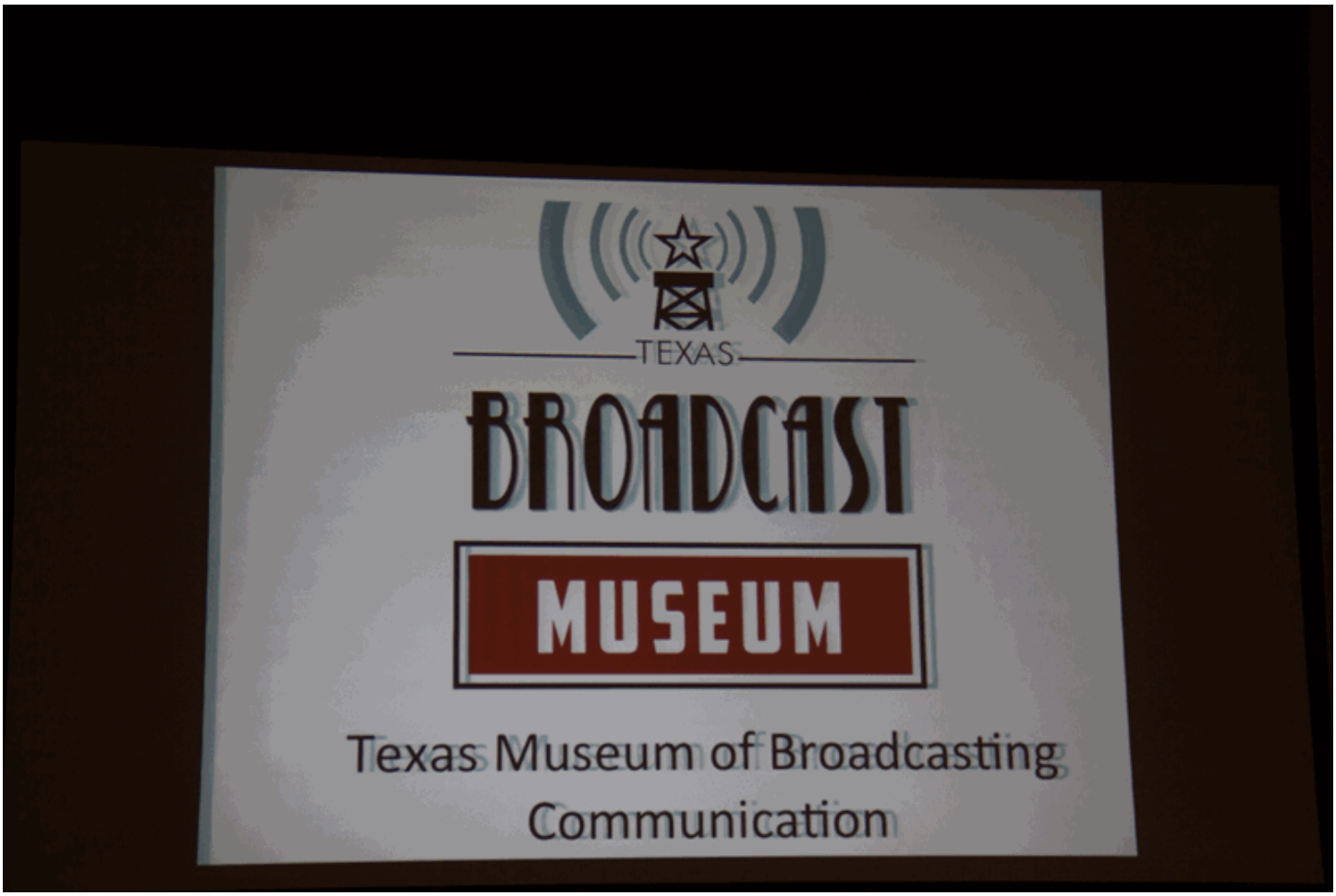
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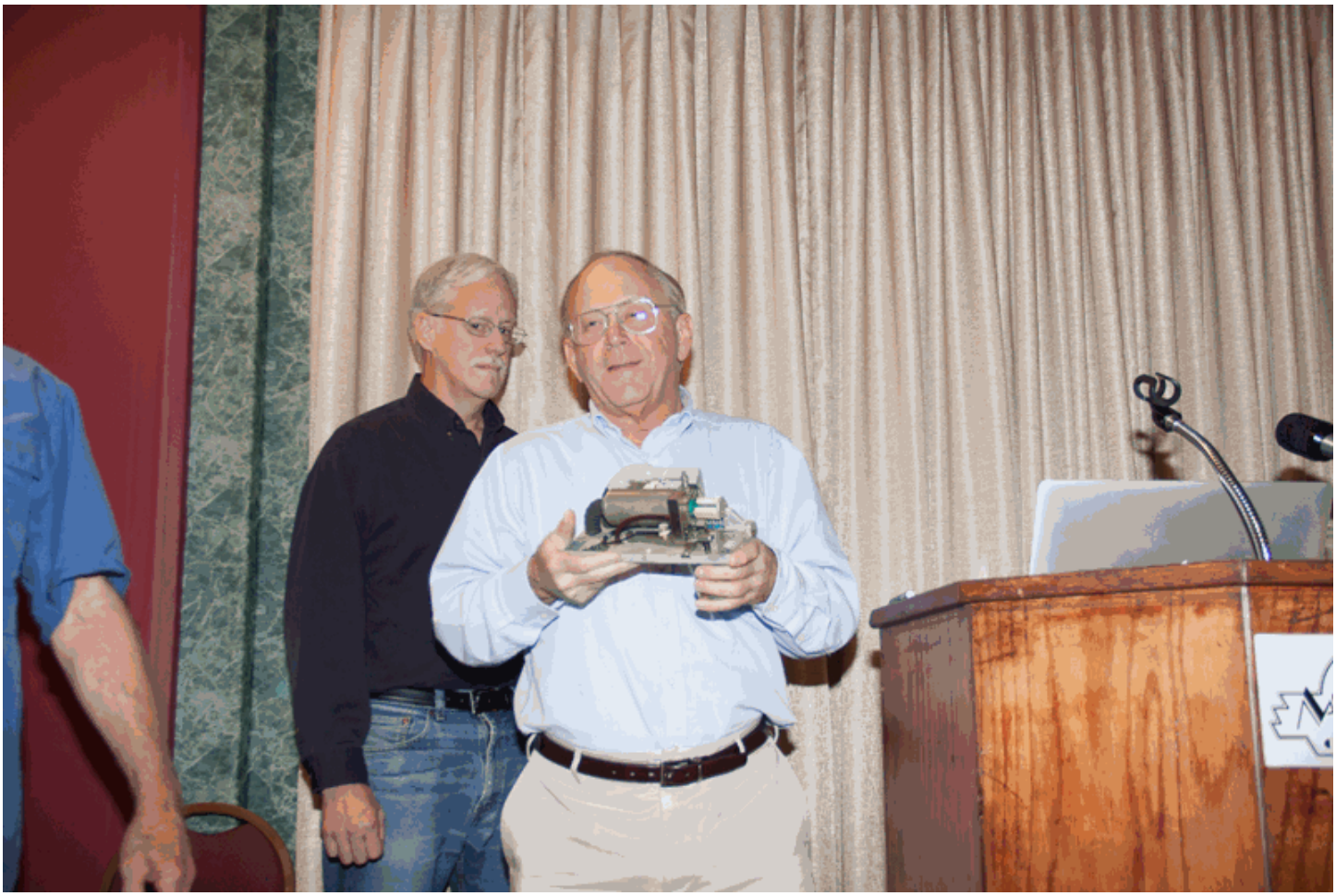
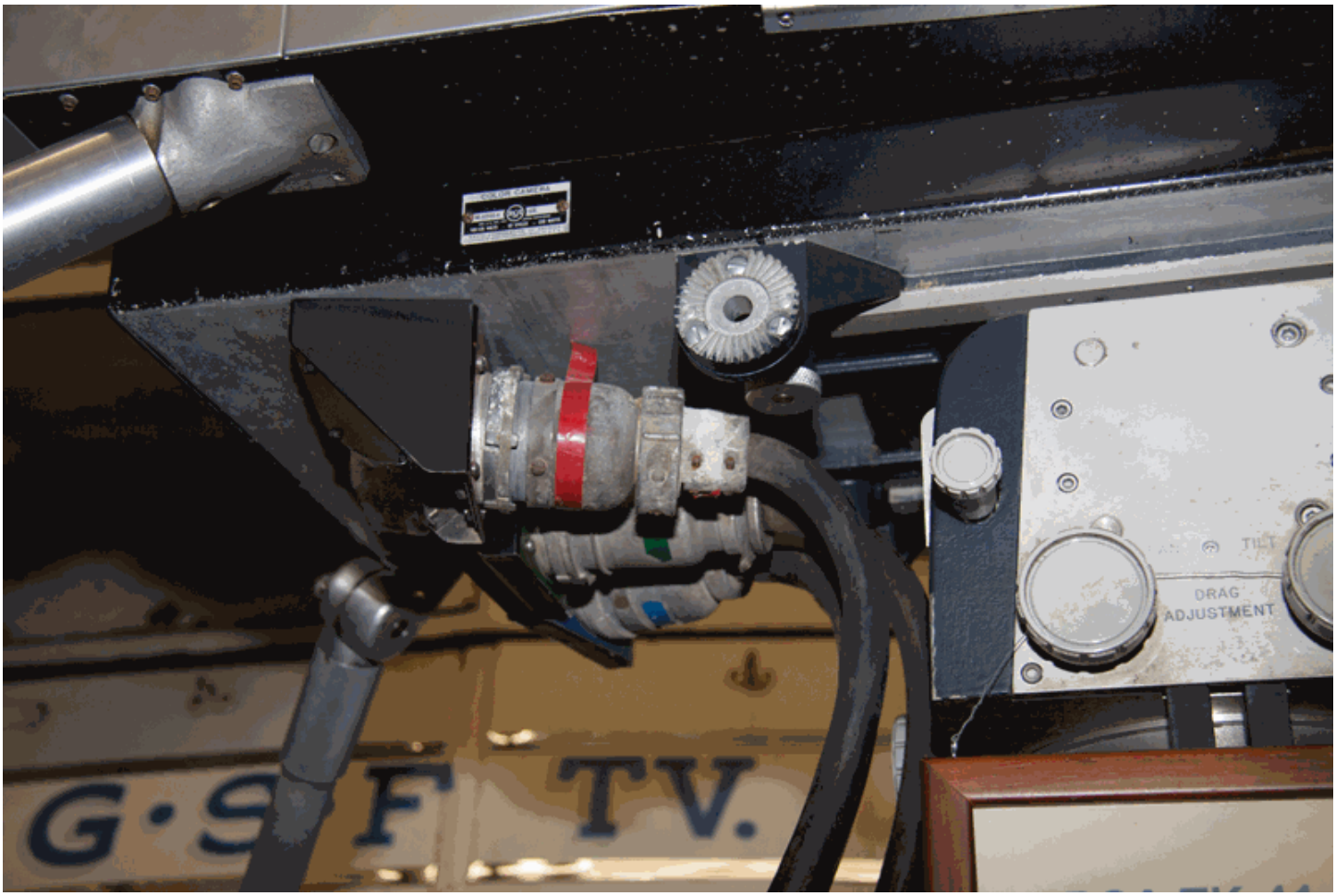


ETF's TK-41


TILT
DRAG
ADJUSTMENT
G·S F TV.

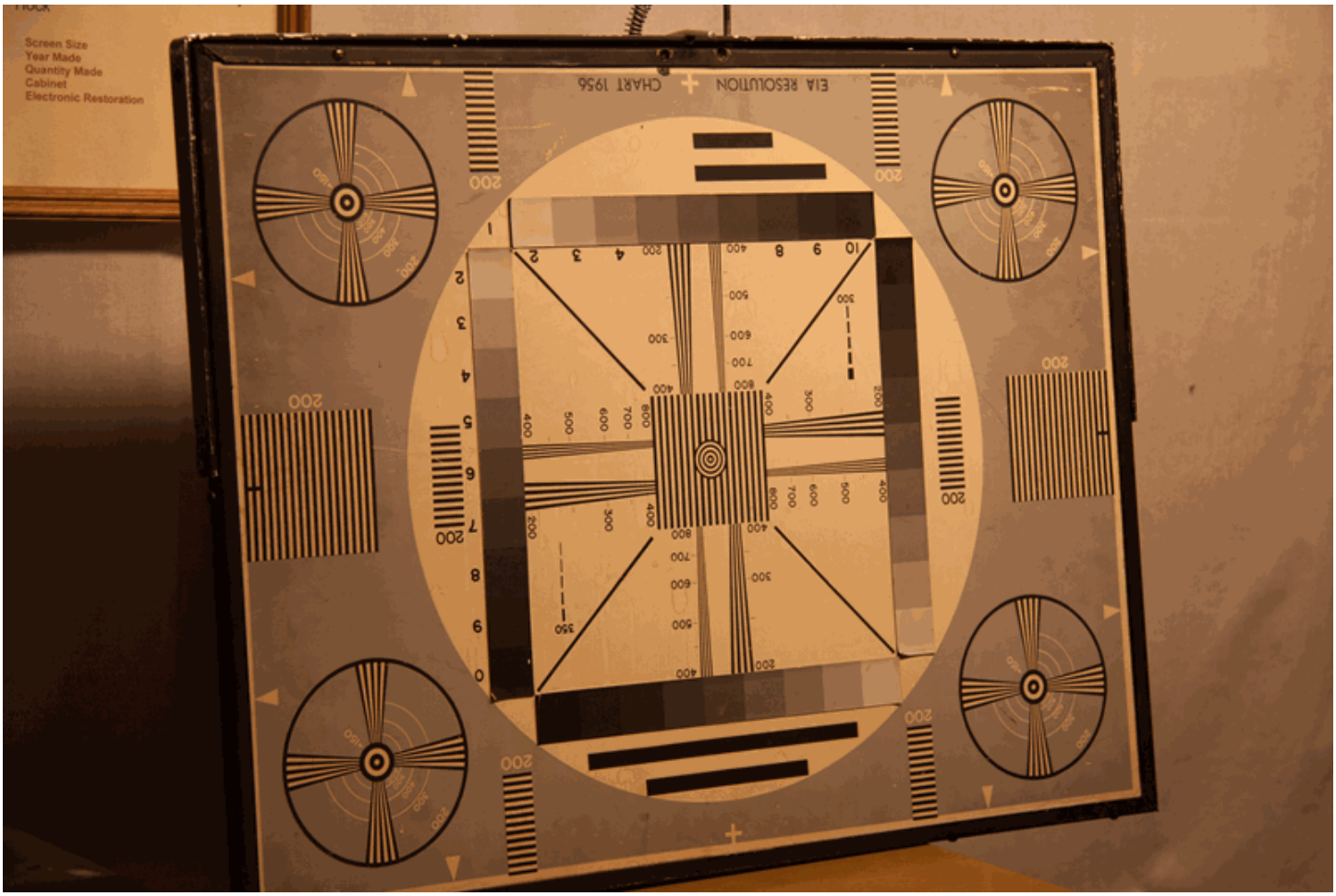

KINESCOPE
OSCILLOSCOPE
OFF ON
3AG 2A
TEST
OPR.
OSCILLOSCOPE
WIDTH
PEDESTAL
PANEL ILLUM
OSCILLOSCOPE
CAL 1
CAL 2
COUNT
PEDESTAL
GAIN
PEDESTAL
GAIN
PEDESTAL
GAIN
KINE CONT
PED
IRIS

