

UNIVERSAL HISTORY ARCHIVE/GETTY IMAGES

**HIROSHIMA, 1945**  
15 KILOTONS





## **COMPETITION**

**EDWARD TELLER (father of hydrogen bomb) HERB YORK (DARPA's 1st Chief Scientist), LIVERMORE OFFICIAL**





**Castle Bravo Hydrogen Bomb, 1954**  
15 MEGATONS



# Russians Win Race To Launch Earth Satellite

## Man On Threshold Of Space Travel

By DANIEL F. GILMORE  
United Press Staff Correspondent

LONDON (UP)—The pulsating radio "beep" of the first manmade earth satellite signalled today to the world that man had crossed the threshold into the age of travel through space.

The Soviet Union announced it had won the race into space by launching an earth satellite Friday, a 184-pound, 22-inch globe now orbiting the earth at 18,000 miles an hour, 560 miles up.

Millions of persons throughout the world heard the "beep...beep...beep..." rebroadcast today by local stations and realized that man had taken his first faltering steps into the new era.

Launching of the satellite was a tremendous victory for science. It was a more tremendous victory for Soviet propaganda to be able to trumpet to the world the Russians were the first to break through the frontiers of space.

**Bolsters ICBM Claims**

Bolstered Russian claims to

### How To Spot Satellite

By UNITED PRESS  
Here's how to look for the Russian earth satellite which will be whizzing through the sky at 18,000 miles an hour.

The best time to spot it is at dawn or dusk when the sky is semi-dark. There is a chance that it could be seen if it travels across the face of the moon at night.

The best instruments to use are ordinary binoculars or telescopes. Powerful telescopes won't pick it up because of their narrow fields.

Through optical instruments, the satellite will look like the faintest star which can be seen with the naked eye.

Keep a sharp eye out. The satellite travels so fast it may appear on the horizon for only seconds and chances of spotting it have been estimated at one in a hundred.

### Epic-Making

### U.S. May Speed Up Satellite Program

By JOSEPH L. MYLER  
United Press Staff Correspondent

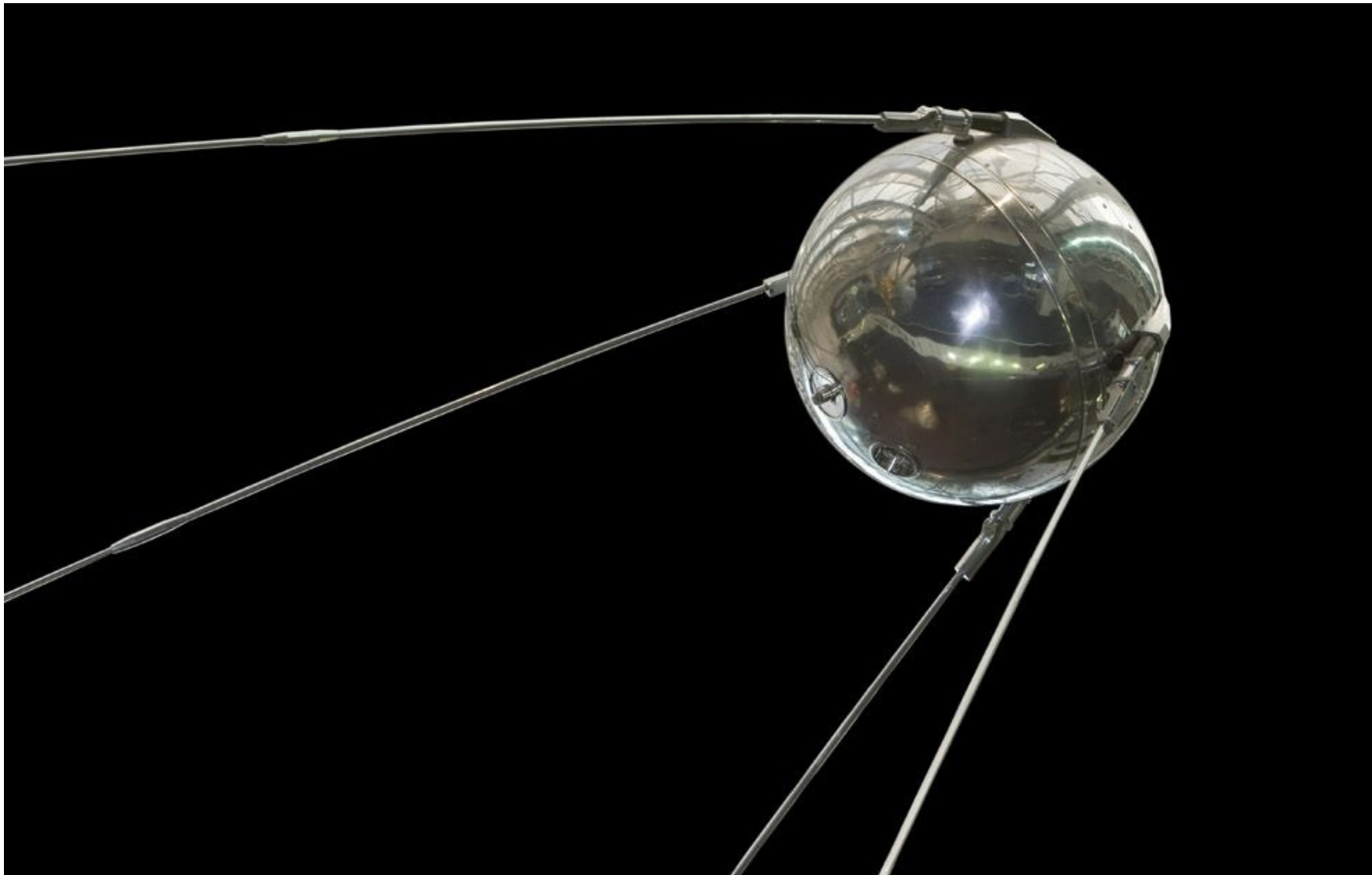
WASHINGTON (UP)—American scientists, caught flatfooted by Russia's epic launching of the man-made moon, indicated that the United States may speed its own earth satellite program.

