

**The Passing of the Age of Innocence
or
The History of Space Science**

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Reasons for rising government expenditure on science

WW1—internal combustion engine, TNT, aircraft

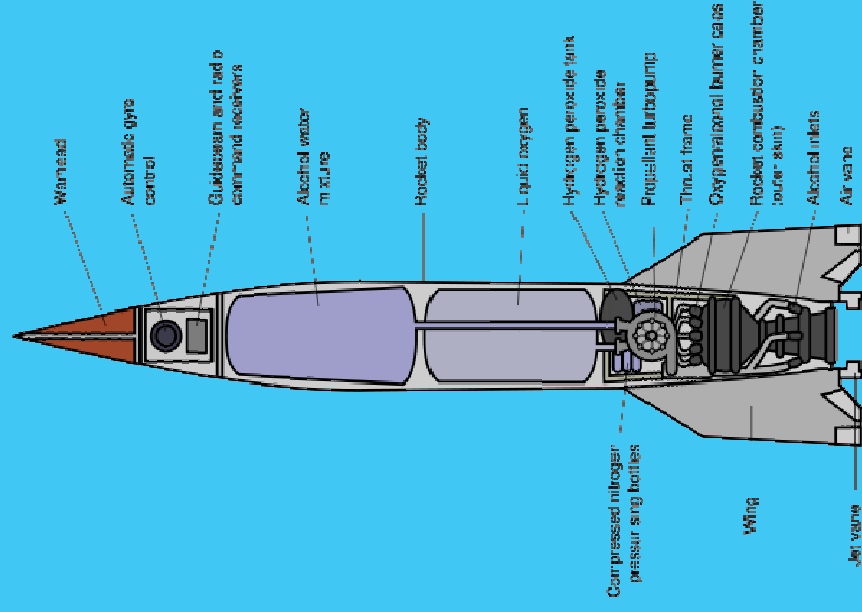
WW2—radar, atomic bombs, rocketry

The Cold War—communication, meteorological and reconnaissance
satellites

The V2

Payload 725 kg

Range 300 km



“Fathers” of Sputnik



Korolev

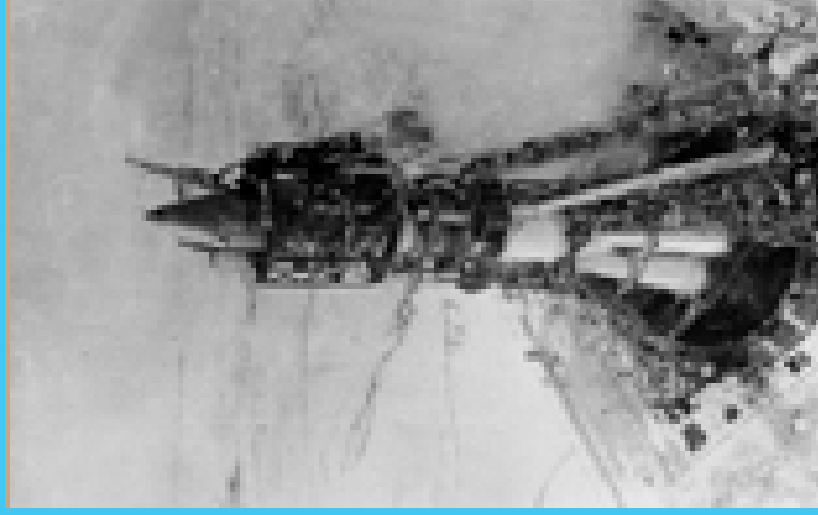
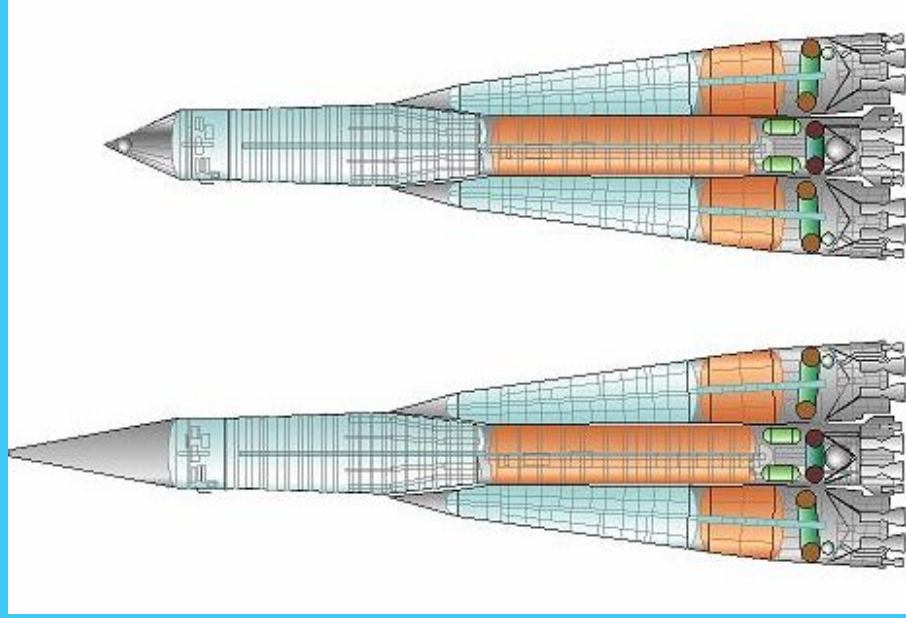


