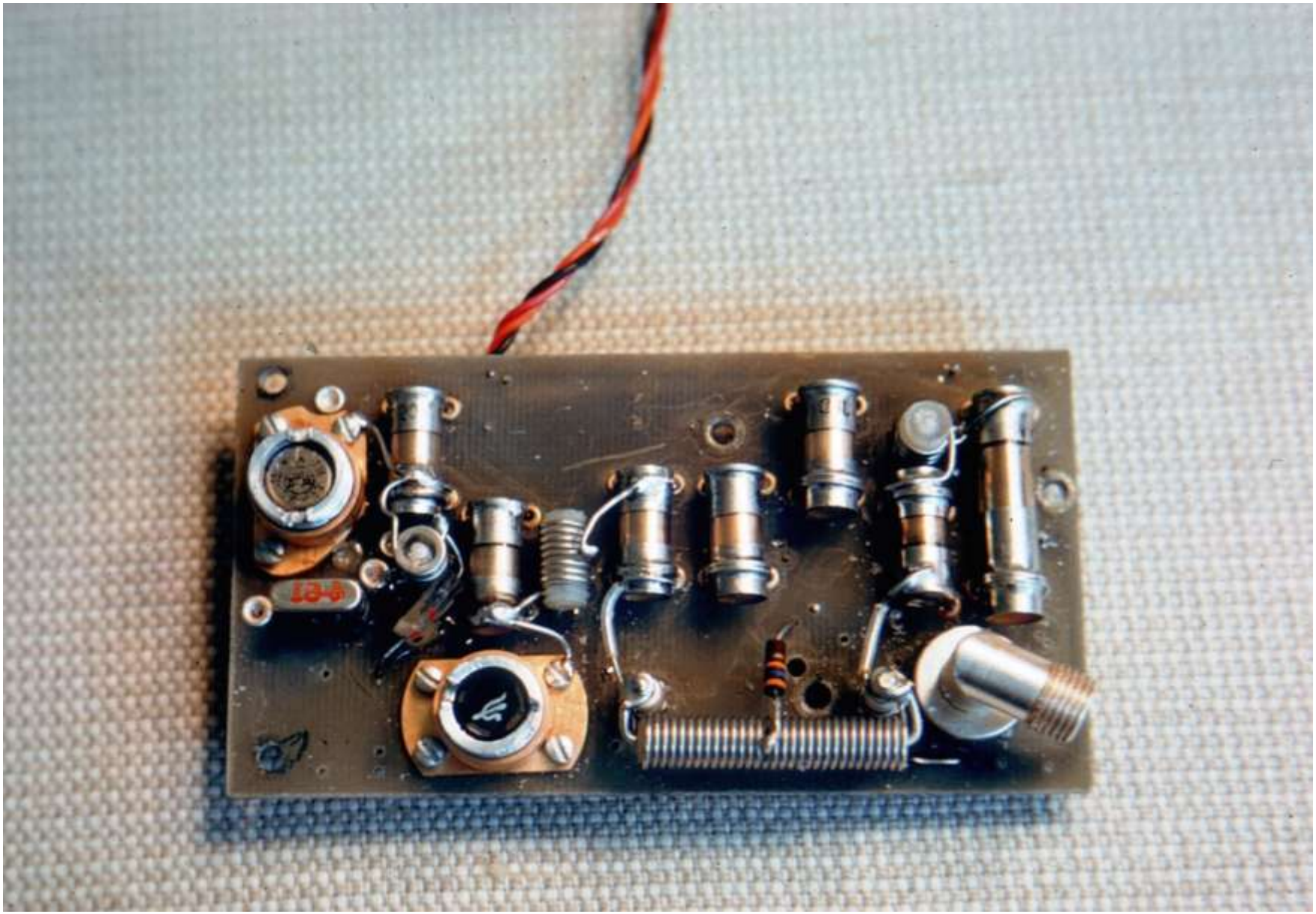
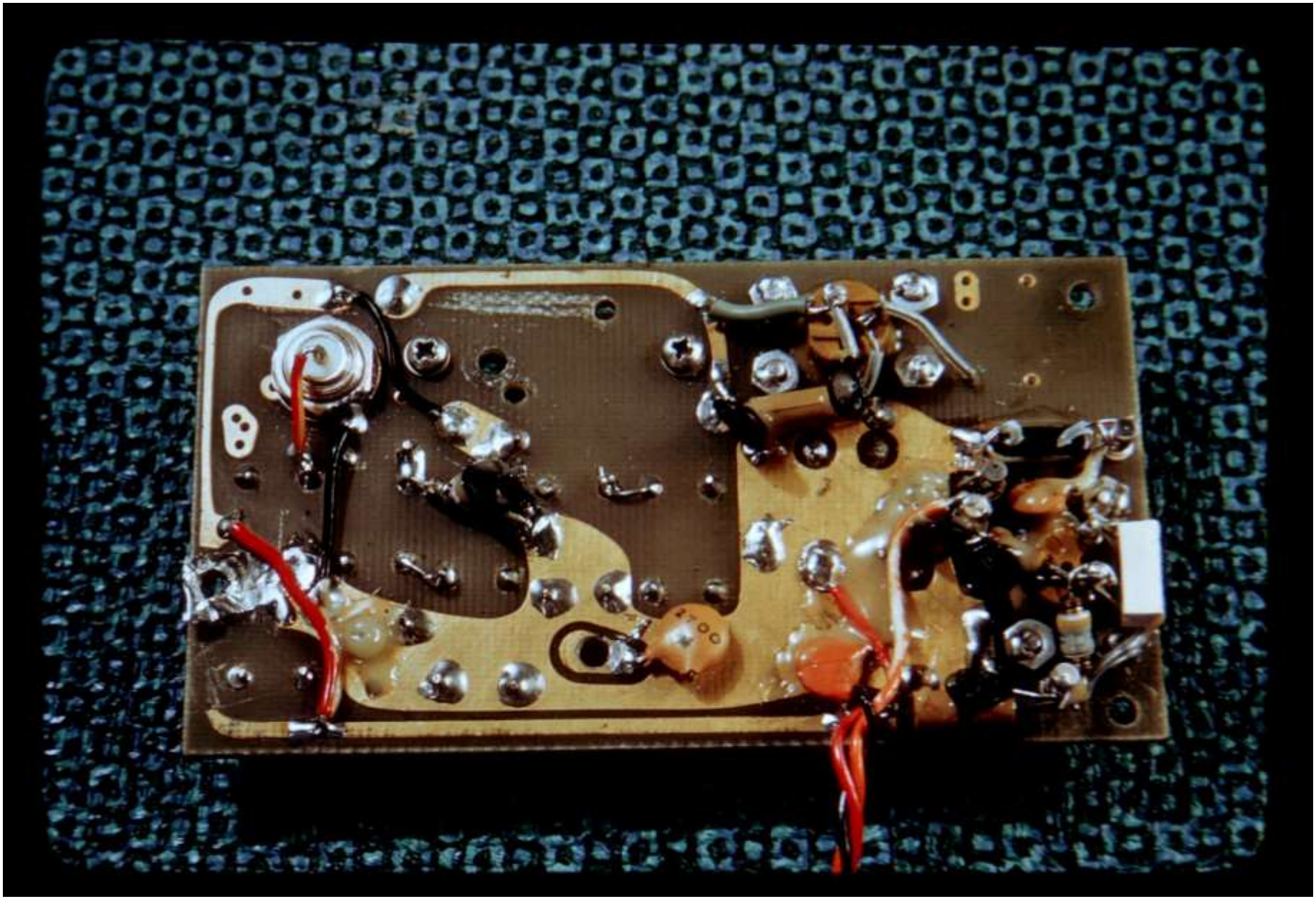
Project OSCAR original Board of Directors around 1960

Lance Ginner of Project OSCAR holding OSCAR 1

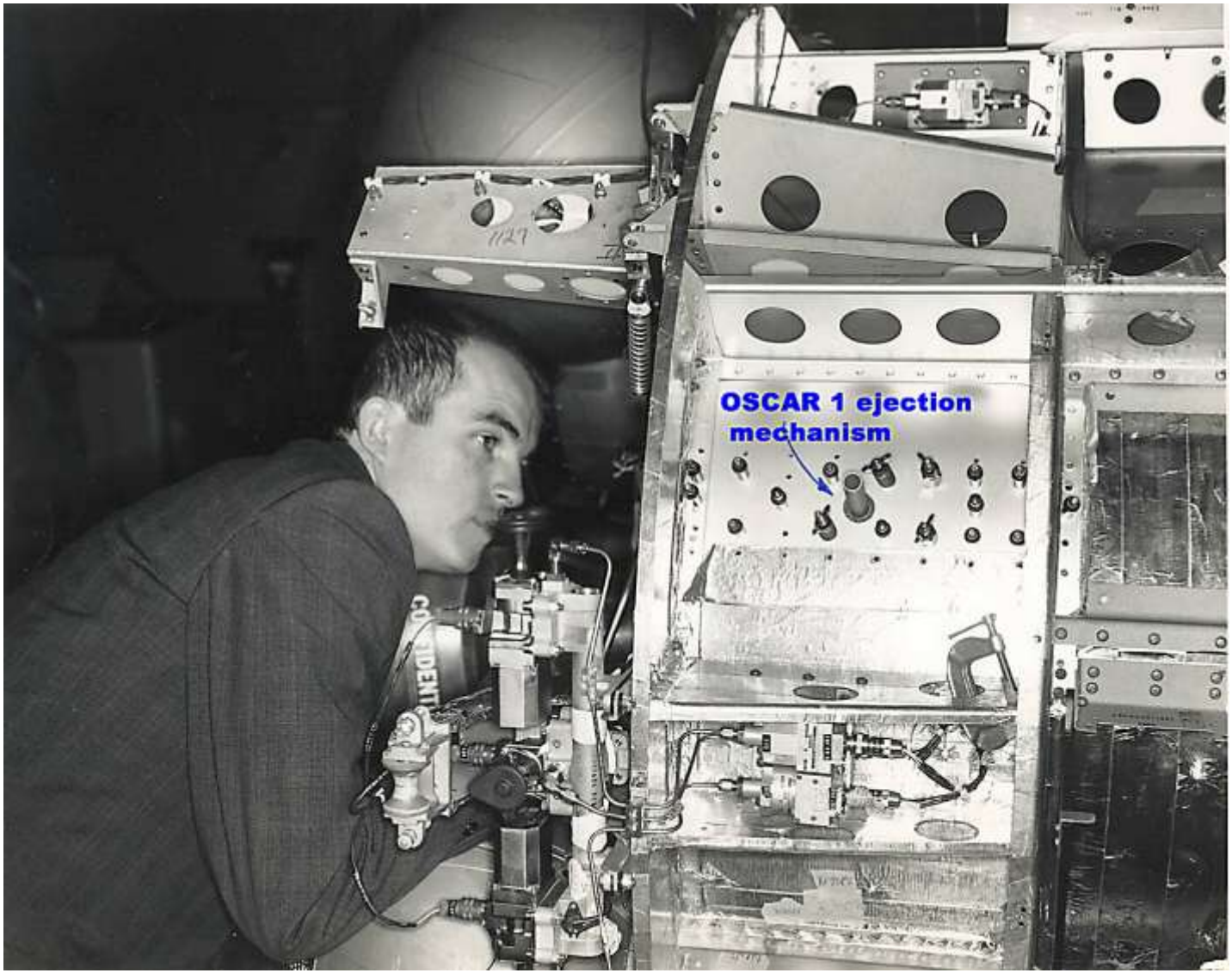
OSCAR 1 transmitter



OSCAR 1 transmitter (bottom)

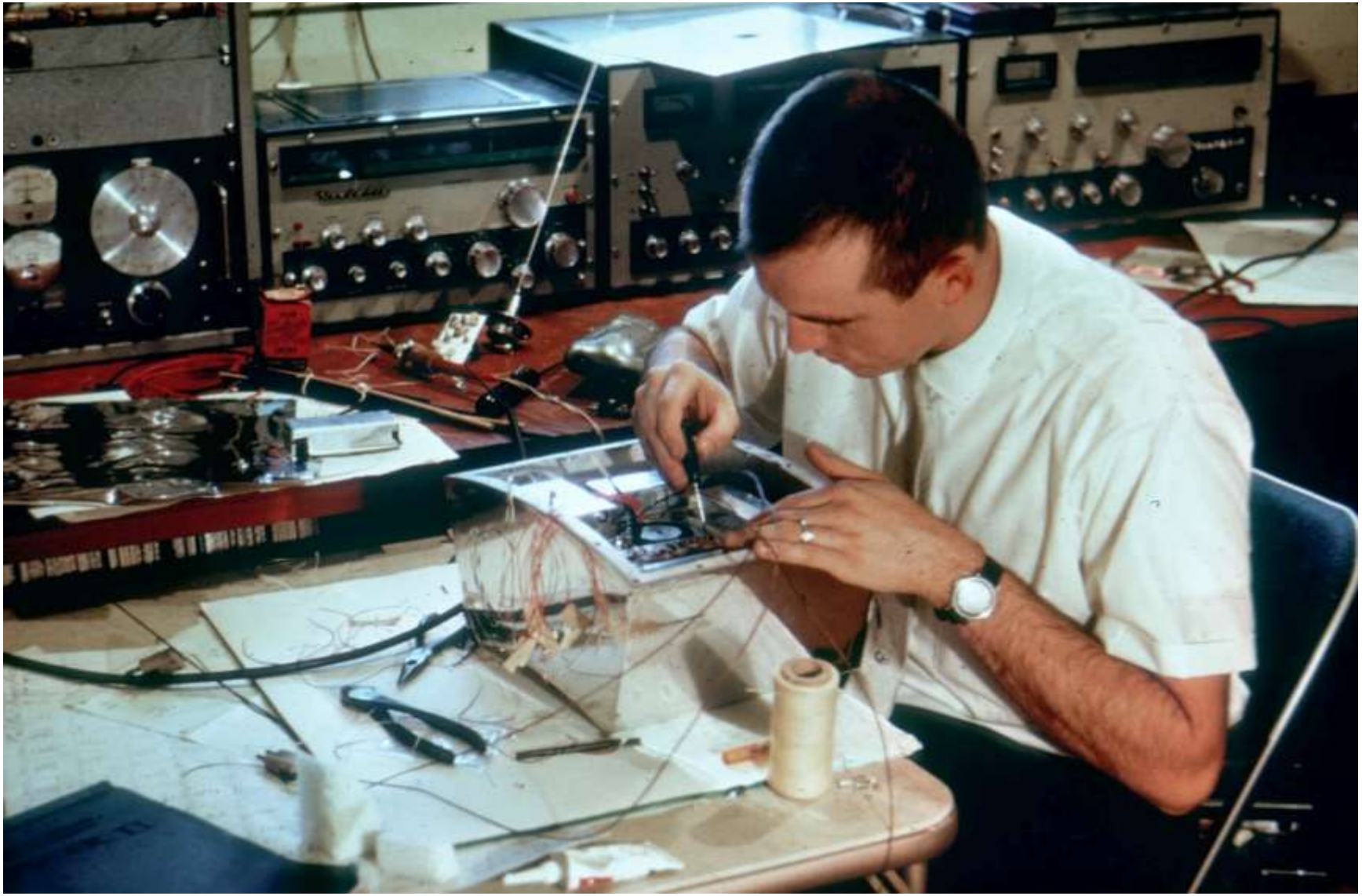


Lance Ginner of Project OSCAR inspecting mount for OSCAR 1

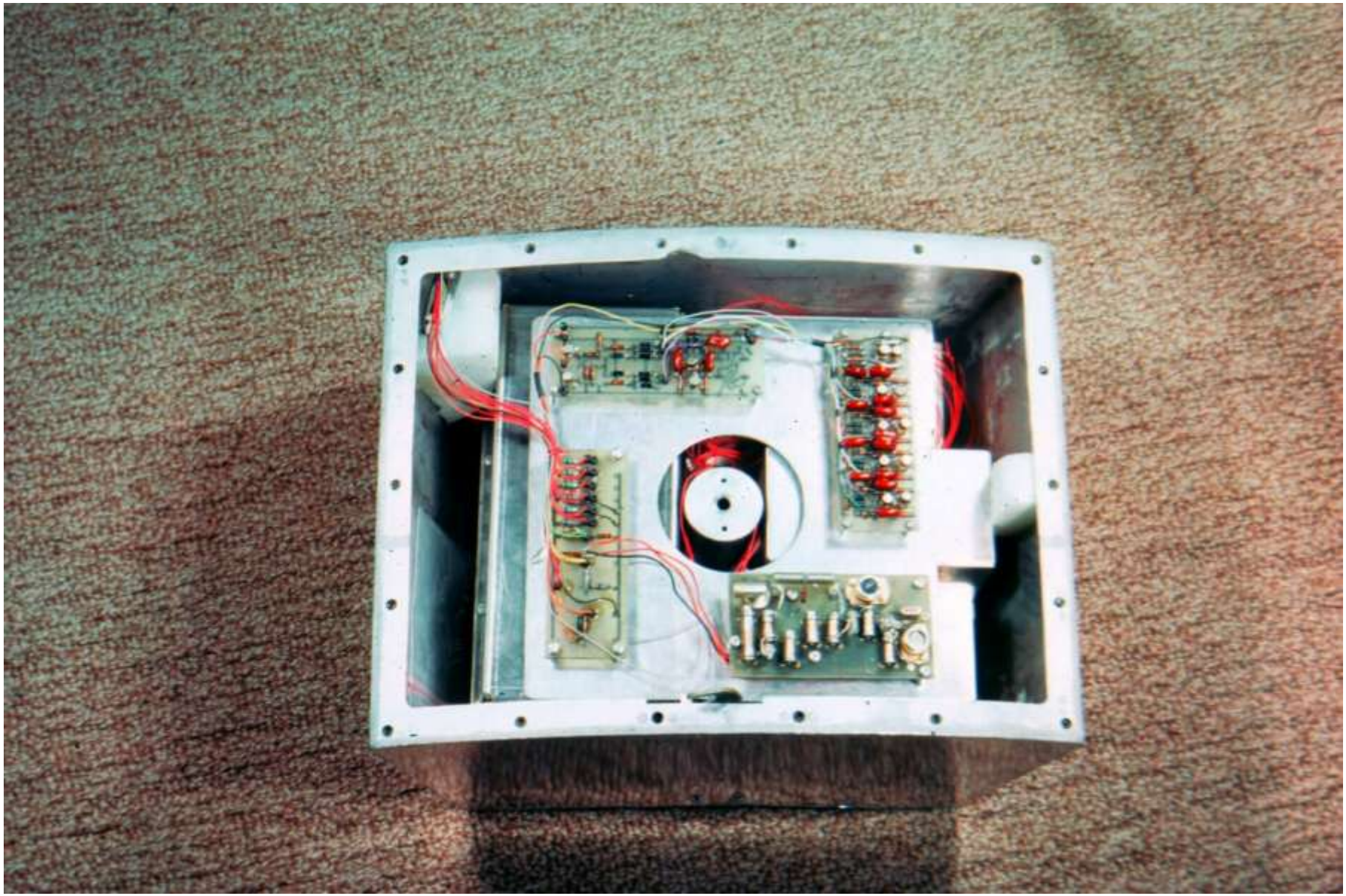


OSCAR 1 launch on Agena rocket Dec. 12, 1961 from Vandenburg AFB

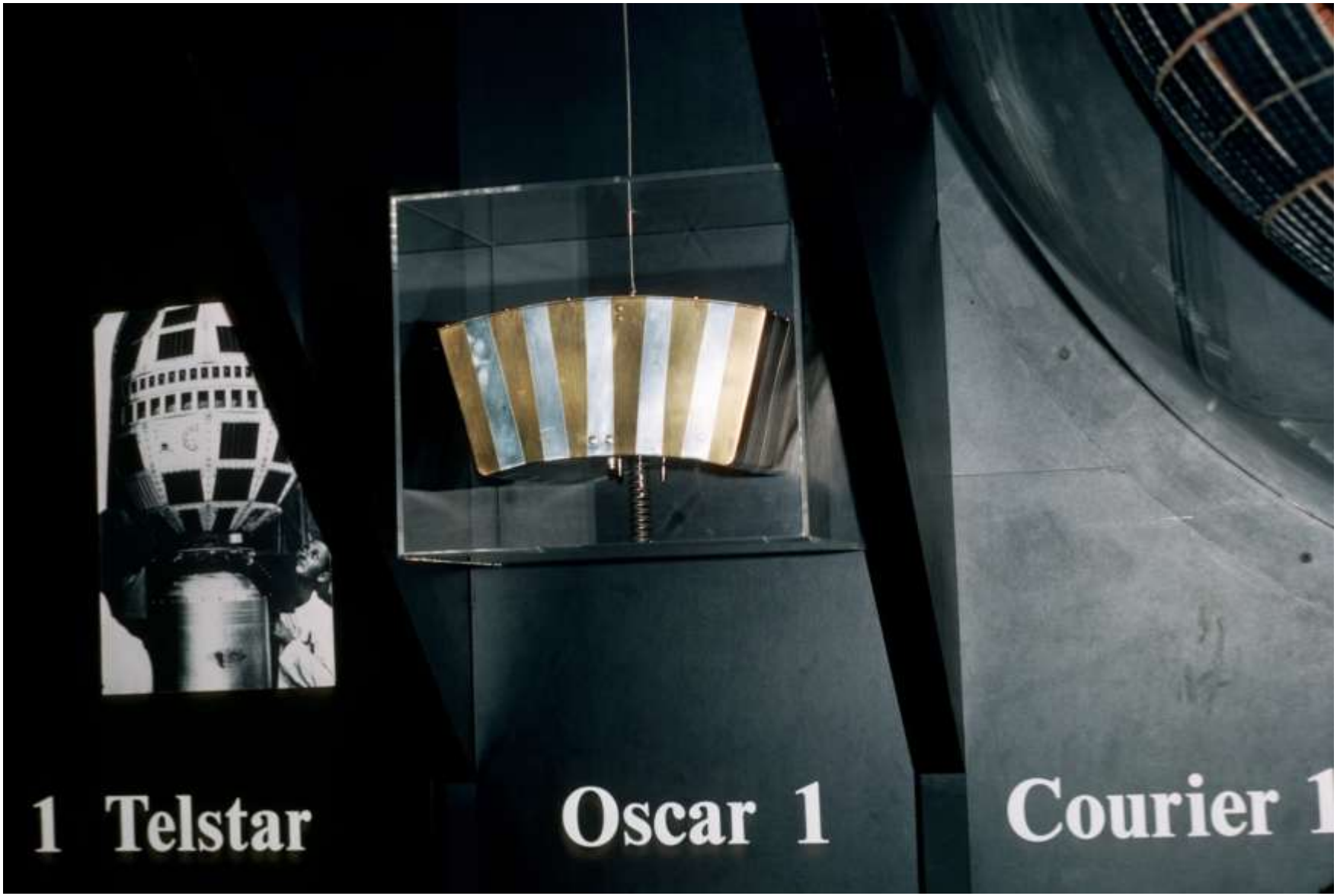
Lance Ginner of Project OSCAR constructing OSCAR 2



