

54<sup>th</sup> Session of the Committee on  
the Peaceful Uses of Outer  
Space,  
June 7, 2011  
Vienna, Austria



Dr. Oleg Ventskovsky  
Director of the European  
Representation in Brussels

**YUZHNOYE**  
*d e s i g n o f f i c e*

100<sup>th</sup> Anniversary of  
Academician Mikhail Yangel,  
Missile and Space Systems  
Chief Designer

**100**  
**Anniversary**

**Mikhail**  
**Kuz'mich**  
**YANGEL**

**(25 October 1911 –  
25 October 1971)**



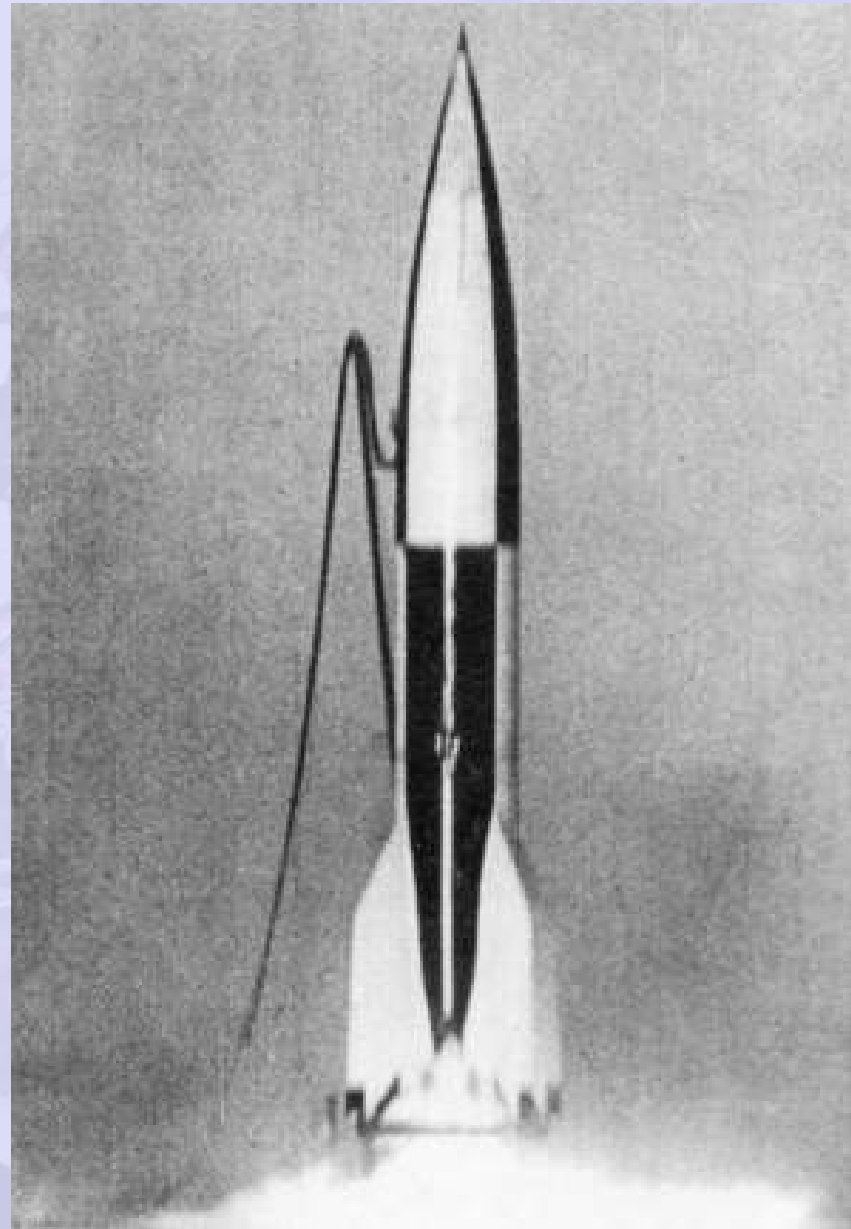


**The village of Zyryanovo. The house where the future Chief Designer was born on the 25<sup>th</sup> of October 1911**



**Just-married. Irina Strazheva and  
Mikhail Yangel. May 1939**

**Mikhail Yangel, a student of Moscow Aviation Institute**



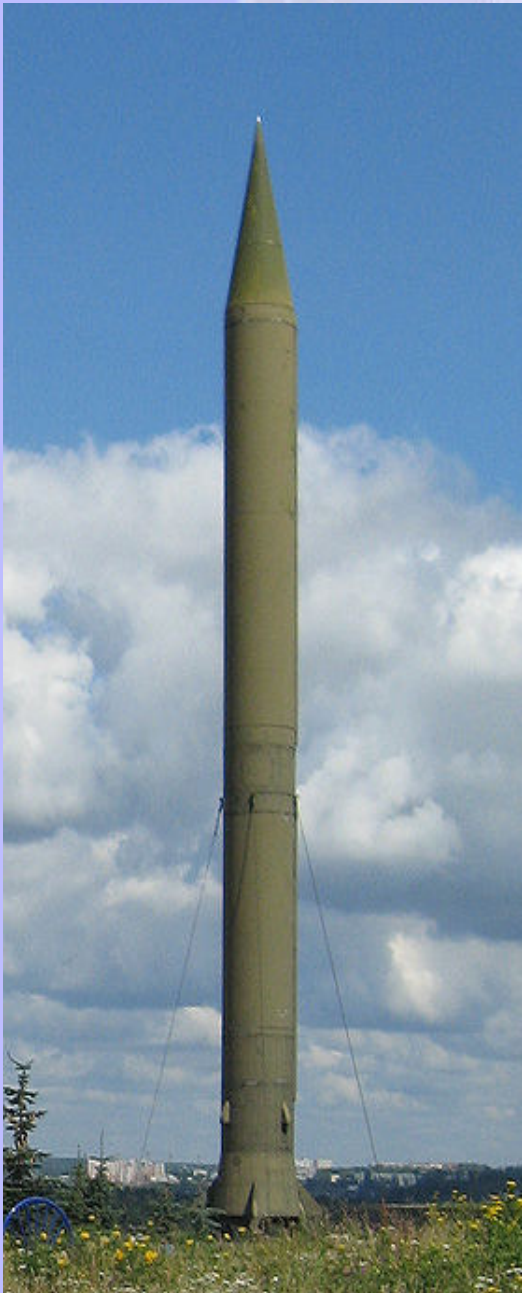