Tikonravov

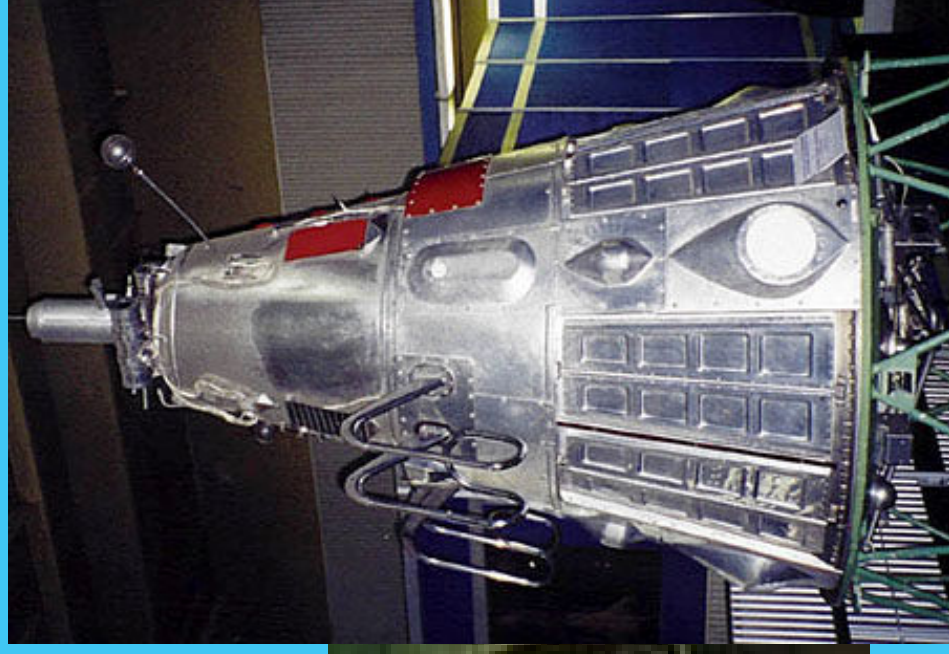
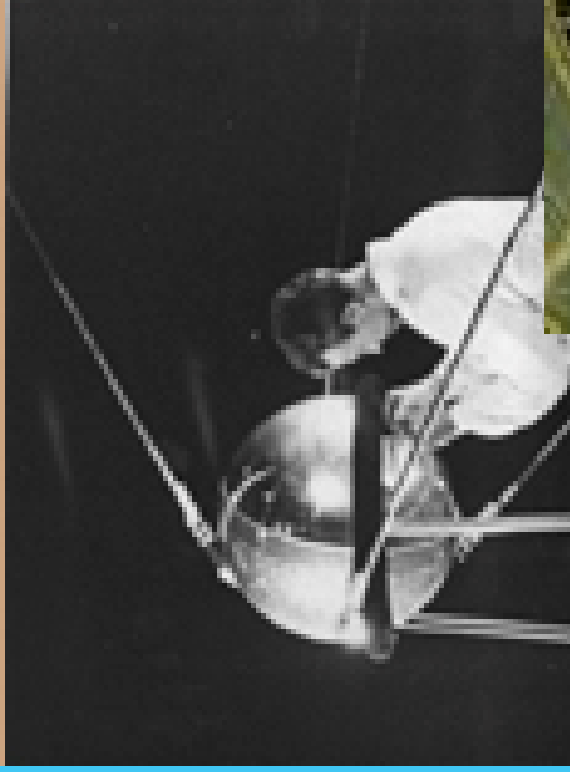