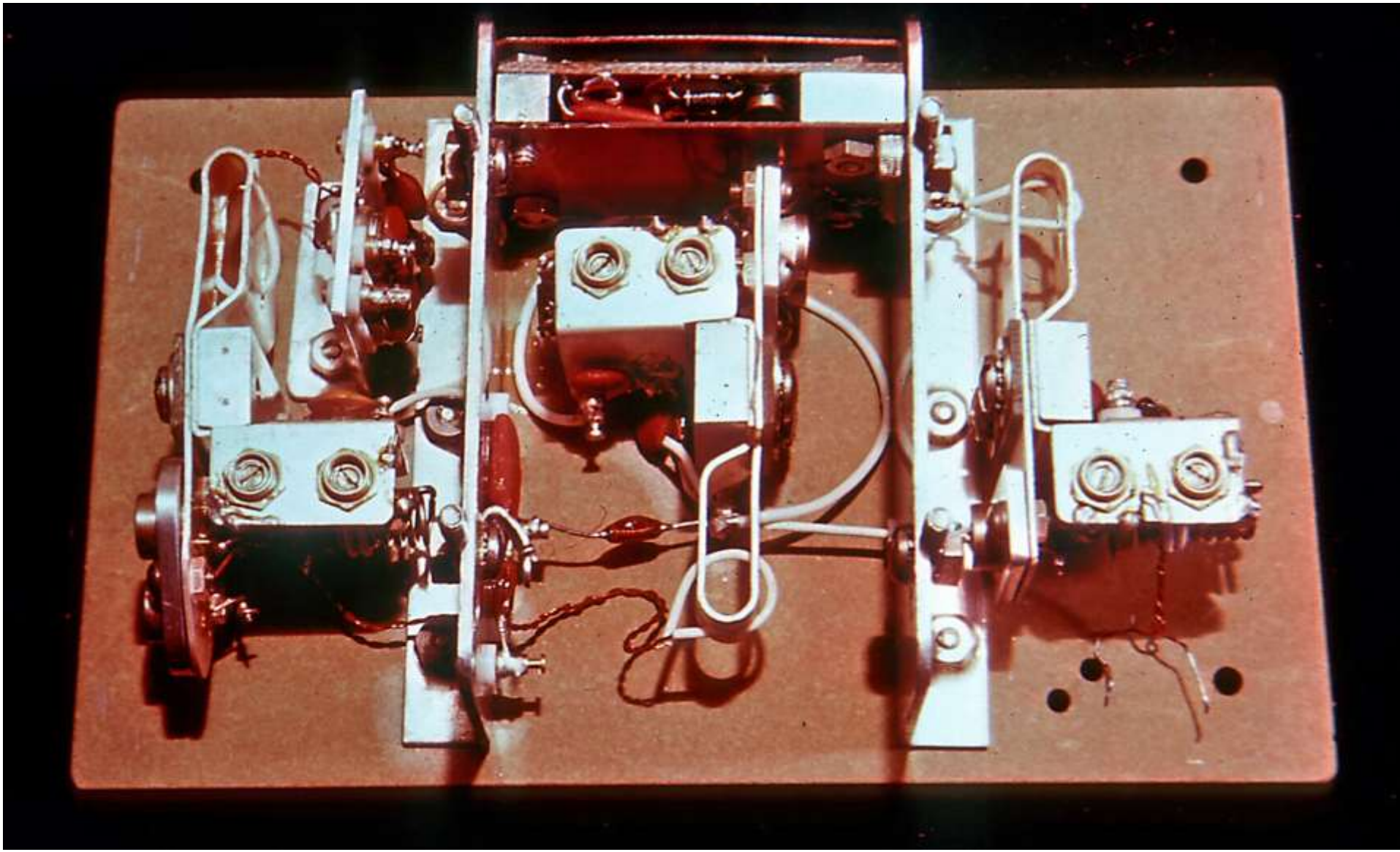
inside OSCAR 2



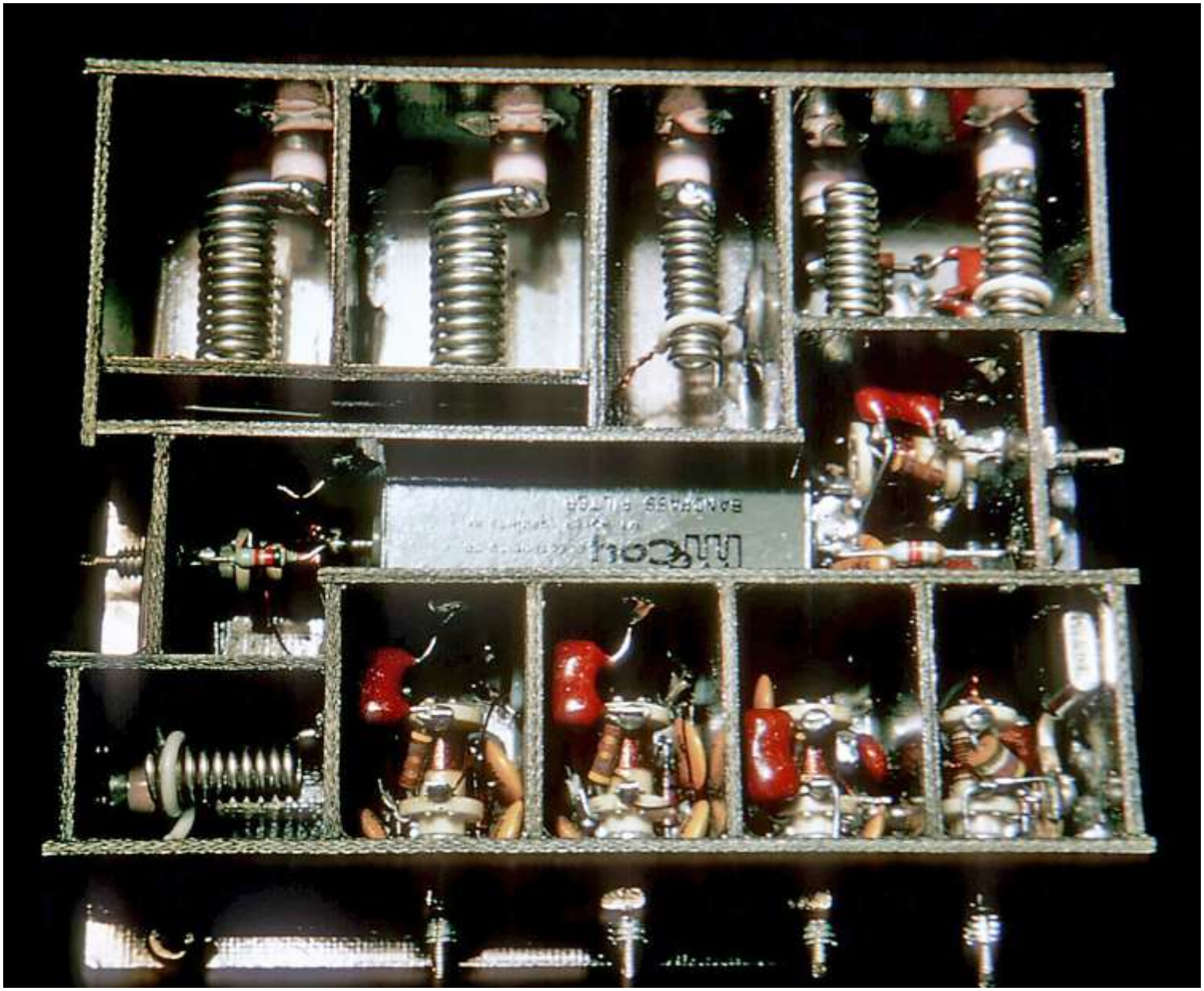
OSCAR 1 model on display at National Air and Space Museum (1976)



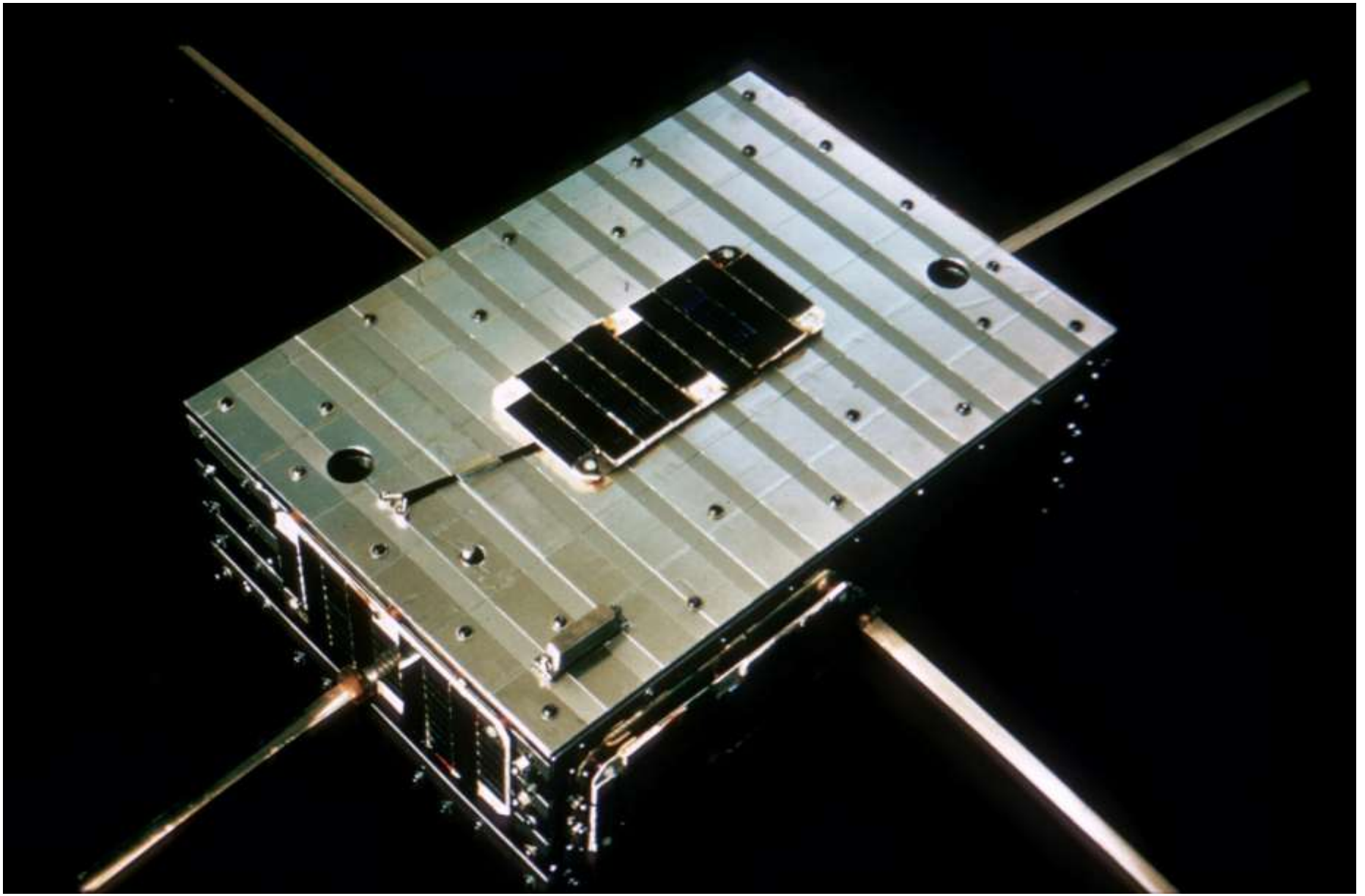
OSCAR 3 transmitter linear power amplifier



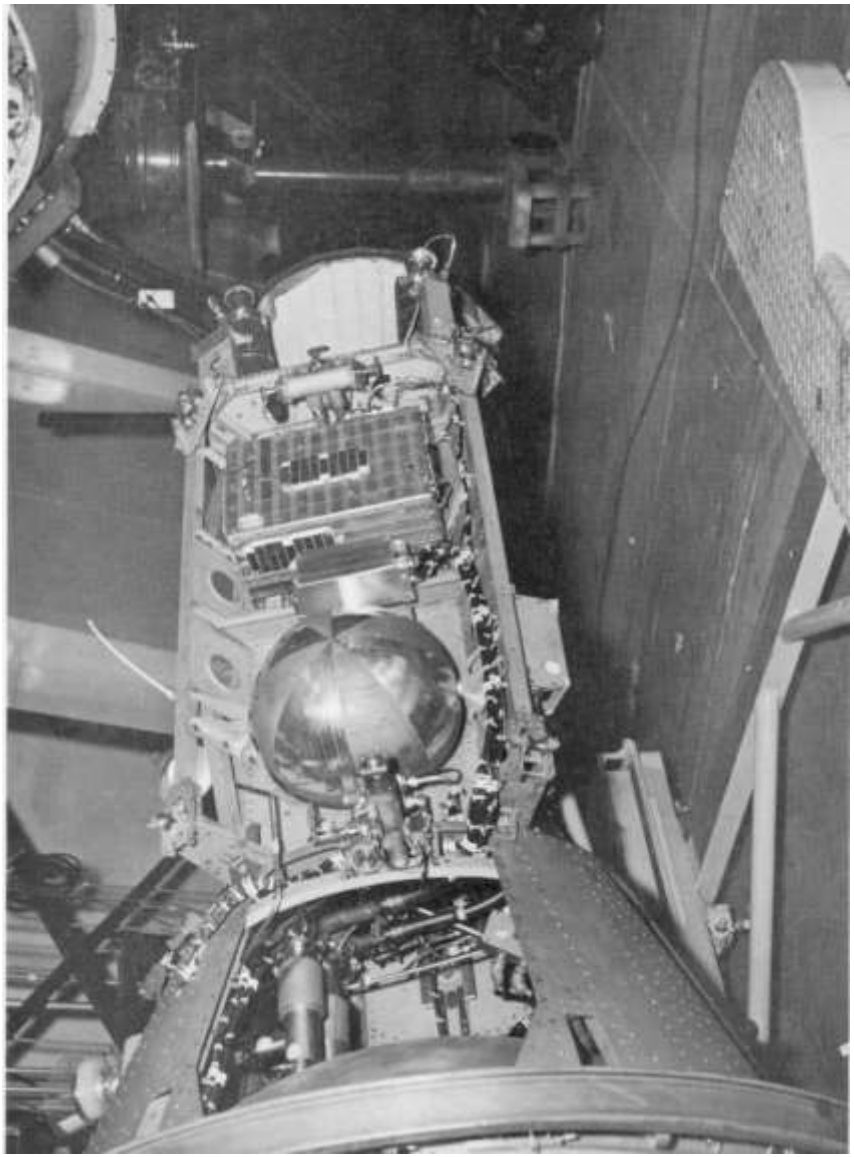
OSCAR 3 receiver IF section



OSCAR 3, launched March 9, 1965

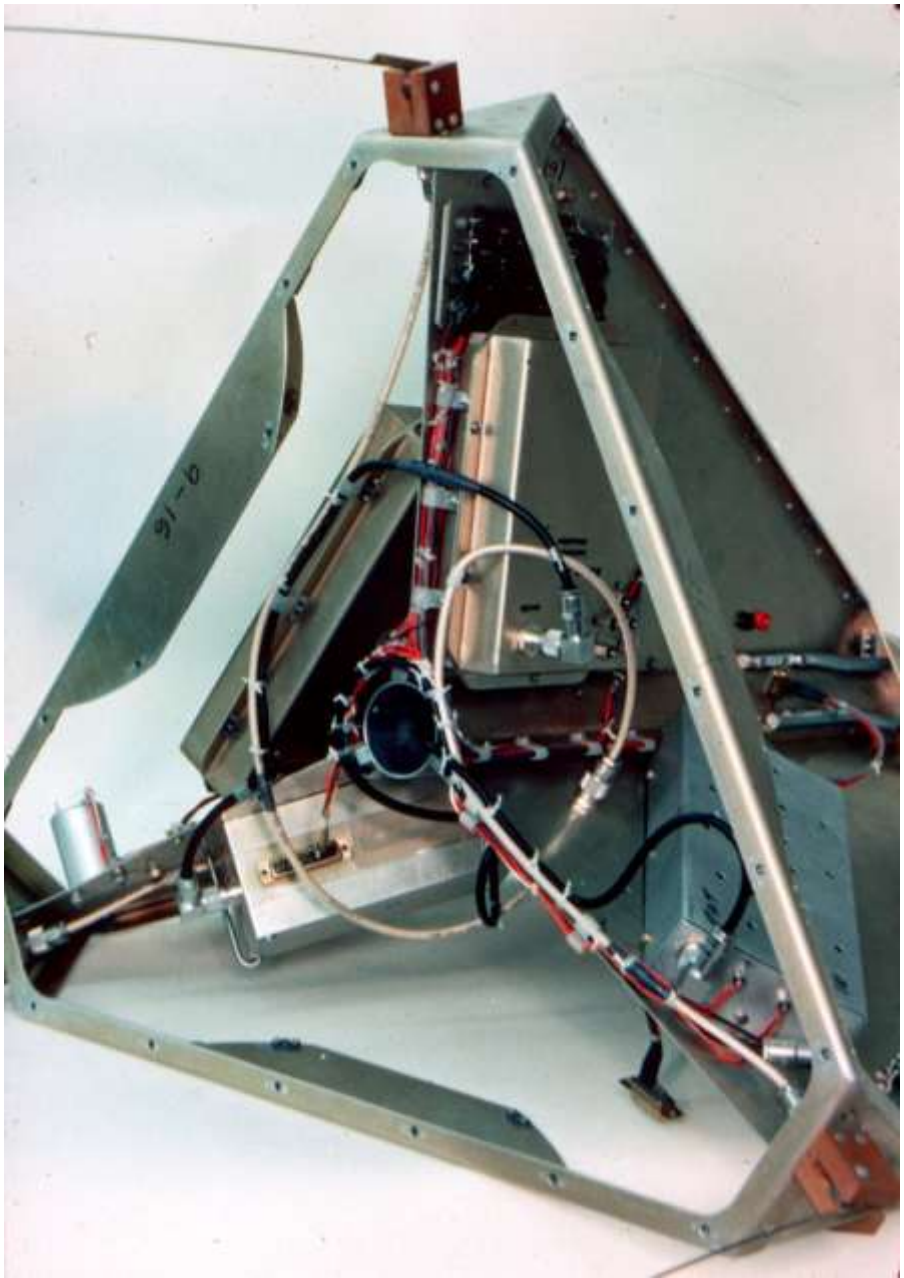


OSCAR 3 mounted in rocket. (launched March 9, 1965)

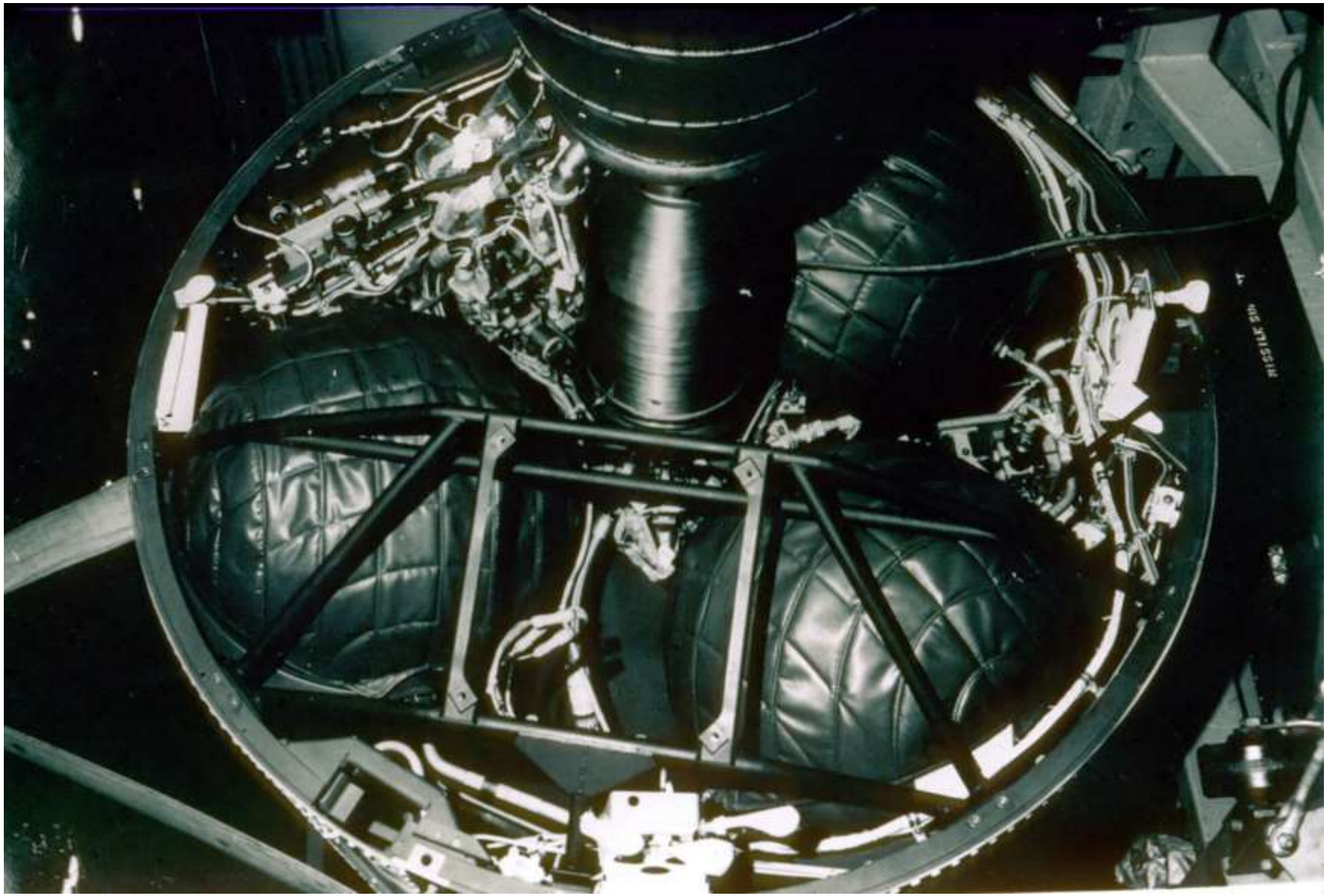


OSCAR 4 team
OSCAR 4 was launched Dec. 21, 1965

Inside OSCAR 4



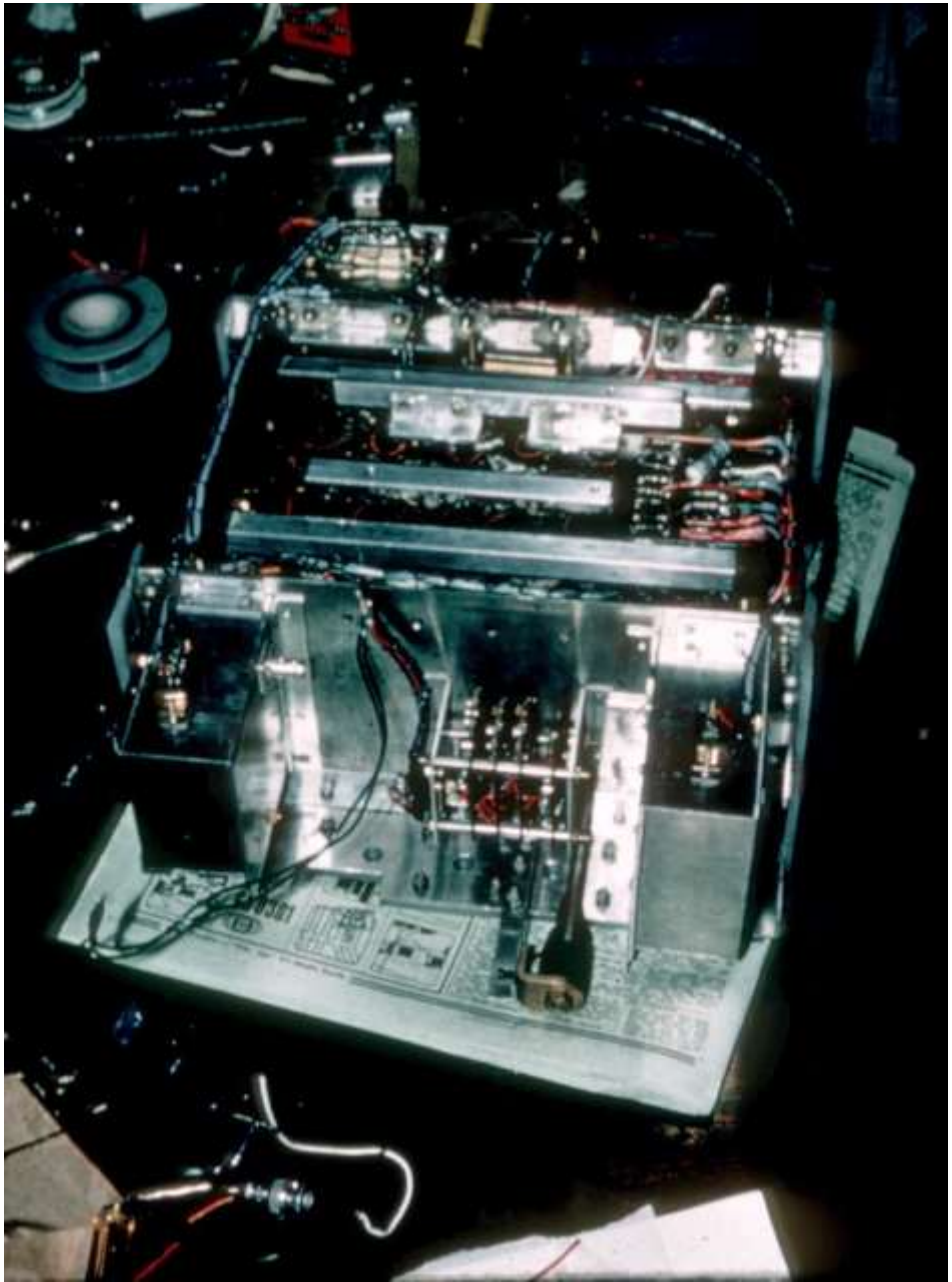
OSCAR 4 mounted in rocket (Launched Dec. 21, 1965)