**R-1 ballistic missile**



**The building of Special Design Bureau # 586**



**Mikhail Yangel, Special Design Bureau # 586 Chief Designer, 1954**



**R-12 missile, its launch preparations and launch in 1957**

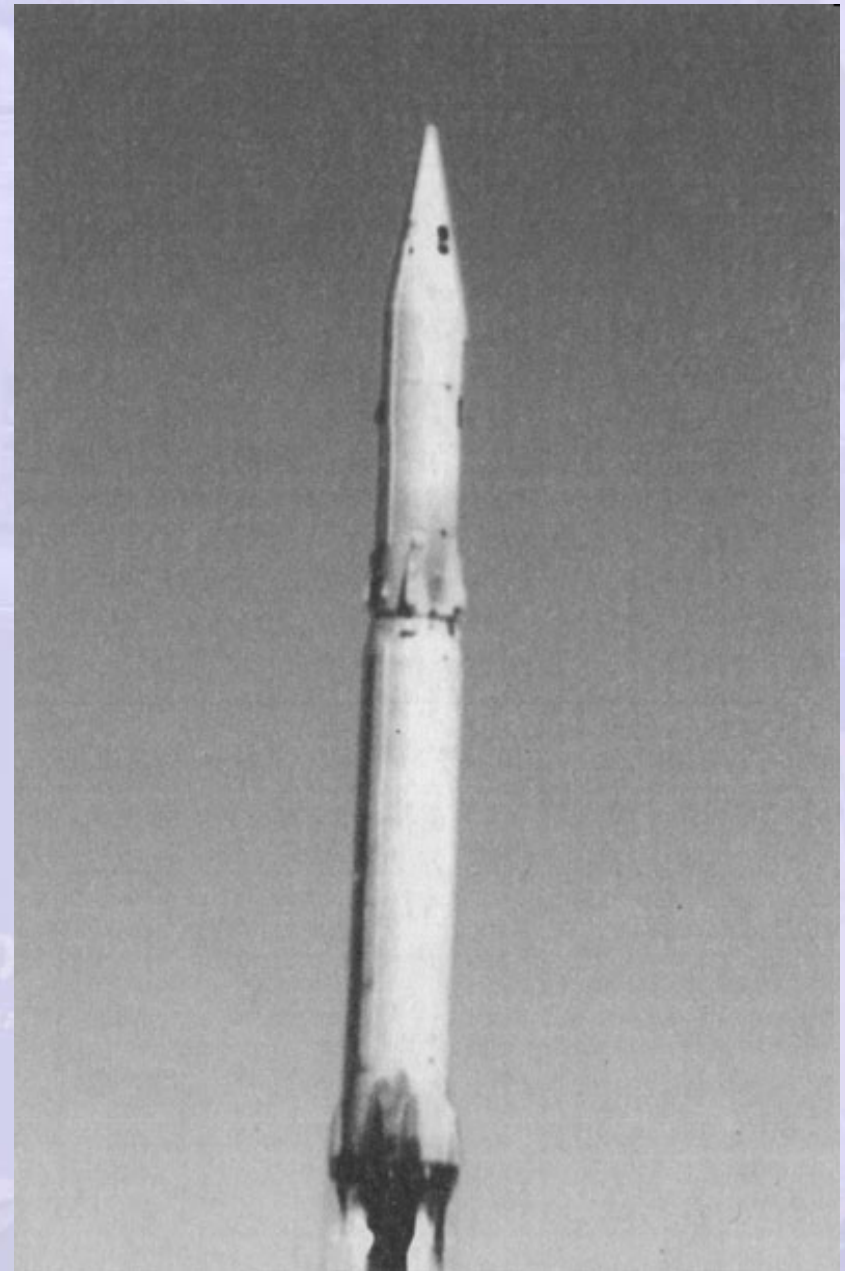




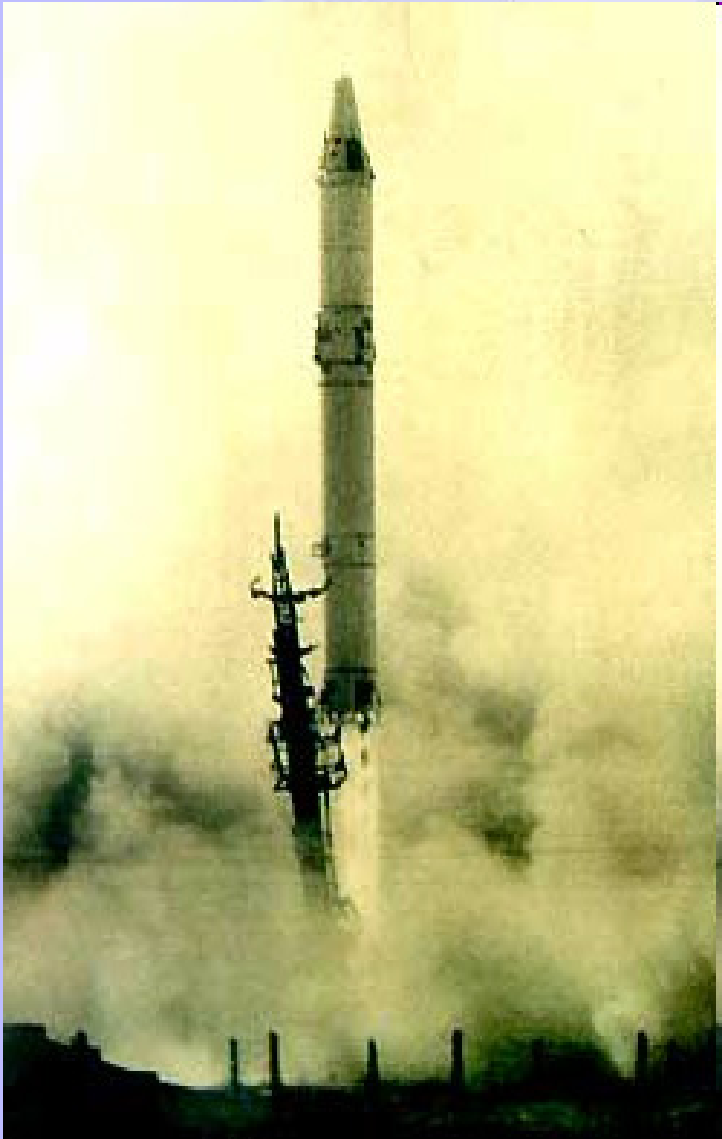
**Mikhail Yangel, Special Design Bureau # 586 Chief Designer, 1959**