Leaders of the U.S. satellite program also said that it appeared Russia rocketed its heavy pound satellite into a globe-doling orbit with a rocket "to" an intercontinental ballistic missile.

That could mean Russia not only has beaten this country to the frontiers of space, but also that it has been called the "ultimate weapon" for modern day warfare. This country has not yet tested a successful ICBM.

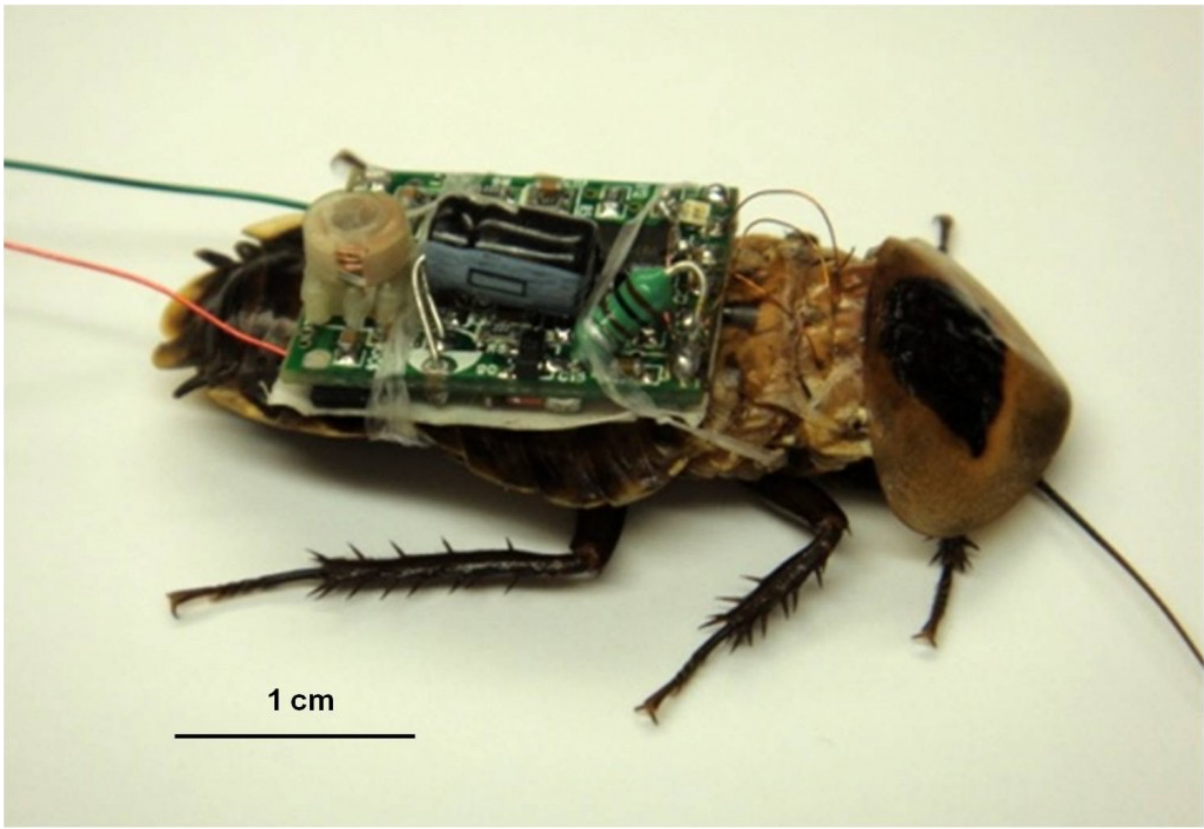
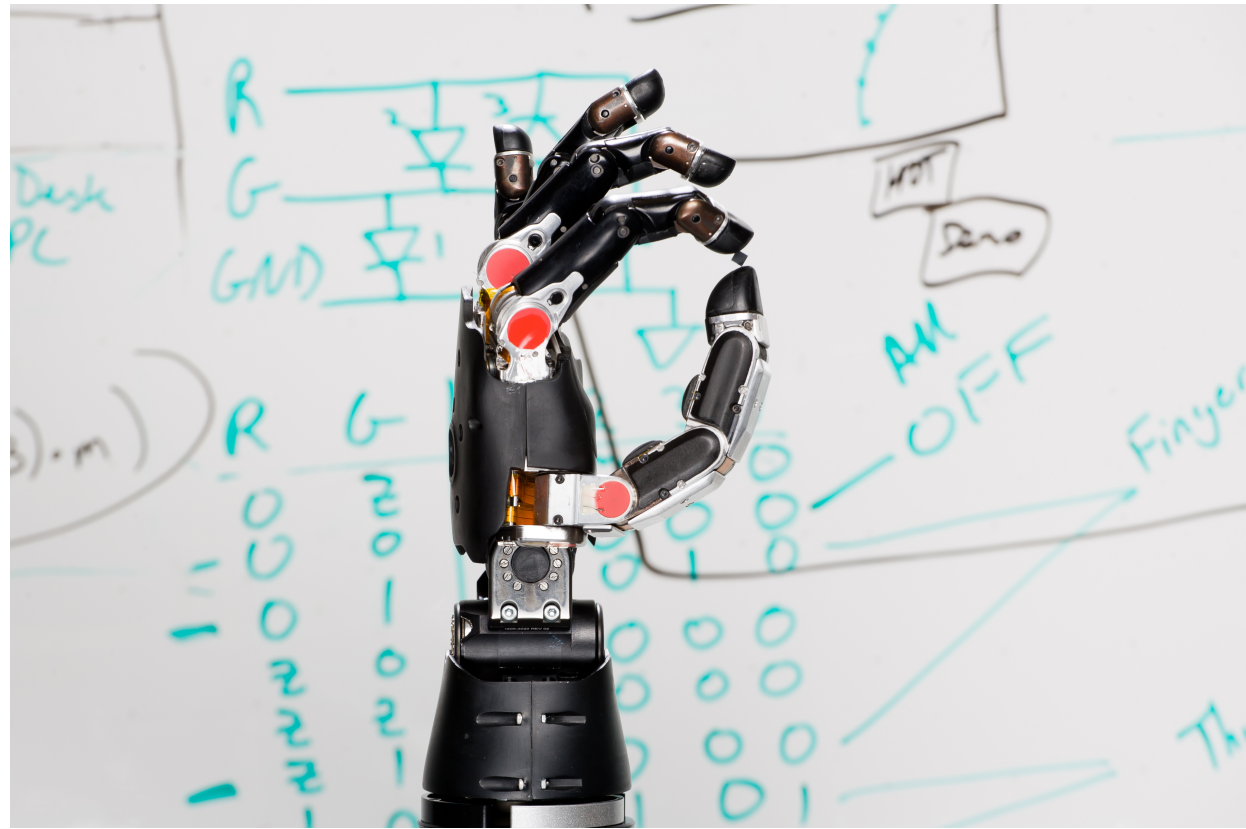
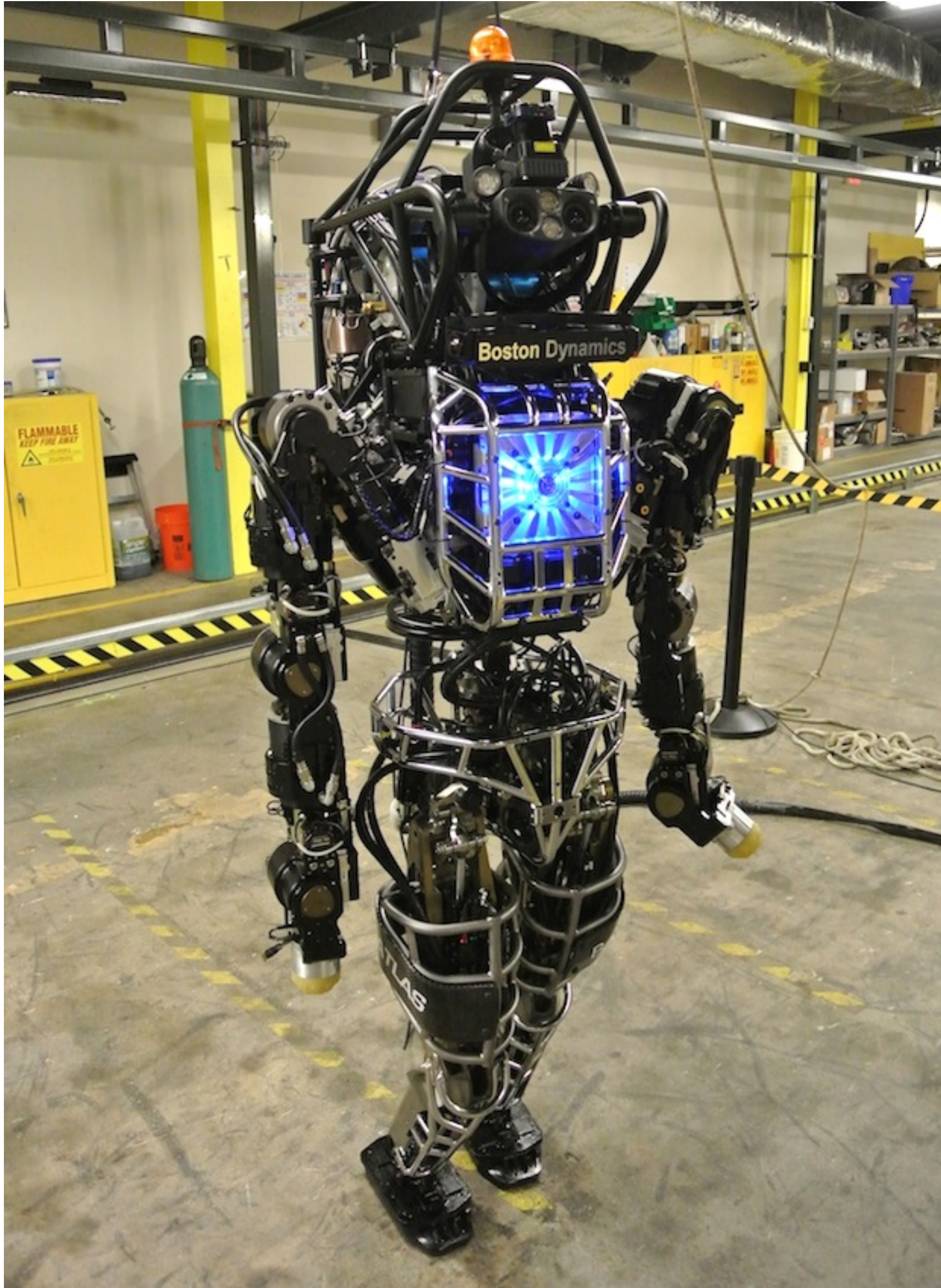
American diplomats could not deny that Russia had scored a notable propaganda victory. The military