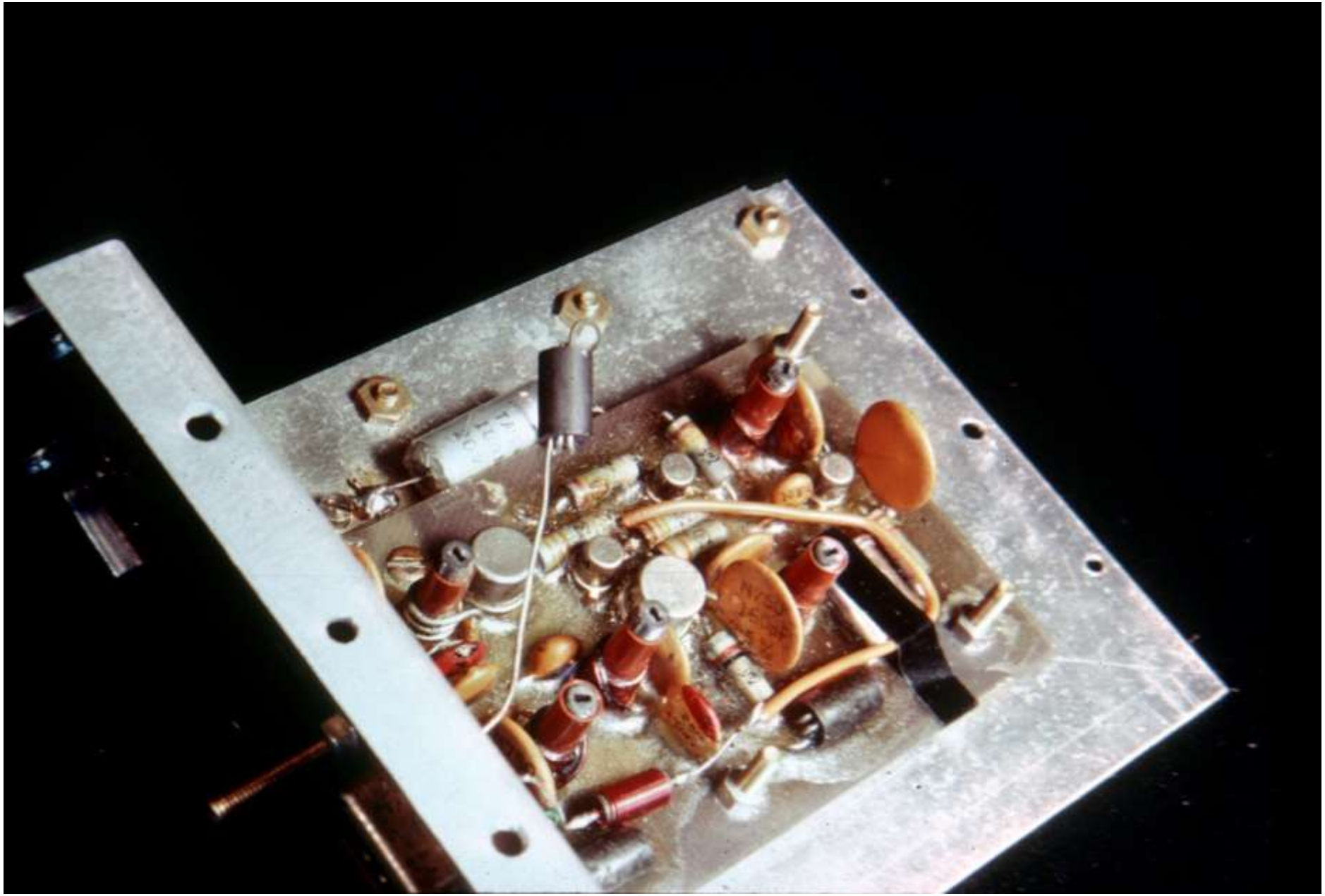
Delivery of Australis-OSCAR 5 to USA

First AMSAT Board of Directors (1969)

Australis-OSCAR 5 structure



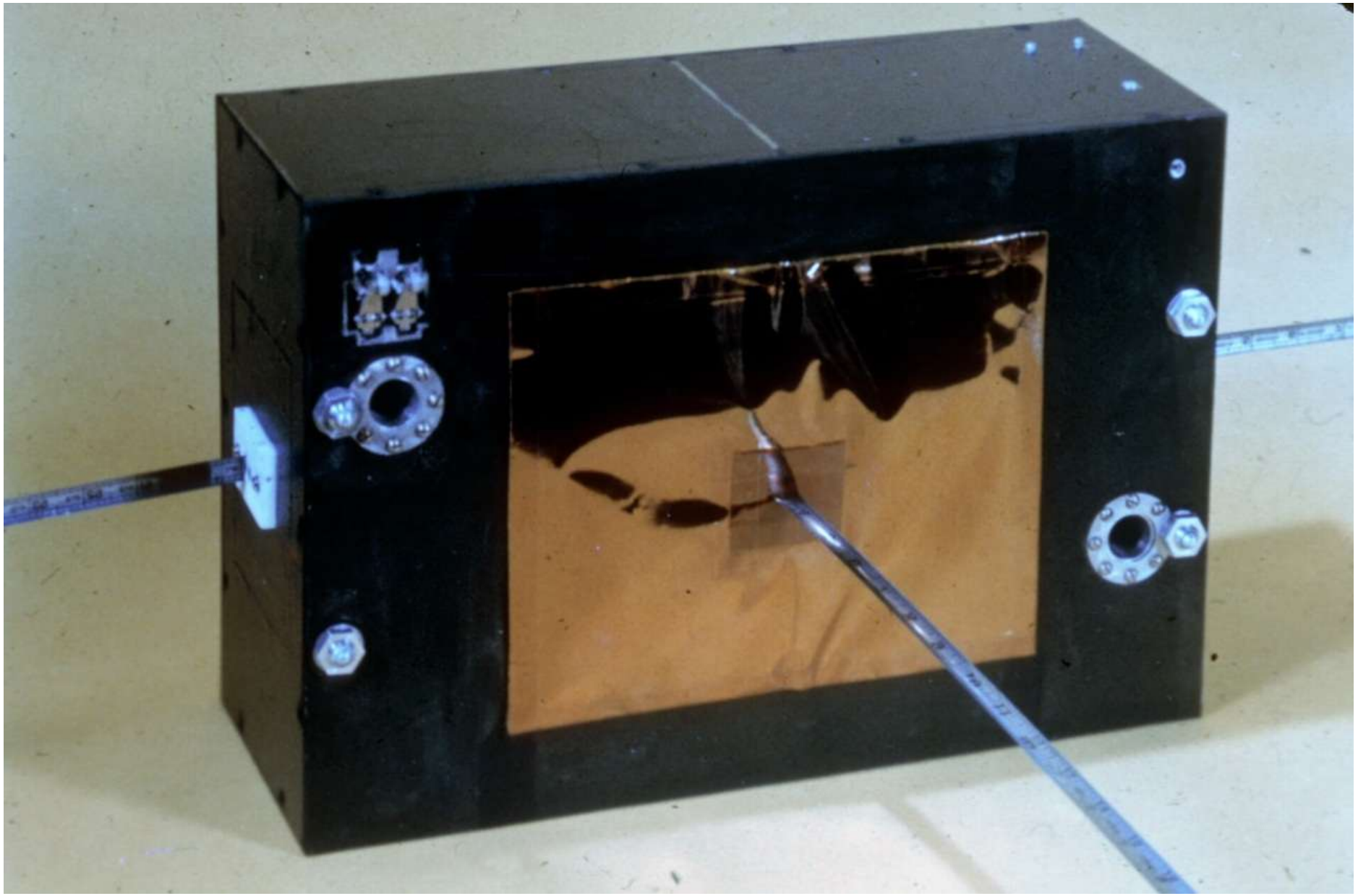
Australis-OSCAR 5 electronics



Australis-OSCAR 5 checkout

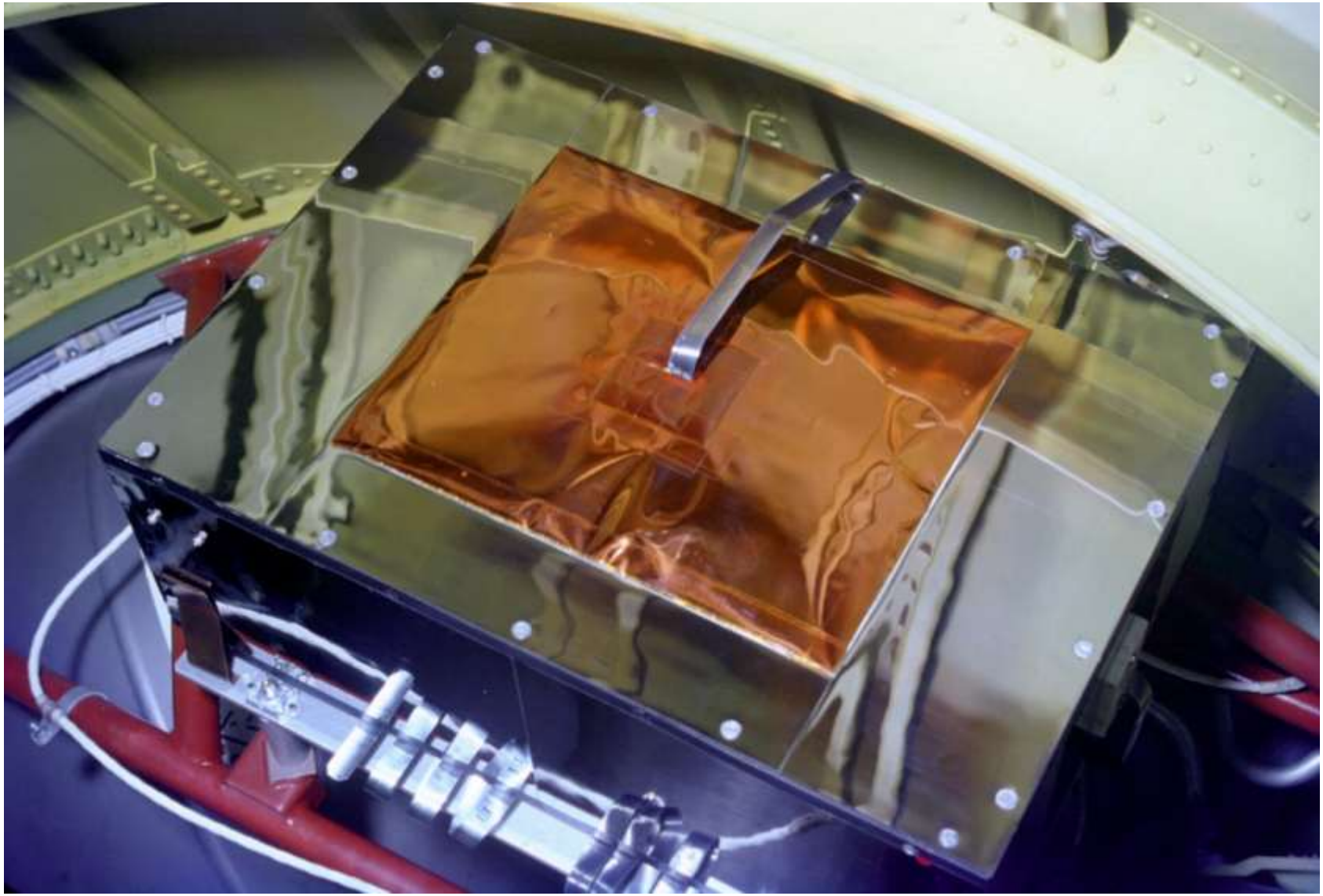
Australis-OSCAR 5 on display

Australis-OSCAR 5 satellite



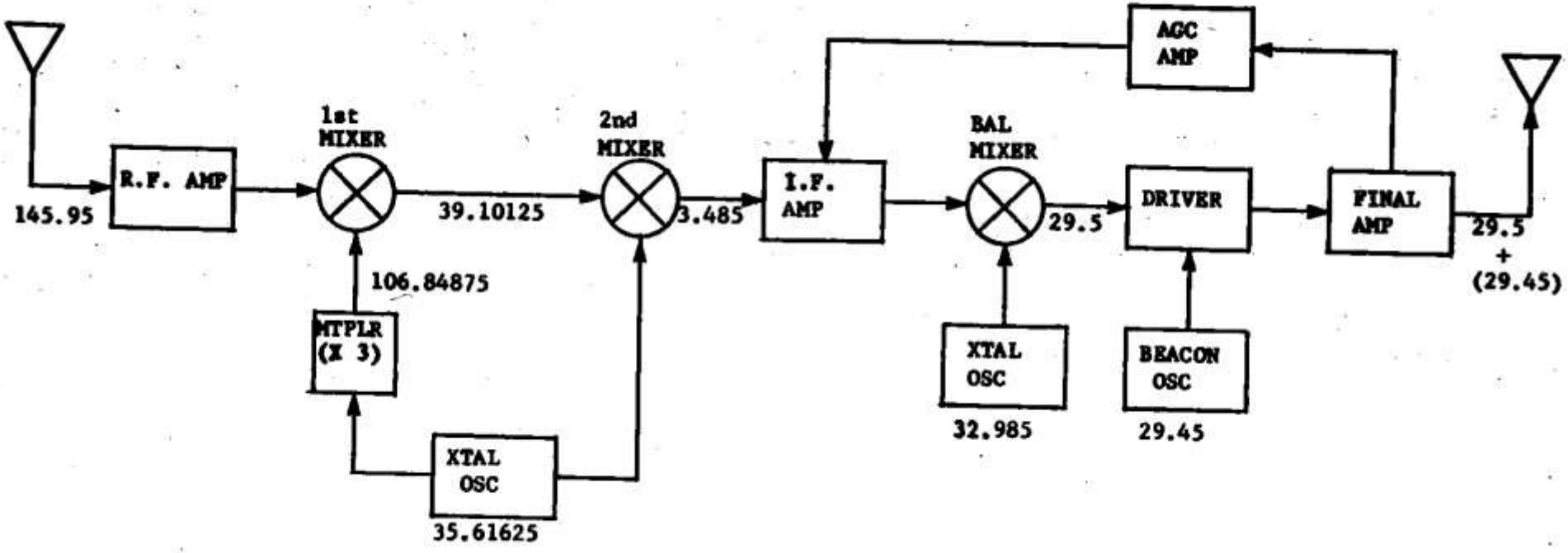
Mounting Australis-OSCAR 5 in Delta rocket

Australis-OSCAR 5 mounted in NASA Delta rocket (launched Jan 23, 1970)



Dick Daniels building AMSAT-OSCAR-6 2-to-10-meter Transponder

A-O-6 2-to-10-meter transponder schematic diagram

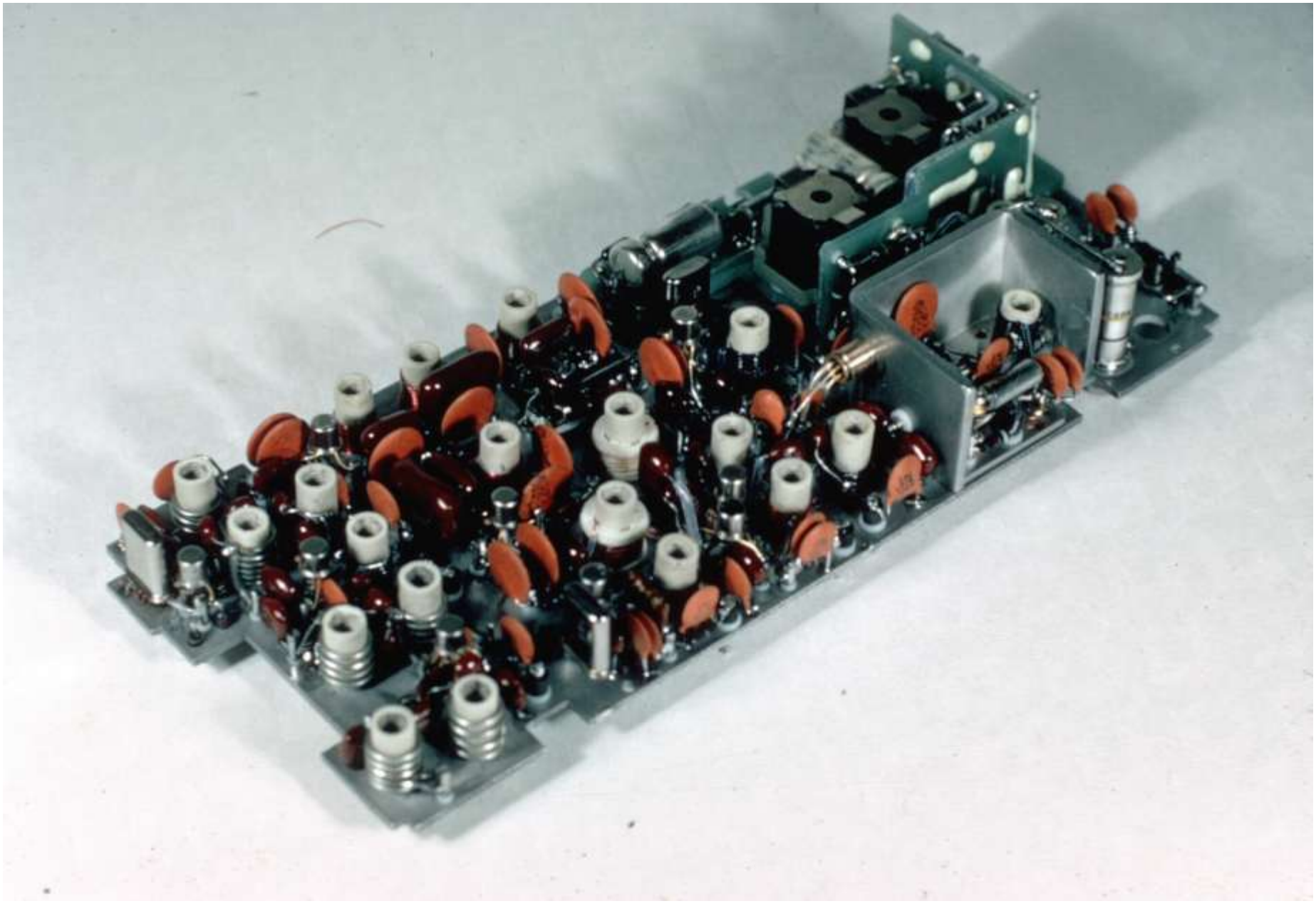


Basic Block Diagram of the AMSAT 2-10 meter linear Repeater

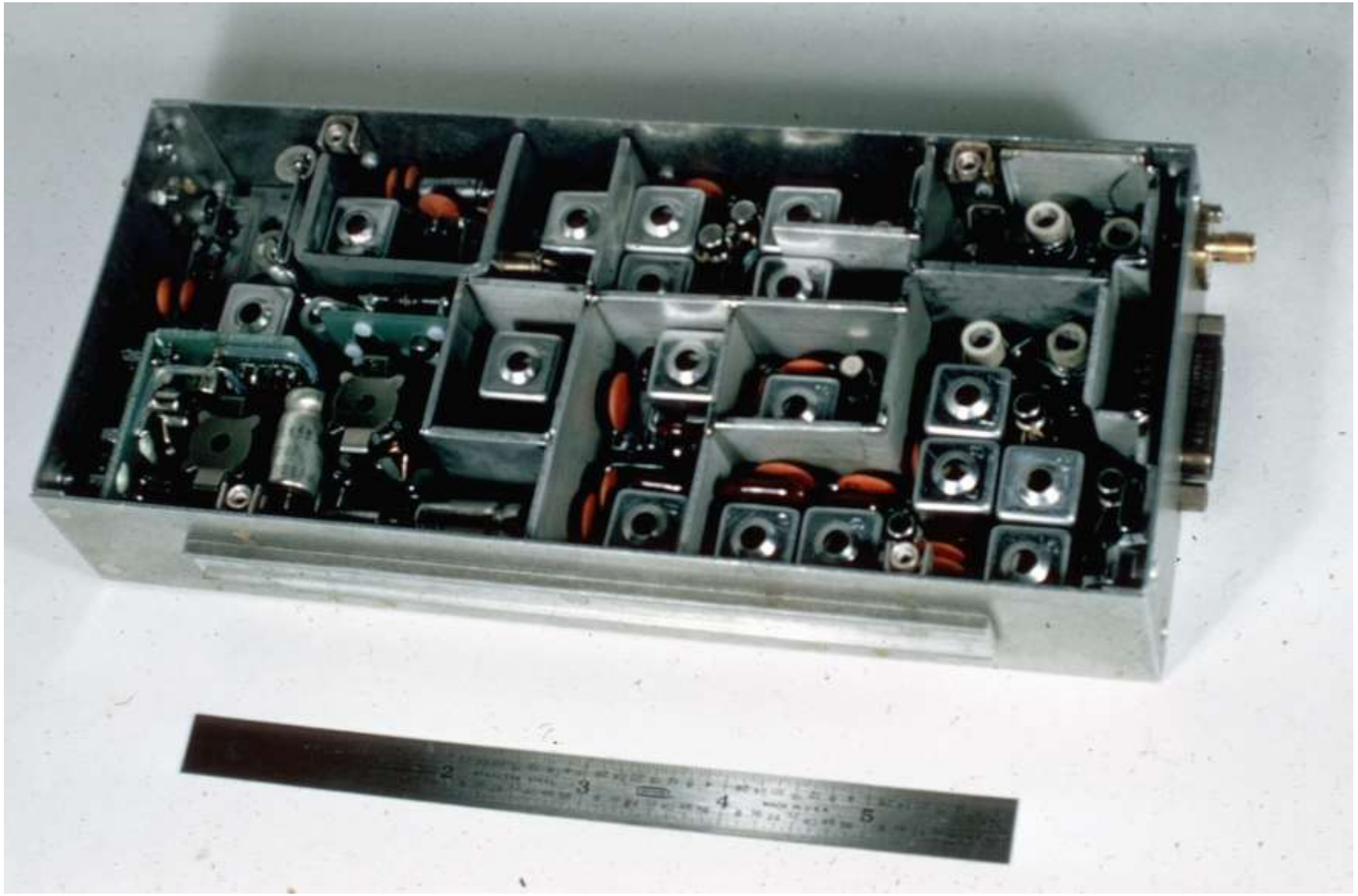
To determine repeater output frequency

1. Determine difference between input frequency and 145.95 MHz.
2. If input frequency is above 145.95 MHz, subtract difference from 29.5 MHz.
3. If input frequency is below 145.95 MHz, add difference to 29.5 MHz.

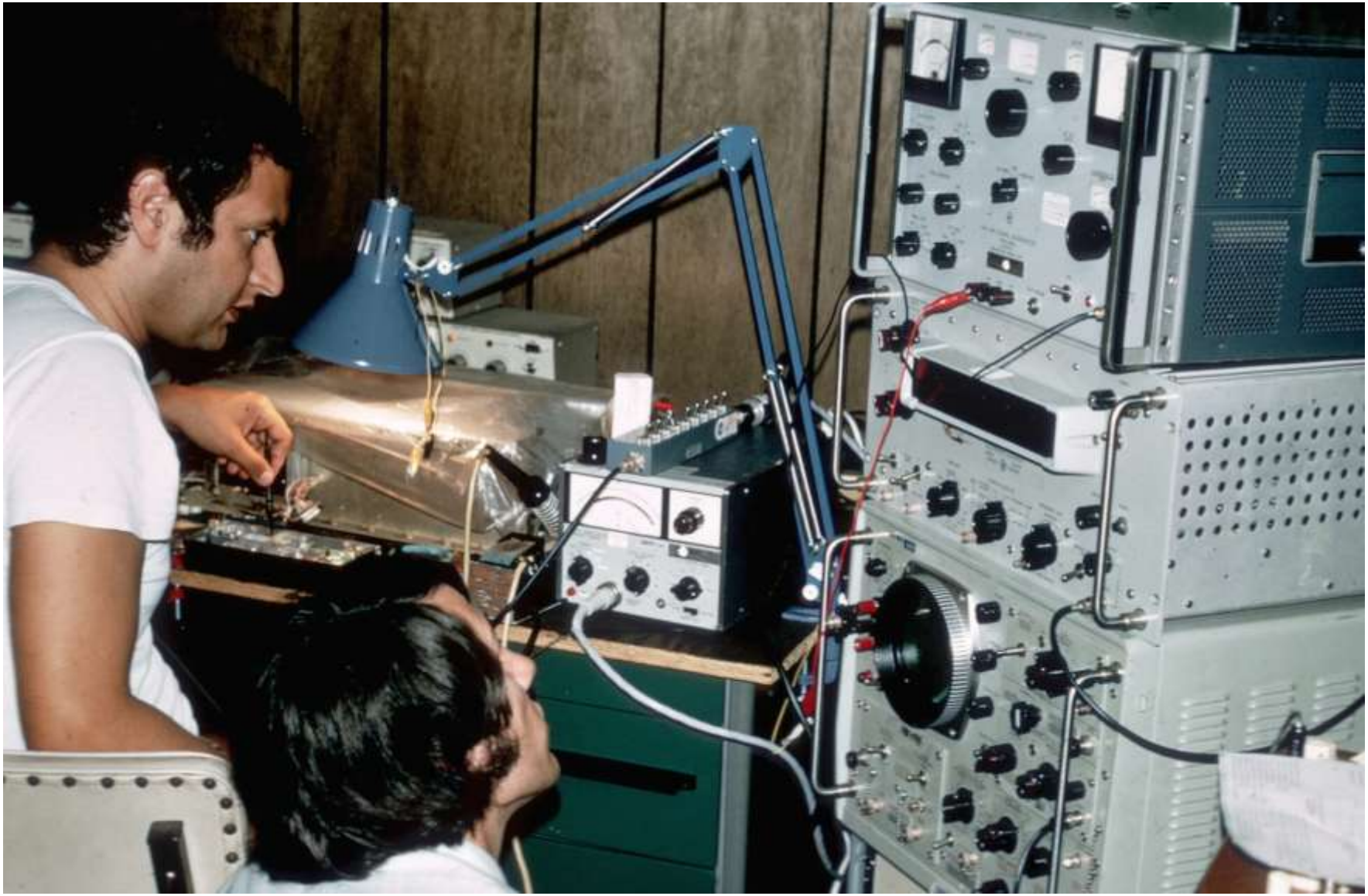
A-O-6 2-to-10-meter transponder



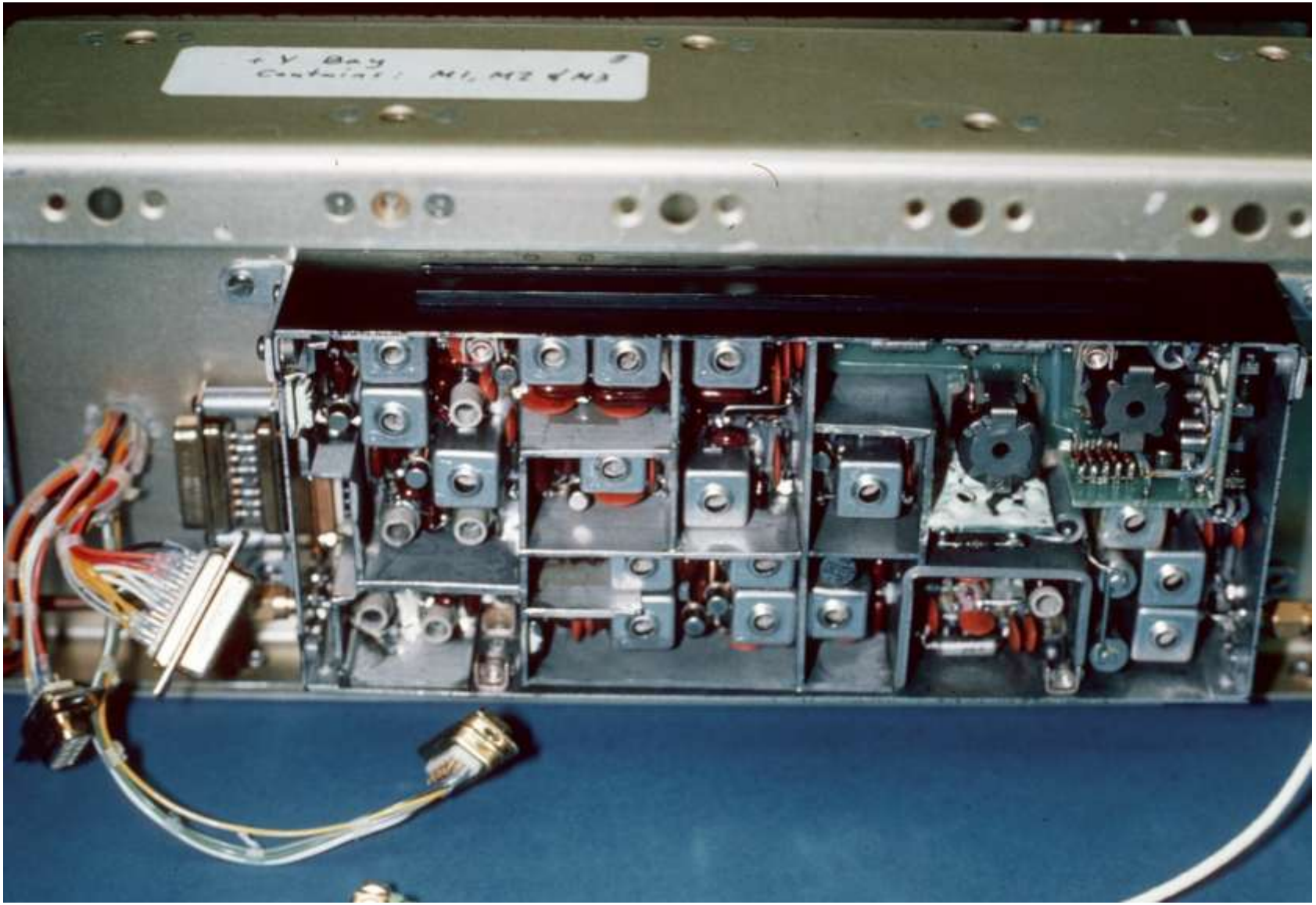
A-O-6 2-to-10-meter transponder in its enclosure



