



## 2007 Early Television Convention Hilliard, Ohio

### How RCA's WWII Military Television Development Shaped Modern Warfare

**By:** Maurice Schechter

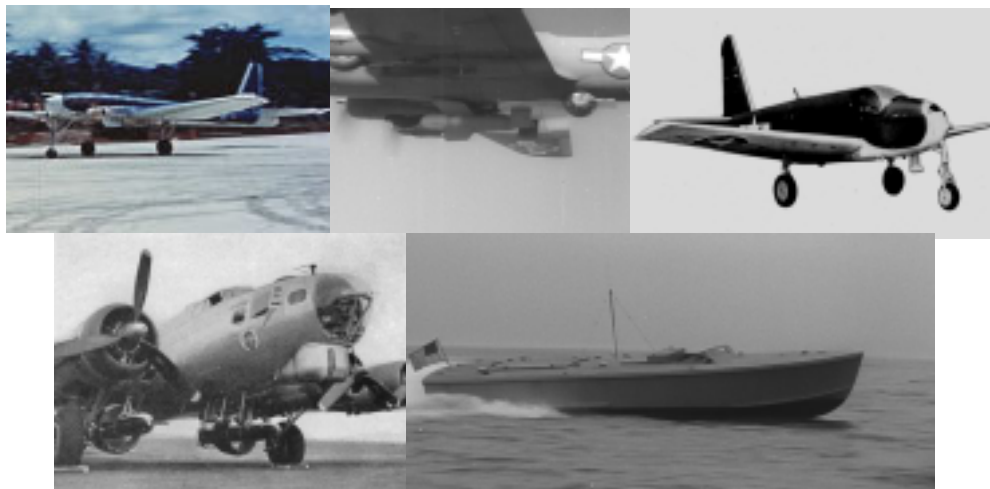
**Date:** 4-6 May 2007

Modern warfare using remote transmission of images as a means of weapons guidance and aerial reconnaissance has its roots before WWII, to an inventor who saw the possibilities of an emerging technology and his boss who supported its successful innovation. The men: Vladimir Zworykin and David Sarnoff of the Radio Corporation of America (RCA). The technology: television.

Maurice Schechter's well illustrated presentation will trace the development of military television from a memo Zworykin wrote in 1934 to the end of the war, where practical TV-guided weapons were used in combat. Military technology that made post war television possible.

Mr. Schechter's presentation will include a demonstration of the very rare restored WWII television equipment used to guide these weapons. The complete system from iconoscope camera to the bombardier's monitor with it's green image will be making pictures over the air as if it was 1944

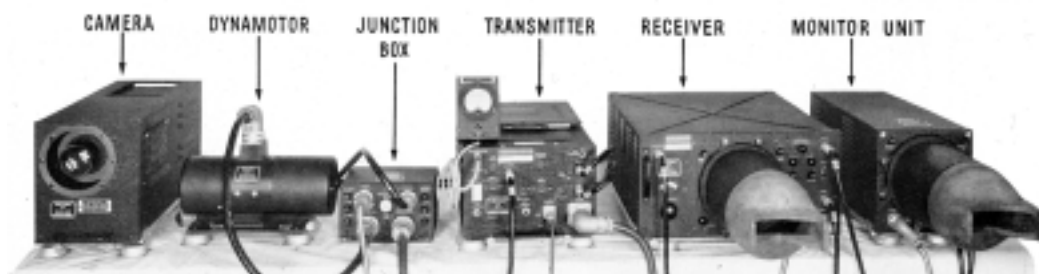
Among his many images, he will be showing archival footage of the developmental TV bombs, filmed recordings / kinescopes from actual bombing runs and an interview with the developer of Army Air Forces GB-4 television guided bomb used in the European theatre.



**Examples of WWII Television Guided Weapons**

**About the Speaker:** Mr. Schechter is chief engineer for DuArt Film and Video in New York City and has spent nearly 20 years researching this subject from the proving grounds of Nevada to the National Archives.

For more information, [WWW.EARLYTELEVISION.ORG](http://WWW.EARLYTELEVISION.ORG) on events program and other presenters



**WWII Block III Television equipment to be shown operational at the Convention**



**F4U**

Is an Attack Drone - powered by twin  
Upstream engines - self launched  
controlled by radio, guided by television  
and radar

Used by the Navy in a squadron called  
"Special Task Air Group ONE" based in  
the south pacific

Forty six missions carried out at Bougainville  
and Rabaul. Radar installations and  
Bridges were targets

Myself giving the last presentation of the day  
in the museum garage





Setting up the Block 3 transmitting display table.

Conversion unit, transmitter, test monitor, dynamotor, junction box, antenna, dummy load and 28vdc power supply.



Close up of test monitor, dynamotor and junction box





Block 3 receiving table  
Receiver and antenna

RECEIVER

MOTHERSHIP  
EQUIPMENT

DESTRUCTOR

ANNA

R-68/AXR-1

28.6 VOLTS DC

REAR PANEL

DIAL LOCK

FREQUENCY

CONTRAST

FOCUS

BRIGHT  
H.HOLD

V.HOLD

VIDEO

OVER  
OFF

POWER  
OFF

HEATER

SYNC

PC

CANAL 1812 800 100 VOLTS





Receiver destructor impact switch , test light and manual switch

The receiver has thermite destructors that could be ignited to prevent capture by the enemy



Bombardier Repeat monitor driven from the receiver. The joy stick box would control the bomb to the target