**— WEATHER —**  
**WEST VIRGINIA**—Partly cloudy with highest in the 60s today and Sunday. Lowest tonight 50 west and 40 east portions.  
**VIRGINIA**—Fair with lowest 45 to 50 west and north and 50 to 55 southeast portions tonight, Sunday mostly sunny and a little warmer. Tides on the coast and lower bay will run a foot or two above normal.



SPUTNIK TOOK THE U.S. BY TECHNOLOGICAL SURPRISE







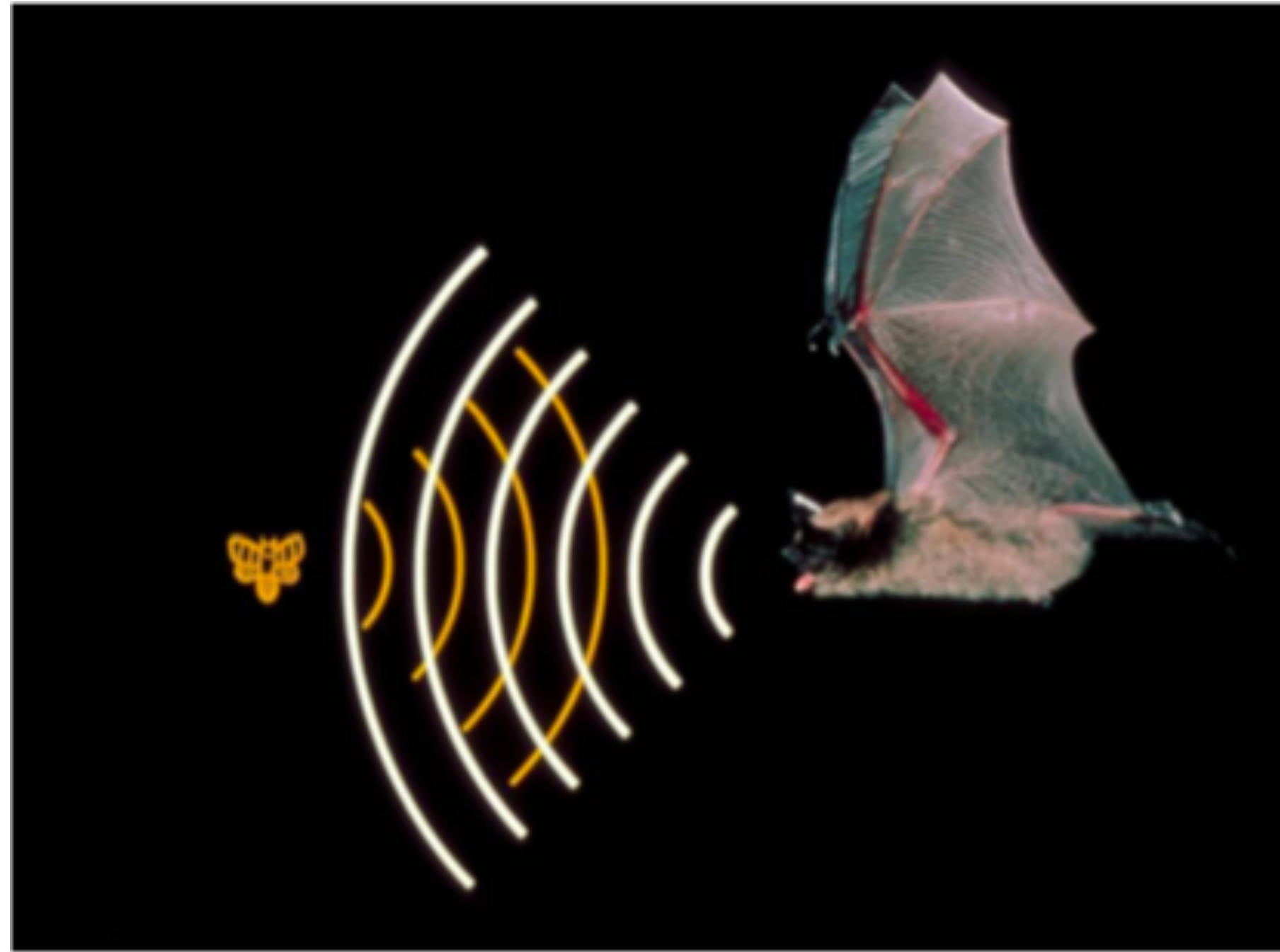






**EDWARD LOVICK**  
**Grandfather of stealth