Perry Klein and Jan King testing 2-to-10-meter transponder

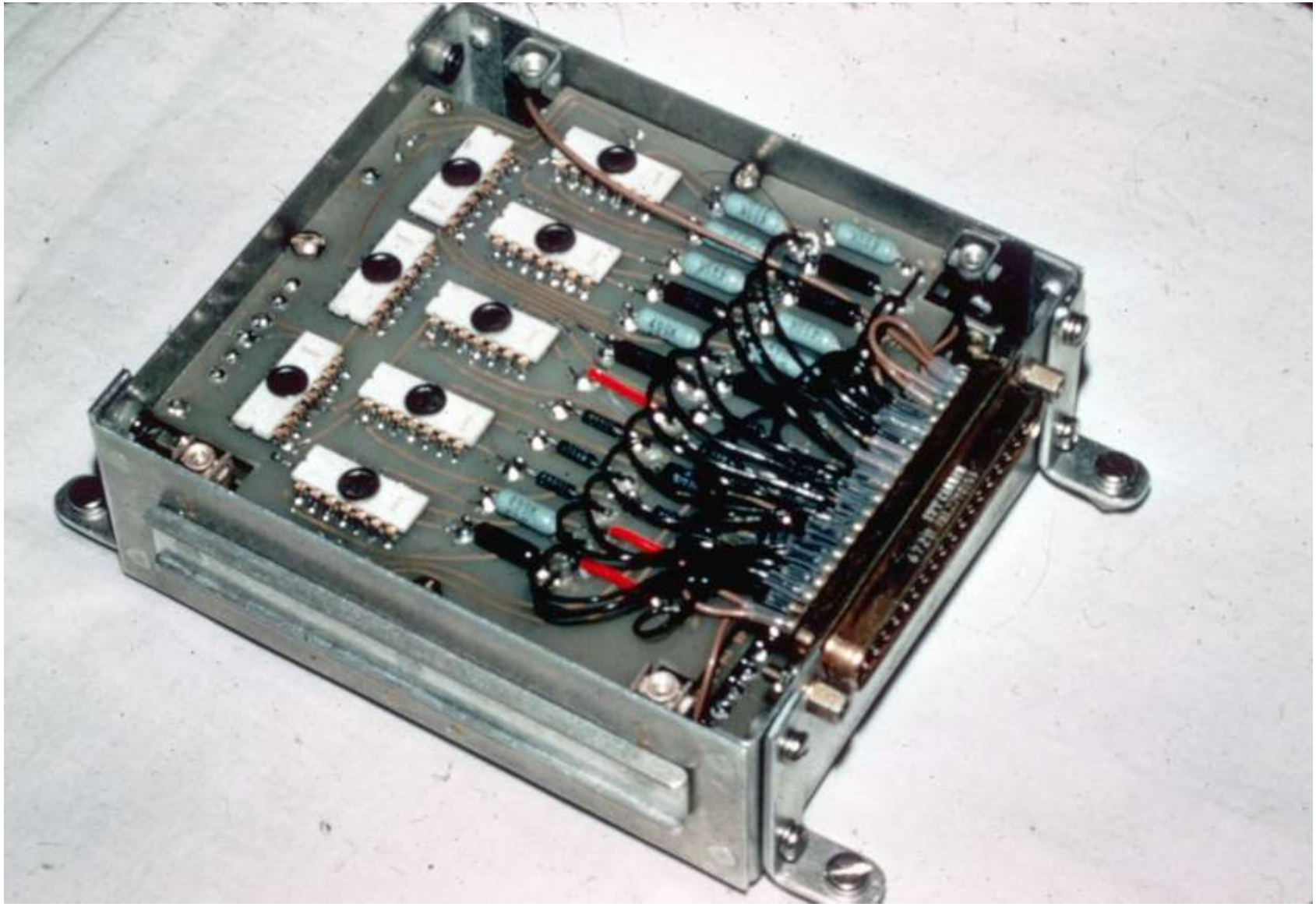


2-to-10-meter transponder mounted on AMSAT-OSCAR 6

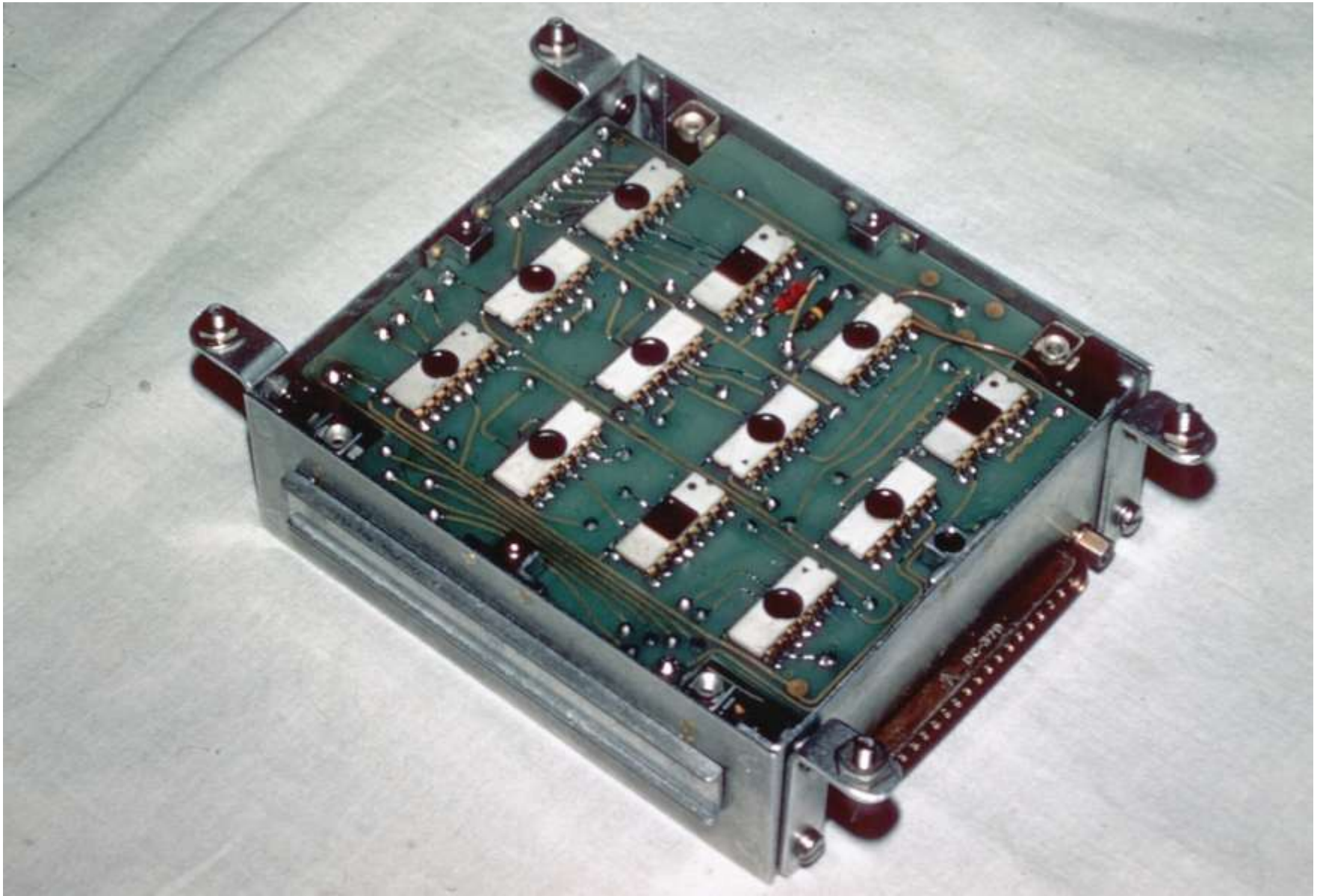


AMSAT-OSCAR 6 structure

AMSAT-OSCAR 6
Morse code telemetry encoder (top)



AMSAT-OSCAR 6 Morse code telemetry encoder (bottom)



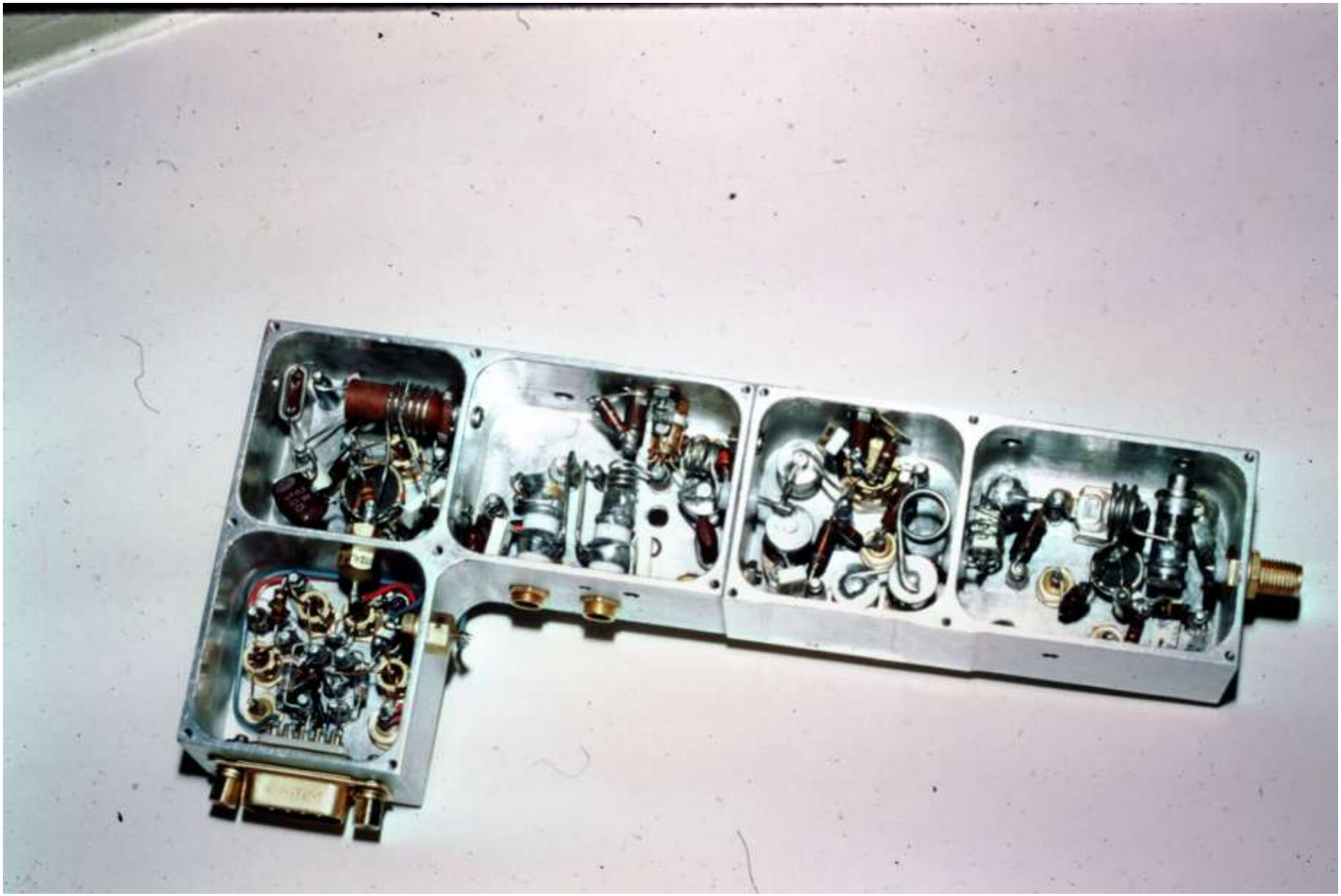
Sample frame of AMSAT-OSCAR-6 Morse Code telemetry data

Sample Frame of Morse Code Telemetry Data

HI	171	118	139	156	
	248	200	297	214	
	362	377	324	380	
	431	499	400	404	
	586	570	562	543	
	622	619	638	637	HI

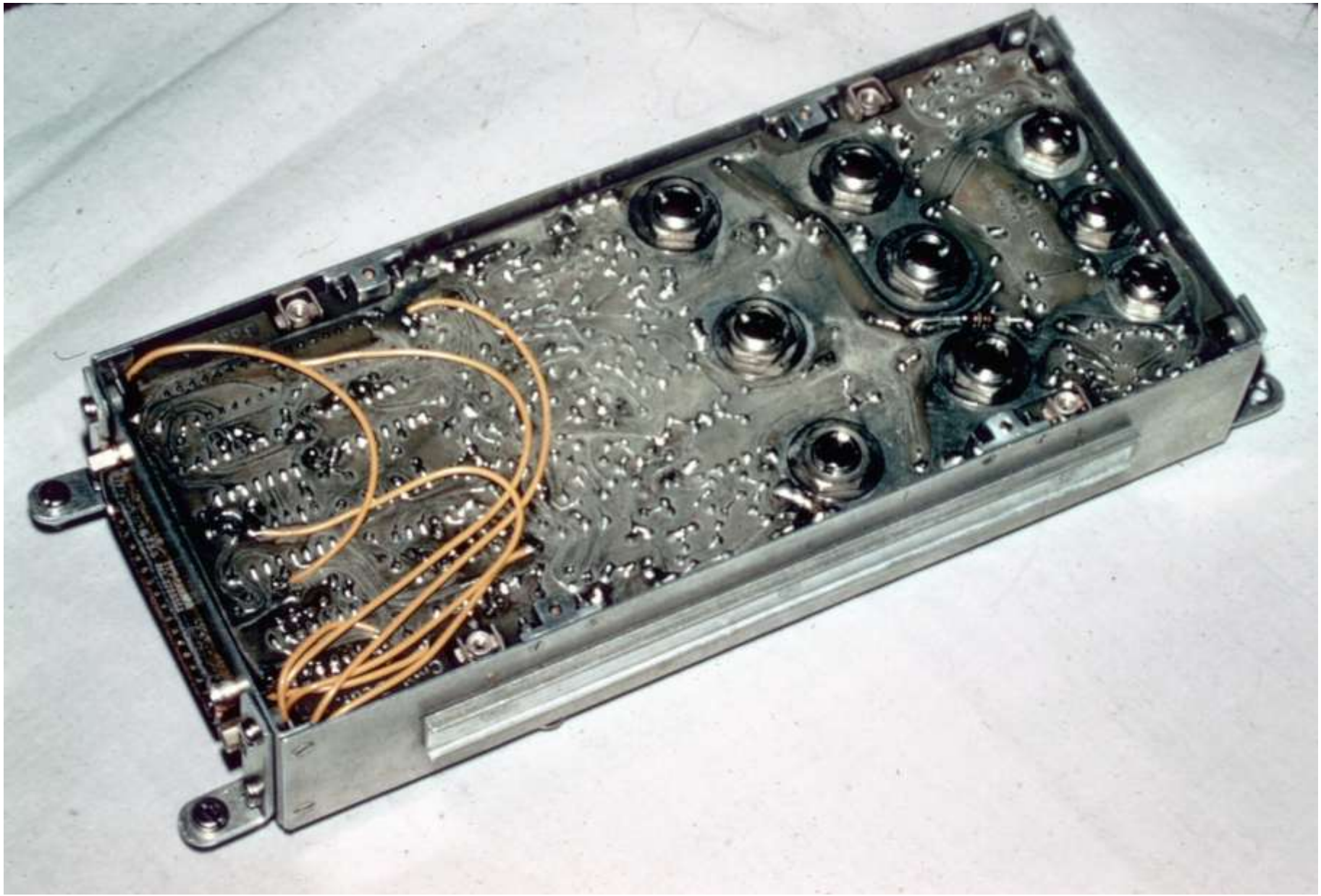
Project Manager Jan King troubleshooting AMSAT-OSCAR 6