**R-14 missile on a launch pad**



**R-16 missile**



**R-36 orbital missile**



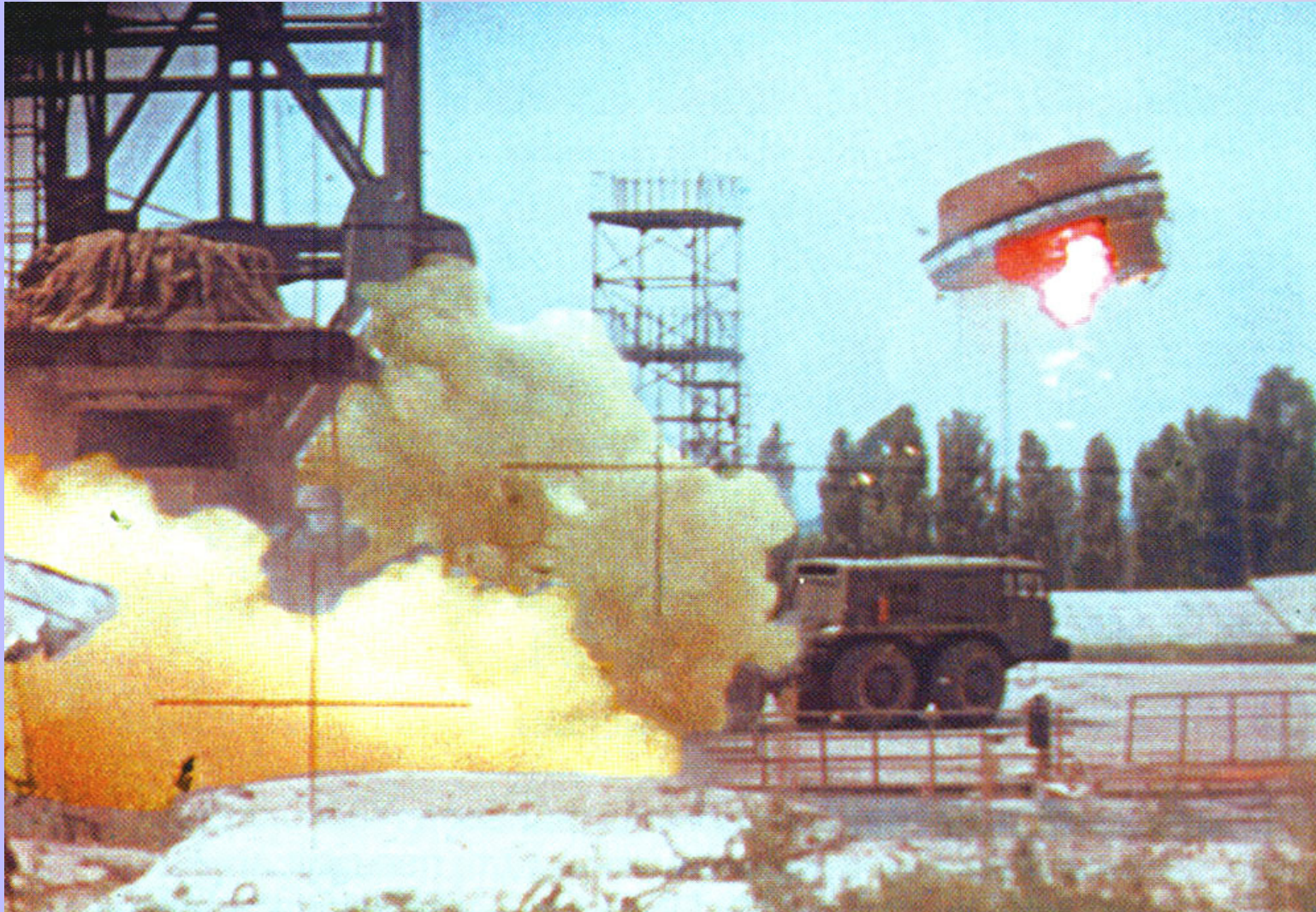
**R-36P missile with a multiple reentry vehicle payload**