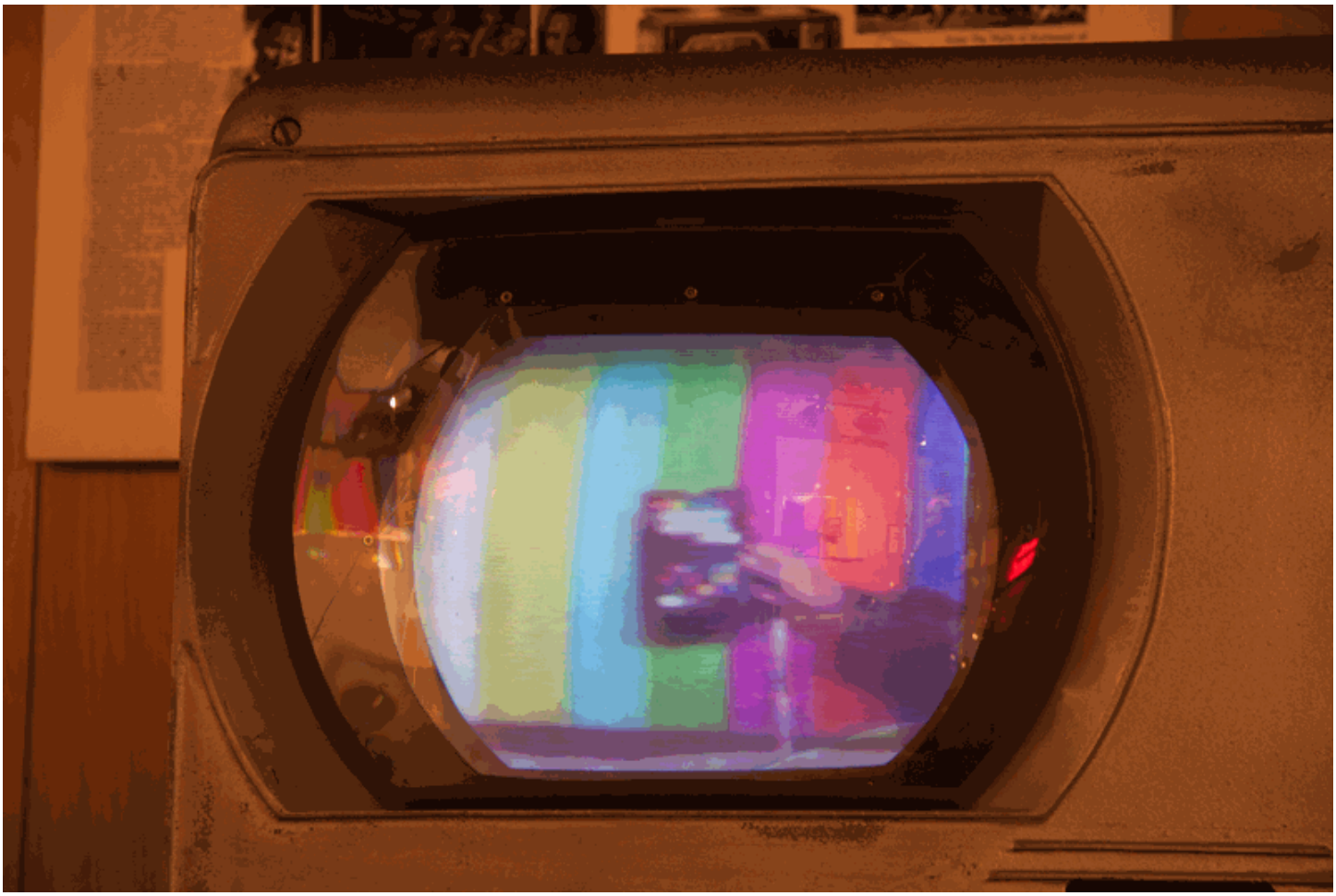

RCA TK-41A Support
Equipment

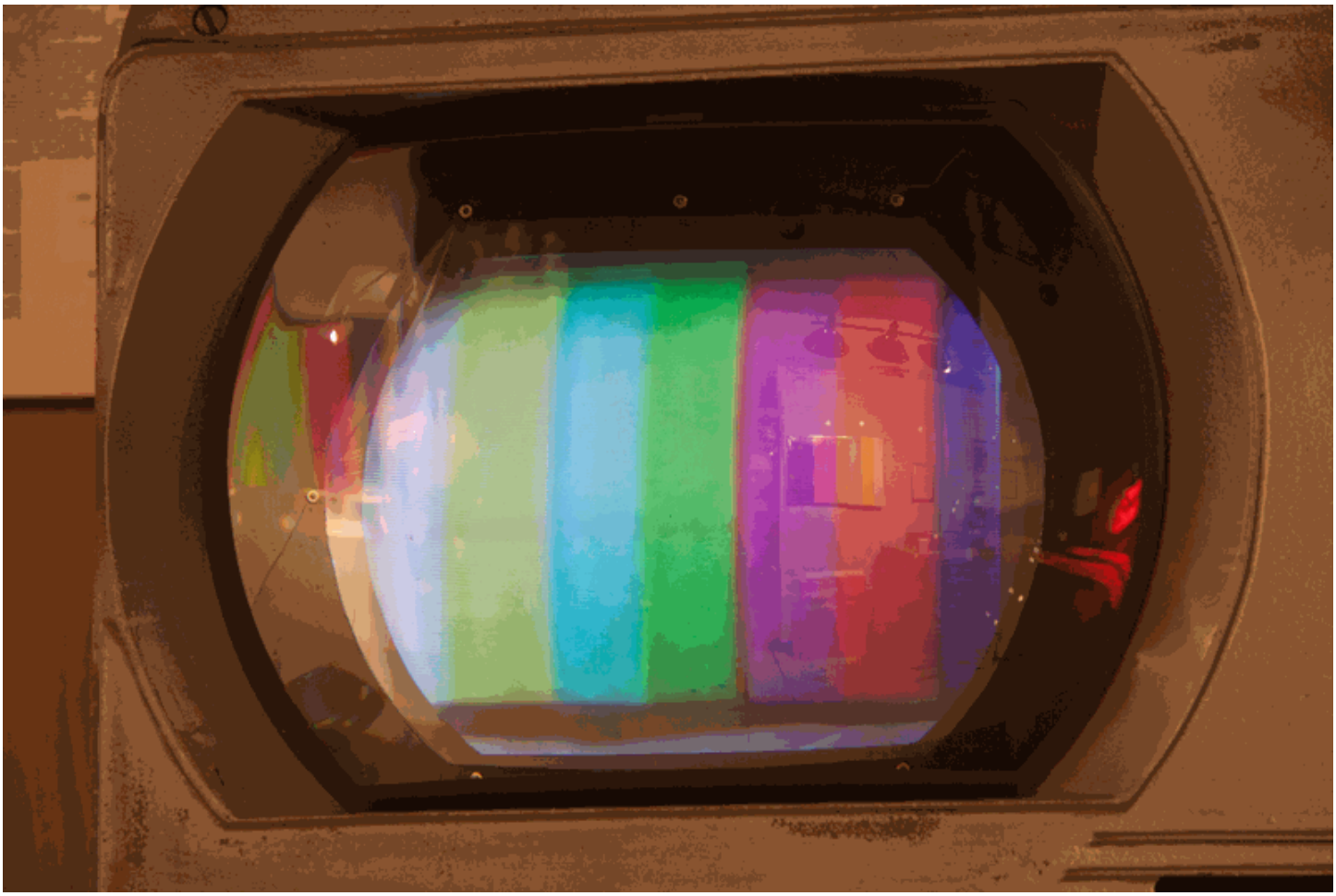
Iconoscope Camera


x-rite
COLORchecker
x-rite

Vericolor Camera


Screen Size
Year Made
Quantity Made
Cabinet
Electronic Restoration
EIA RESOLUTION CHART 1956






RCA VICTOR
COLOR
TV


WOLLENSAK
ENLARGING
RAPTAR

$19,985 COLOR VIDEO WITH WIRES SHOWN

Engineers See a System Made for Industry and Science, Not for Broadcasting

A new color television system, designed by DuMont for industrial and scientific use only on "closed circuits" such as wires or cables, and not for broadcasting to homes, was demonstrated yesterday at the annual convention of the Institute of Radio Engineers.

The system was developed by engineers of the Allen B. DuMont Laboratories of New Jersey. A cable band width three times as wide as the ordinary "radio television channel" is used to achieve "full definition of images in color." The device is designed for observation of dangerous scientific operations at a safe distance, close-ups of surgery in hospitals, factory production lines, store merchandising, education and various other fields.

Dr. Allen B. DuMont, president of the concern, described the system at the institute's annual radio show in Grand Central Palace. He said a band or cable width of eighteen megacycles (eighteen million cycles) was chosen to provide the highest possible definition of image and the utmost in color fidelity. An ordinary television channel on the air is six megacycles wide for both picture and sound, or about 4.5 megacycles for picture alone.

Routing of System

At the DuMont booth in the Palace it was explained again and again that the system was not "air" television but "wired" video. A demonstrator said it could be routed wherever the cables were installed and with any number of monitoring screens attached, so that almost any number of persons might see what was picked up by the electric eye.

The resultant image has the standard 525 lines required of ordinary "air" television broadcasts, producing a color image "fully as good as the best in black and white," it was declared.

Each color in the original was "scanned" in sequence, the method used in the home video sets designed by the Columbia Broadcasting System.

At yesterday's demonstration slight variations in the original versus the received color were noted, but DuMont engineers laid the difference to a temporary power supply within the Palace, which "prevented maximum color fidelity." The cost of the color system for "one camera chain" from pick-up eye to monitoring scope was put at $19,985.

New York Times, March 7 1950

Courtesy of Phil Dudley

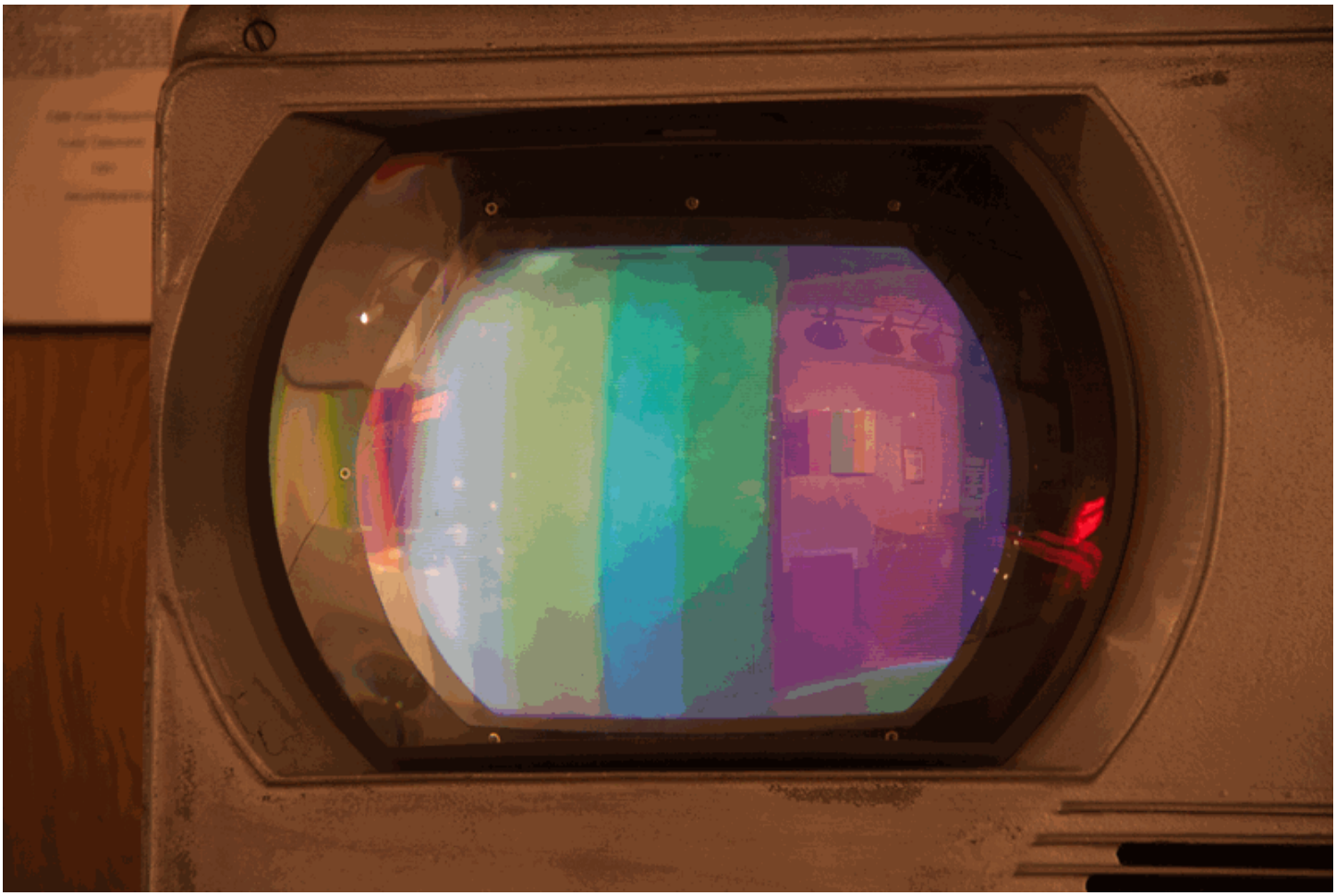

FIRST TIME at DAYTON
Full Color Television
Vericolor
Vericolor Industrial
TV Camera

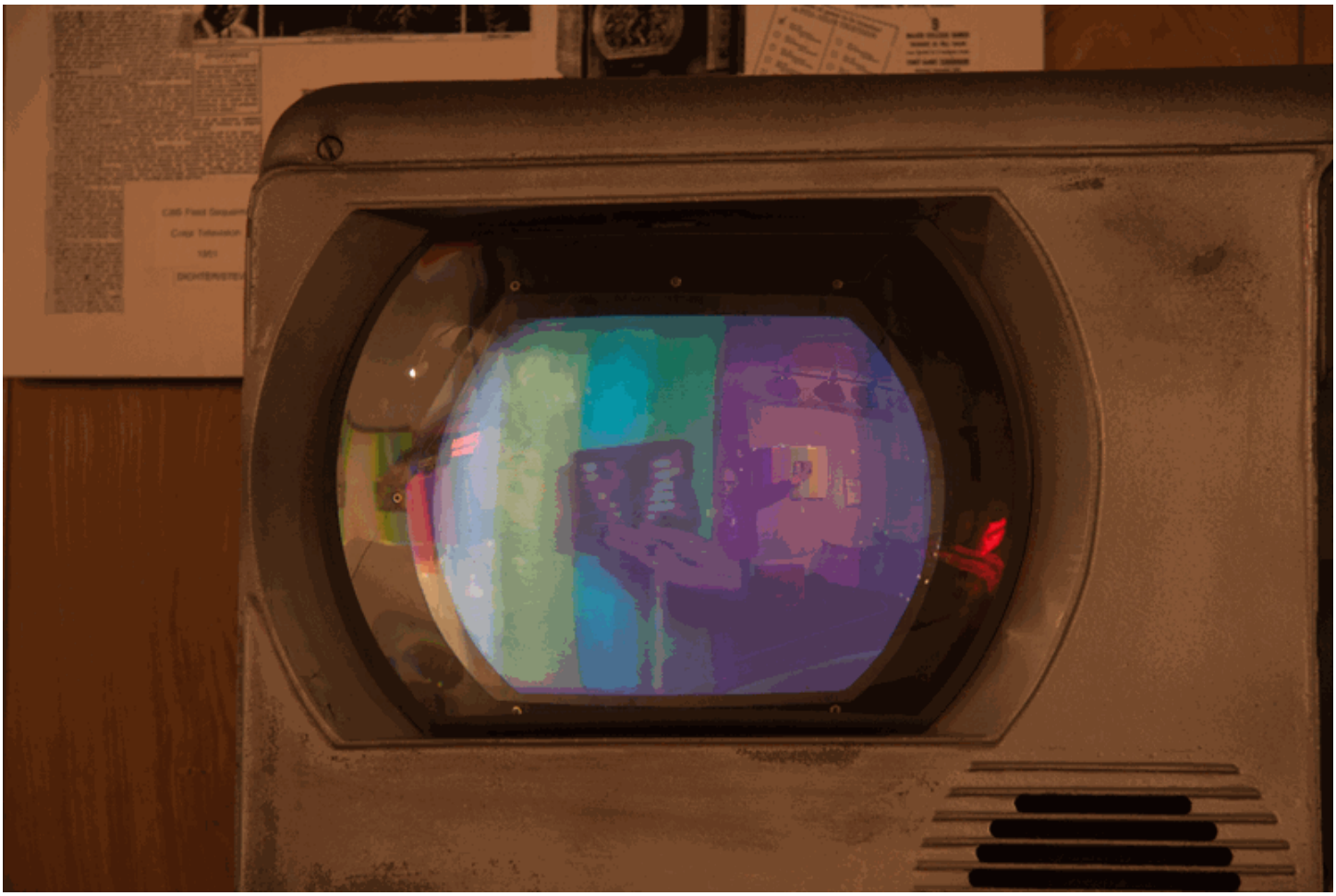

VIDEO
PEDESTAL
RED
BLUE
GREEN


Vericolor Industrial
TV Camera
CBS designed this camera in 1950-51 for its field sequential color system. It was manufactured by Reminington-Rand.
It uses a RCA 5820 Image Orthicon camera tube with a rotating drum containing color filters.
The camera has been restored to working condition, using a combination of vacuum tube circuits and modern solid state designs.


Vericolor
CBS


FIRST TIME at DWIGA
Full Color Television
Vericolor
Vericolor Industrial
TV Camera