AMSAT-OSCAR-6 70-cm beacon

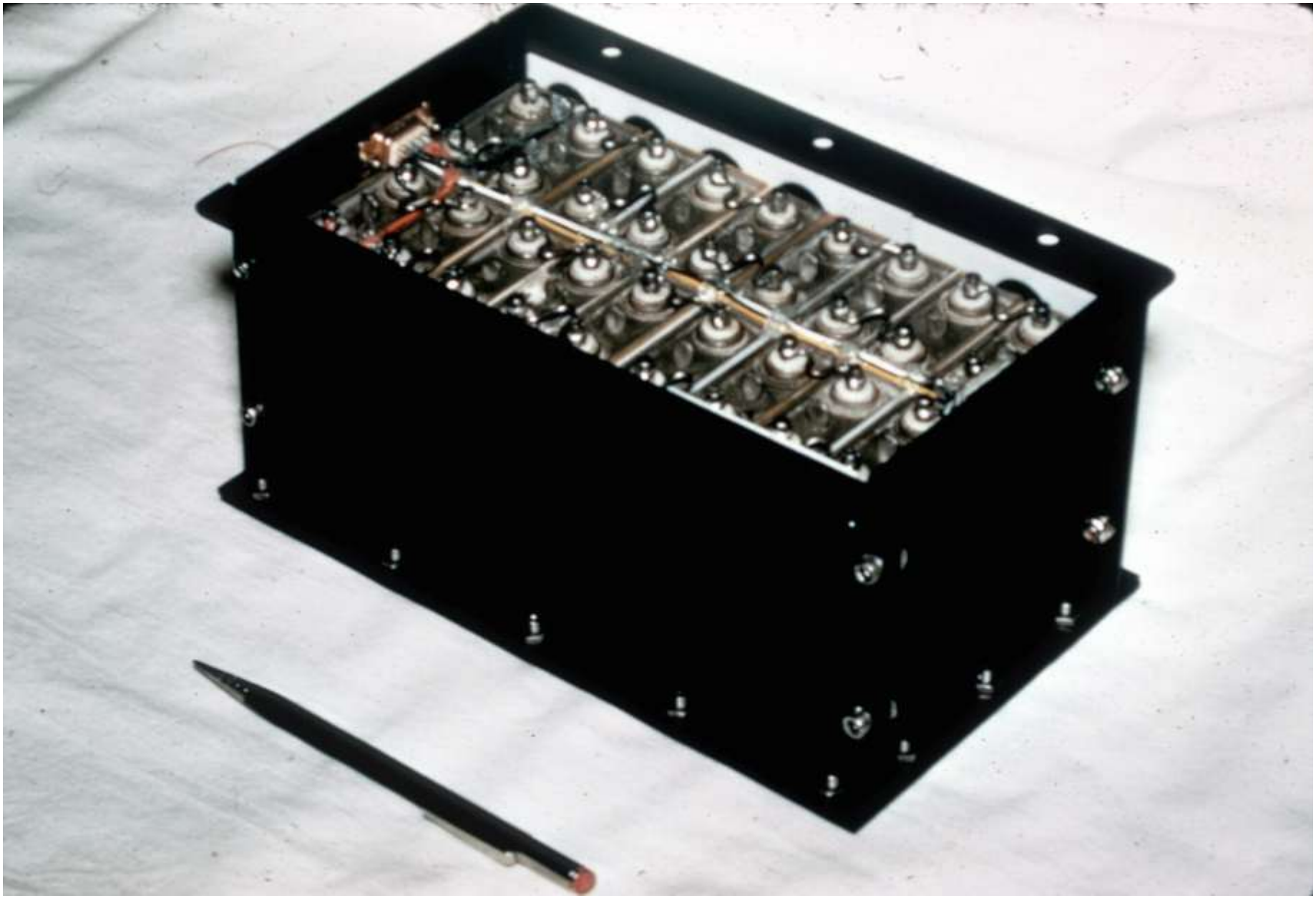


Gary Hendrickson with AMSAT-OSCAR 6

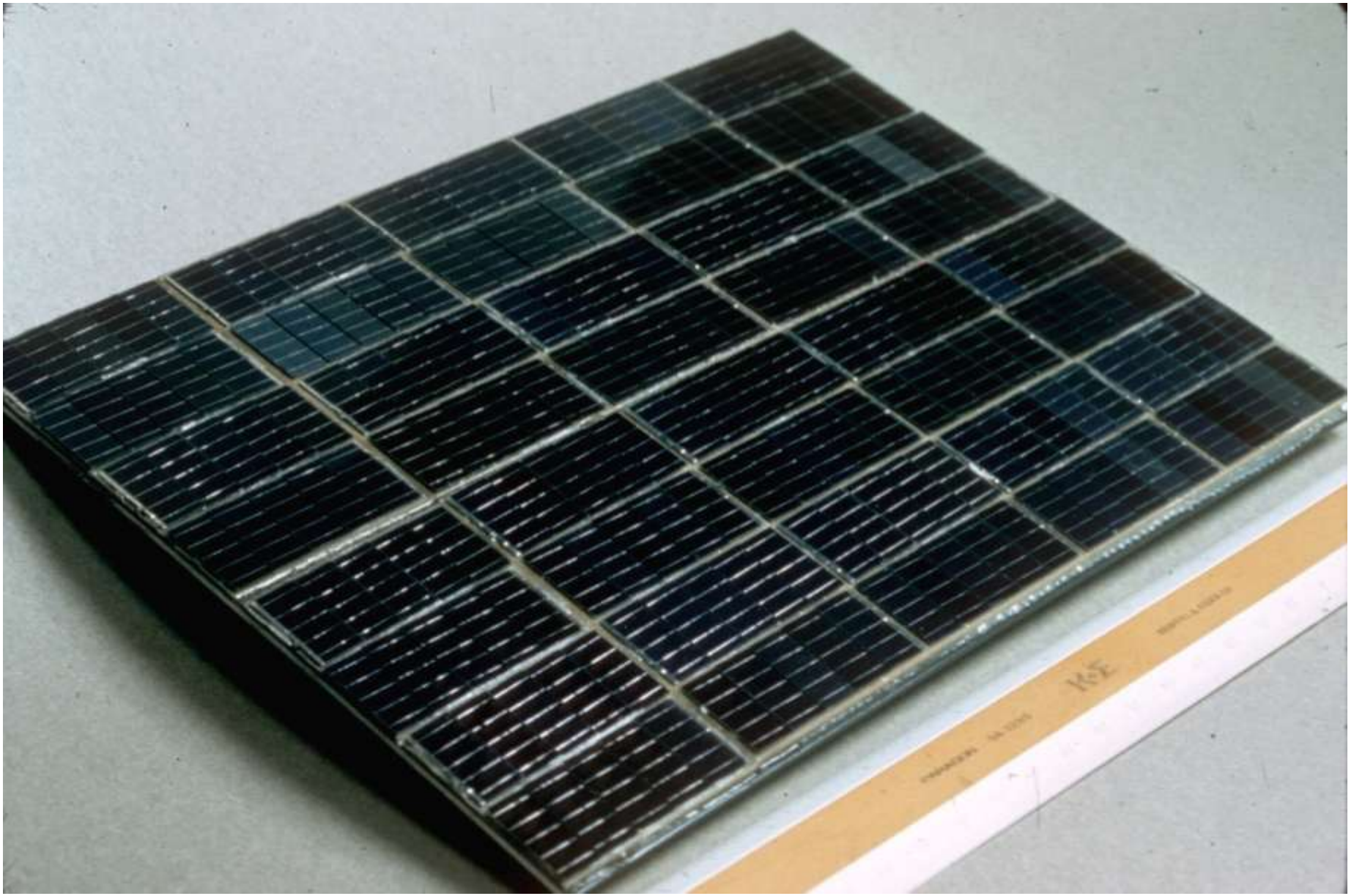
AMSAT-OSCAR-6 command decoder



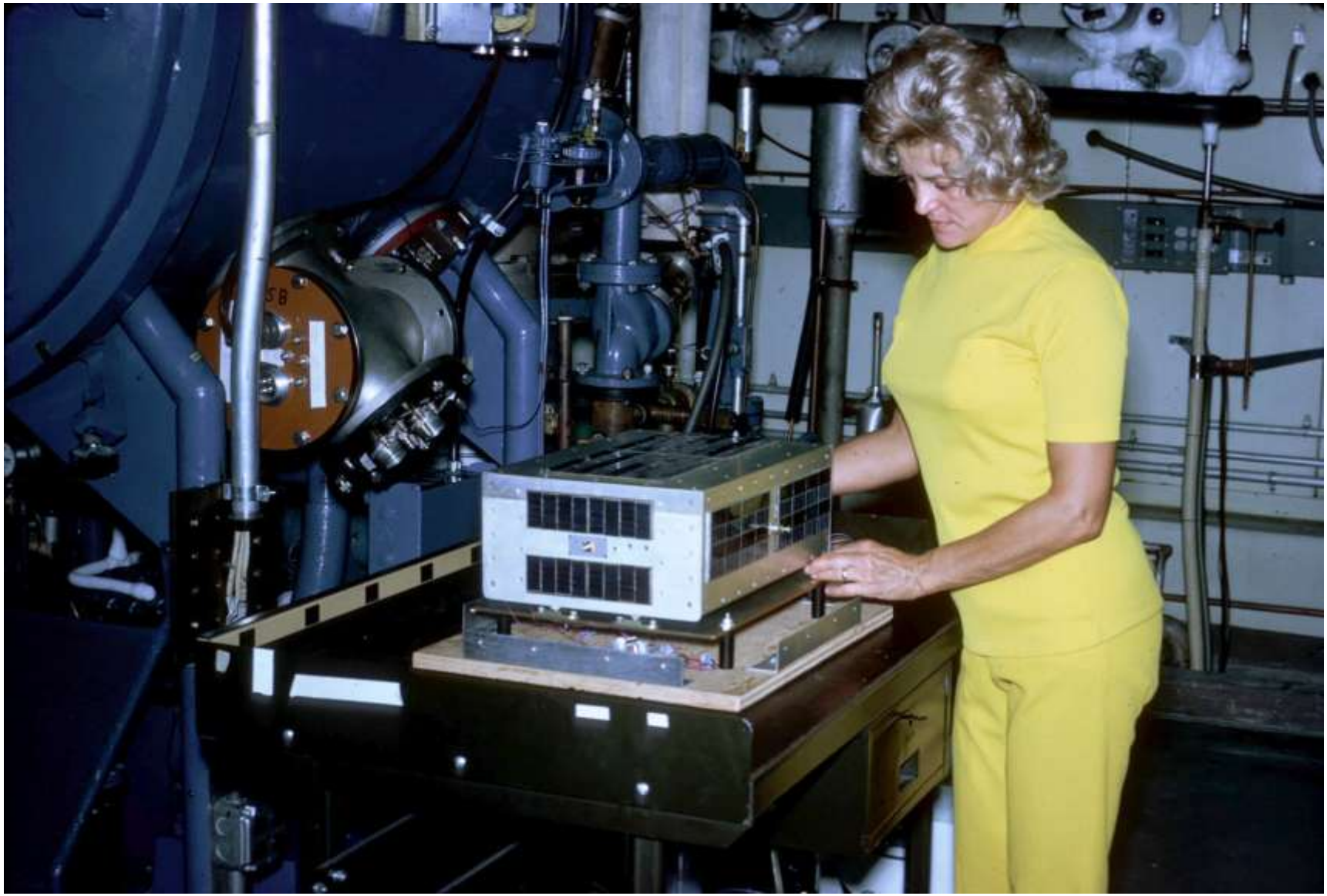
AMSAT-OSCAR 6 Nickel-Cadmium battery



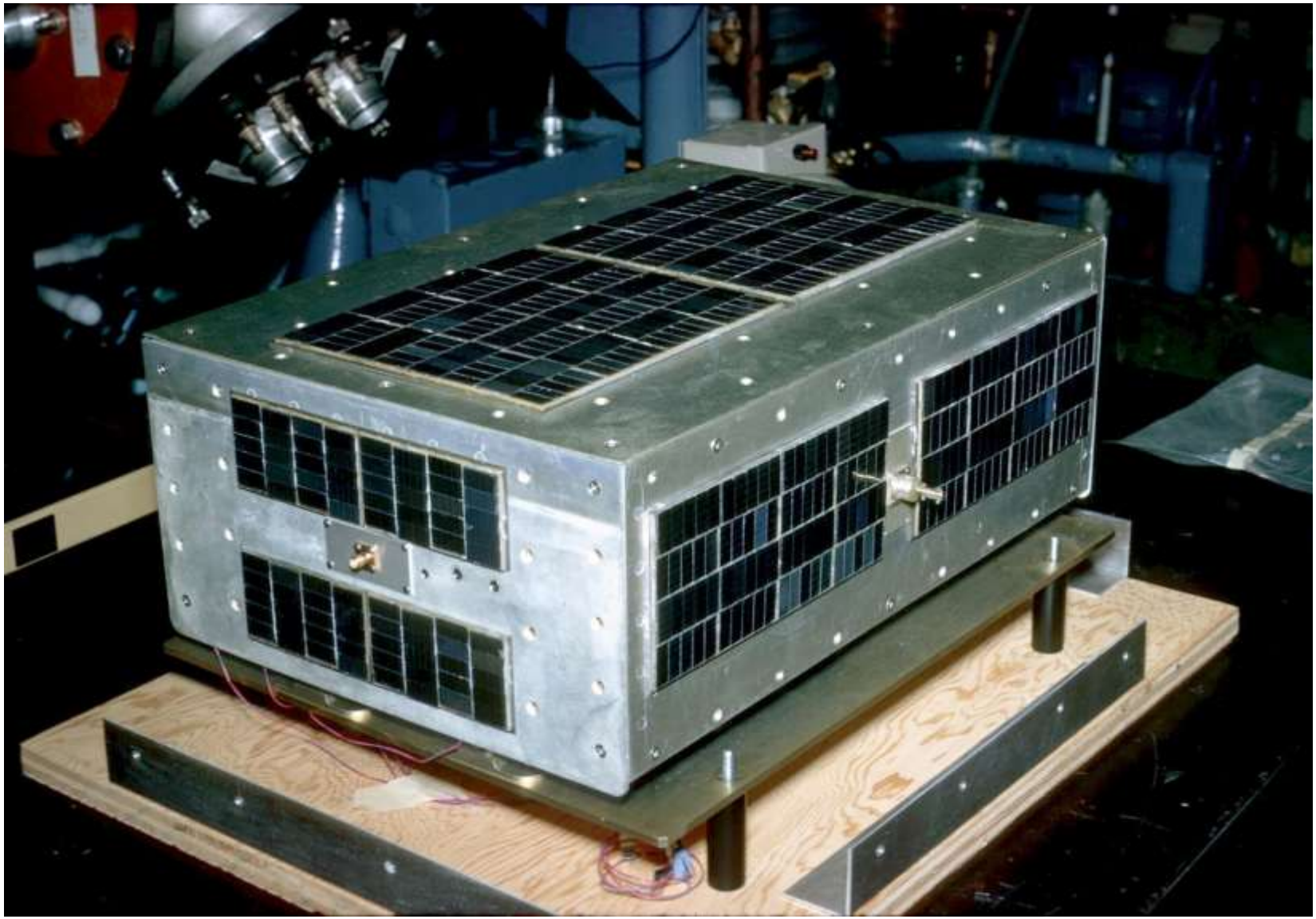
AMSAT-OSCAR 6 solar panel



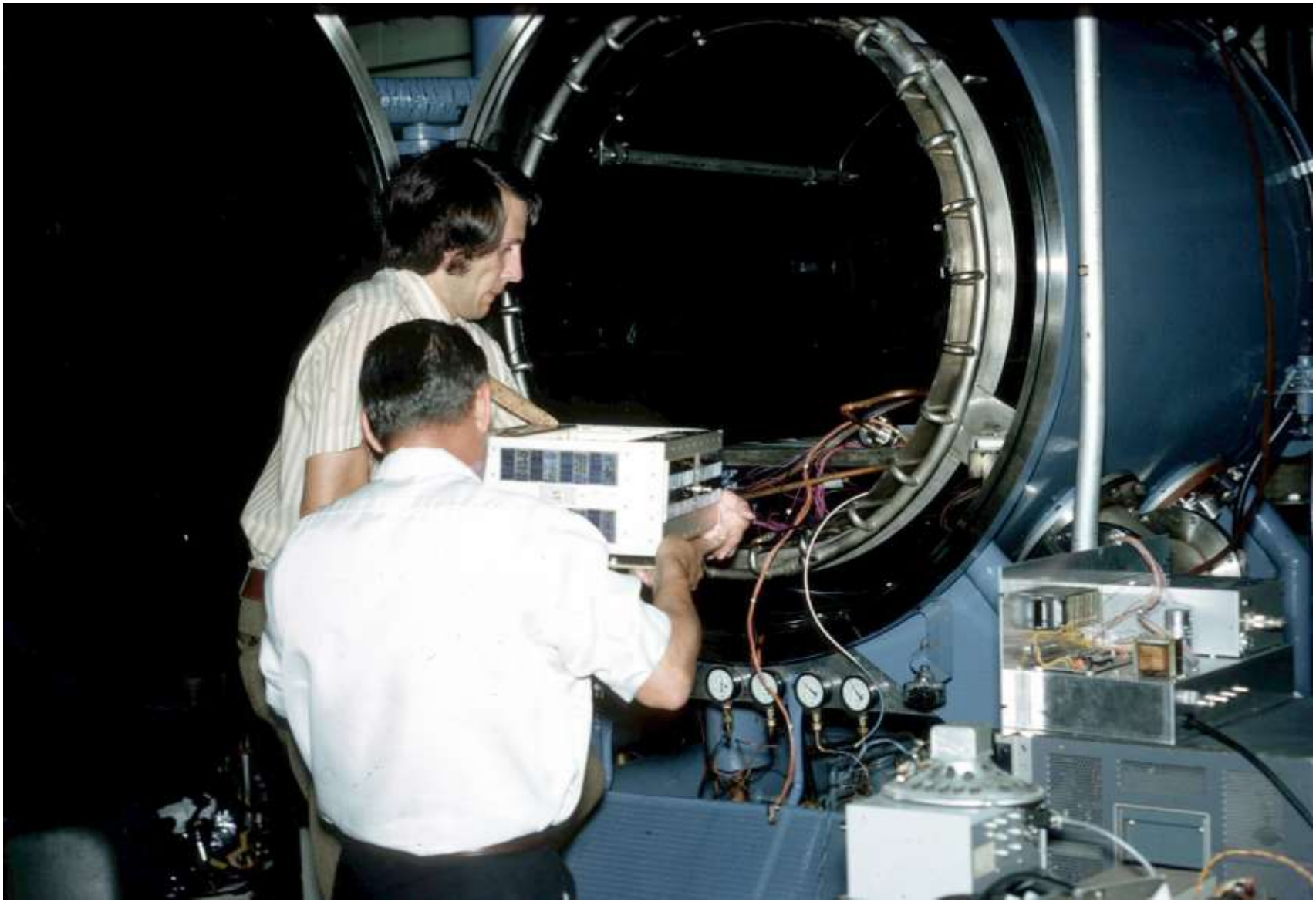
Marie Marr prepares AMSAT-OSCAR-6 for thermal-vacuum tests



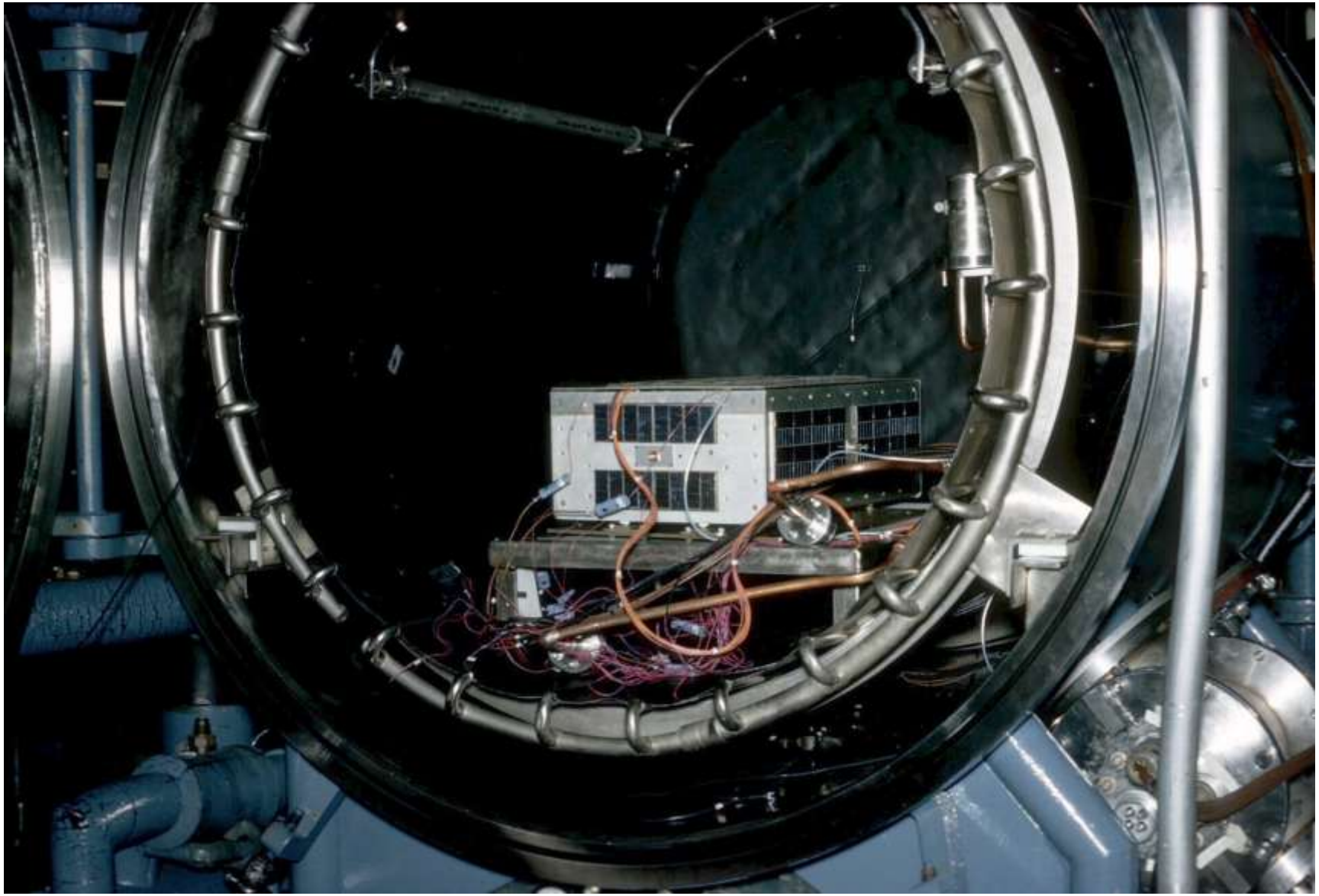
AMSAT-OSCAR 6
ready for thermal-vacuum tests



AMSAT-OSCAR 6 goes into the thermal-vacuum chamber



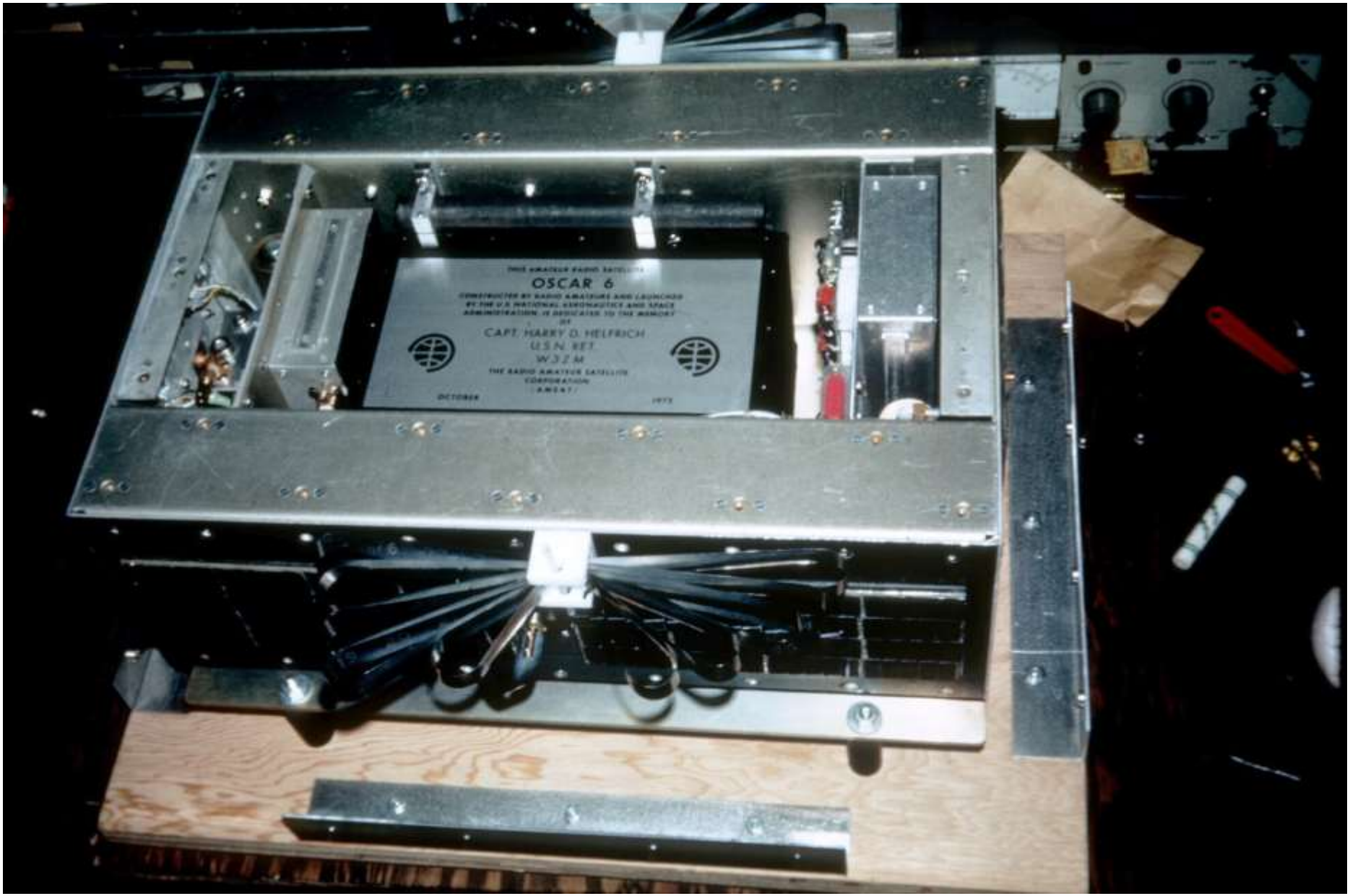
AMSAT-OSCAR 6
in thermal-vacuum chamber



AMSAT-OSCAR 6 antenna tests in anechoic chamber

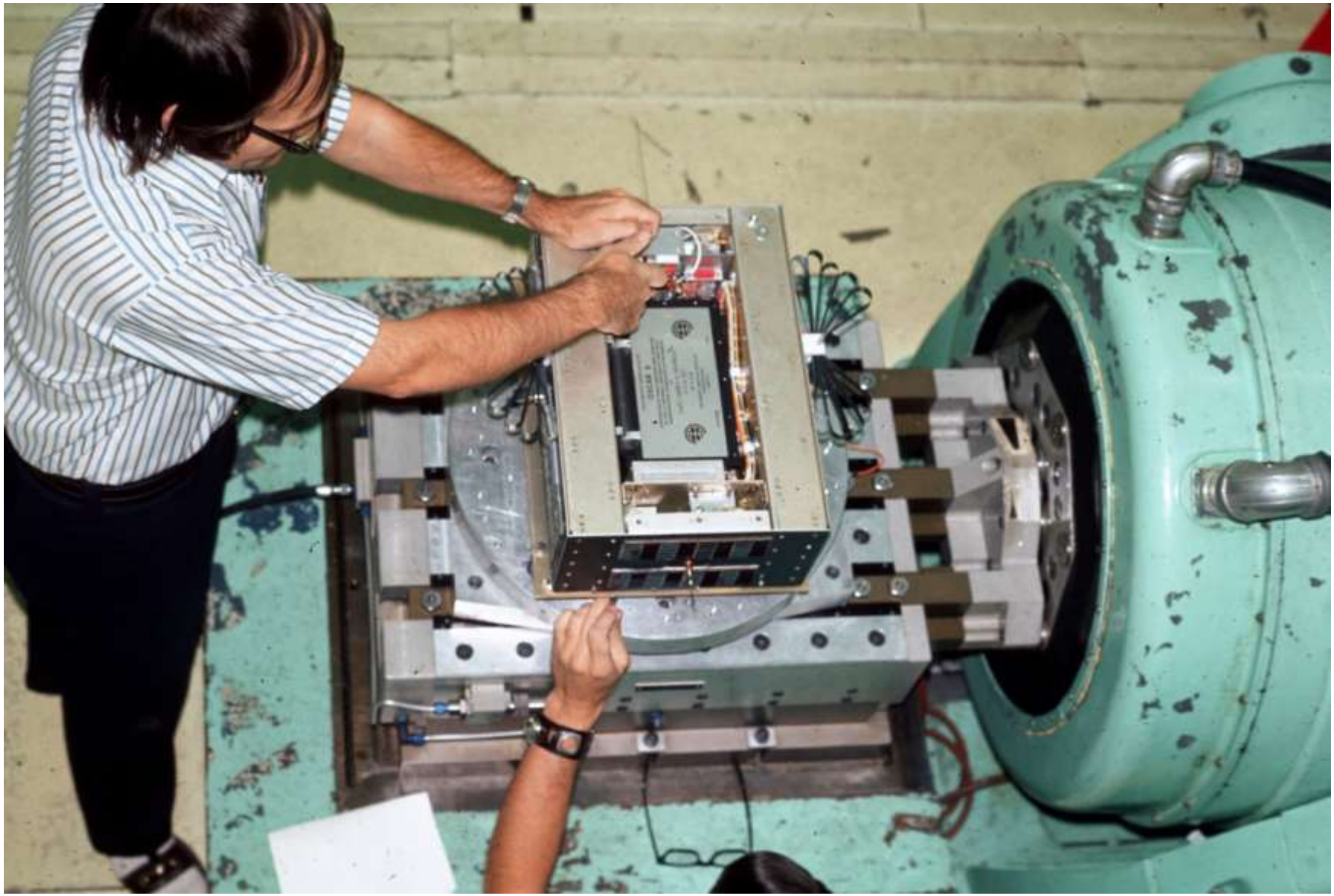
Bucky Moore encapsulating A-O-6 2-to-10-meter transponder