Glushko

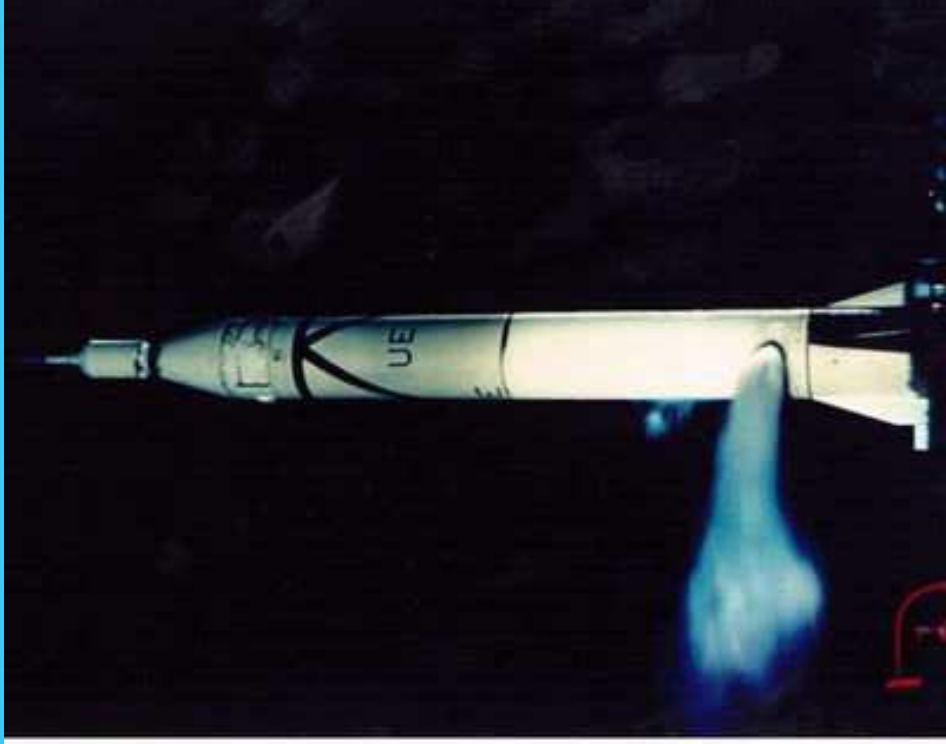
The R7



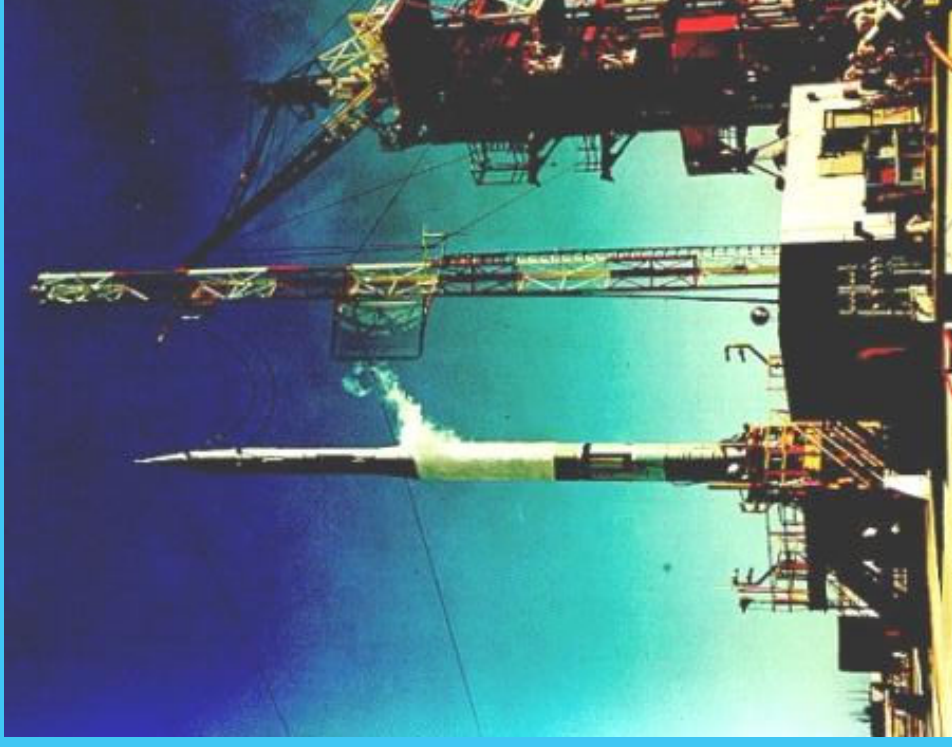
The sputniks



The opposition



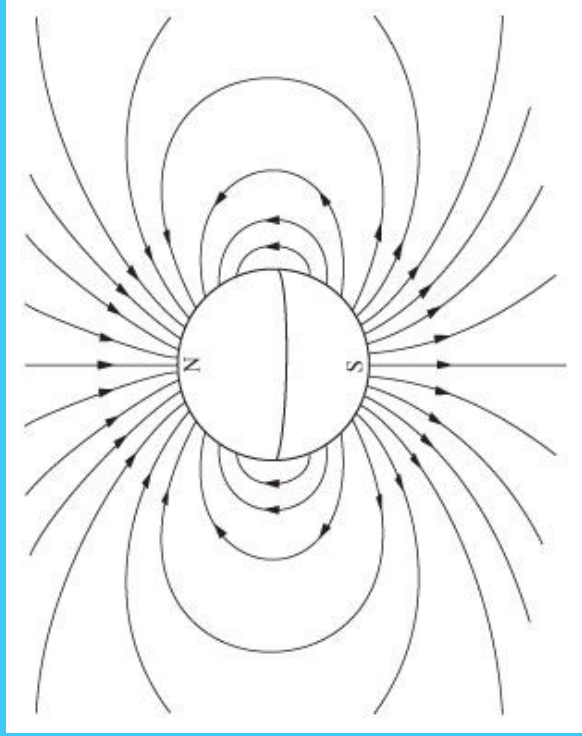