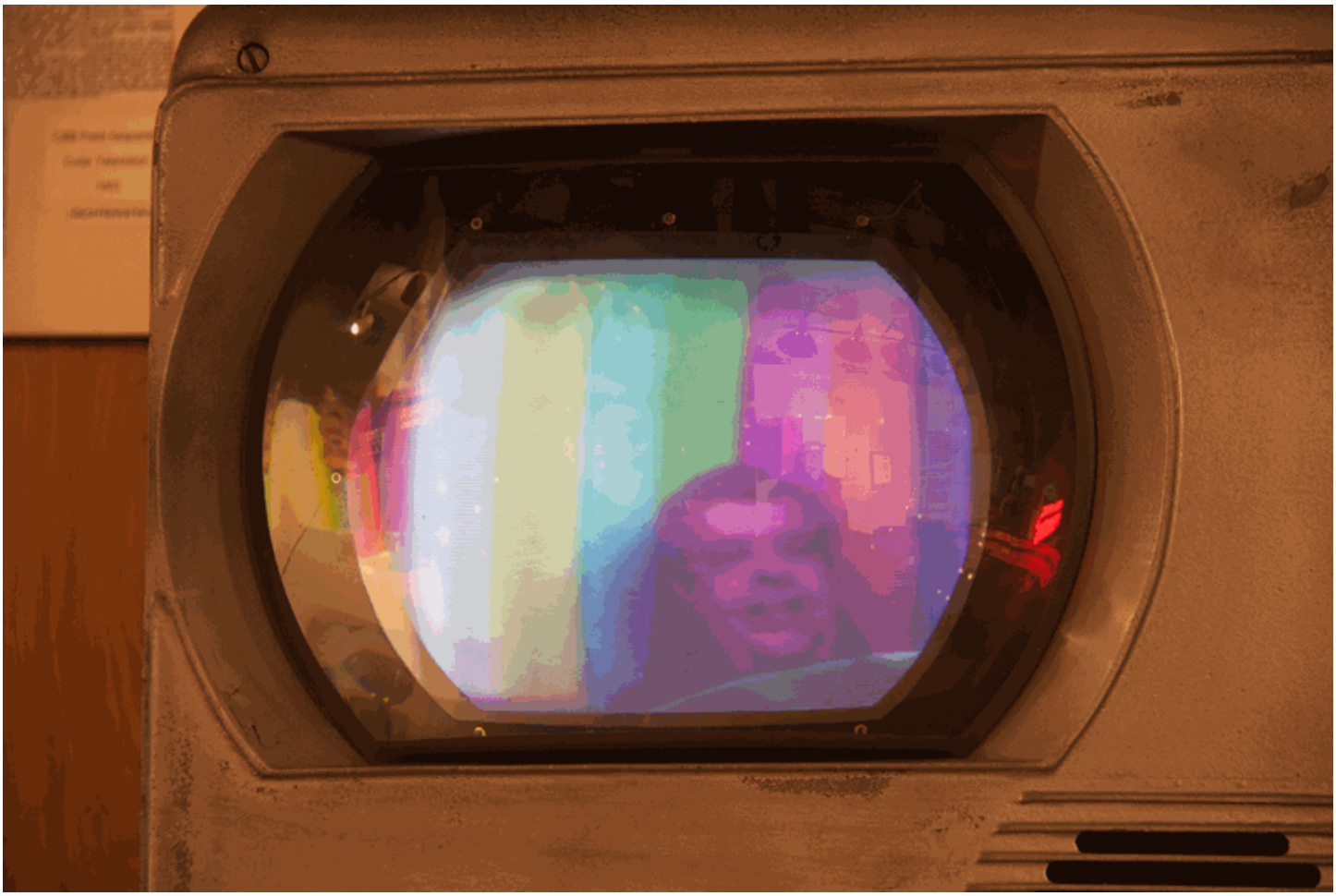


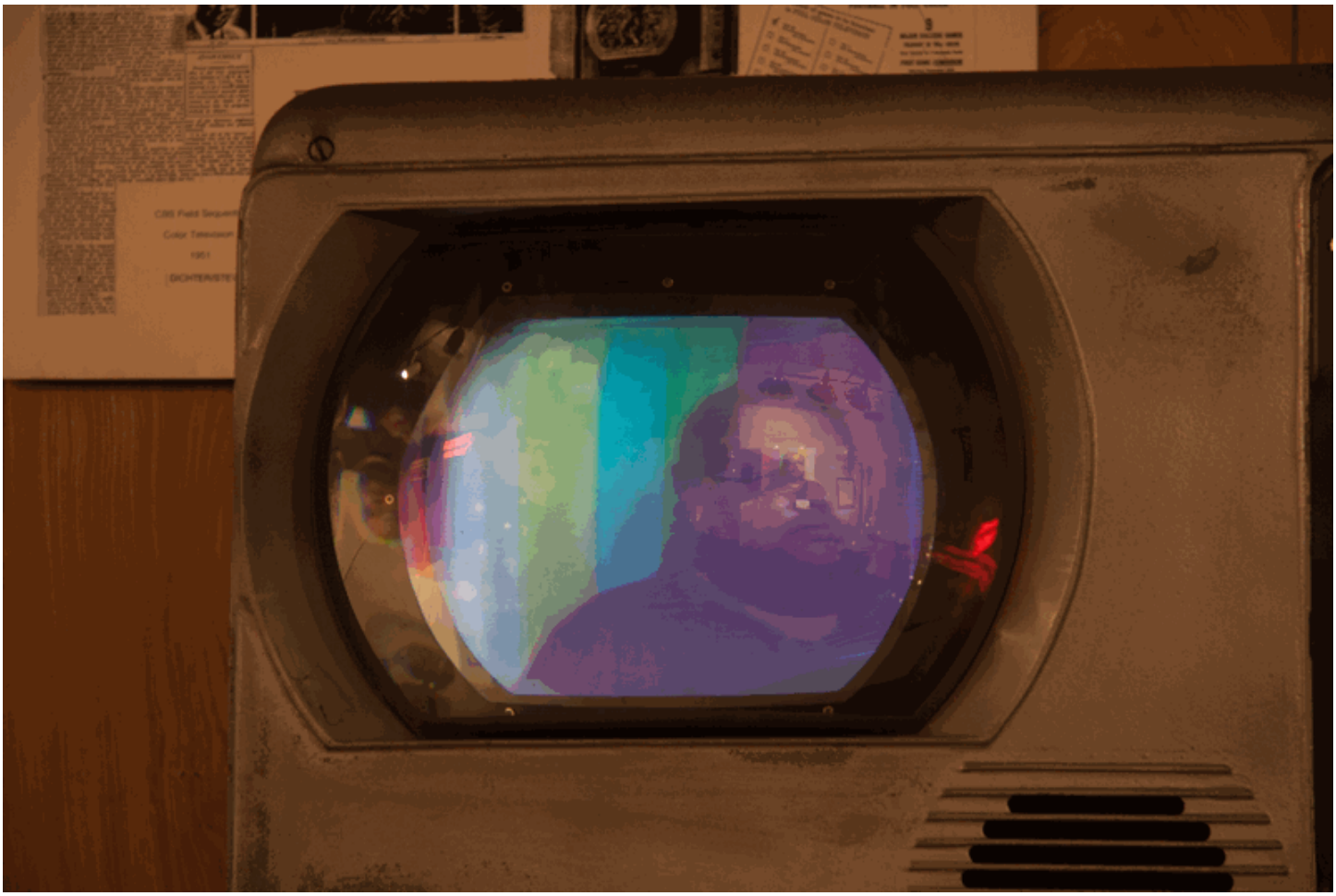



Television
Industrial
TV Camera

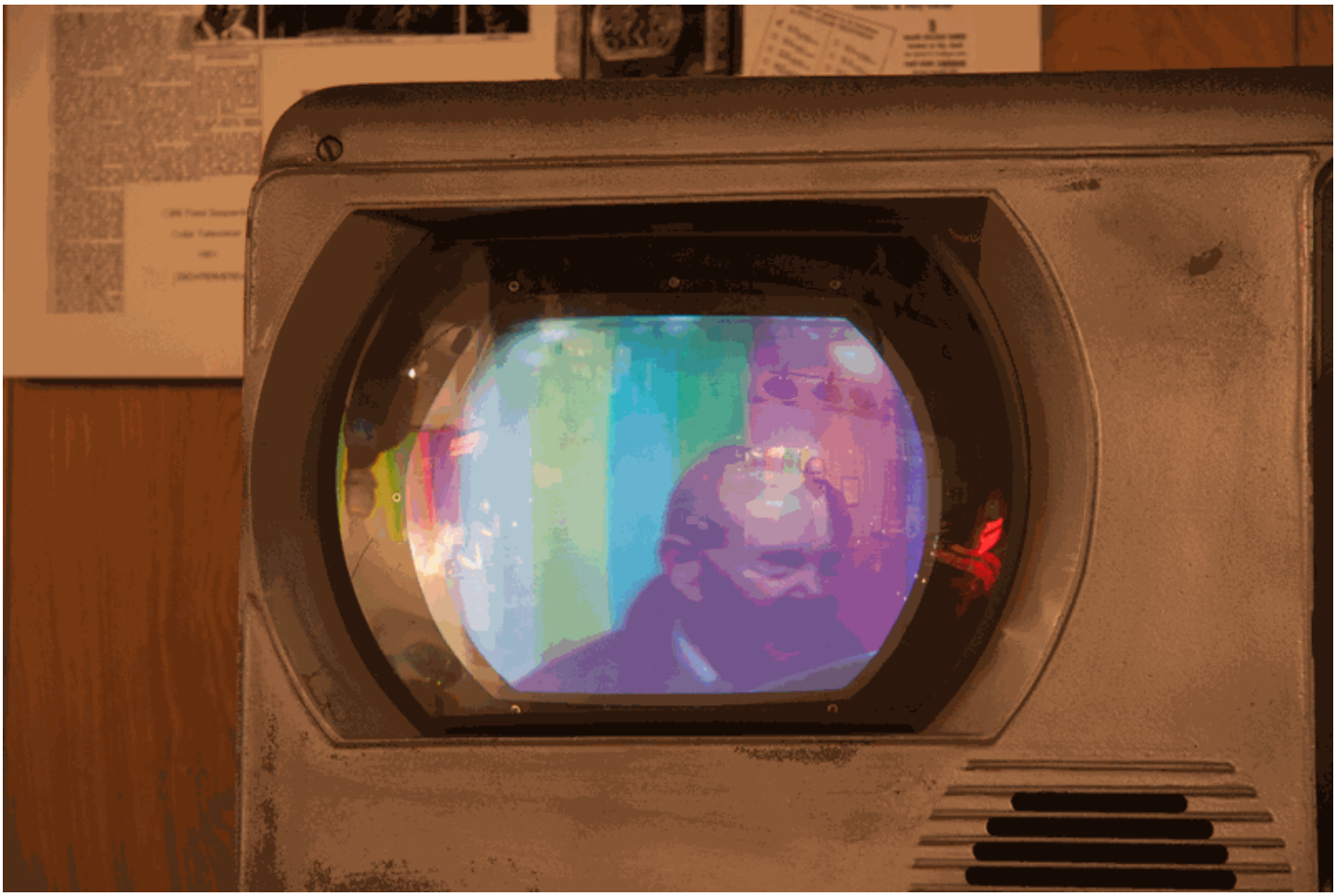

Television

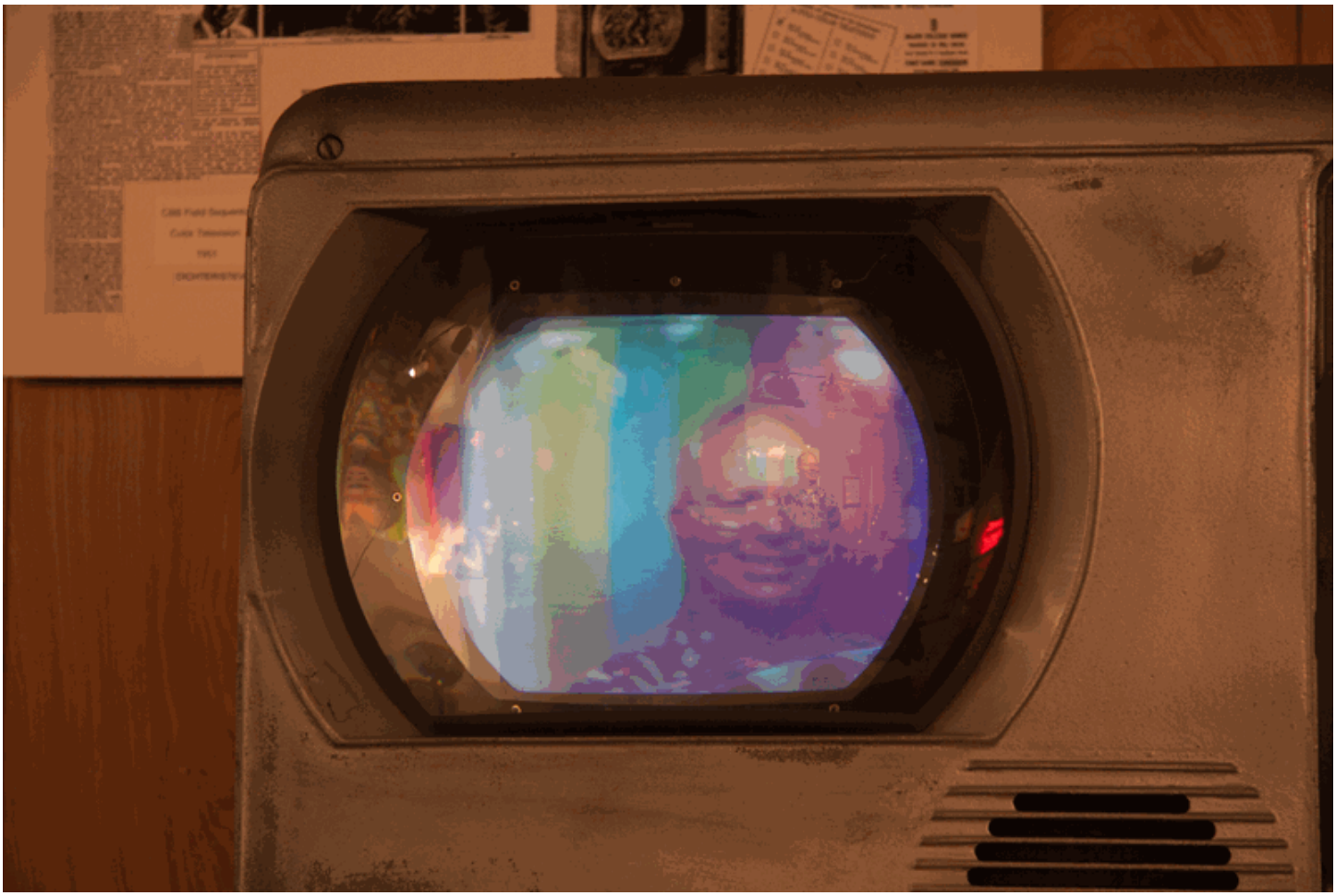
Vericolor Portraits

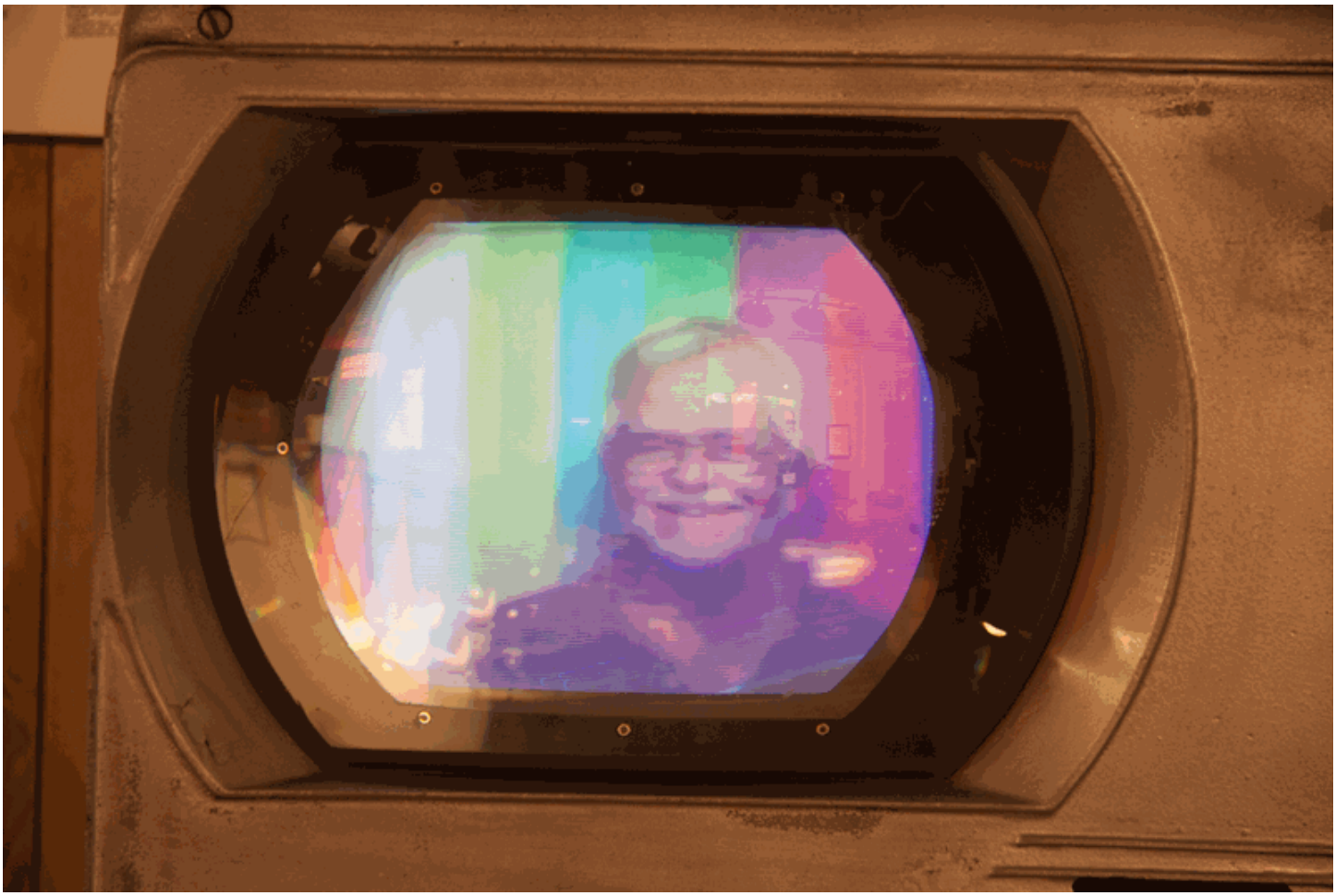


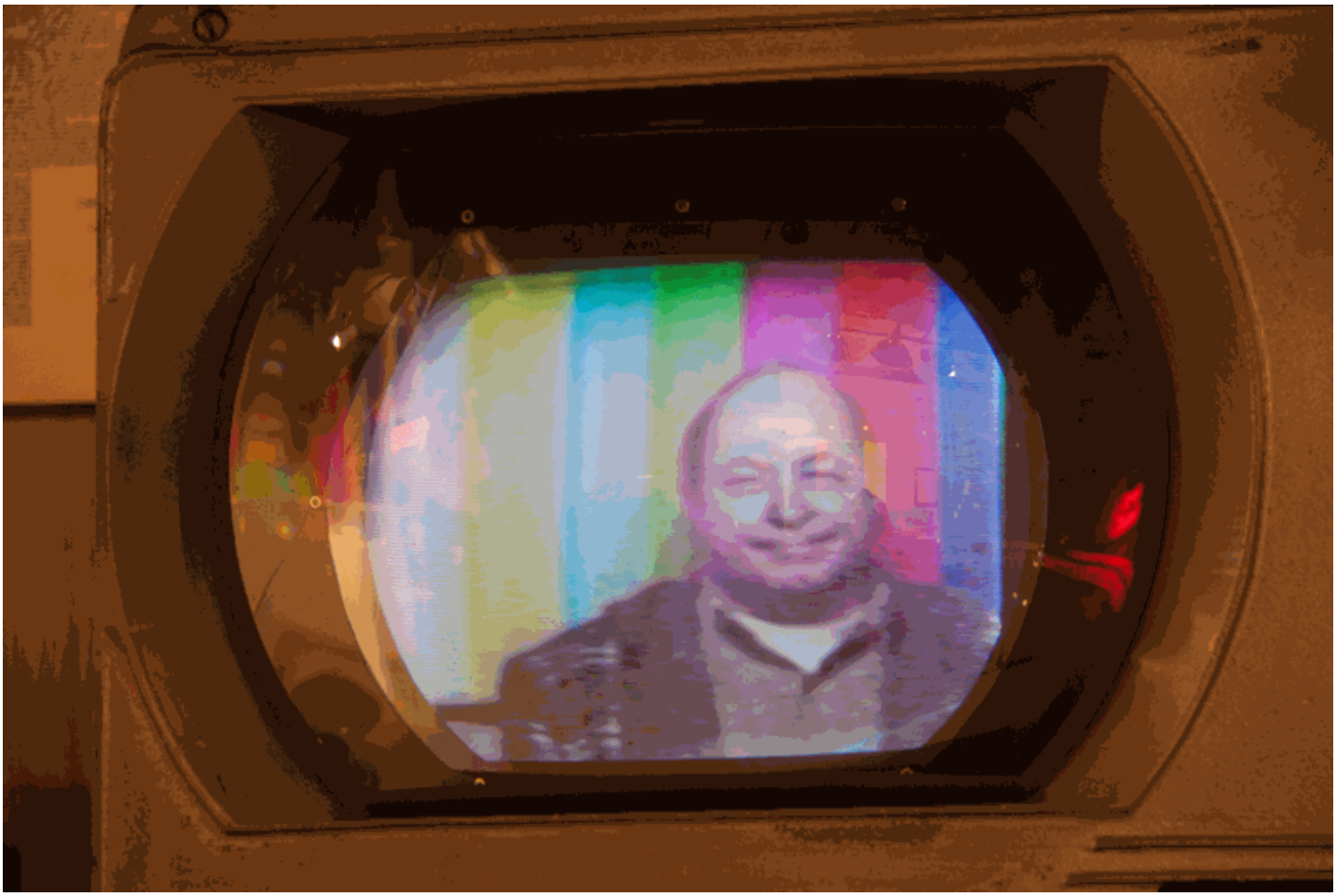



CBS Field Sequentia
Color Television
1951

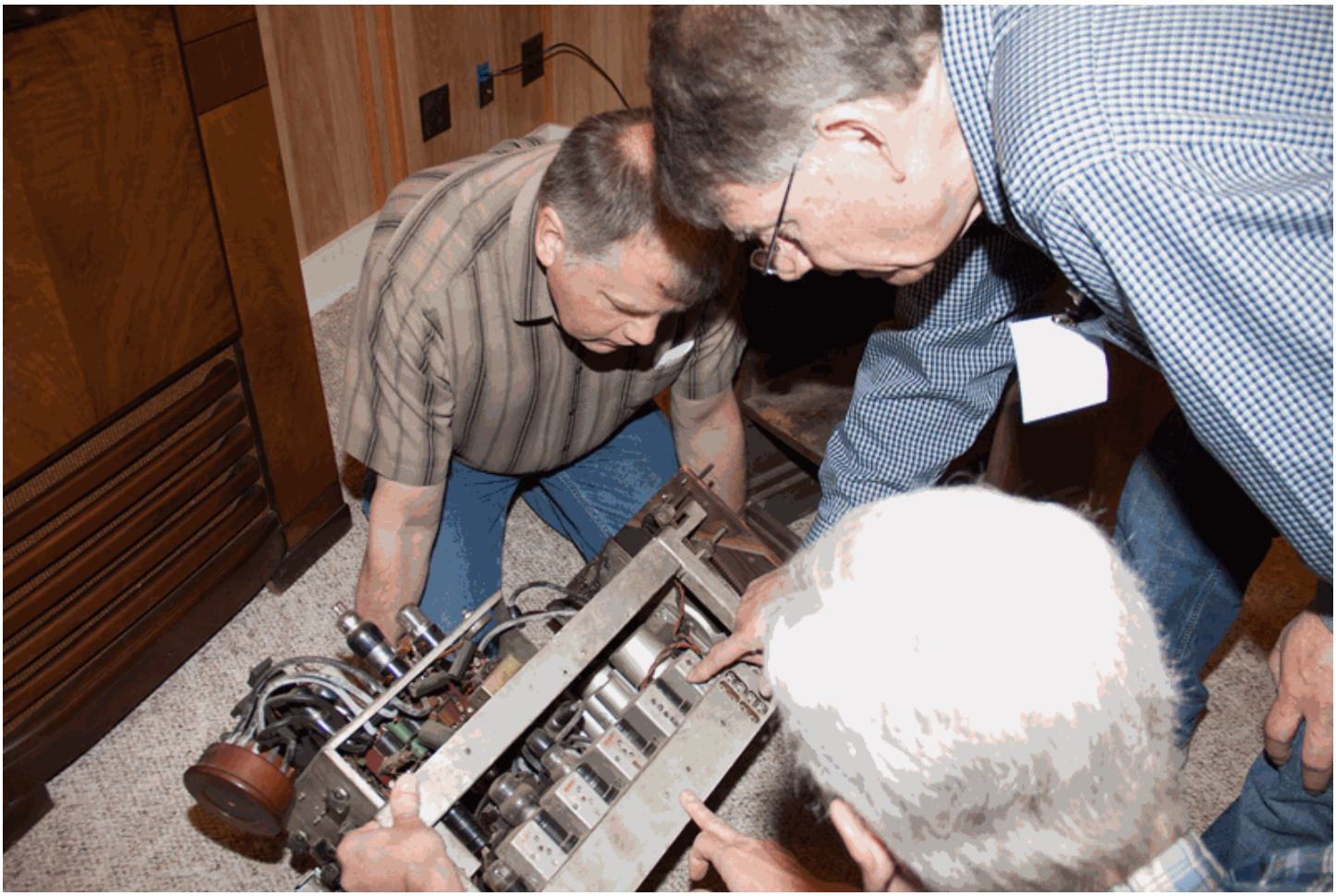




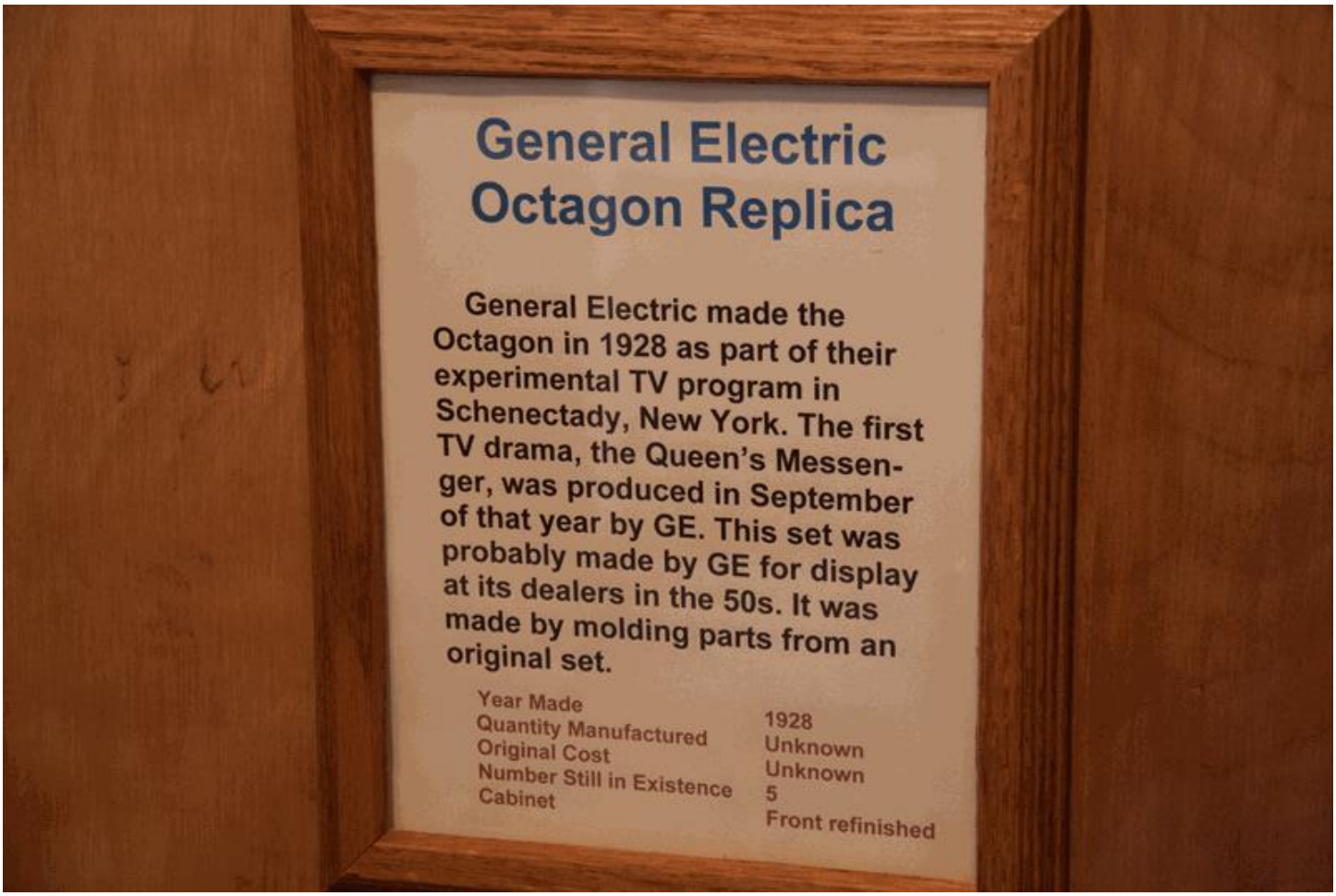




Miscellaneous




General Electric
Octagon Replica

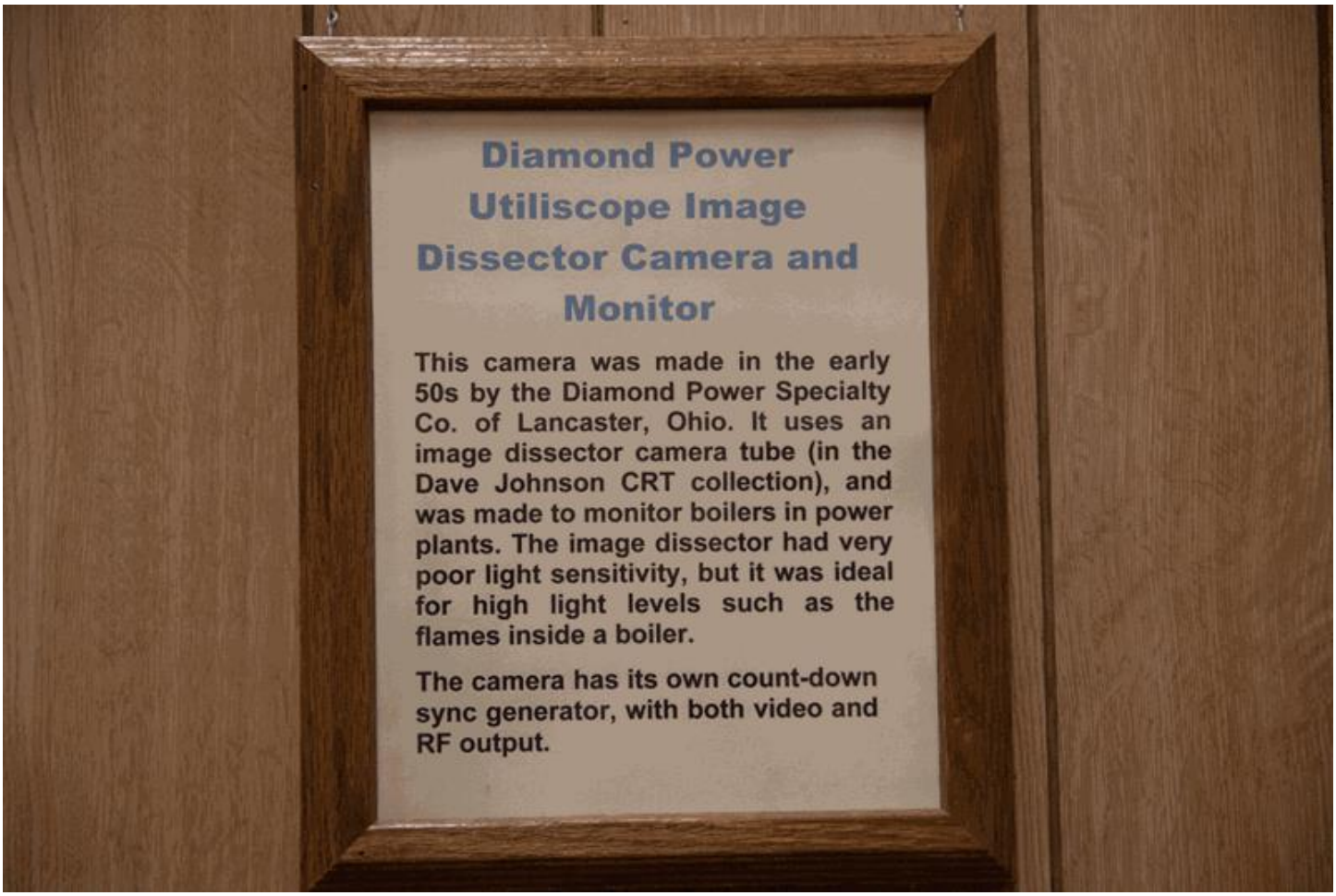

General Electric
Octagon Replica
General Electric made the Octagon in 1928 as part of their experimental TV program in Schenectady, New York. The first TV drama, the Queen's Messenger, was produced in September of that year by GE. This set was probably made by GE for display at its dealers in the 50s. It was made by molding parts from an original set.
Year Made 1928
Quantity Manufactured Unknown
Original Cost Unknown
Number Still in Existence 5
Cabinet Front refinished

A MERRY CHRISTMAS AND HAPPY HOURS THROUGHOUT THE YEAR WITH G-E TELEVISION


RCA
GLASS


Giant View
Projector
Giant TV View


Television
CONTRAST
FOCUS
BRILLIANCE
Videotape Splicer
This device was used to splice 2" videotape for editing. The magnifying tube was used to inspect the splice.


Diamond Power Utiliscope Image Dissector Camera and Monitor
This camera was made in the early 50s by the Diamond Power Specialty Co. of Lancaster, Ohio. It uses an image dissector camera tube (in the Dave Johnson CRT collection), and was made to monitor boilers in power plants. The image dissector had very poor light sensitivity, but it was ideal for high light levels such as the flames inside a boiler.
The camera has its own count-down sync generator, with both video and RF output.

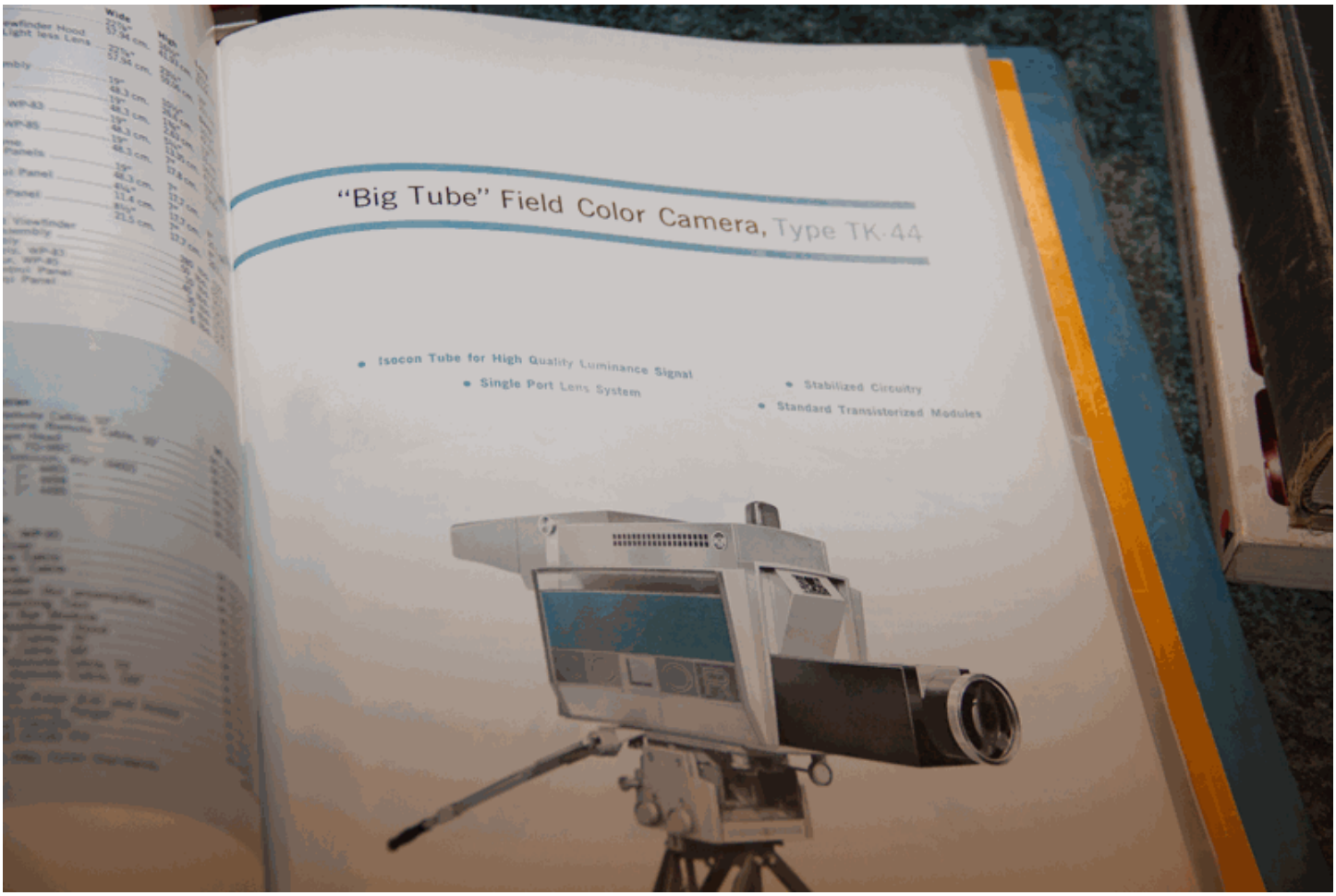

This camera tube was developed in 1939 for use in RCA's field television cameras, such as the one we have on display in the Prewar American room.
Image Dissector
This image dissector was made by Diamond Power to use in the boiler of a power plant. The camera it was used in is on display in our broadcast equipment room.
2013 Monotron
This monoscope was made in early 1938. It has an image which appears to be an advertisement for Saturday Night Serenade with Mary Eastman. This was a radio show in the late 1930s and early 1940s and may have also been a


#132 VR 3
DES FARNSWORTH
IMAGE DIVECTOR
FROM
Farnsworth
TELEVISION & RADIO CORPORATION
FORT WAYNE, INDIANA
This tube uses inventions of United States patents owned by Farnsworth Television & Radio Corporation. The sale of this tube does not convey any license under patent claims on other devices or elements or on combinations of the tube with other devices or elements.
TYPE - ?


RADIOTRON
RCA
ELECTRON TUBE
5820
RADIO CORPORATION OF AMERICA
RADIOTRON
RCA
ELECTRON TUBE
5820
RADIO CORPORATION OF AMERICA
Farnsworth
1850
Iconoscope


SPARTON


Sparton 16A211