technology**





**“Mother nature is the mother of invention.”**

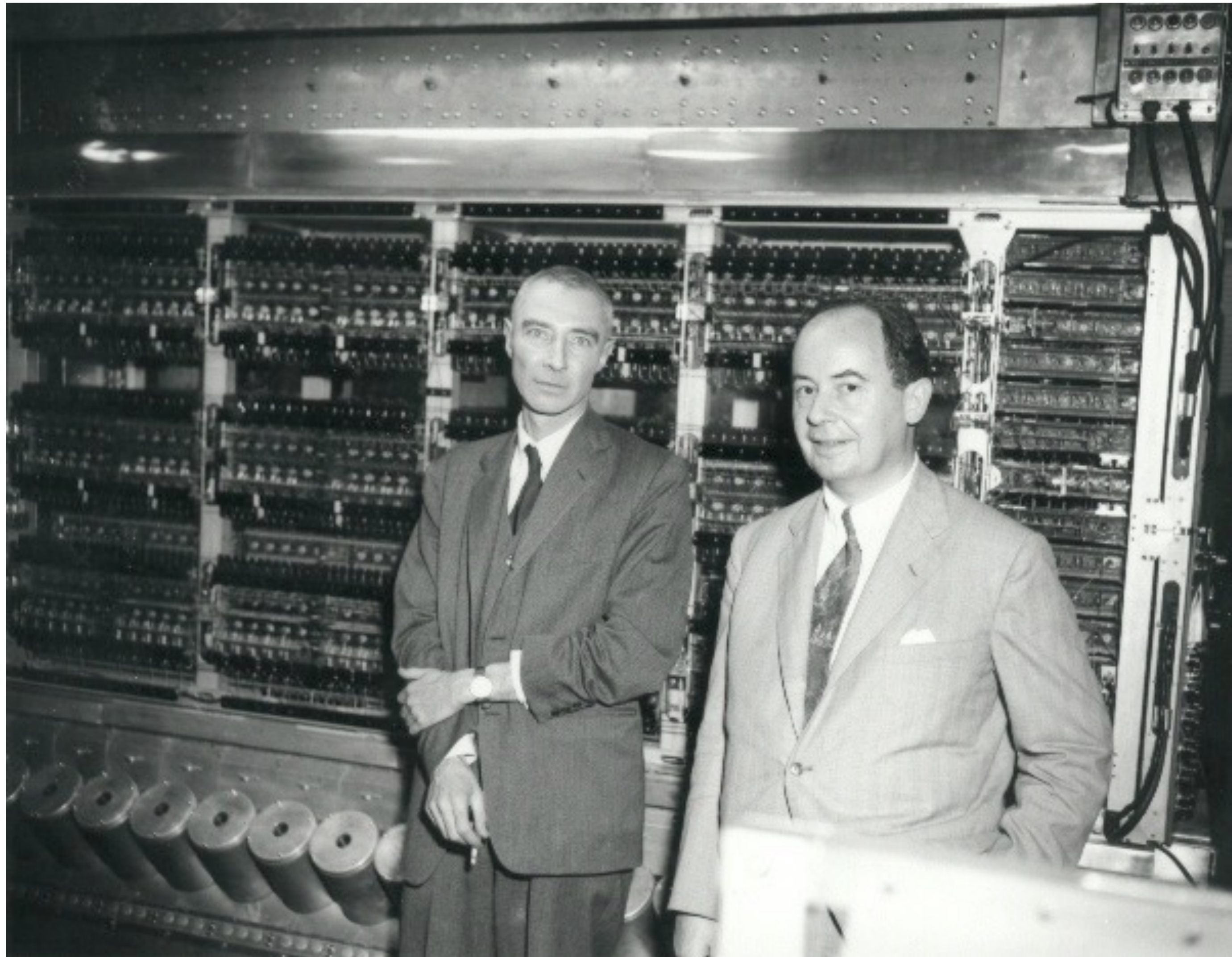
— Ed Lovick





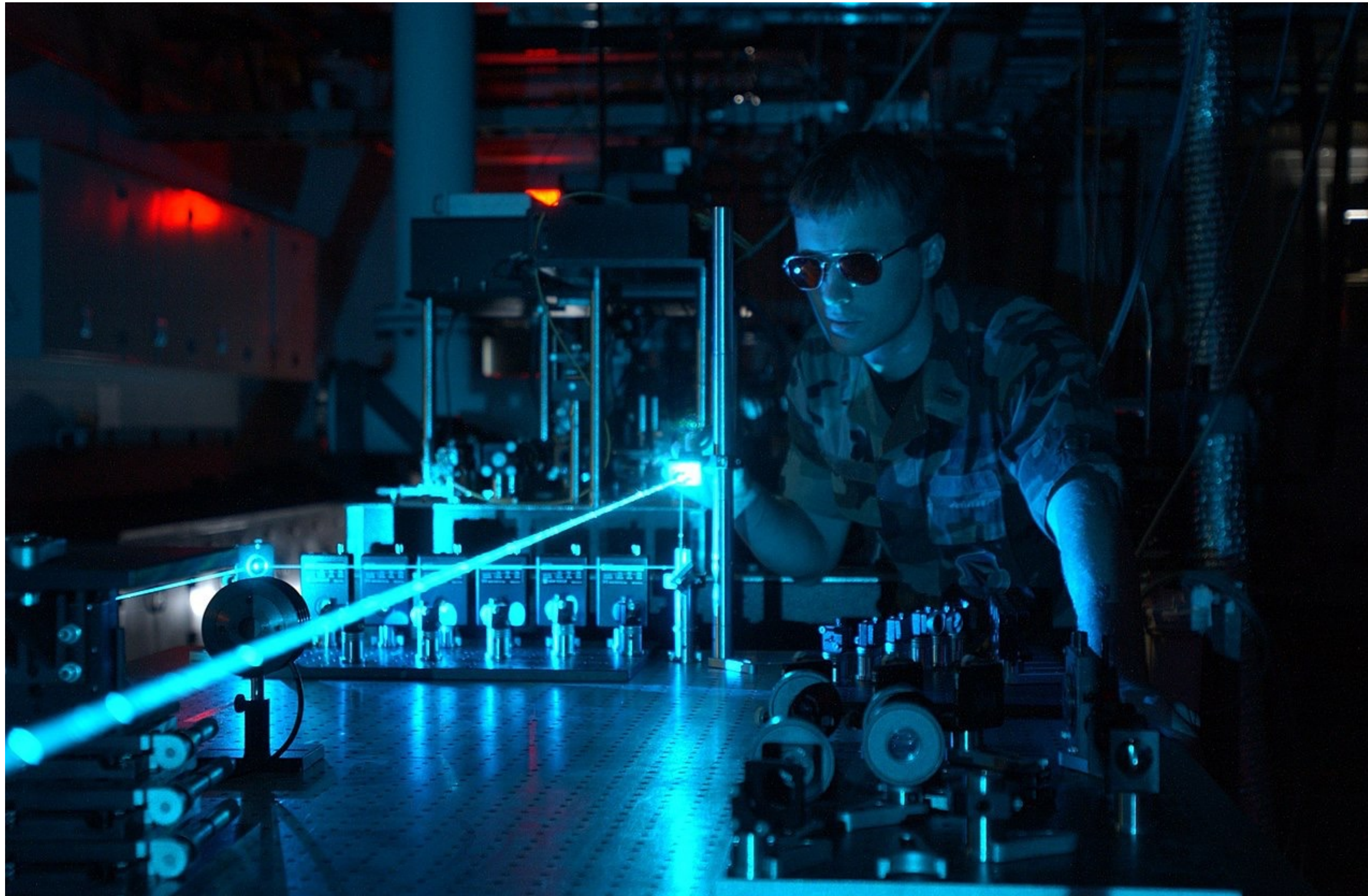
**CHARLES TOWNES**  
invented the laser





**Robert Oppenheimer & John von Neumann  