**R-36M missile installation into a silo launcher**



**R-36M missile launch**



**R-36M missile steam-ejection launch demonstration, the town of Pavlograd, 1970**



R-12

R-14

R-16

R-36

R-36 w/separable head

R-36 w/guidance head

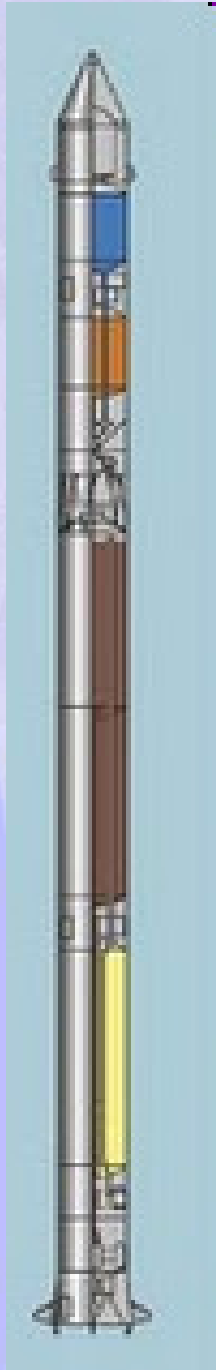
R-36 M

MR-UR100

**The missiles by Chief Designer Mikhail Yangel**



**DS-2 spacecraft**

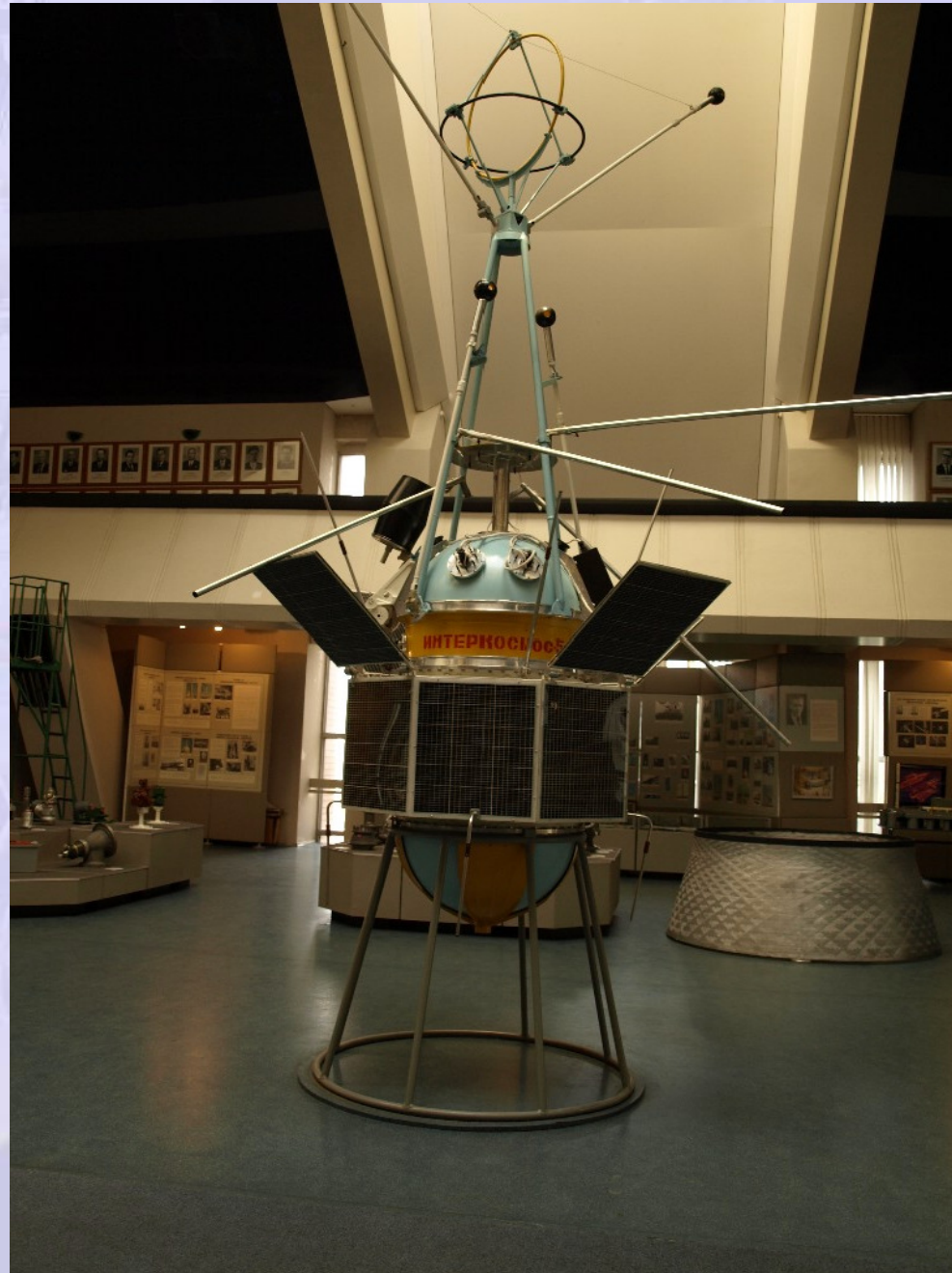