This is Sparton's first production color set, made in 1954. A prototype version was made in 1953, using a 16 inch experimental CRT. A very small quantity of this set were made, using the 15GP22 CRT.
15GP22 Rebuilt by RACS
Most of the surviving 15GP22 picture tubes have leaked air, and are not usable. For years it has been the hope of TV collectors that the tube could be rebuilt. A three year effort by John Folsom, Bob Galanter, and Hawkeye Picture Tube Co. produced one successful tube, which later leaked. RACS, a French company, rebuilt this tube using frit glass to seal the glass-metal junction that leaked.
We are testing this tube to see if continues to hold a vacuum.


"Big Tube" Field Color Camera, Type TK-44
Isocon Tube for High Quality Luminance Signal
Single Port Lens System
Stabilized Circuitry
Standard Transistorized Modules


MAAA IV
VIPEX
D VTR
ATION
ELECTRONIC EDITOR


SYLVANIA
Admiral
Car Repair
Services


Tubes $1
(Put Money in Jar)
460KB 22
CRT 17"
WEAK


Old English


1953 Lane & Company
Panther TV Lamp


RCA 8-T-241
RCA


RCA
RCA
APPROVED BY UNDERWRITERS' LABORA


RCA VICT
TELEVISI
Complete
The Ne


RCA VICTOR
TELEVISION OWNER POLICY
TYPE 204x1
RCA
RCA


Simpson 406
Chromatic
Amplifier
Used to amplify video and chroma signals for low sensitivity oscilloscopes.
(Donated by Bill Walter, restored by Joe Sousa)
Simpson
CHROMATIC AMPLIFIER
MODEL 406
INPUT
OUTPUT
OFF
ON
MADE IN U.S.A. BY SIMPSON ELECTRIC CO
CHICAGO ILL


Excel Toy TV Movie Projector
This toy was made in the 50s. It was manufactured by Excel Movie Products Corp. in Elgin, Illinois and uses 8mm film.
EXCEL
SYLVANIA


RCA TK-27 Telecine
Camera
This camera was
introduced in 1965 for
use in film chains. It
uses three vidicon
camera tubes. It is all
transistorized.


American Radio Institute


RCA TP-16
Film Chain
Projector
RCA TK-20
Iconoscope
Film Chain


Dage Industrial Cameras
These cameras were made in the early 1950s. They use the vidicon camera tube, which is much smaller and cheaper than the Image Orthicon.
The pictures produced by these cameras were not broadcast quality – the cameras were used for industrial applications.


40
30
50
B-T
60
20
ULTRAVERTER
70


BOGEN TELEVISION BOOSTER
OFF
CHANNEL


Regency
CASCADE BOOSTER
Regency
SIGNAL
BOOSTER


Astatic Booster
In the late 40s there were no TV stations in many parts of the country. Boosters were used to pull in distant stations. Donated by Sean Barton.
GAIN
CHANNELS
Astatic
TUNING
TUNING


14 18 24 32 44 56 70 82
Electro-Voice
UHF CONVERTER


RCA 721TC5


RCA RR-359
RCA made a few of these sets in 1936-37 for field trials of 343 line electronic television. This model has a 3 inch screen, and is one of only two to survive. About 100 of the later RR-3500 12 inch models were made.
RCA never sold the sets to the public. They were placed in locations around New York to test TV reception.
Early American Electronic Sets 1938-1944

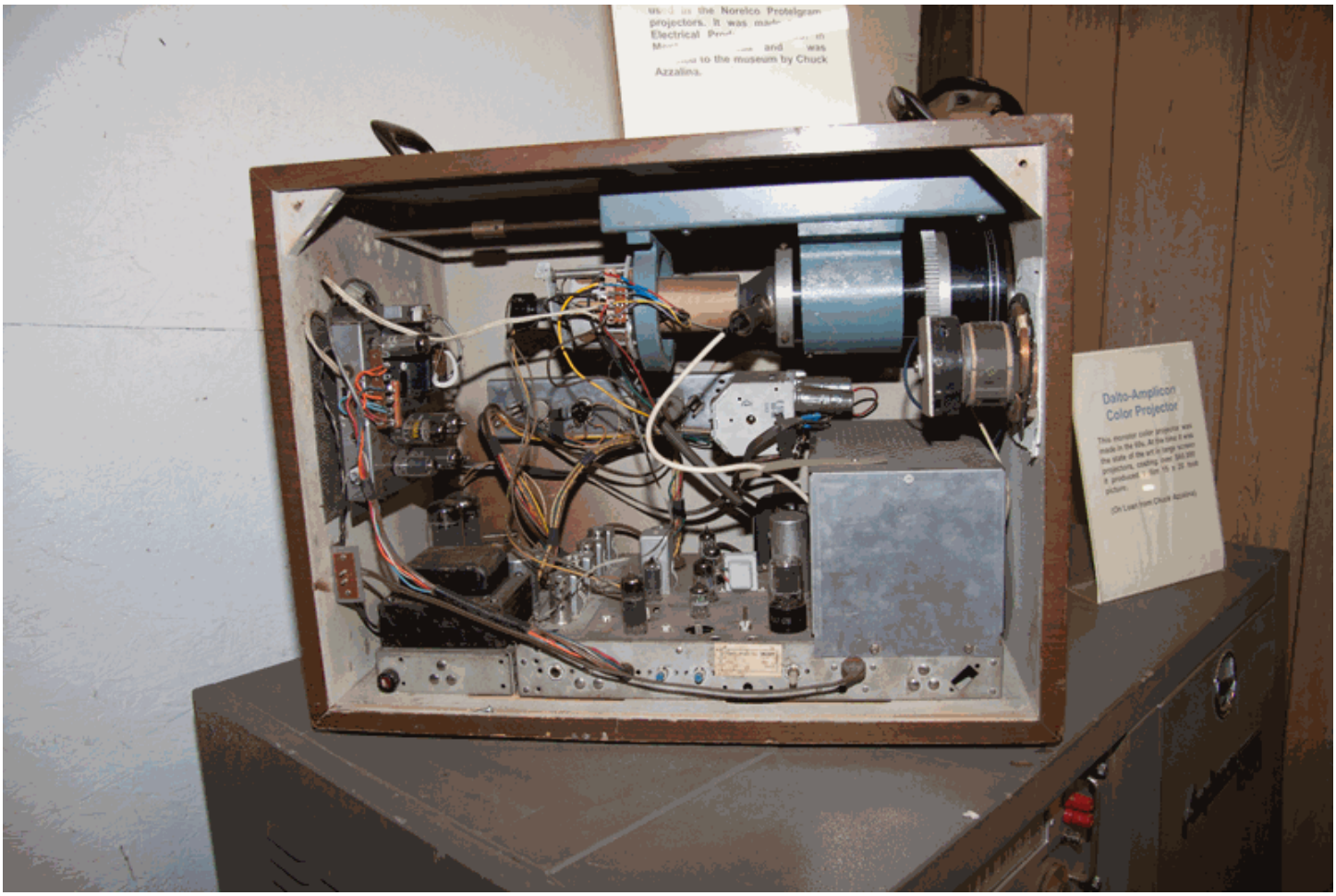

the GOLDEN
ANNIVERSARY of
TELEVISION
1939·1989
RCA


TELEVISION
RCA NBC
TELEVISION
NEW YORK
WORLD'S FAIR
1939
RCA 1939
Iconoscope Camera