Explorer 1 lift-off



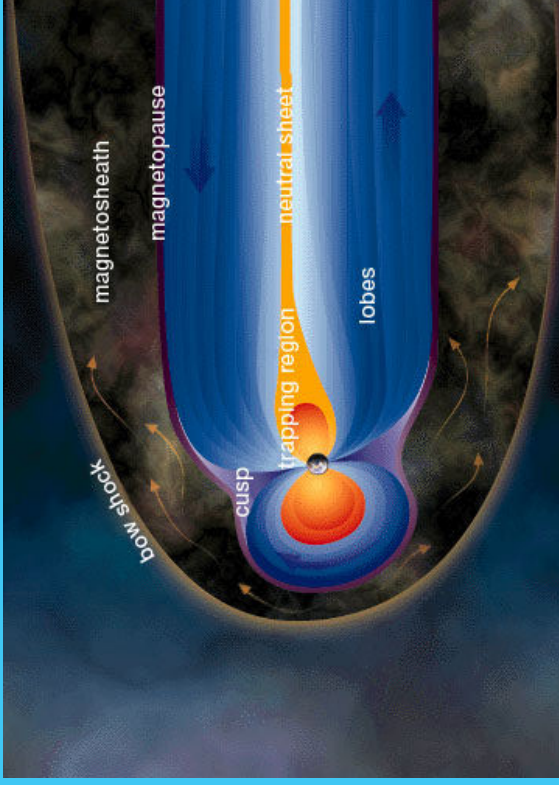
Vanguard

The heliosphere—now and then

1957



“standard” ISM:
100K, 1 H atom/cc



2008