AMSAT-OSCAR 6 fully assembled

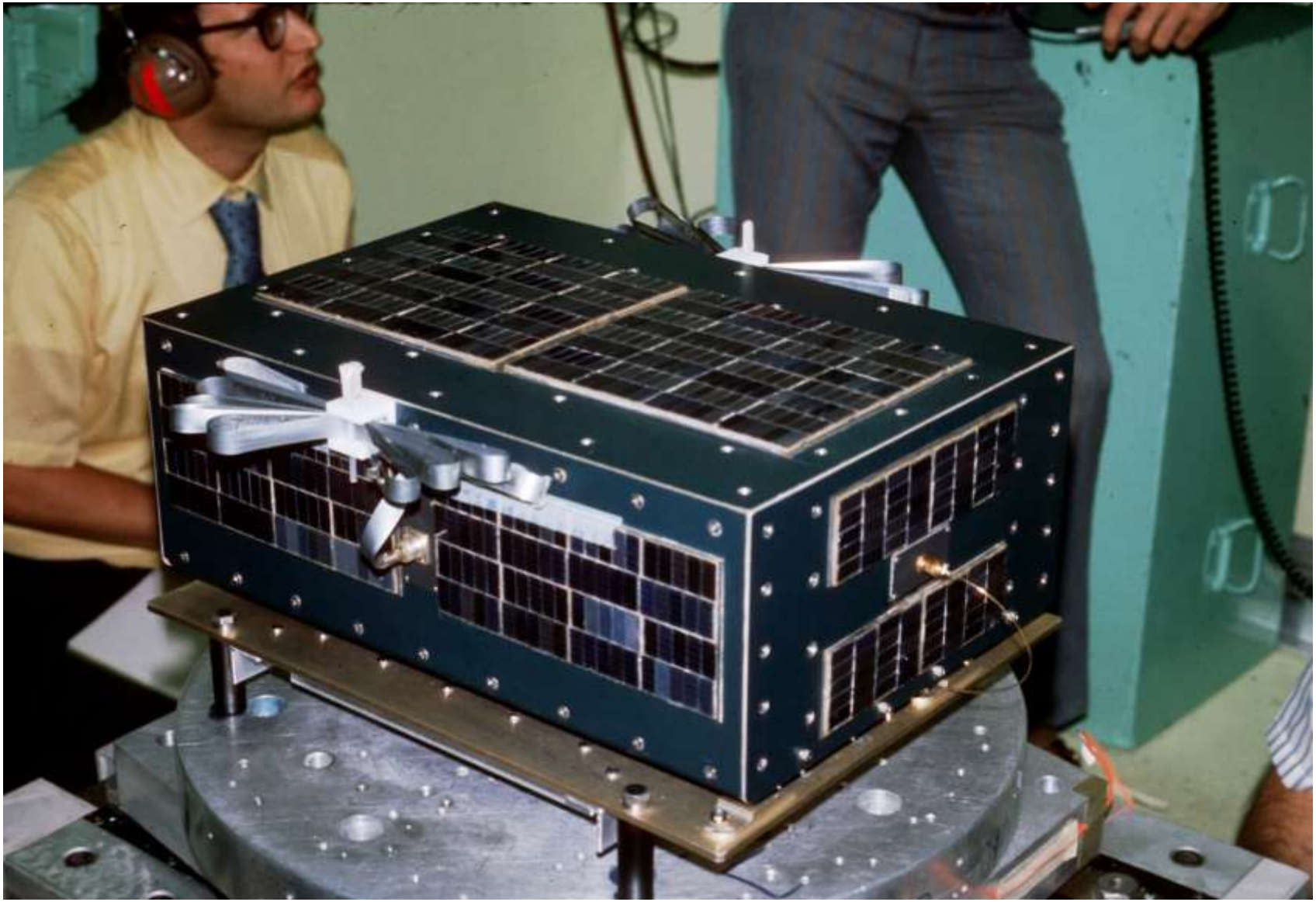


AMSAT-OSCAR 6 memorial plaque dedicated to Harry Helfrich

AMSAT-OSCAR 6 mounted for vibration test



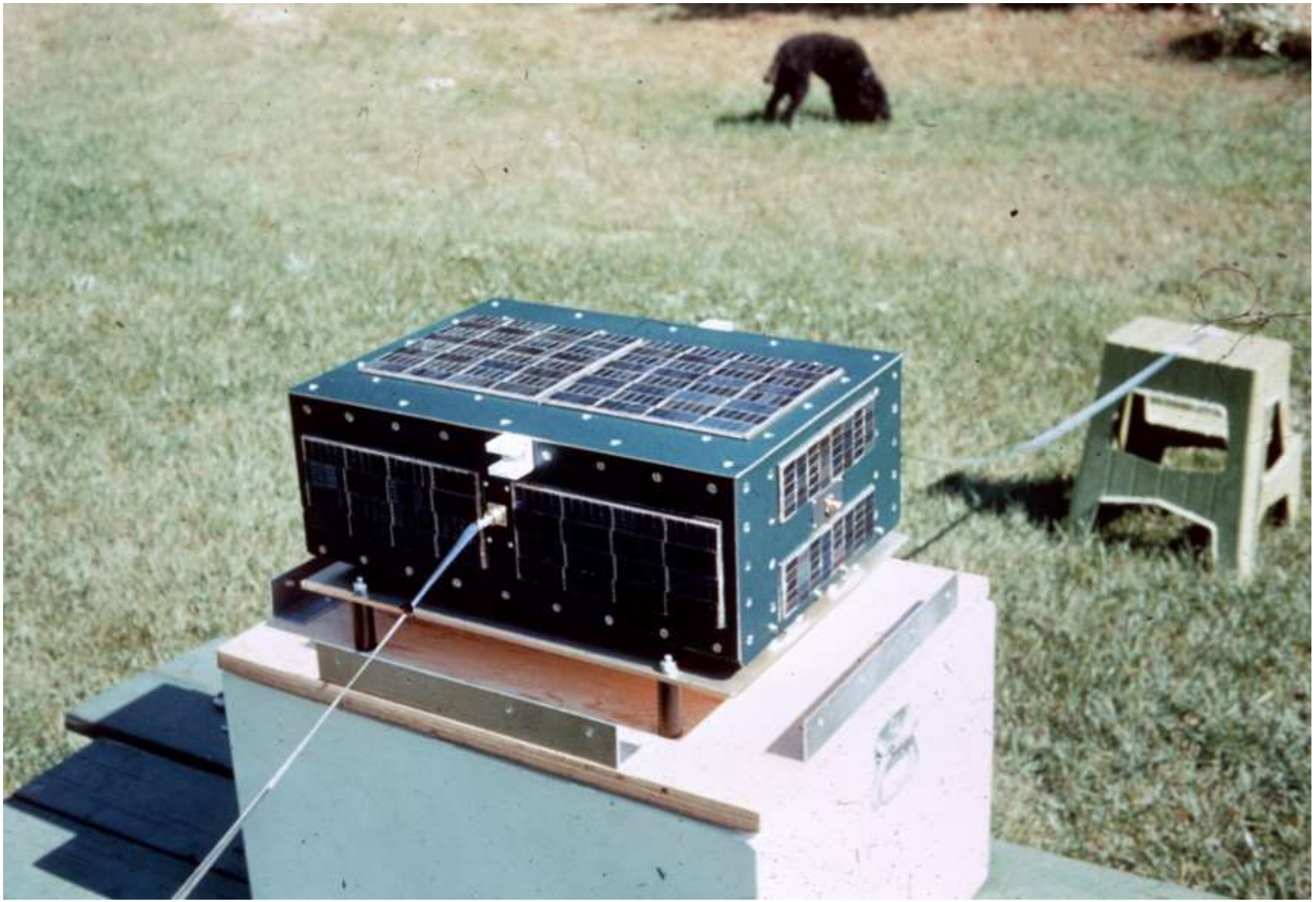
AMSAT-OSCAR 6
ready for vibration test



John Tomascello with A-O-6 during vibration test

Troubleshooting a problem with AMSAT-OSCAR 6

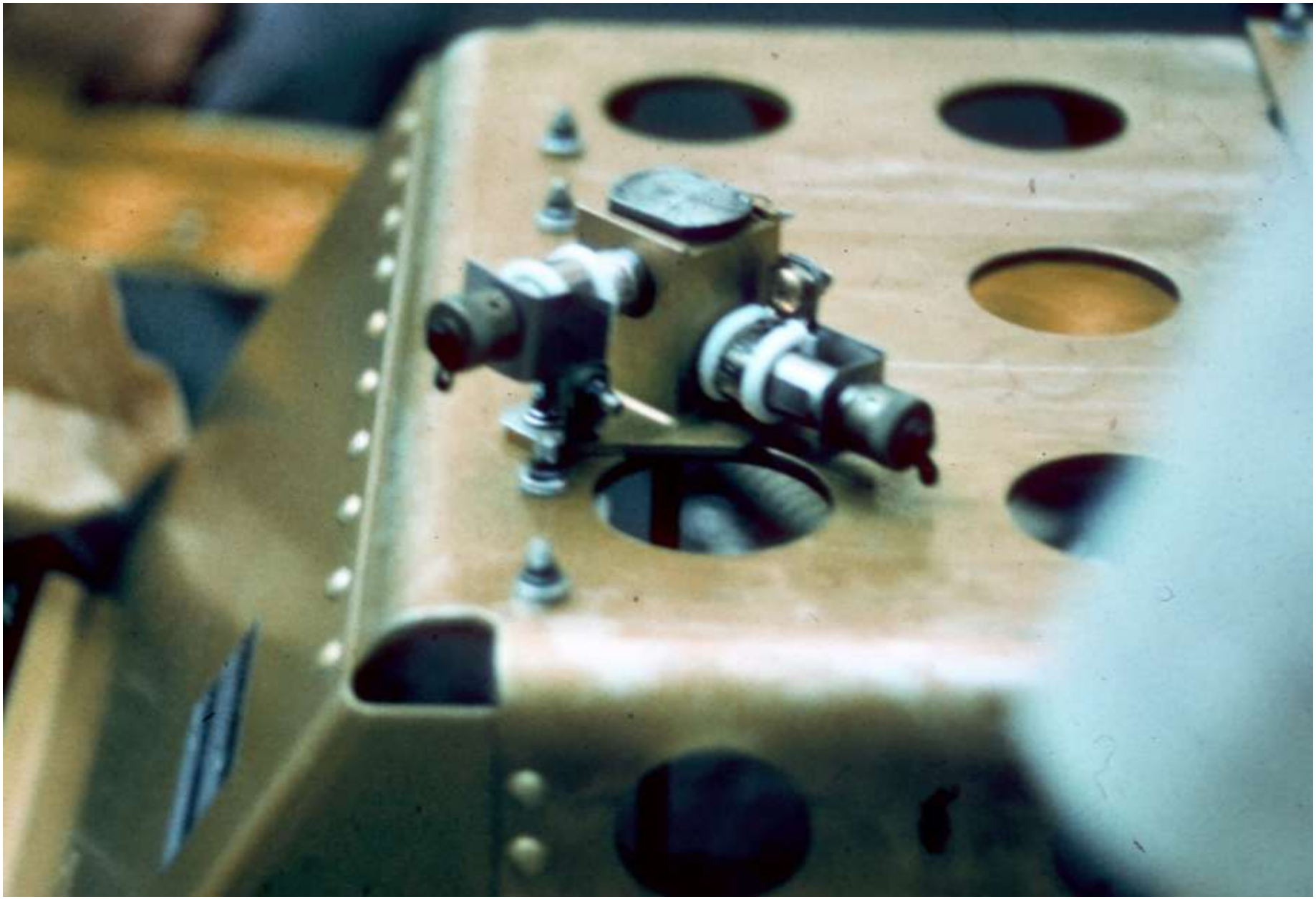
AMSAT-OSCAR 6
backyard solar power test



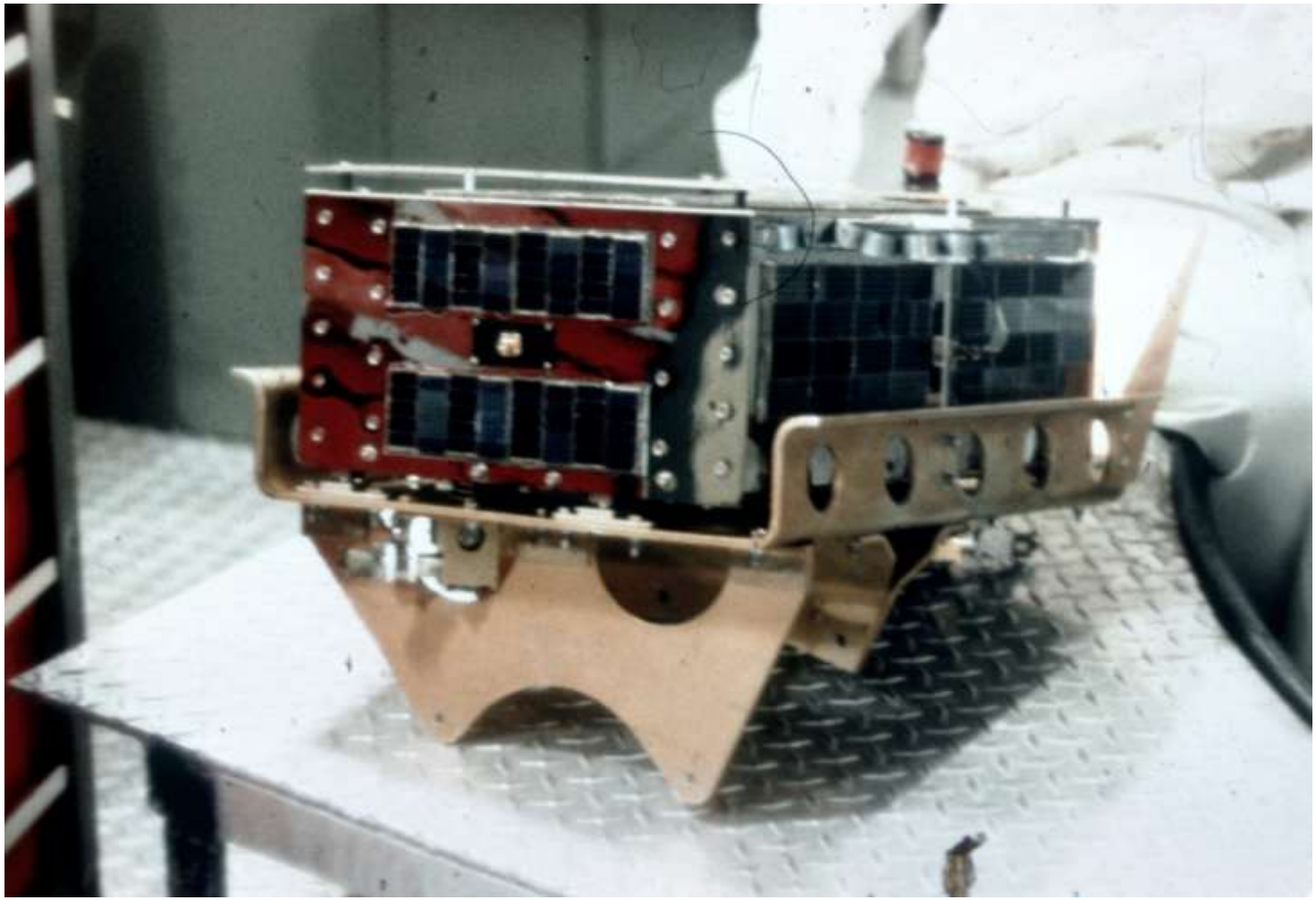
AMSAT-OSCAR 6
ready for travel

ITOS weather satellite team examines AMSAT-OSCAR-6 before launch

AMSAT-OSCAR 6 bolt cutter

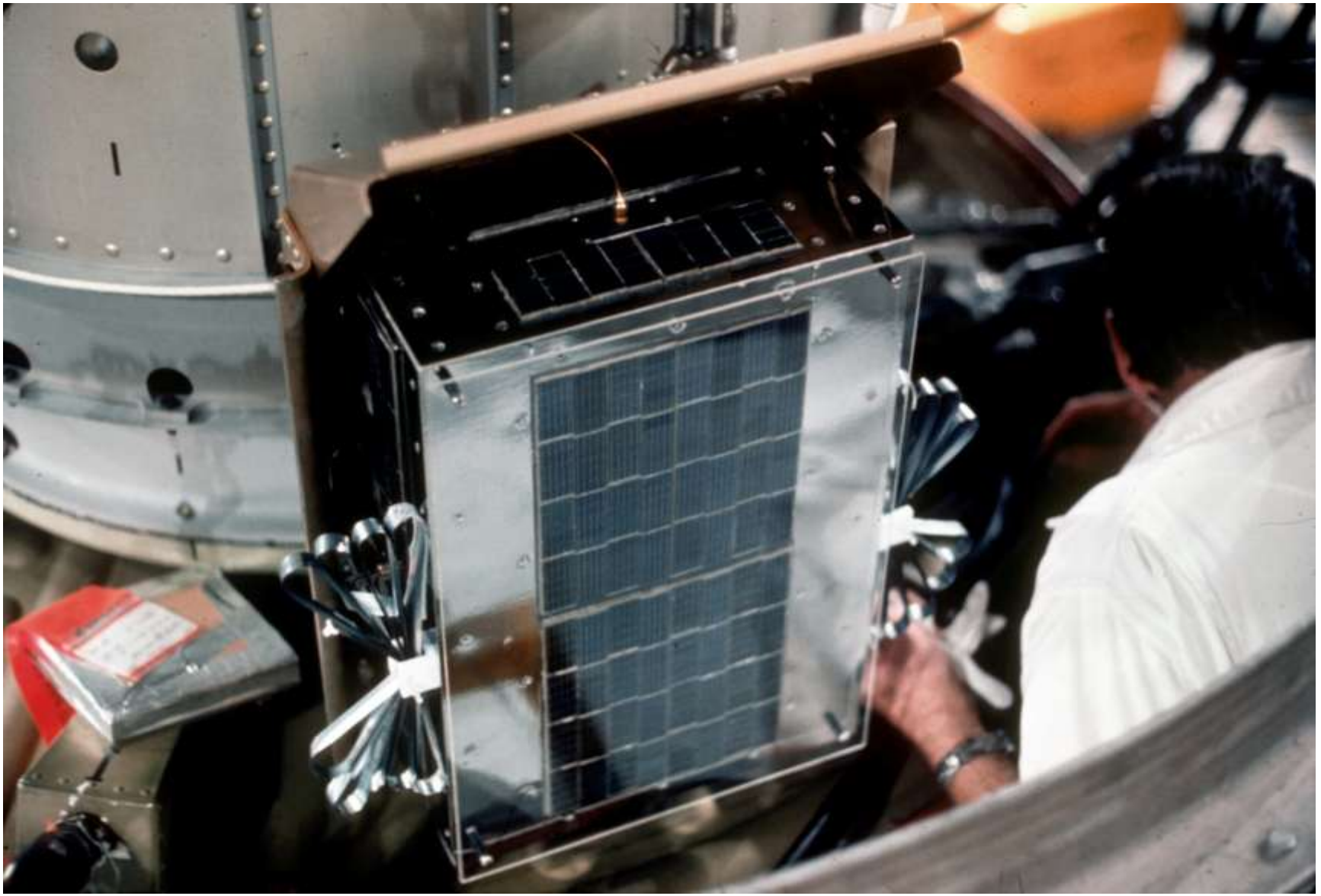


AMSAT-OSCAR 6 in mounting tray



Mounting AMSAT-OSCAR 6 in Delta rocket

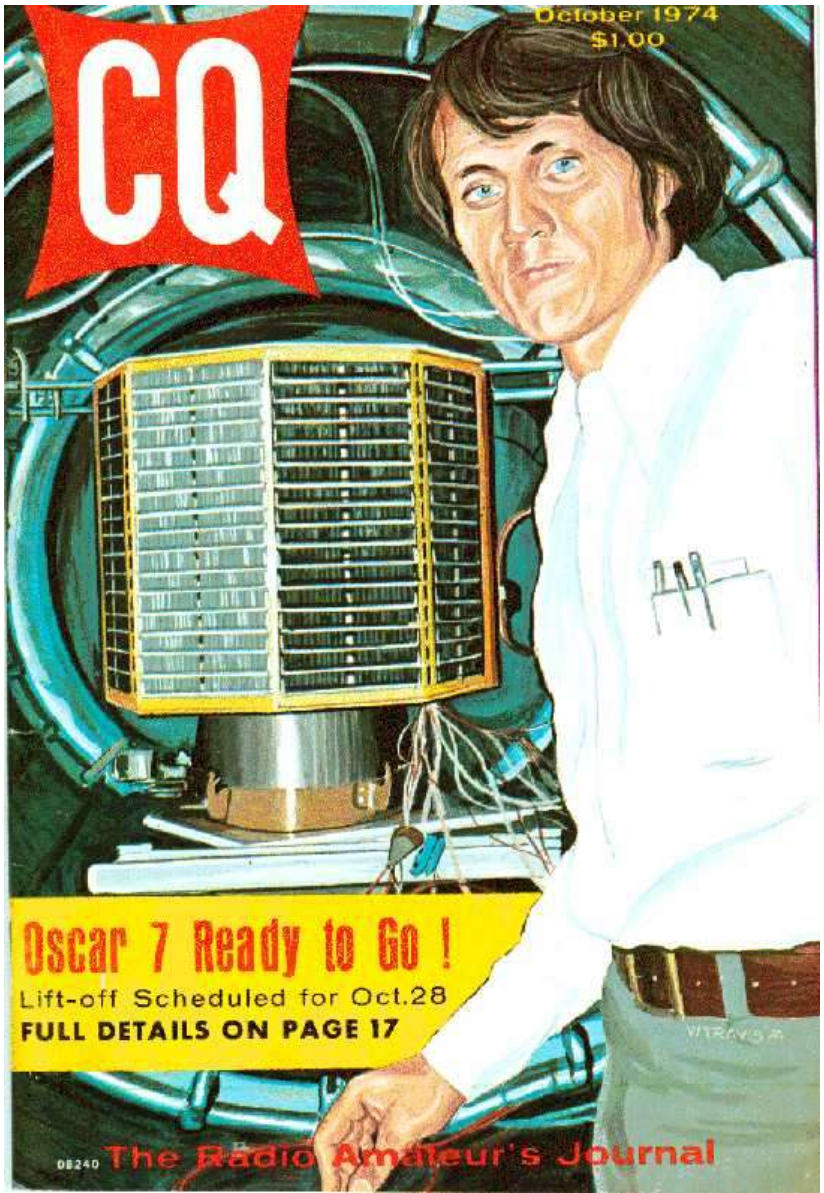
AMSAT-OSCAR 6
mounted in Delta rocket



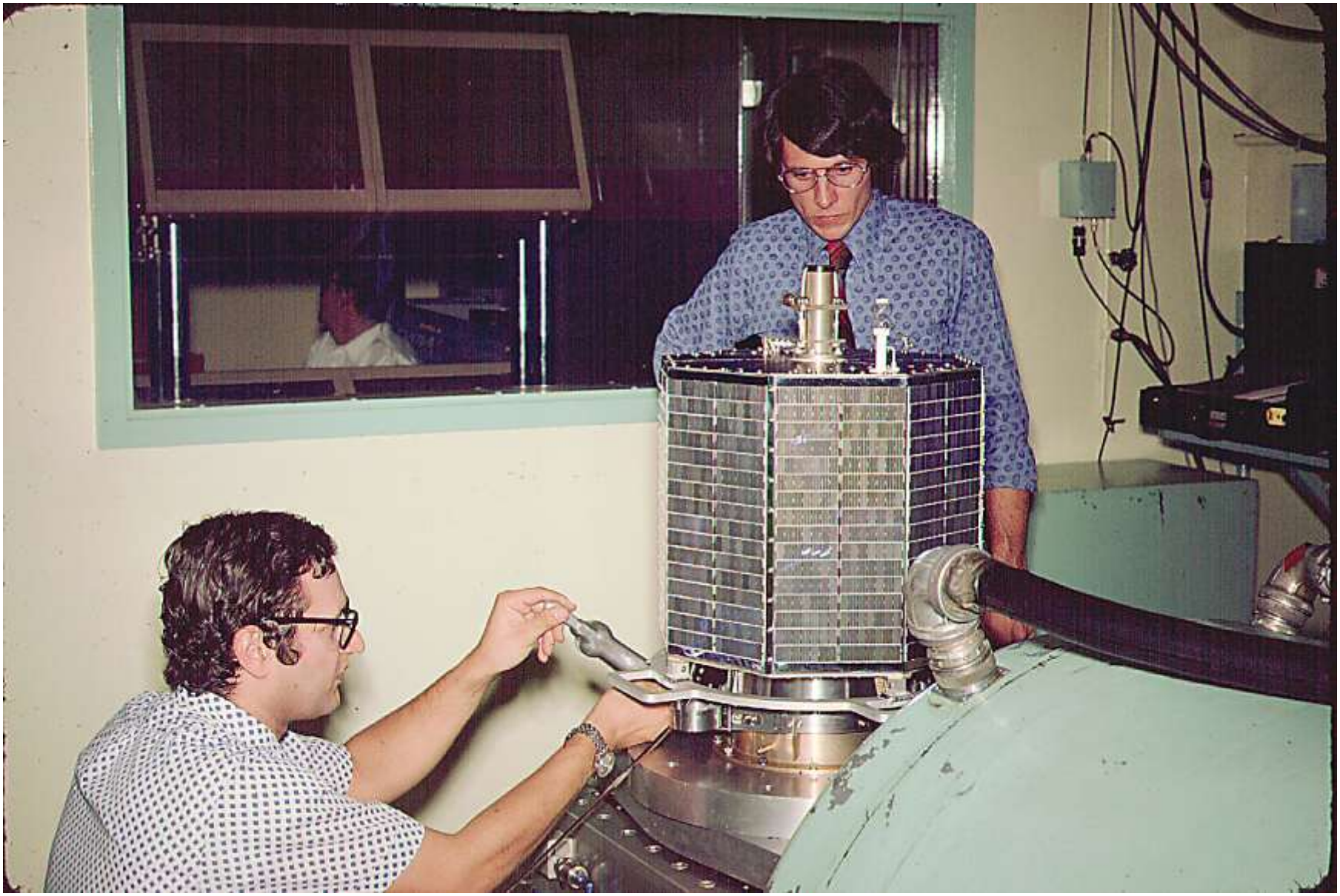
AMSAT-OSCAR 6 mounted below ITOS satellite on Delta rocket