CHEFS


Color Television
1


Telecaster
NBC

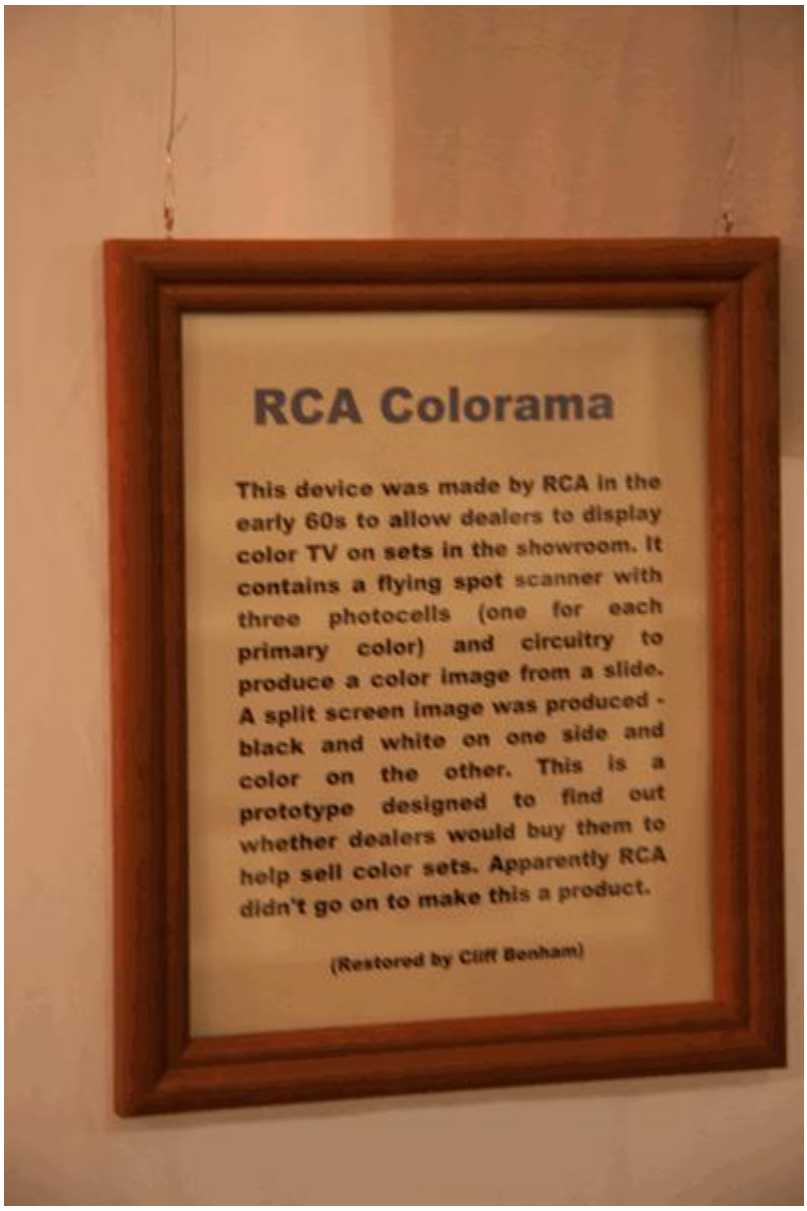

projectors. It was
Electrical
and was
to the museum by Chuck
Azzalina.
Dalto-Amplicon
Color Projector


Electrical Products
Mfg. Projection Set
This projection set was probably built around 1950. It uses a 3NP4 CRT with a lens. This CRT is also used in the Norelco Protelgram projectors. It was made by the Electrical Products Mfg. Co. in Montreal, Canada and was donated to the museum by Chuck Azzalina.
Color Projector
This monitor color projector was made in the 60s. At the time it was the state of the art in large screen projectors, costing over $60,000. It produced a dim 15 x 20 foot picture.
(On Loan from Chuck Azzalina)


WGSF 31
TELEVISION
NEWARK
NEC COLOR


20BP4
15GP22
19VP22
30BP4
Cameras and
Broadcast
Equipment


NTSC Drum
Receiver


RCA Colorama
This device was made by RCA in the early 60s to allow dealers to display color TV on sets in the showroom. It contains a flying spot scanner with three photocells (one for each primary color) and circuitry to produce a color image from a slide. A split screen image was produced - black and white on one side and color on the other. This is a prototype designed to find out whether dealers would buy them to help sell color sets. Apparently RCA didn't go on to make this a product.
(Restored by Cliff Benham)