**Kosmos launch vehicle**



**Kosmos-3M launch vehicle**





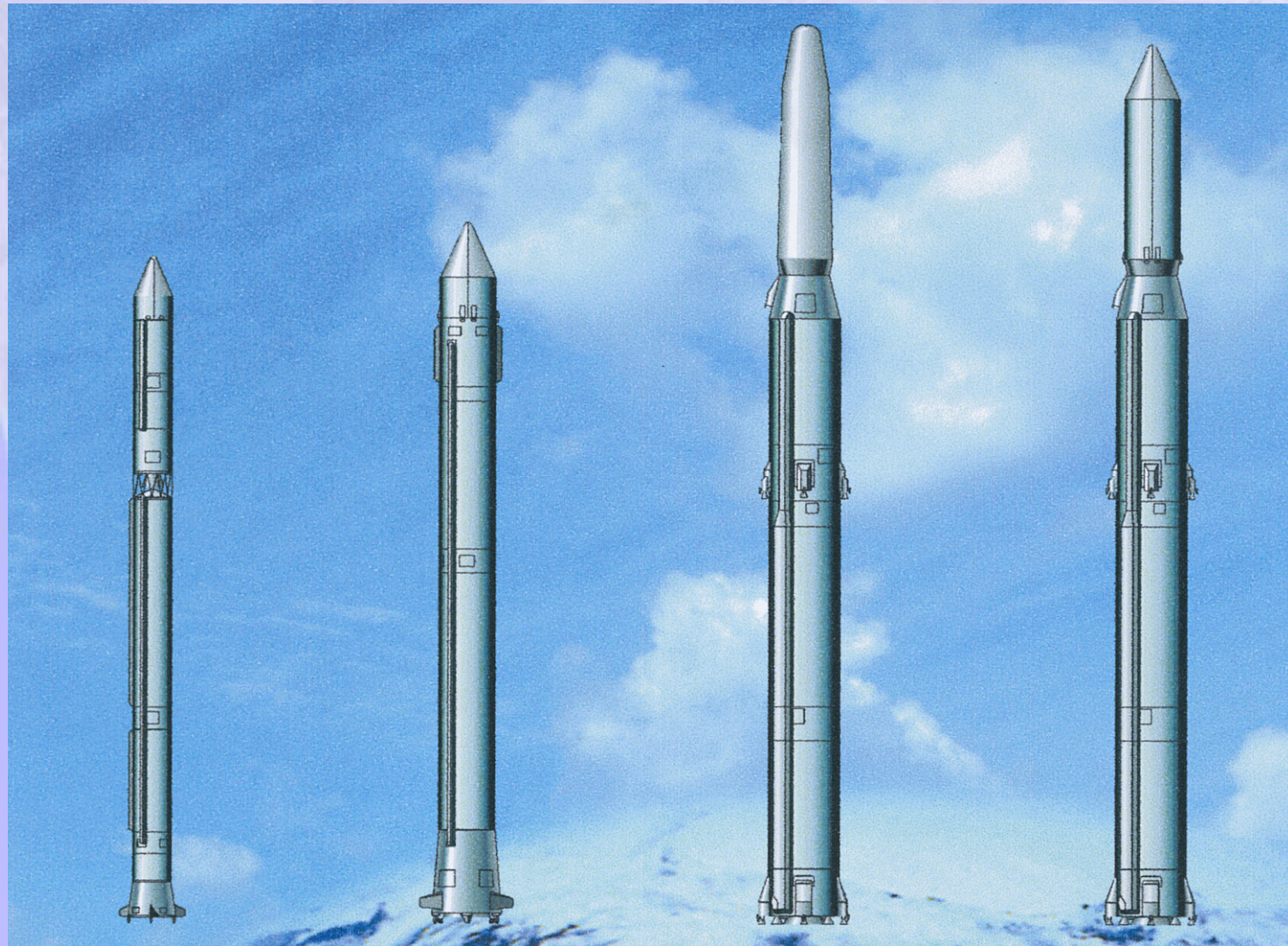
**Interkosmos-5 satellite**



**Cyclone-2 launch vehicle**



**Cyclone-3 launch vehicle**



**Kosmos**

**Interkosmos**

**Cyclone-2**

**Cyclone-3**

**The launch vehicles by Chief Designer Mikhail Yangel**



**The Baikonur launch site. Memorial to Academician Mikhail Yangel**



**Mikhail Yangel monument at Yuzhny Machine-building Plant, Dnepropetrovsk**