AMSAT-OSCAR 6 launch by NASA October 15, 1972, Western Test Range

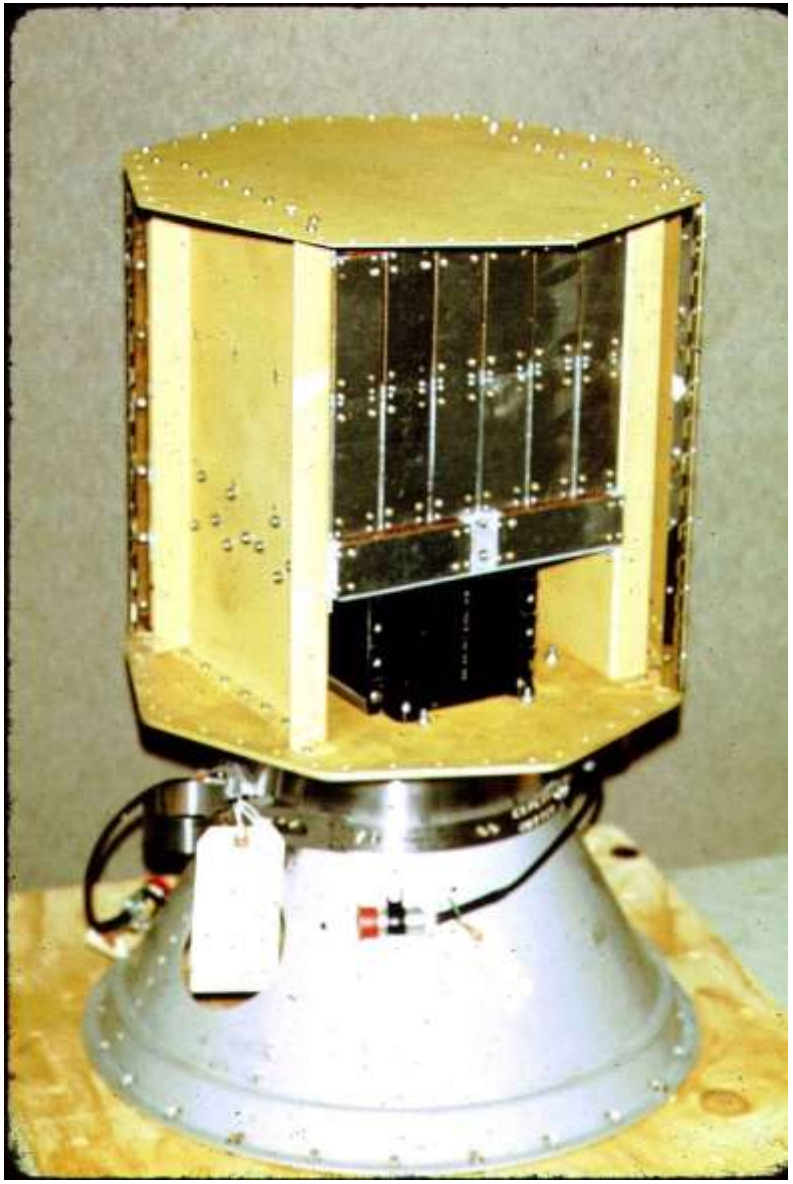
Jan King with AMSAT-OSCAR 7 (cover of CQ Magazine, Oct. 1974)



Perry Klein and Jan King prepare AMSAT-OSCAR 7 for vibration test

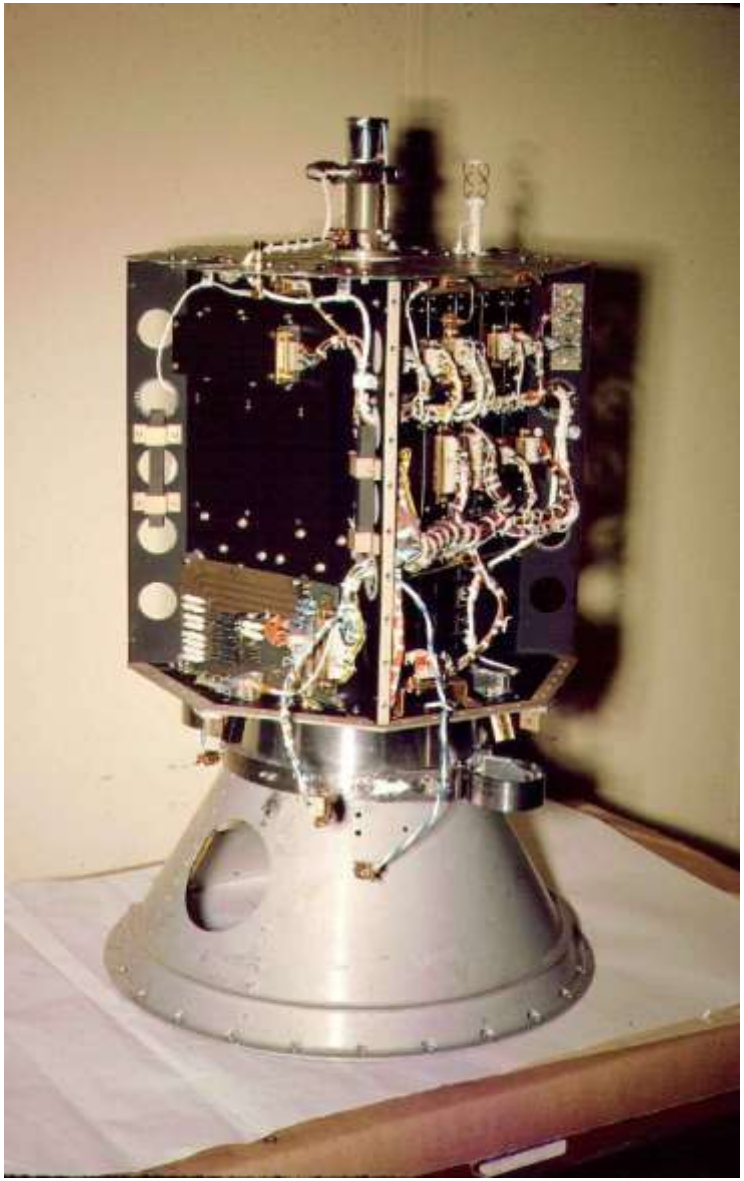


Inside AMSAT-OSCAR 7 showing modules and battery

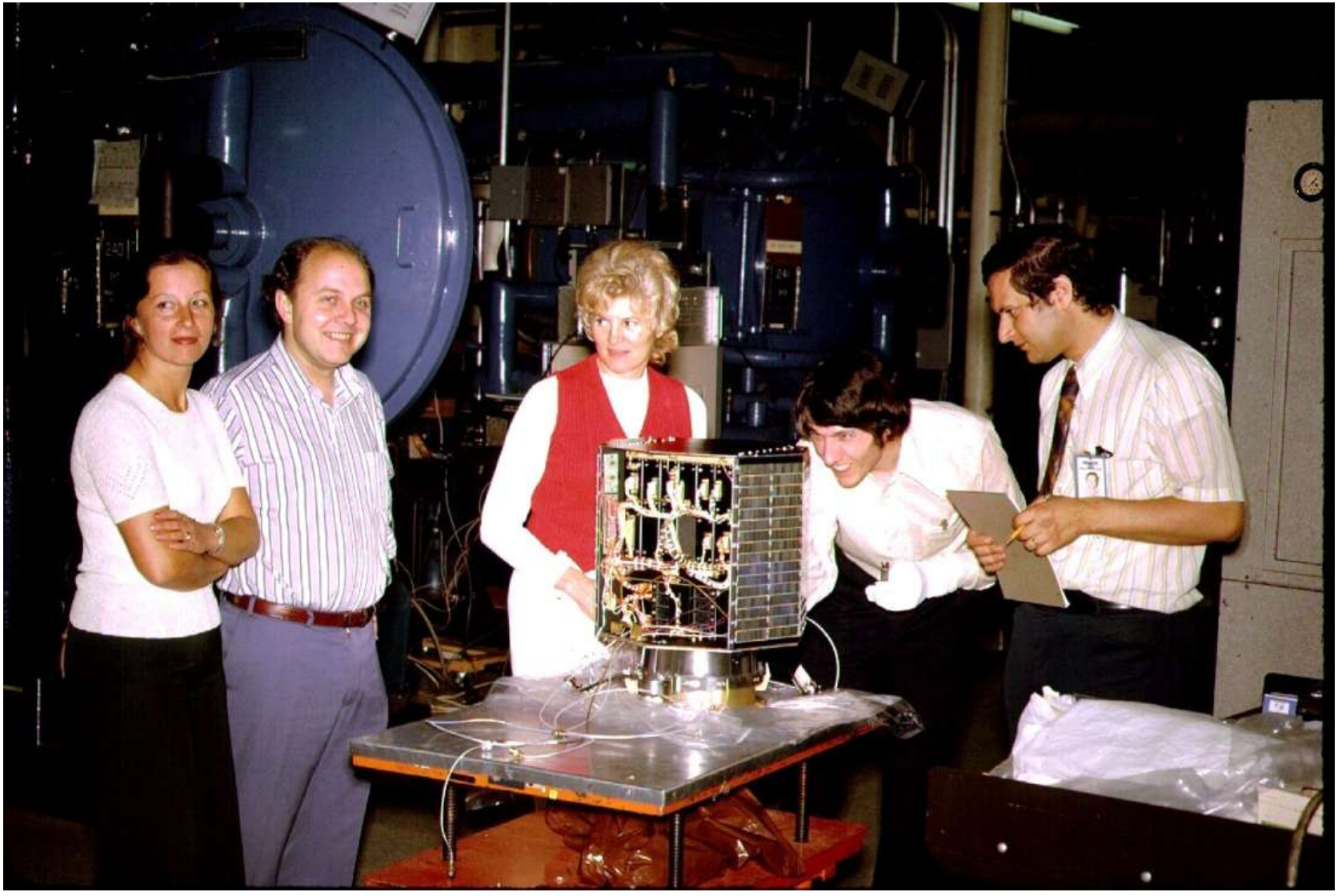


Marie Marr assembling A-O-7 wiring harness

AMSAT-OSCAR 7
with modules and wiring harness

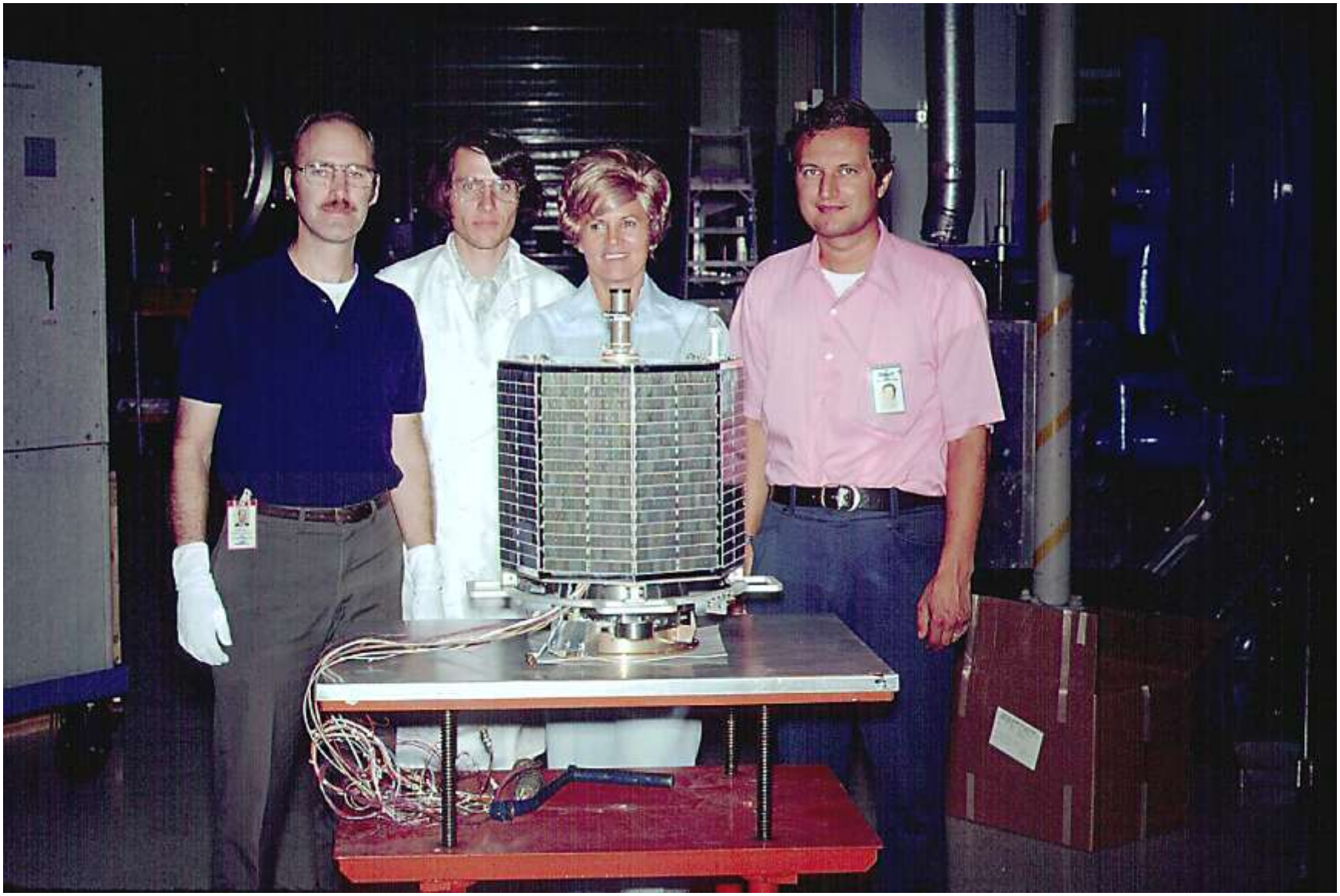


Preparing A-O-7 for thermal-vacuum tests. (Karin & Karl Meinzer from AMSAT-DL on left)



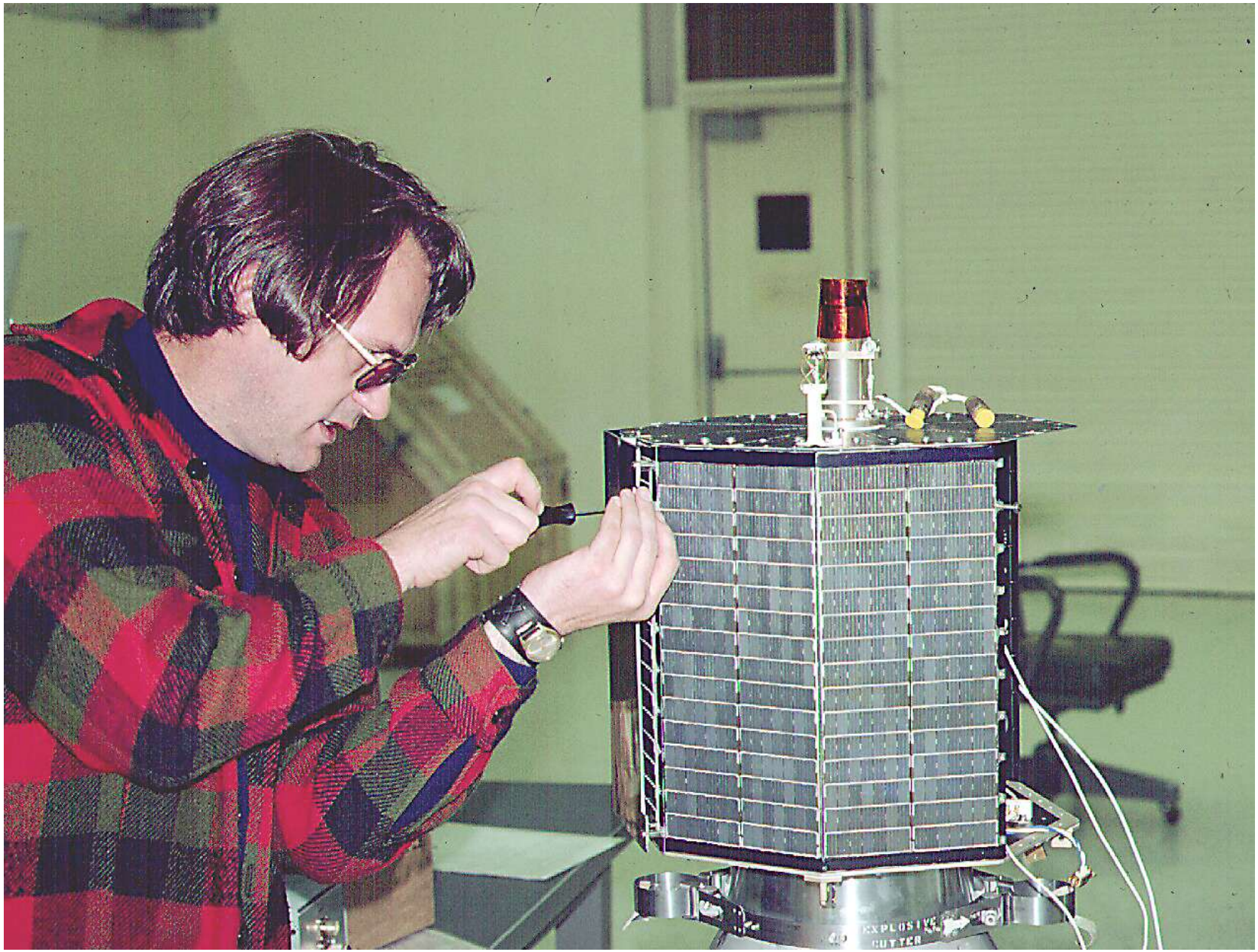
Getting AMSAT-OSCAR 7 ready for thermal-vacuum tests

AMSAT-OSCAR 7
before thermal-vacuum test (1974)



Lance Ginner (Proj. OSCAR), Karl Meinzer (AMSAT-DL), Jan King examine AMSAT-OSCAR 7 70cm-2m transponder

Tom Clark with AMSAT-OSCAR 7



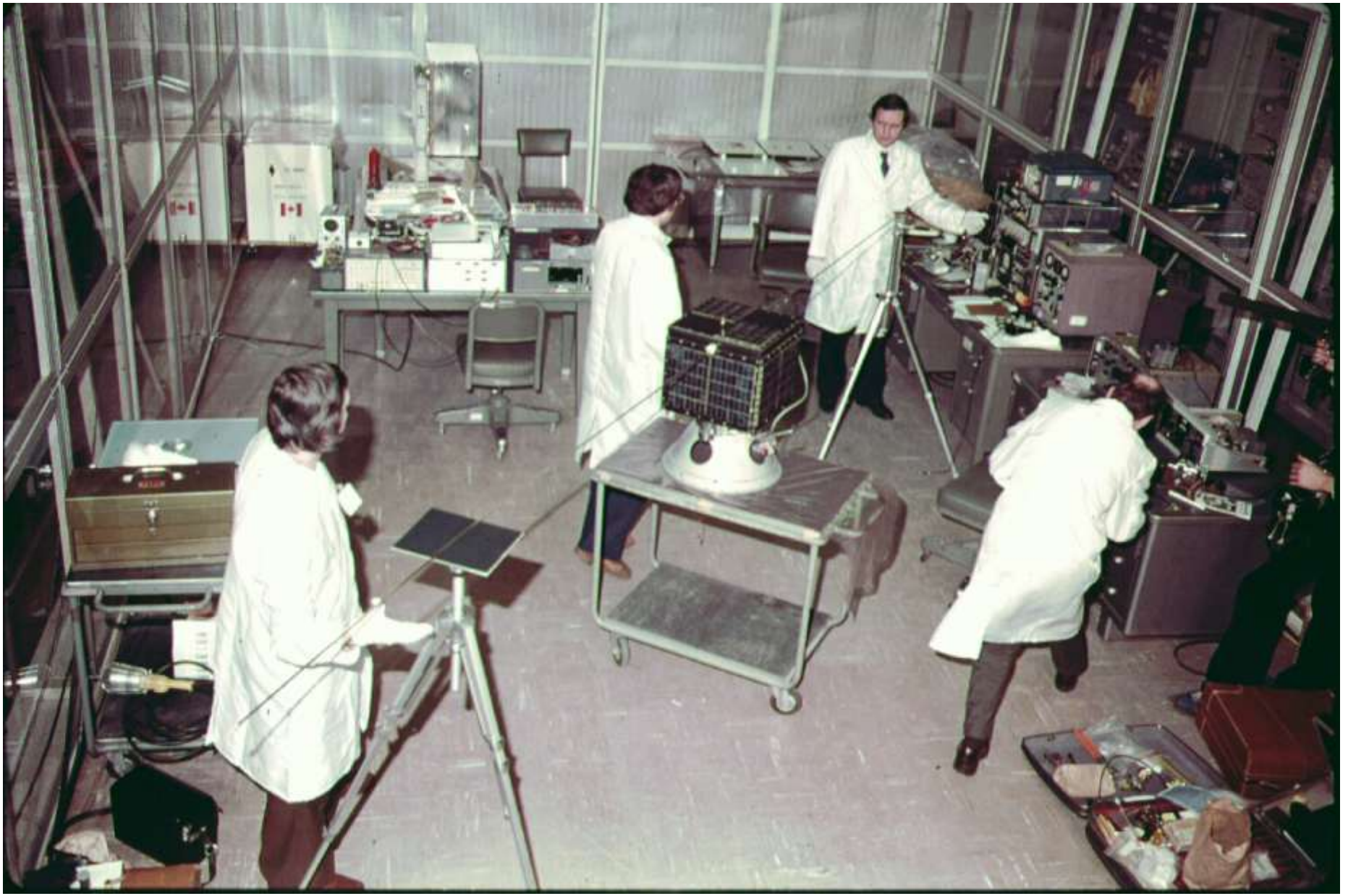
Carrying OSCAR 7 into airplane at Dulles Airport

DC-10 Captain inspecting A-O-7 before strapping to seats

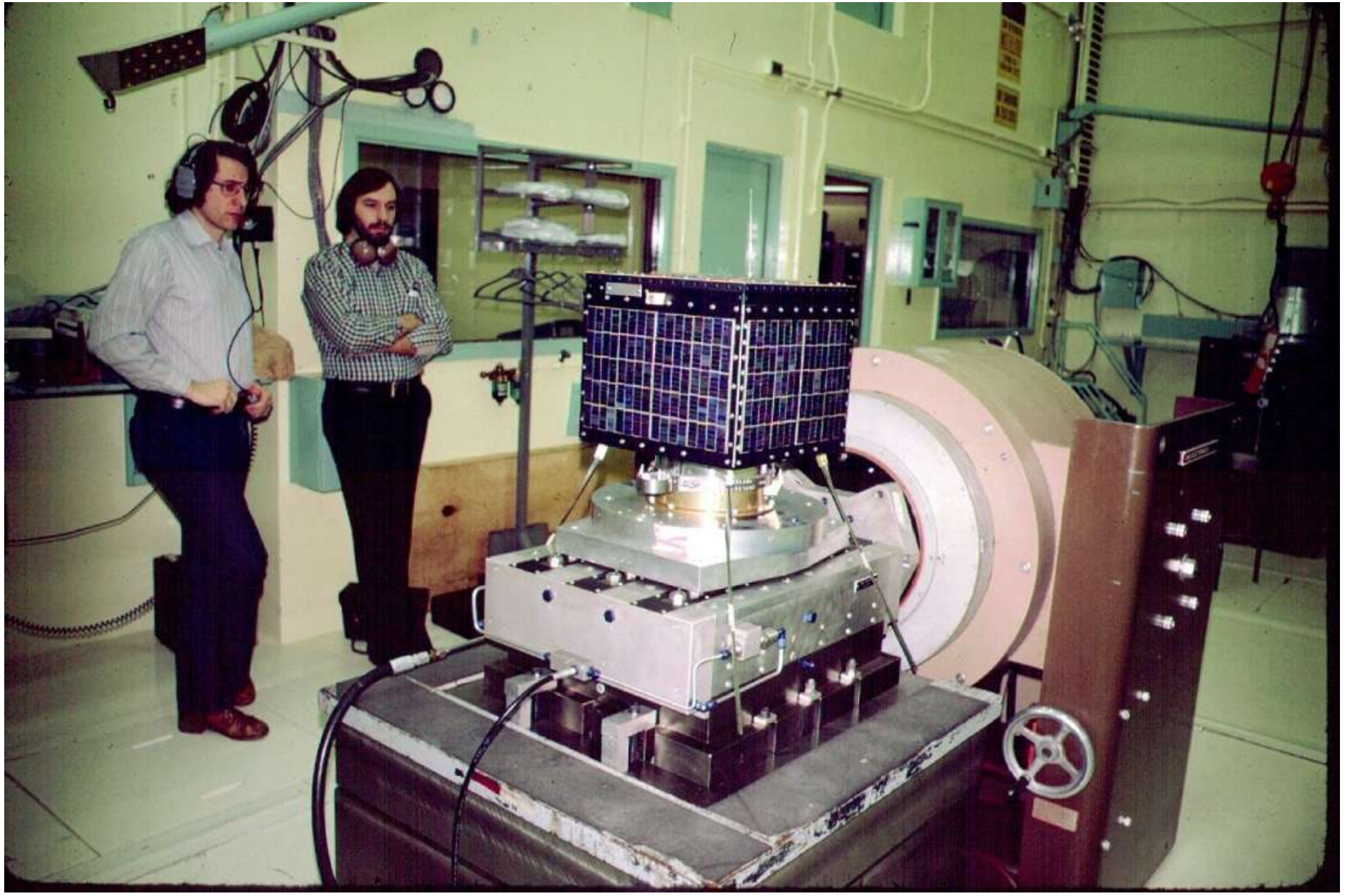
AMSAT-OSCAR 7 mounted in NASA Delta rocket. Launch was Nov. 15, 1974.