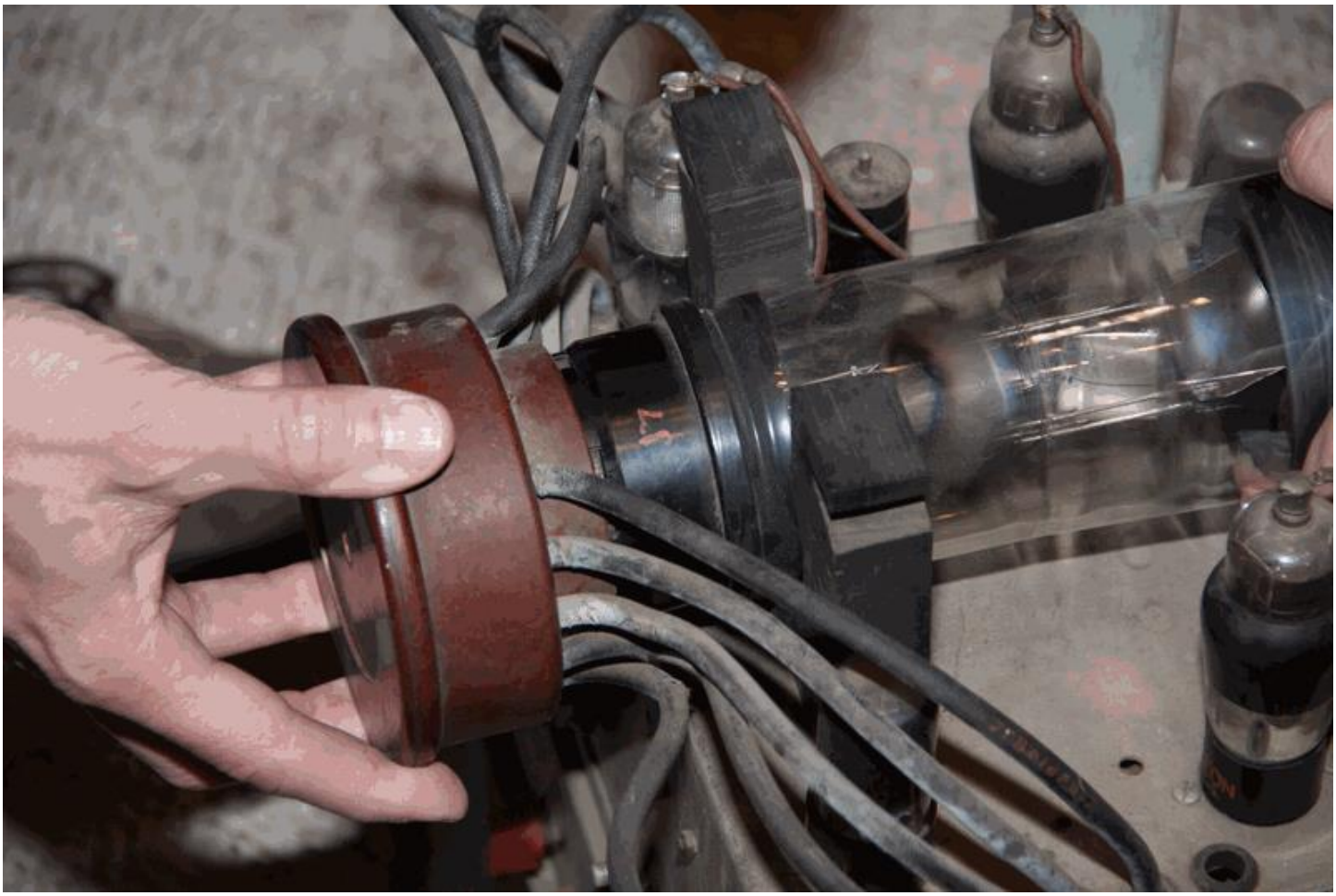

CBS Color
Personal Viewer


Crosley Color
Converter


Best Wishes
Betty Furness
WESTINGHOUSE
A
B


Westinghouse
WNT-753
TELEVIS
ELECTRICA
EDDIE CA
COLISEUM

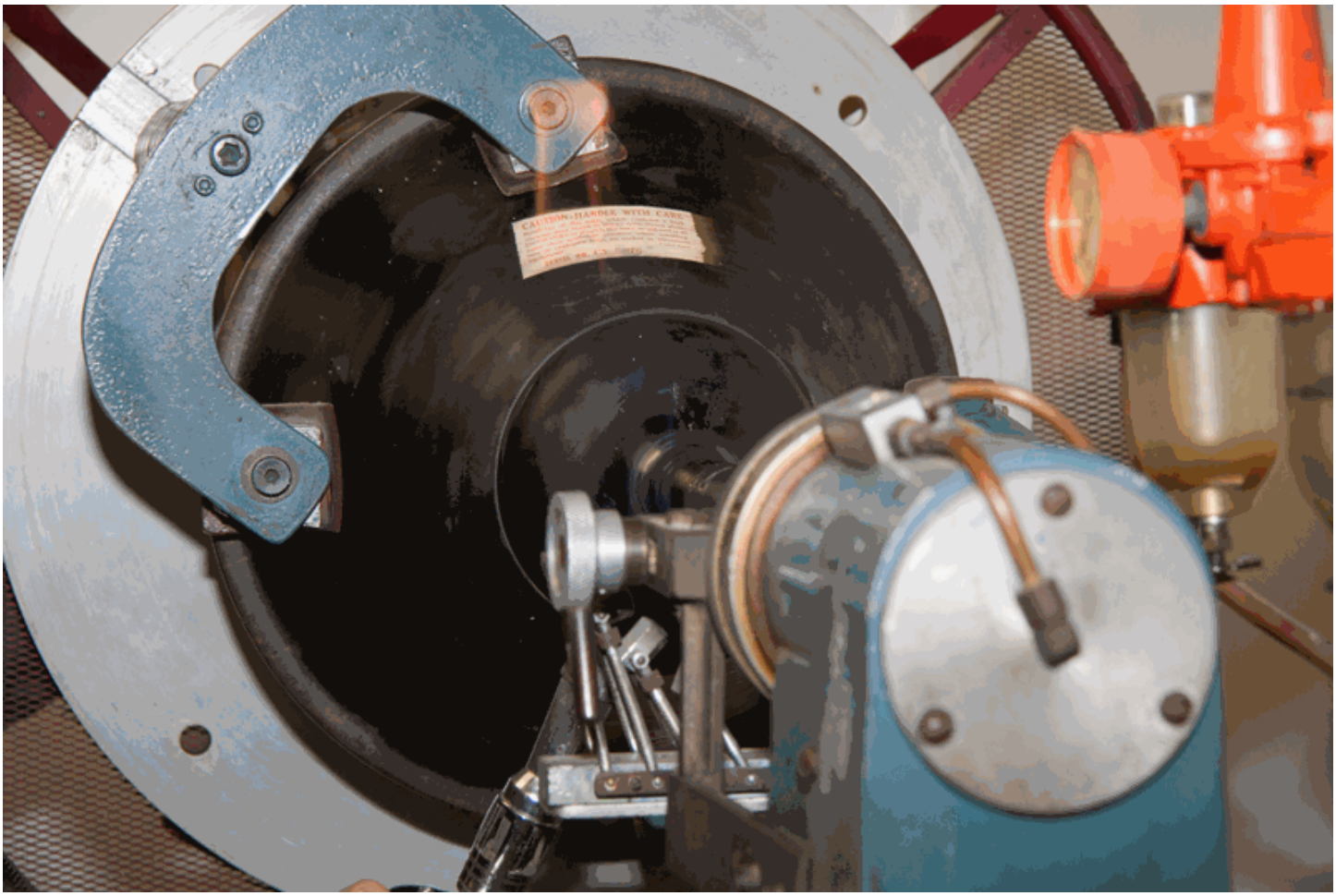

COLISEUM • OCT. 1-9

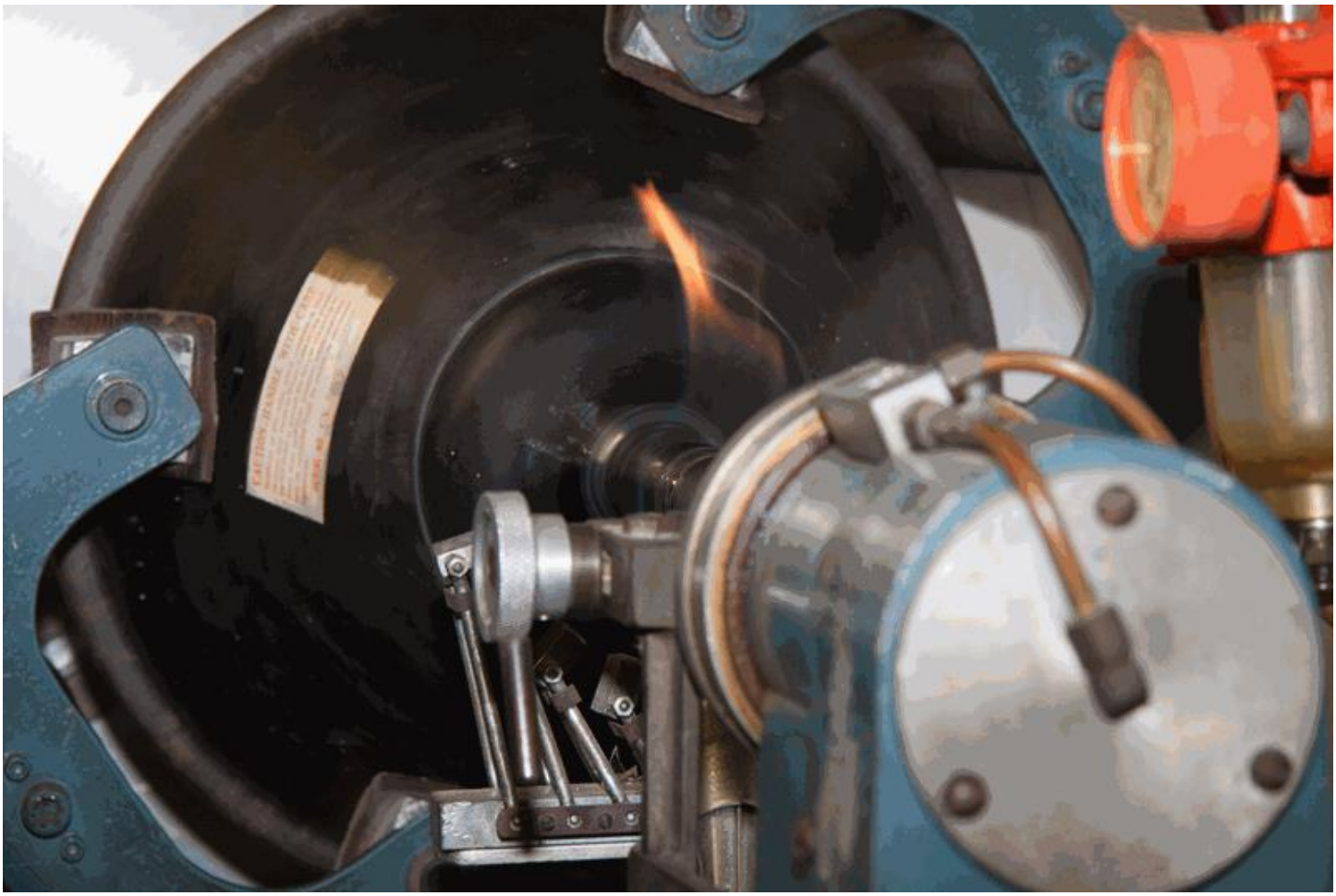


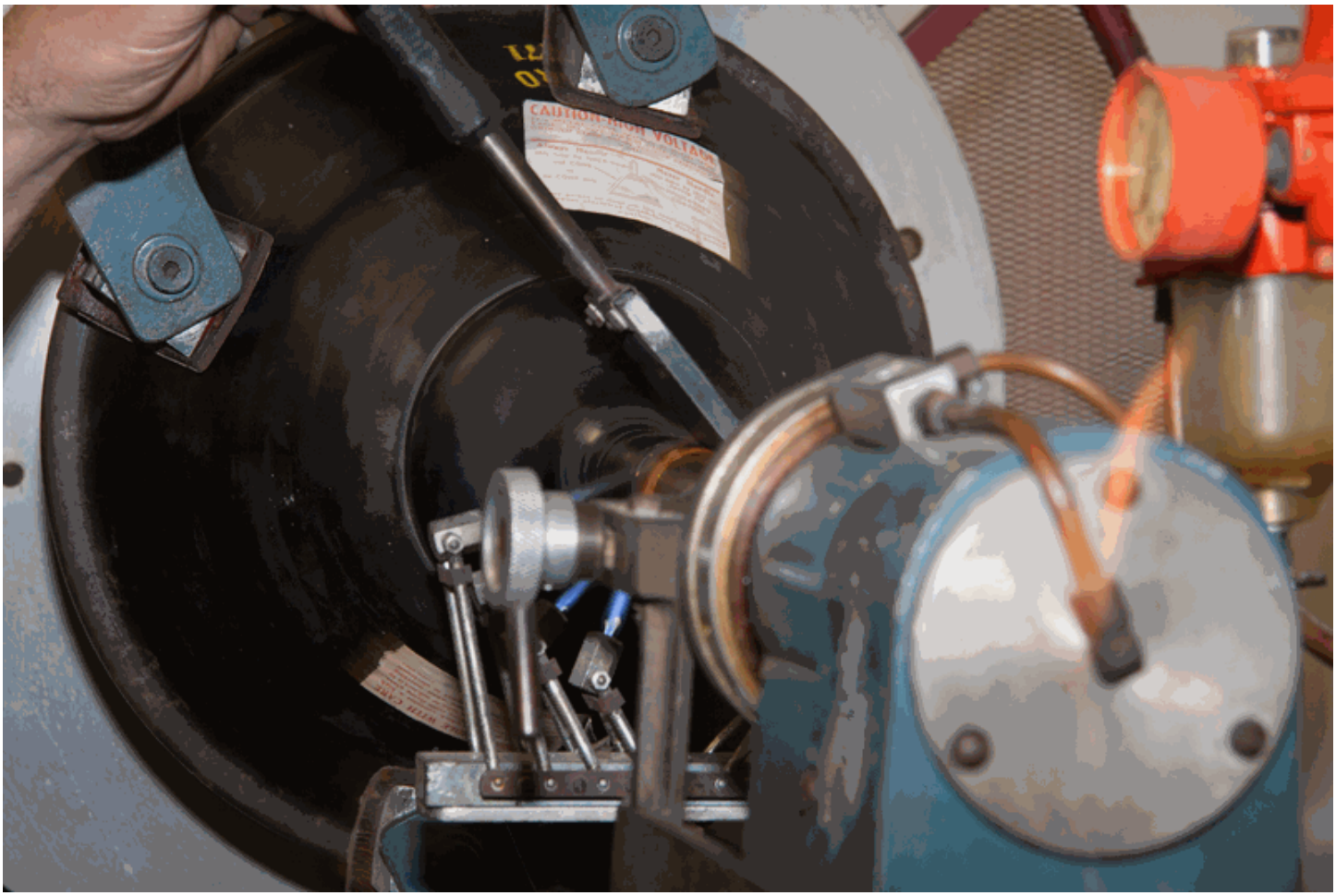
CRT Rebuilding

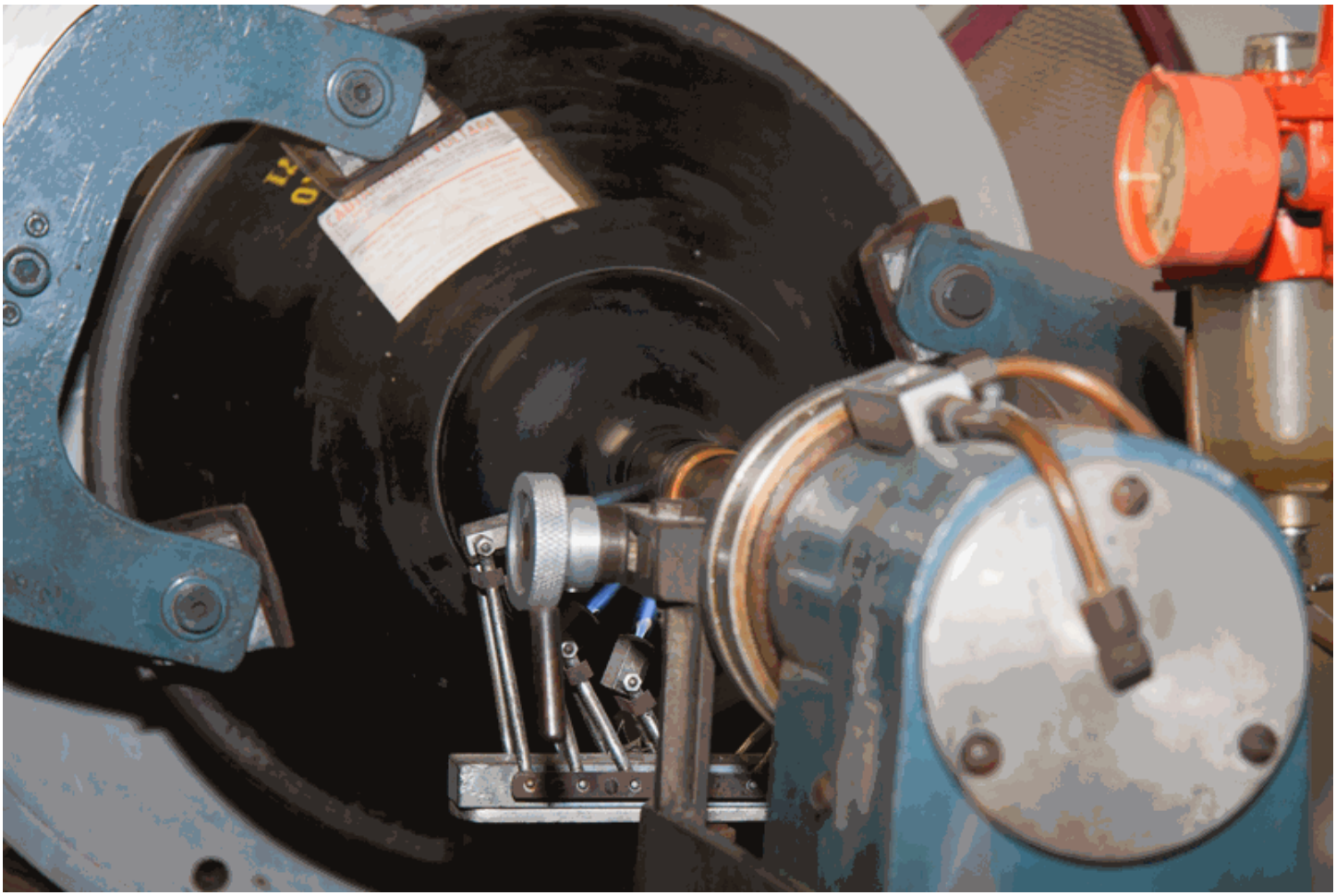

I FART IN YOUR
GENERAL DIRECTION

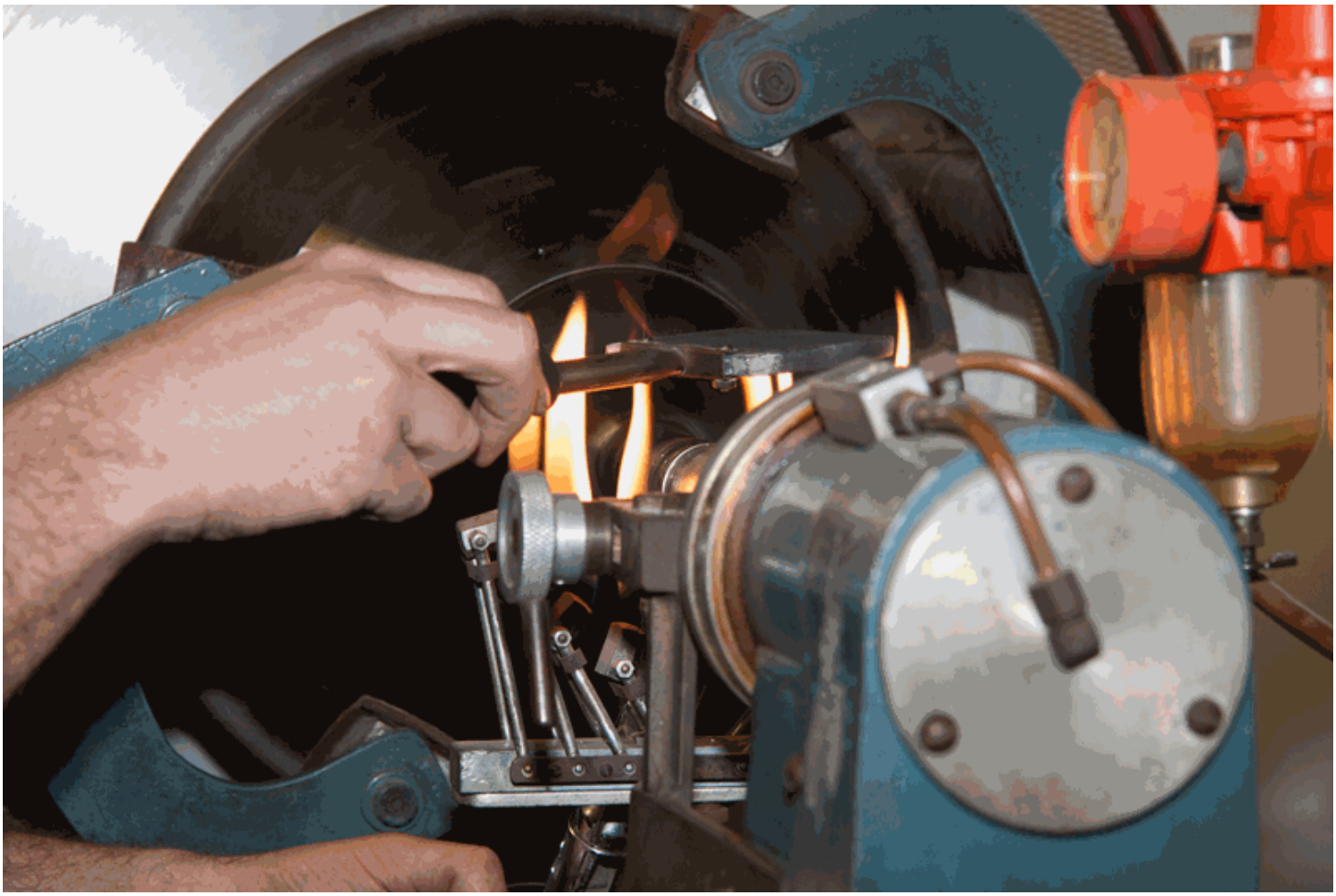

FIRE IN YOUR
FIELD DIRECTION

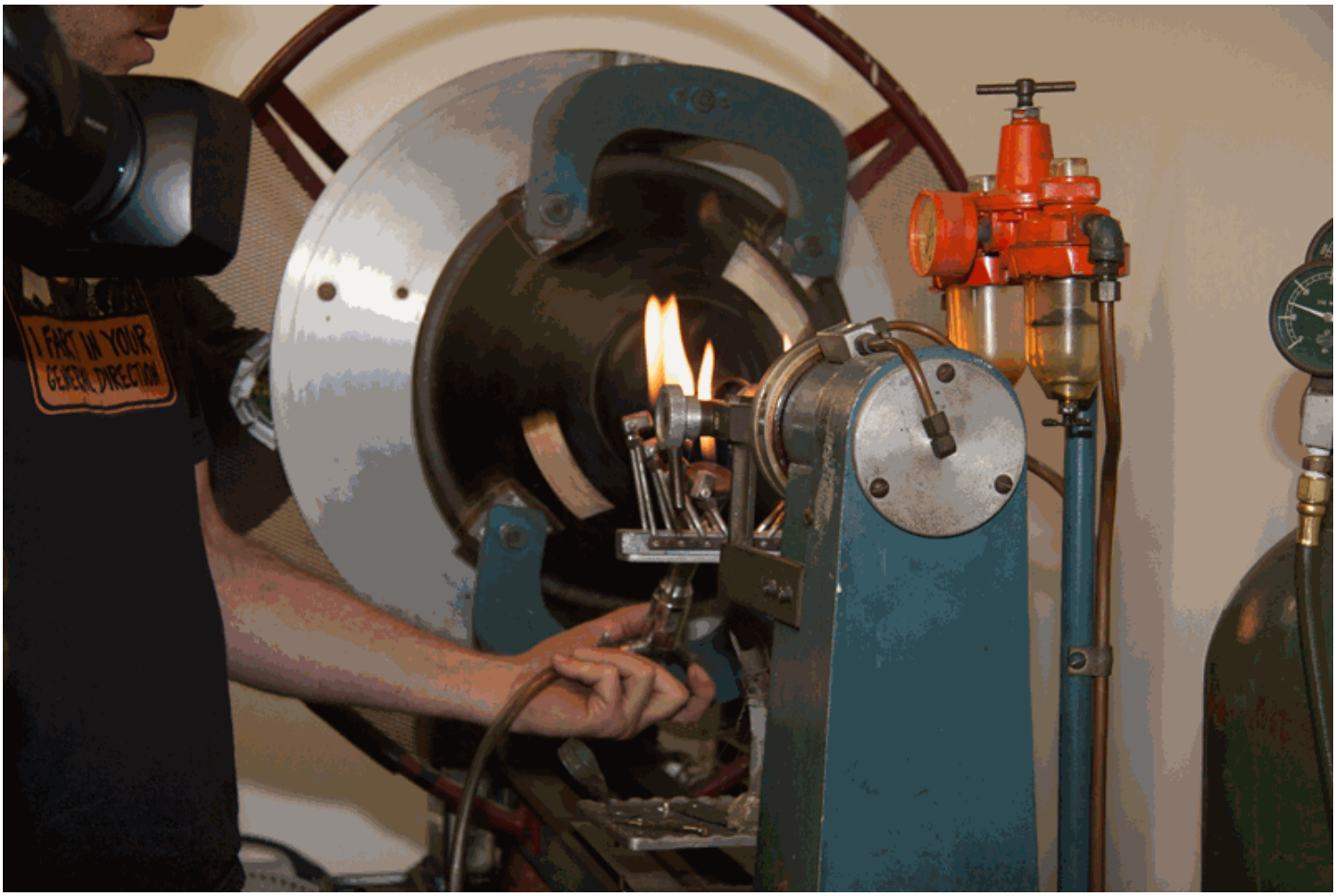

CAUTION: HANDLE WITH CARE

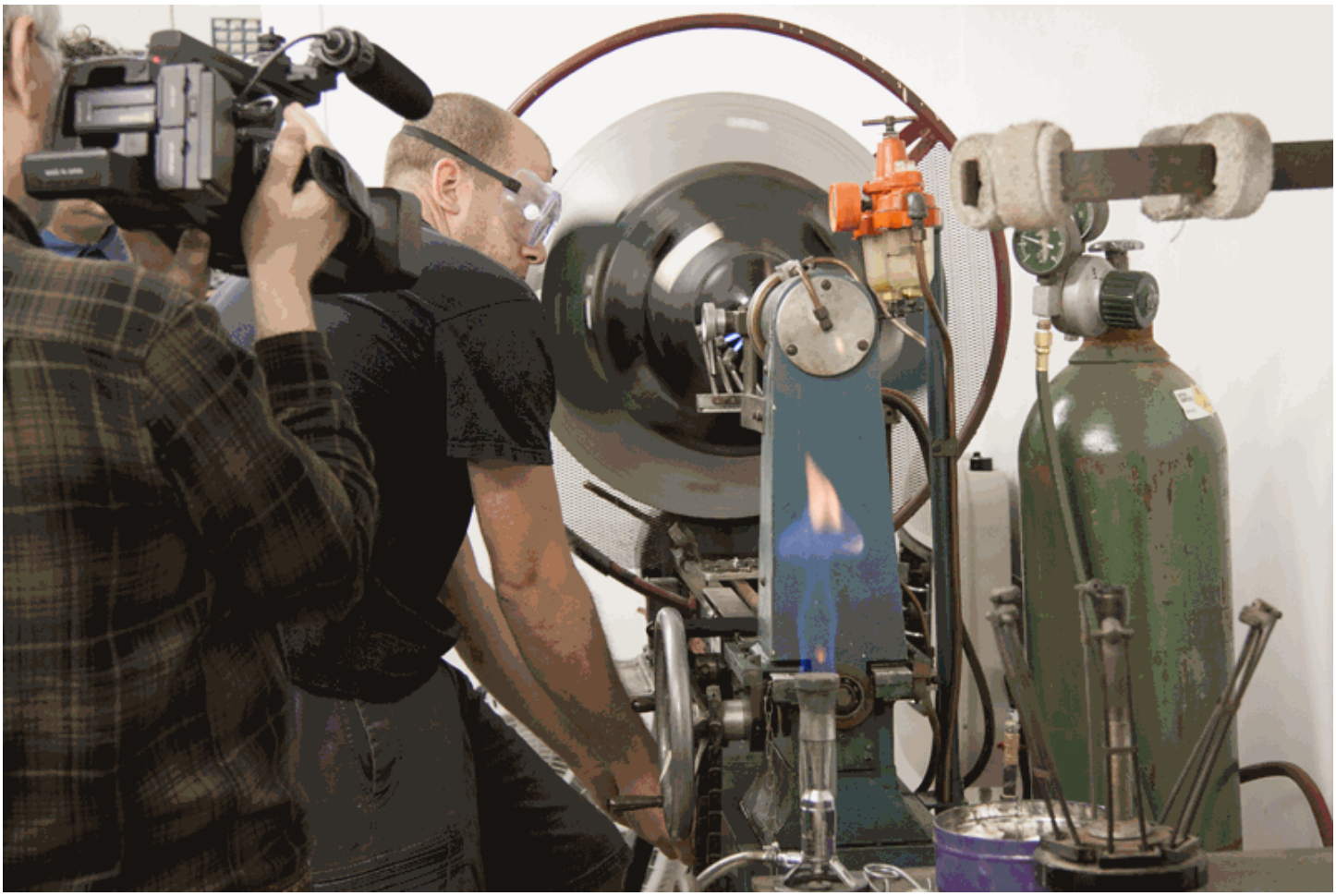