in the basement, Princeton Institute for Advanced Studies**





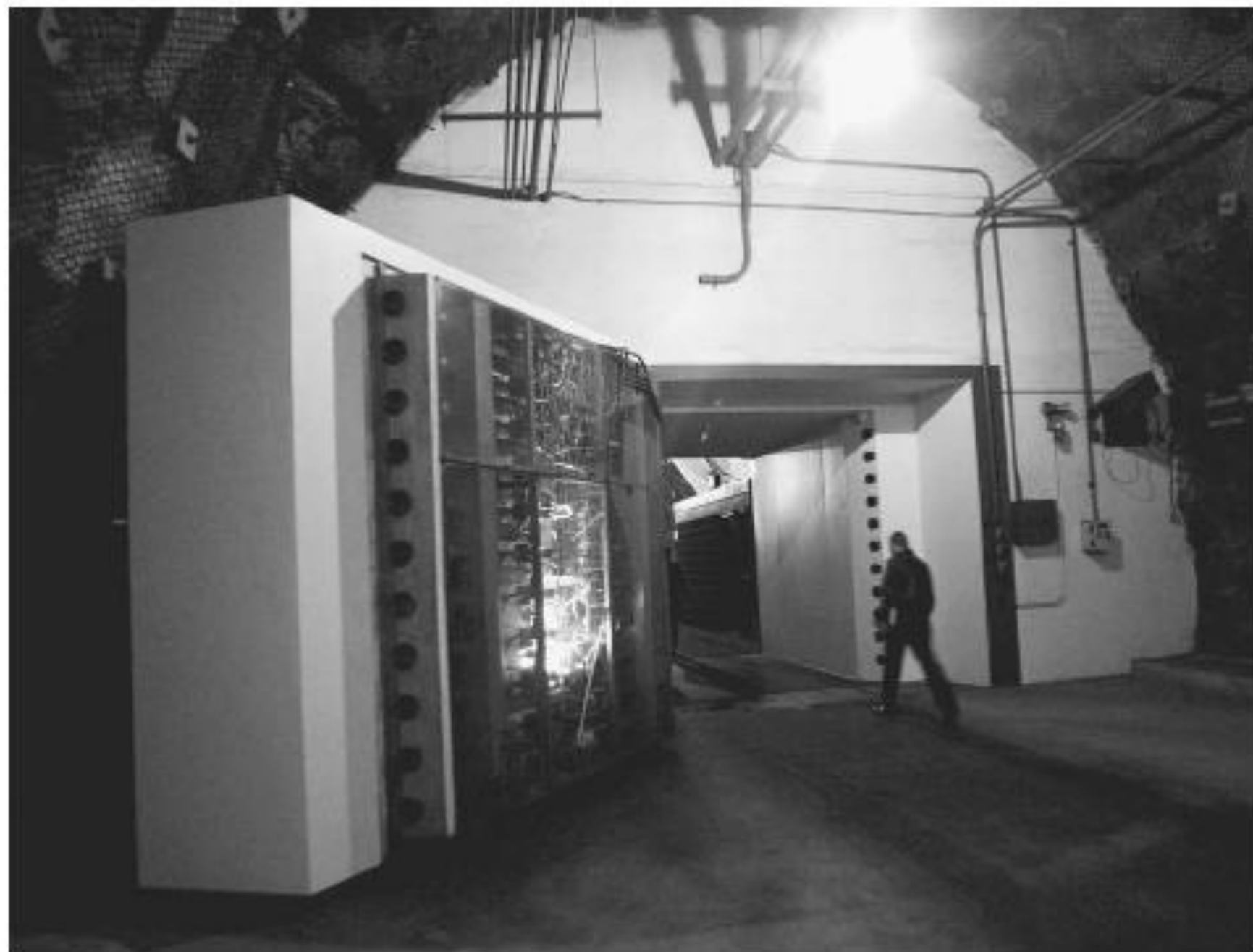
**“Most people are against new ideas.”  
—Charles Townes**





## **J-SITE, GREENLAND**





**NORAD  
CHEYENNE MOUNTAIN, COLORADO**