Jan King cleans AMSAT-OSCAR 8 solar panels

AMSAT-OSCAR 8 RF testing

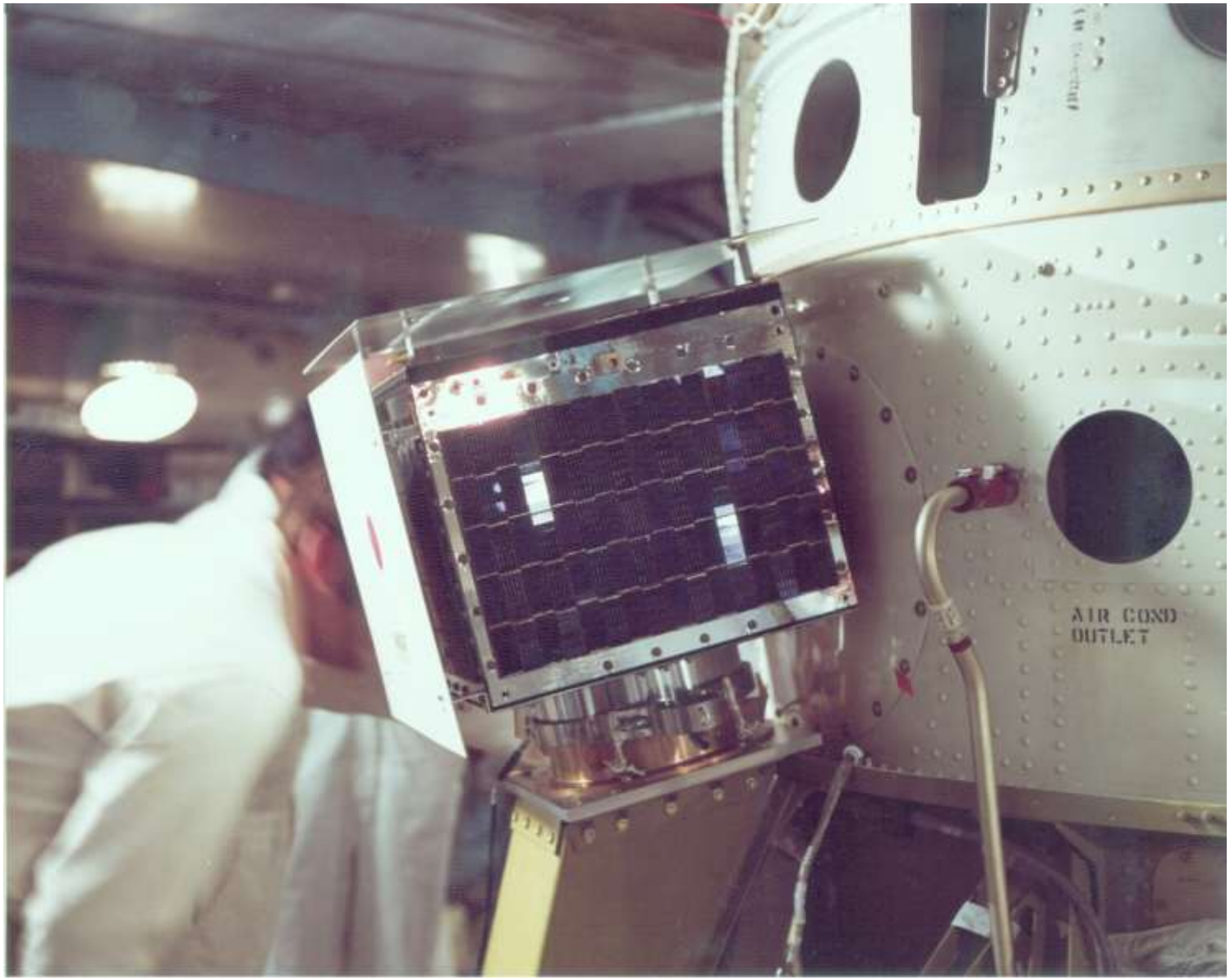


AMSAT-OSCAR 8 vibration test



Installation of AMSAT-OSCAR 8 on NASA Delta rocket

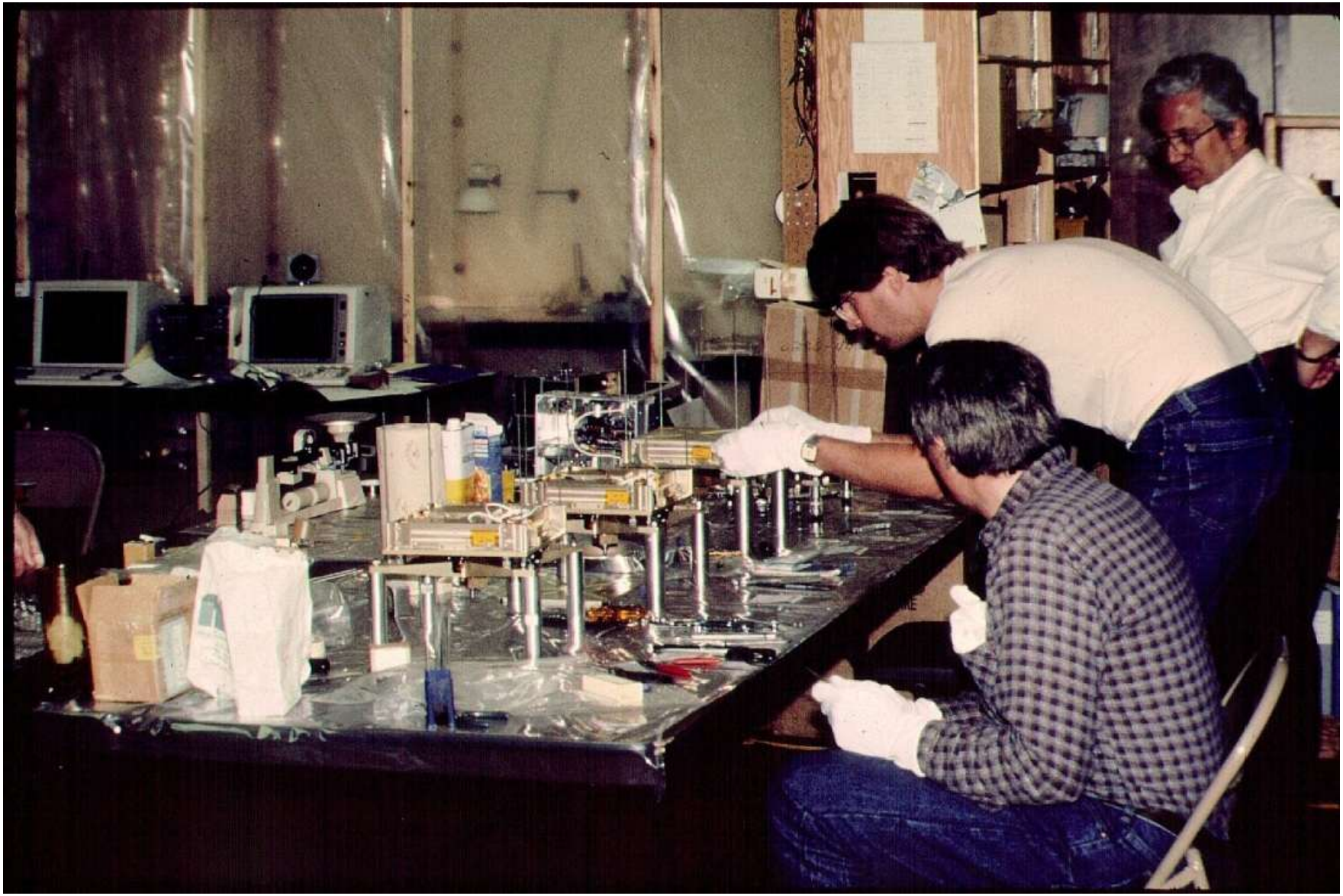
AMSAT-OSCAR 8
mounted on NASA Delta rocket



AMSAT-OSCAR 8 on NASA Delta rocket. Launch was March 5, 1978.

Fuji-OSCAR 12 built by JAMSAT
Launched from Japan Aug. 12, 1986

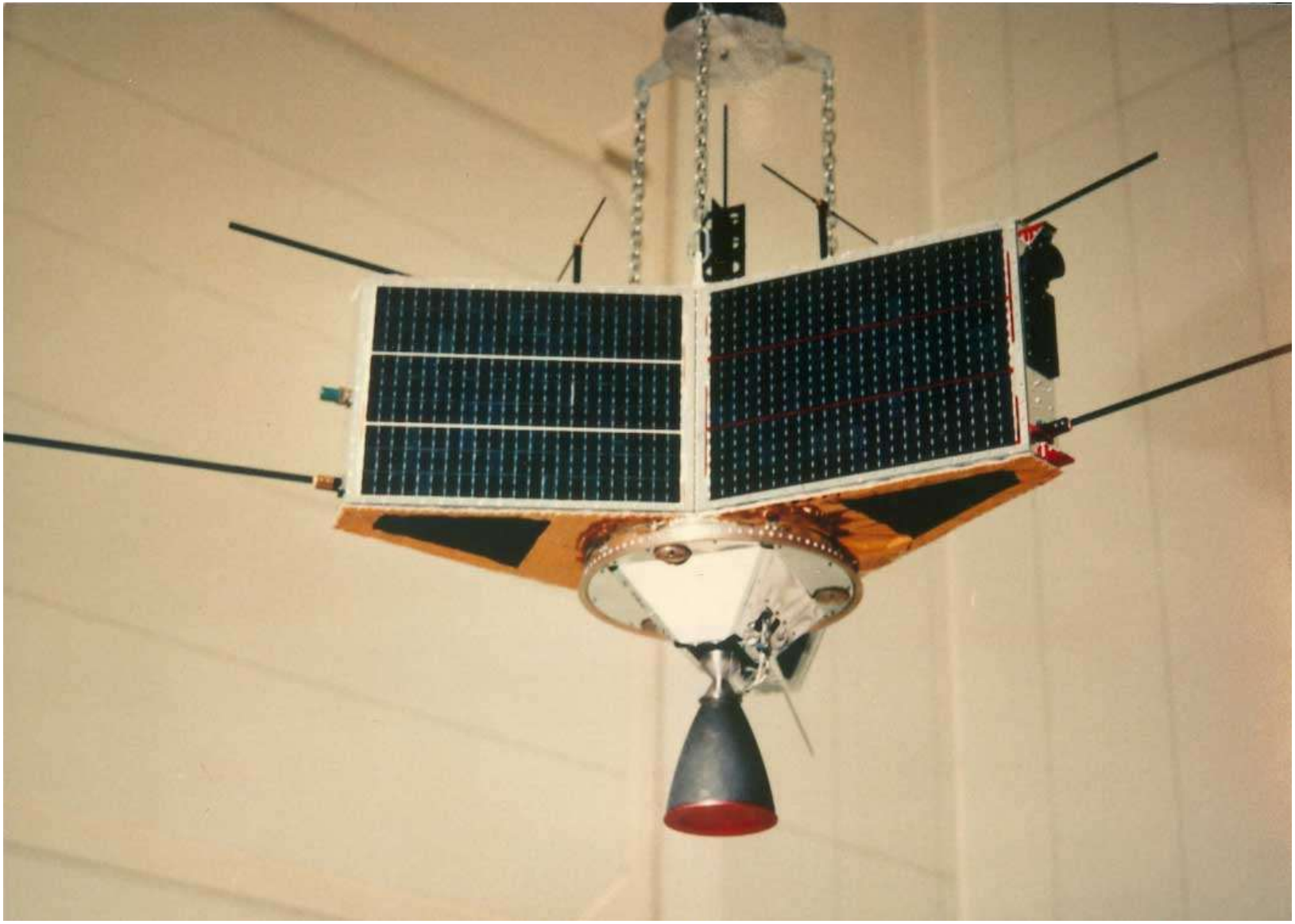
4 Microsats under construction. They were launched on Jan. 22, 1990



4 Microsats on Ariane adapter ring. Launch was Jan. 22, 1990 from Kourou.

LUSAT-OSCAR 19 Microsat Argentinean postage stamp

AMSAT-OSCAR 13
launched June 15, 1988



AMRAD-OSCAR 27 satellite built in VA launched Sept. 26, 1993

CubeSat model
Size is 10 x 10 x 10 cm.

Prof. Bob Twiggs (Stanford U.) with P-POD multiple CubeSat launcher

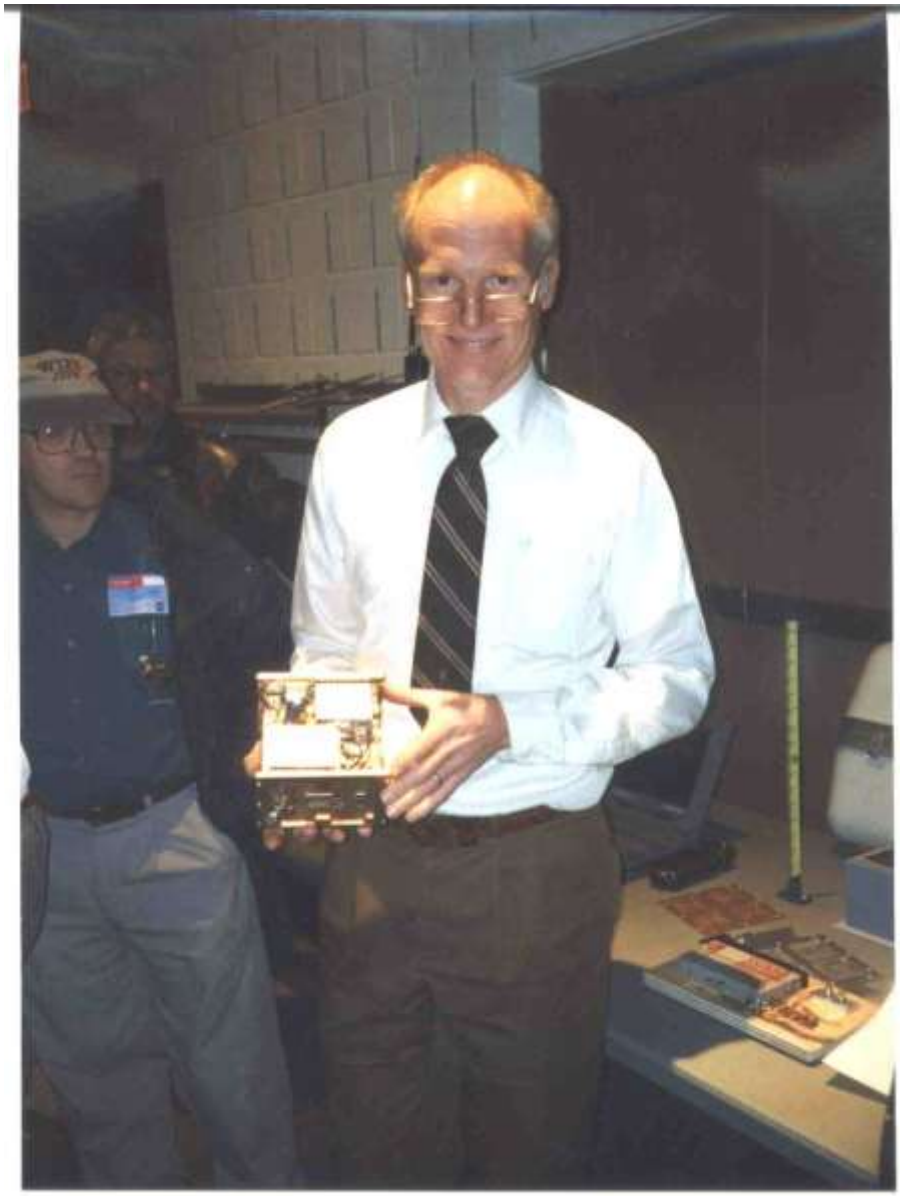
NASM Curators Martin Collins & Paul Ceruzzi with Microsat mechanical test model

Perry Klein discusses Microsat with General Dailey, Director of the Air and Space Museum

U.S. Naval Academy PCSat (OSCAR 44) Launch was Sept. 30, 2001

U.S. Naval Academy Midshipmen with their PCSat satellite

Bob Bruninga of U.S. Naval Academy holds a PicoSat

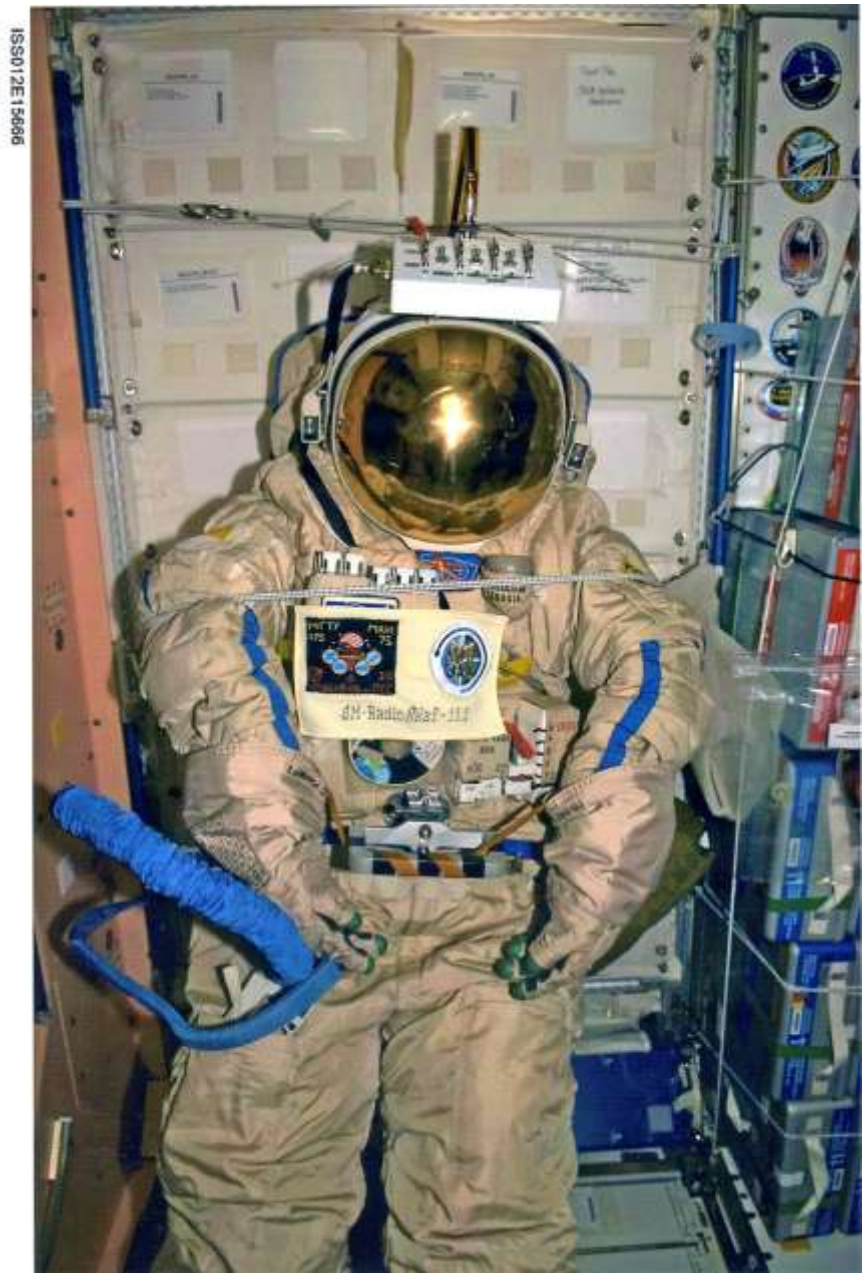


Senator John Glenn with school-kids constructing miniature Microsats

AMSAT-OSCAR 51 (Echo) satellite launched June 28, 2004

Microsat mechanical test model at American History Museum

SUITSAT aboard the ISS

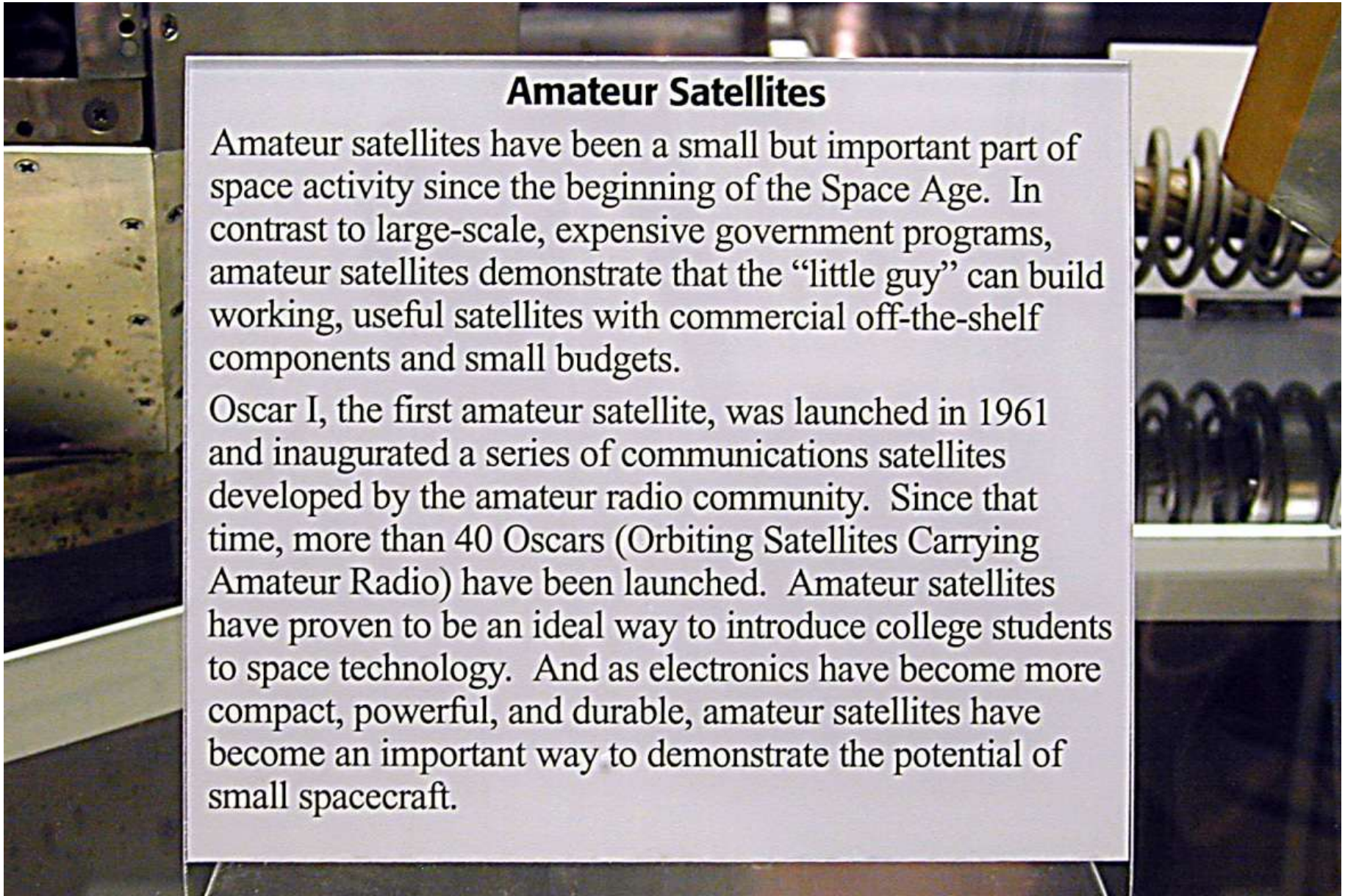


Preparing SUITSAT for launch from the ISS

ISS012E15652

SUITSAT in space after launch from the ISS on Feb. 3, 2006

OSCAR satellite display at Udvar-Hazy Center



OSCAR 1 on display at Air and Space Museum Udvar-Hazy Center

PCSat thermal test model at Air and Space Museum Udvar-Hazy Center