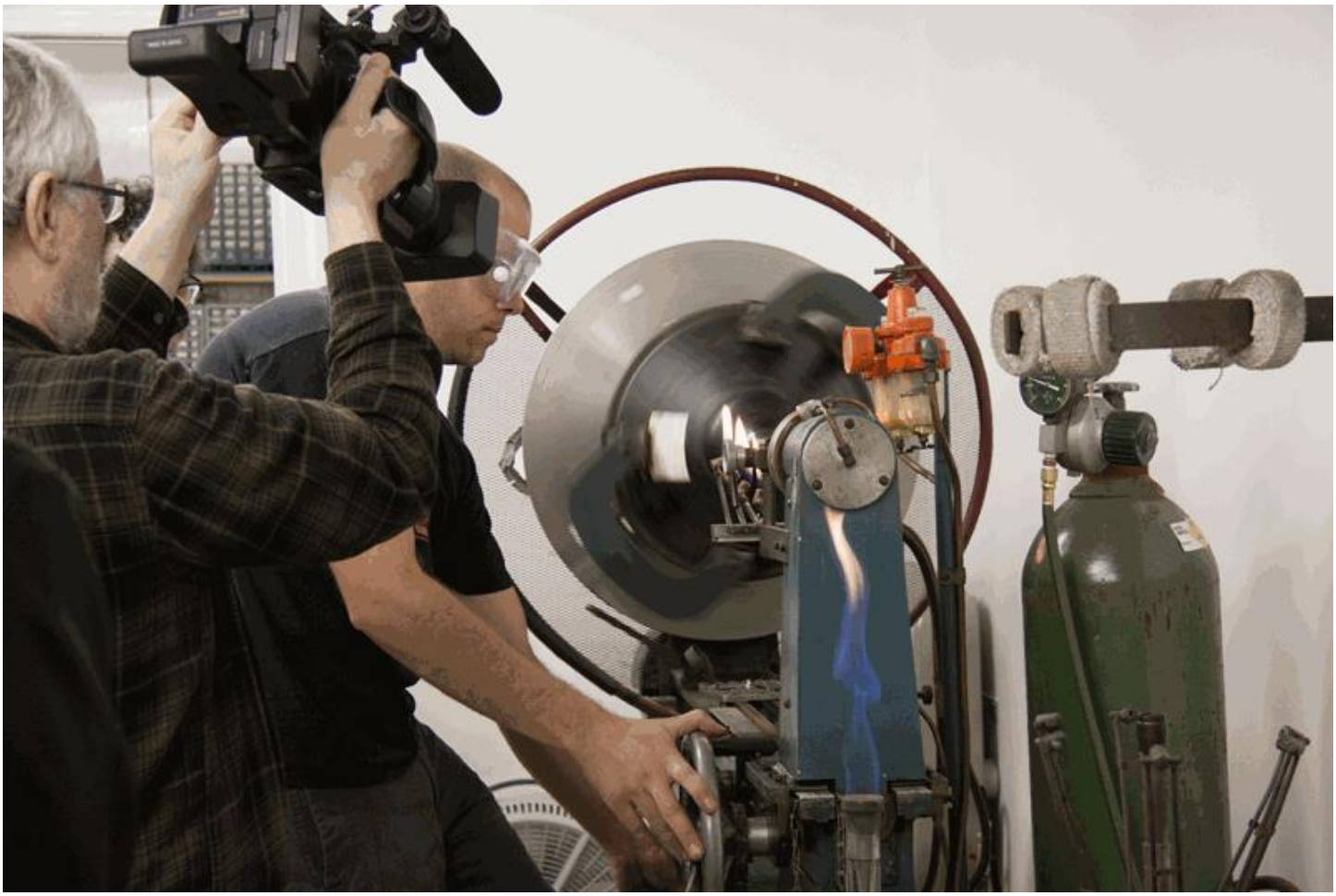

CAUTION: HIGH VOLTAGE

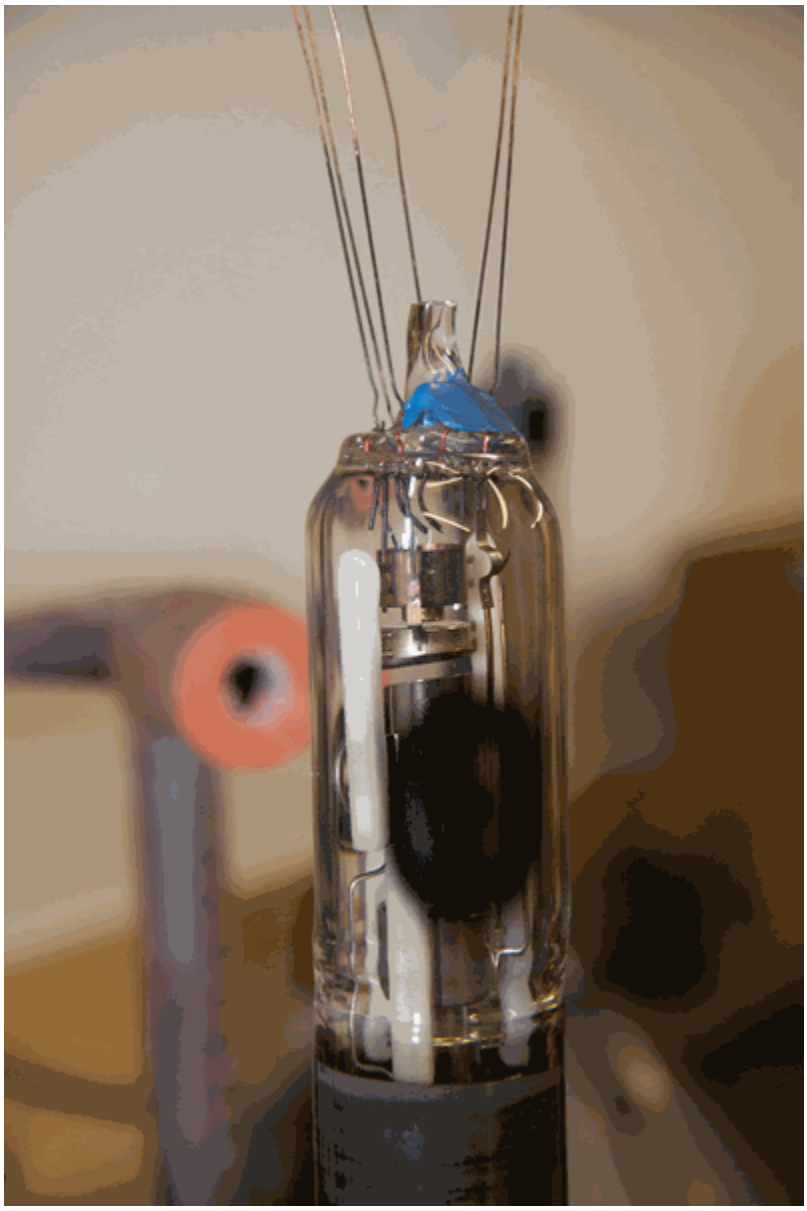





I FART IN YOUR
GENERAL DIRECTION





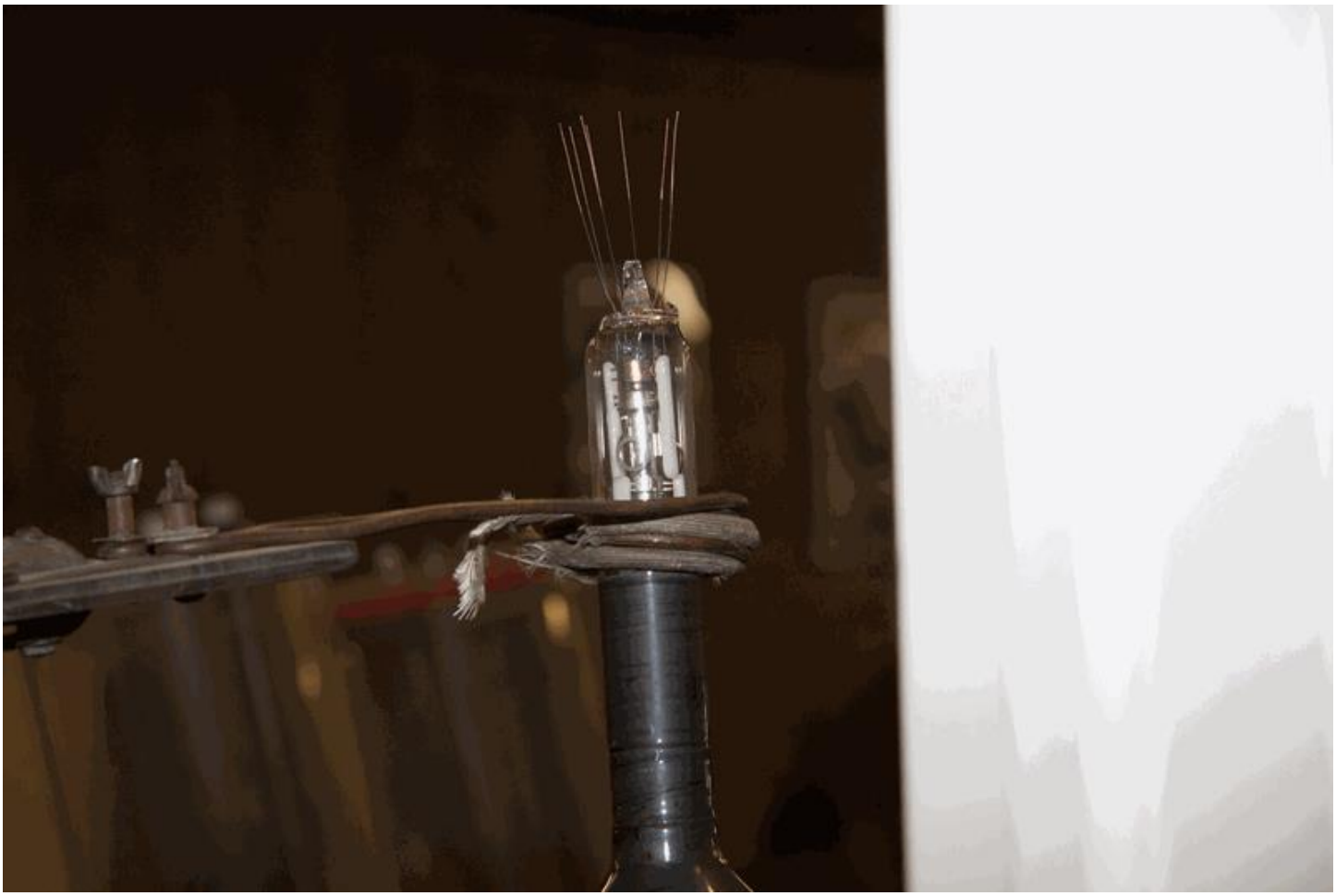



DANGER
HIGH VOLTAGE

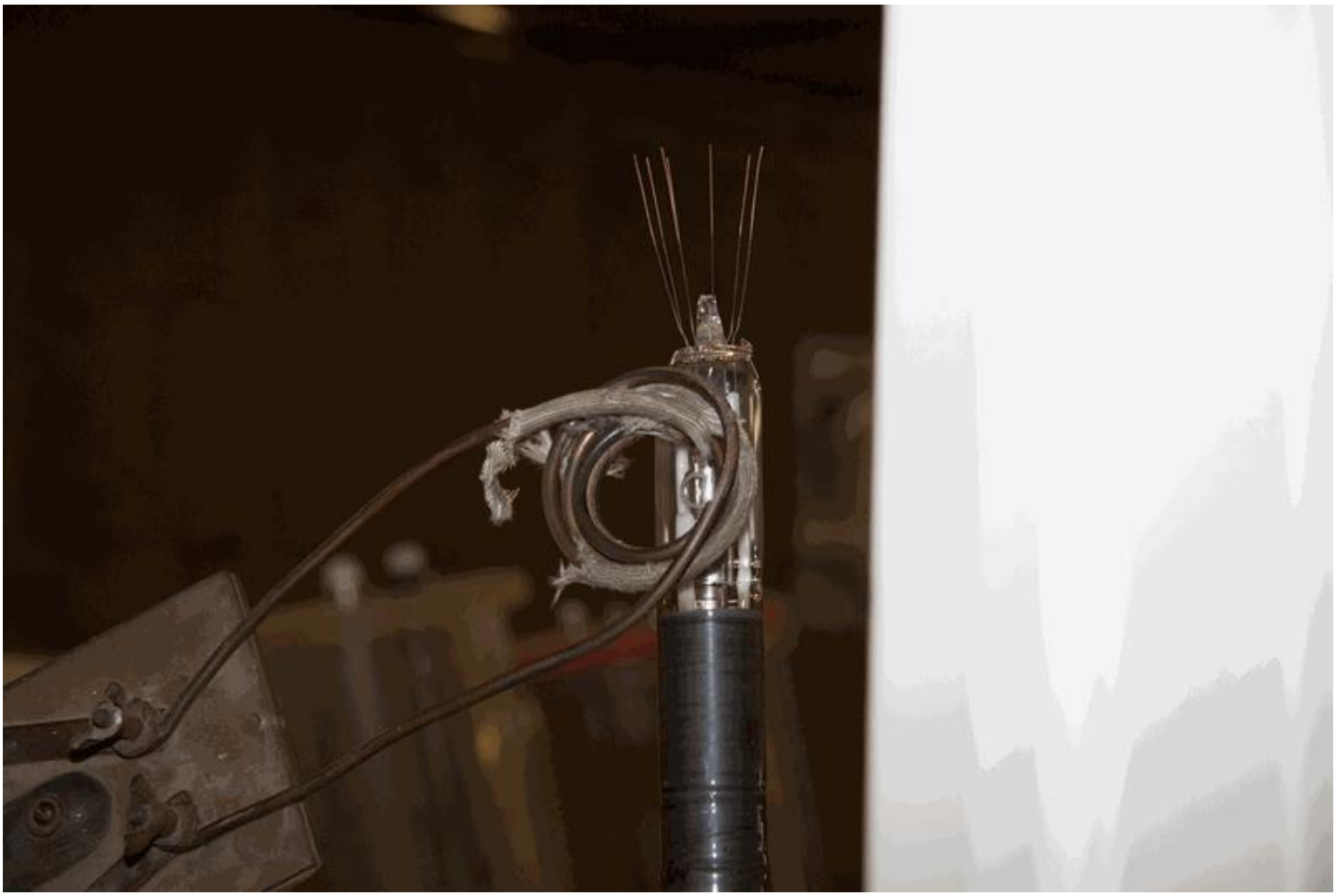

INFO SHEETS

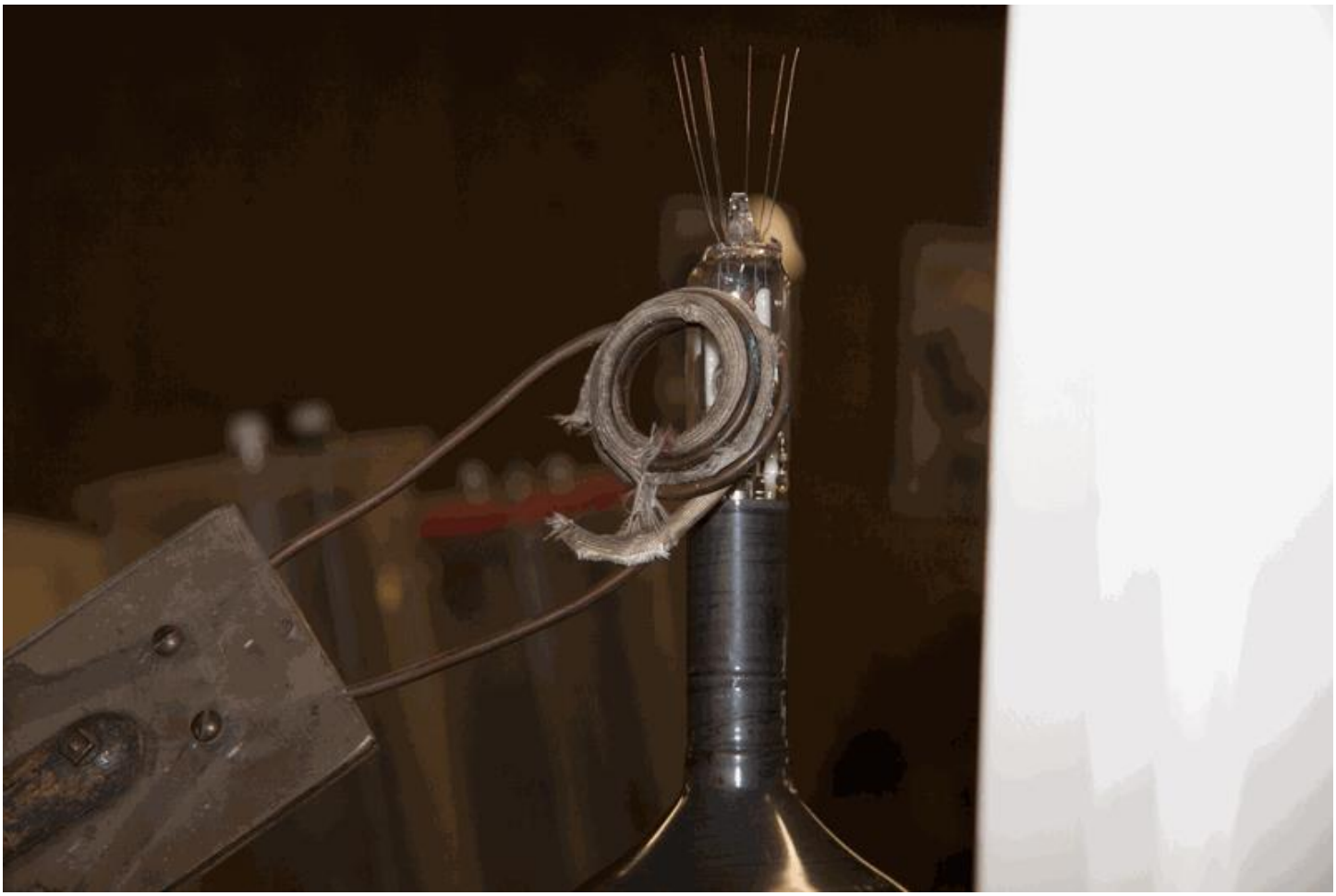

JERZEES


ERZE




I FAKIN YOUR
FRAGILE






GENERAL DIRECTION


I FACE IN YOUR
GENERAL DIRECTION
FRAGILE


GLASS
FRAGILE
FRAGILE
FRAGILE


FRAGILE
THIS SIDE UP


TG-7
THERMOCOUPLE GAUGE CONTROL
1000
500
200
100
50
10
PRESSURE
POWER
TC
SELECTOR
1
2
3
Veeco
INSTRUMENTS INC.
PLAINVIEW, N.Y.

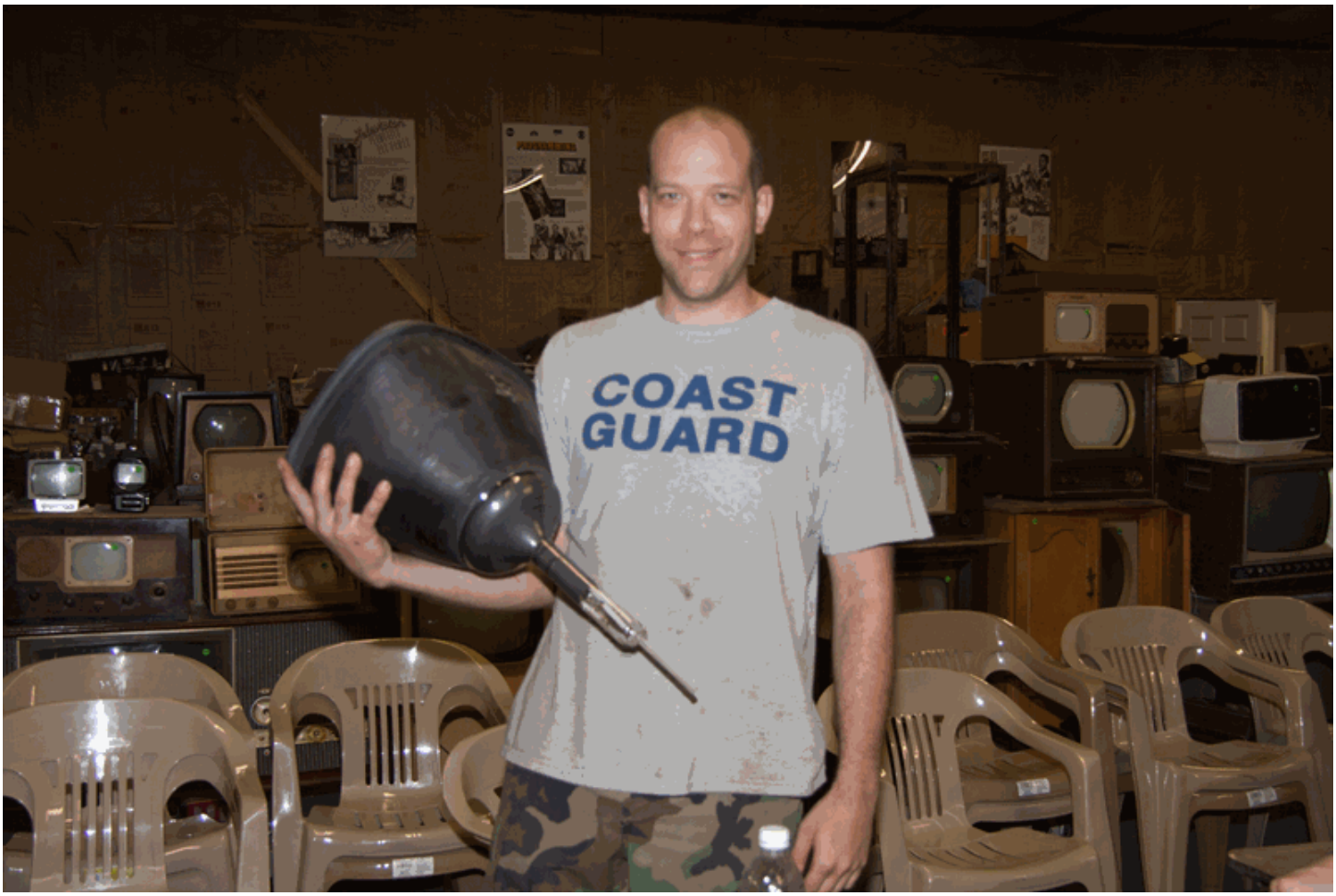

EYE
HAWK
EYE
HAWK
EYE
FRAG

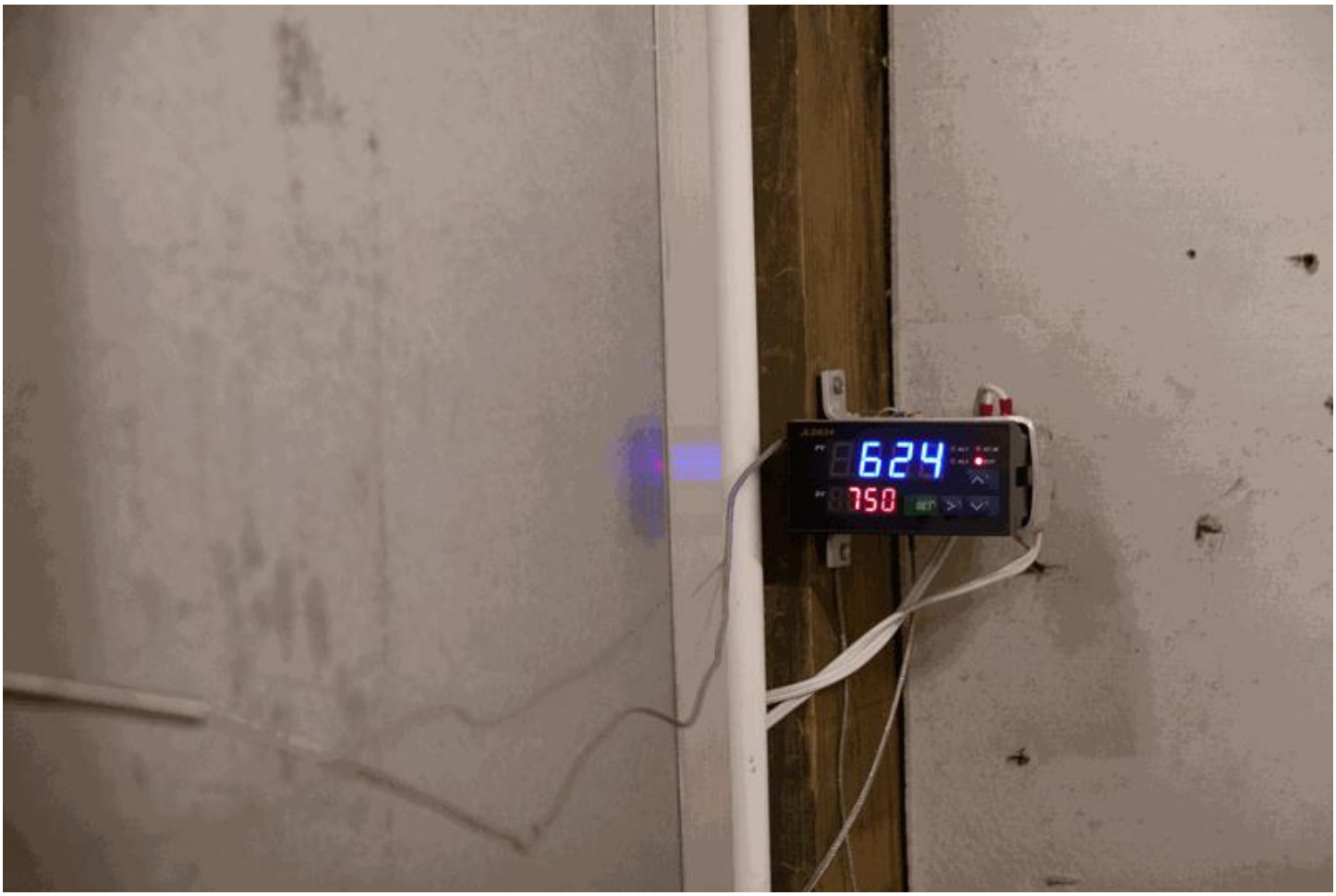

PORTER+CABL


PORTER+CAB

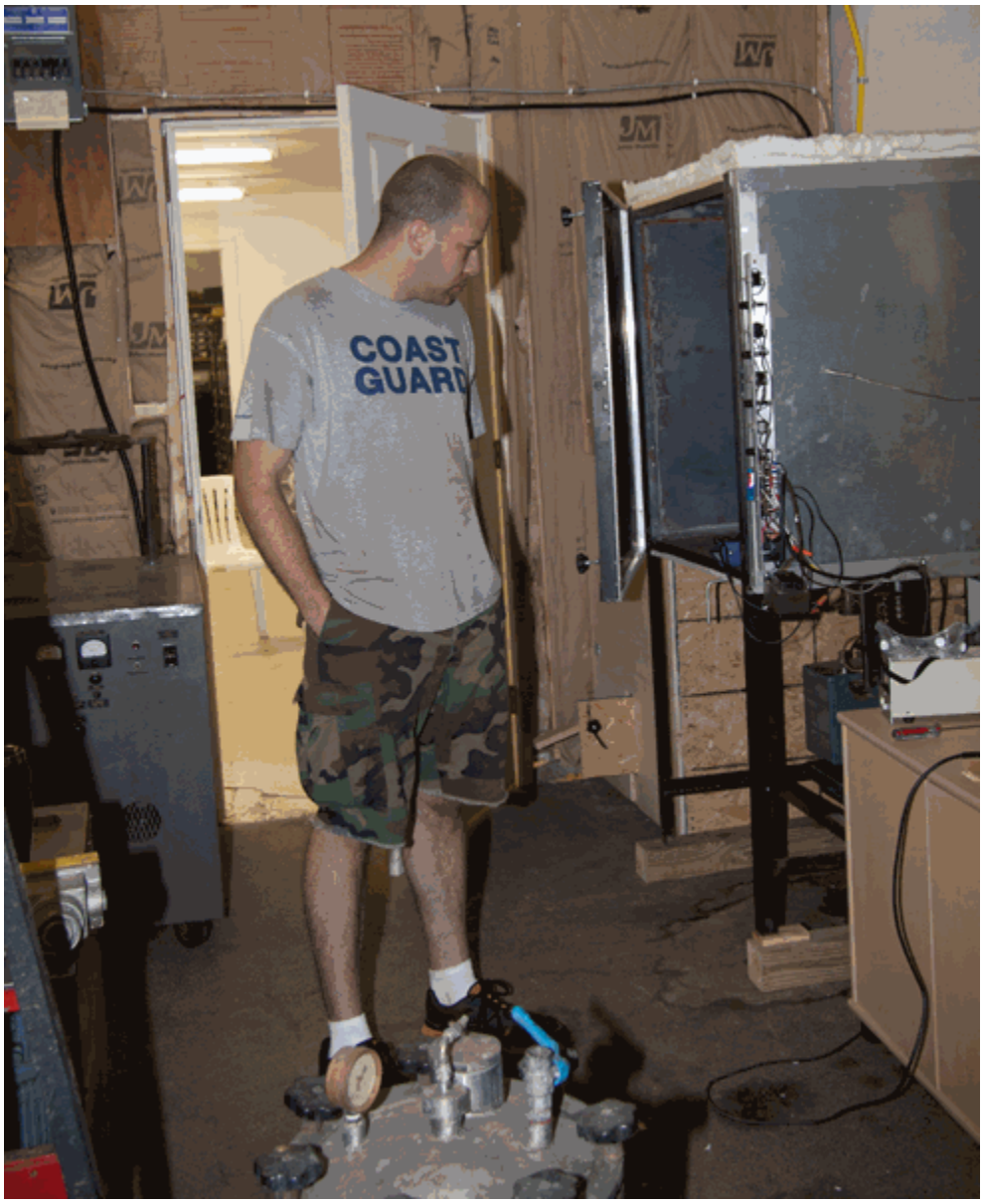

TIP-OFF


2-YEAR
TIP-OFF


COAST
GUARD

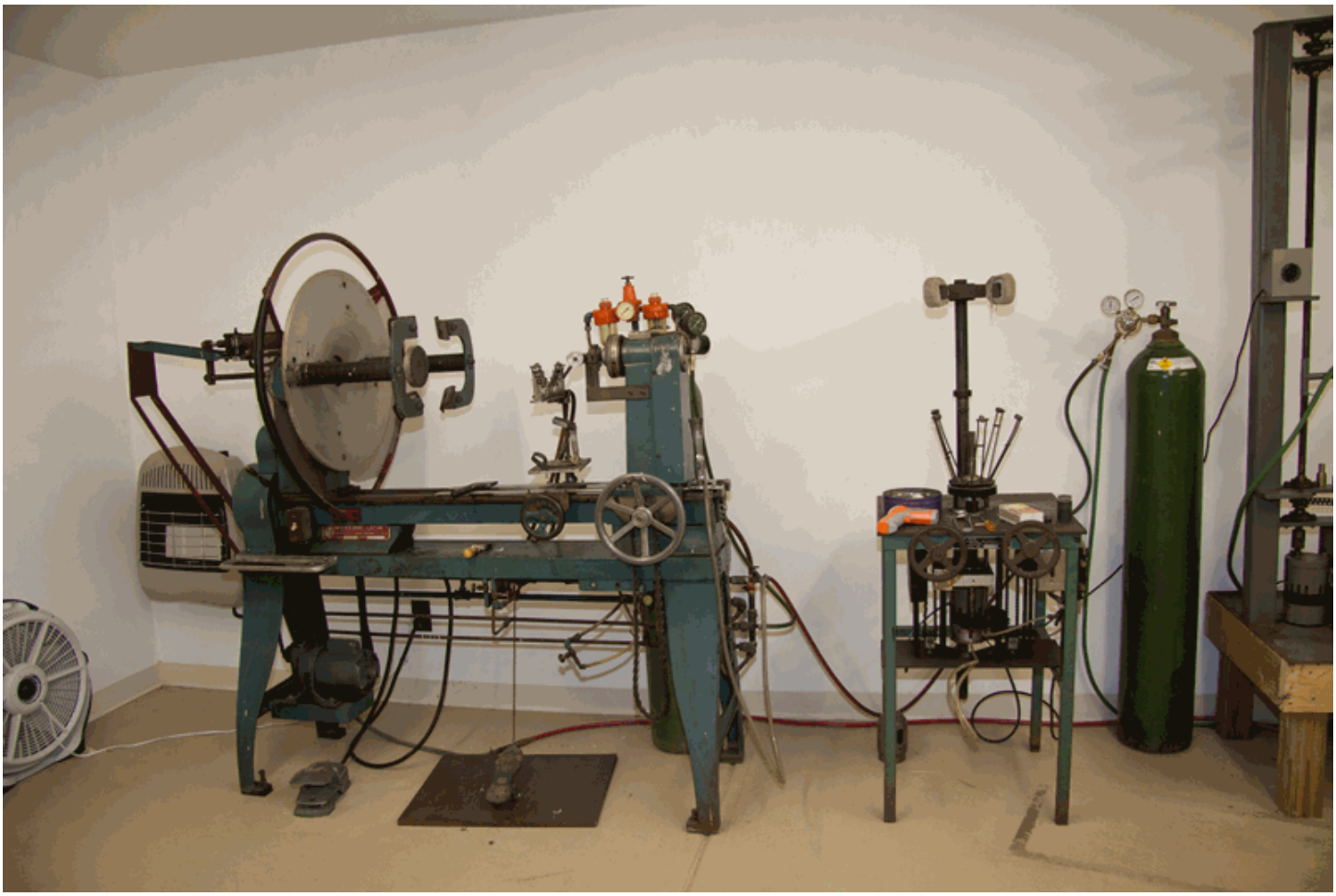

624
750
SET


JM
JM


COAST
GUARD

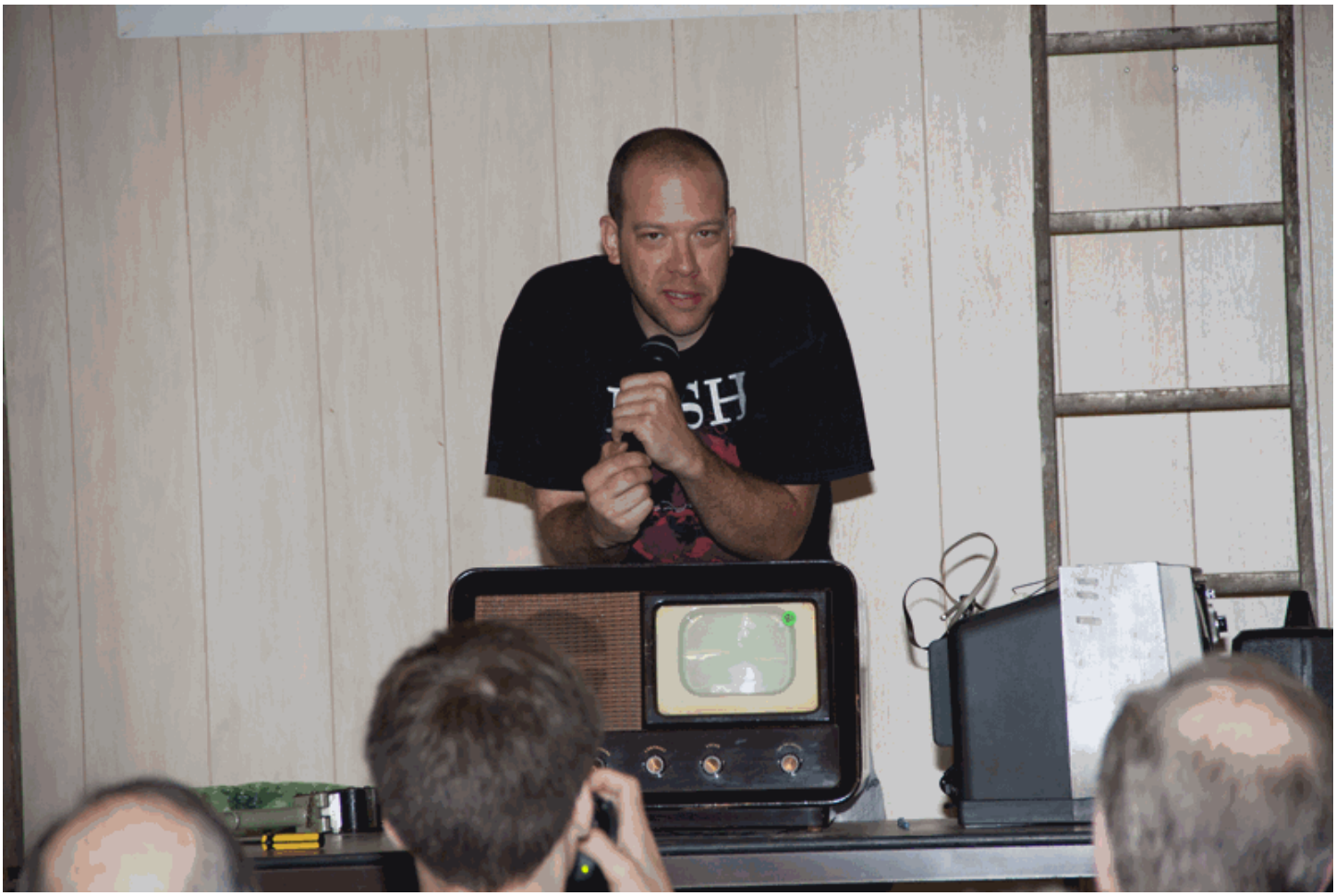

Klean Strip
Stripper

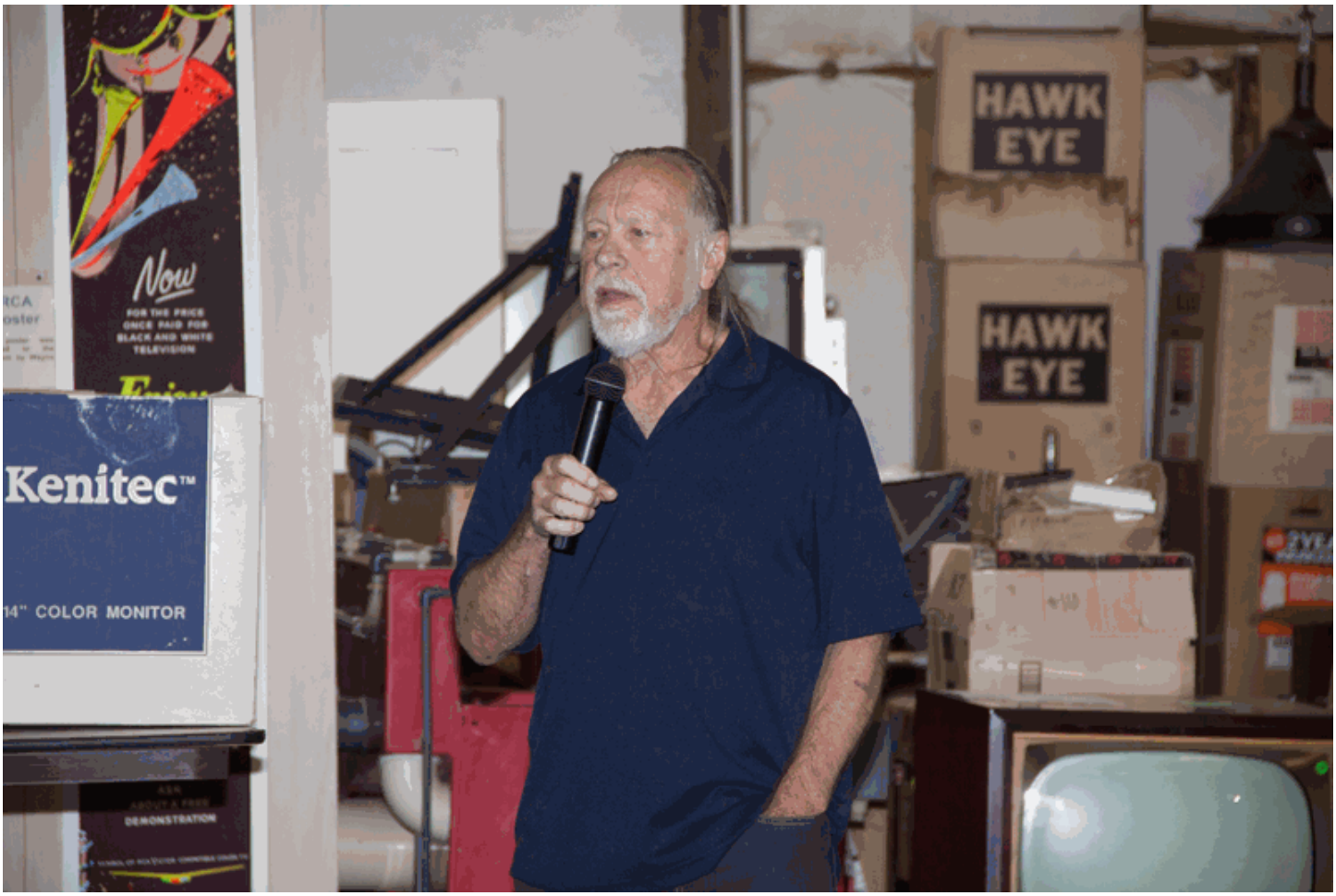

GLASS-FRAGILE
11
RIESGO VIDRIO
RIESGO VIDRIO
CORNING
X9




FIRST TIME at DAWGA

Annual Meeting




Now
FOR THE PRICE ONCE PAID FOR BLACK AND WHITE TELEVISION
Kenitec™
14" COLOR MONITOR
DEMONSTRATION
HAWK EYE
HAWK EYE


HAWK
EYE