

ROCKET DREAMERS

AD150 – Lucian of Samosata wrote „true story“, a tale of travelers to the moon

11th Century - Song Dynasty used for the first time some exploding powder as a propellant

1232 – First flying bombs to defend Chinese city

1288 – Arab Forces used rockets in an attack of Valencia, Spain

1609 – Johannes Kepler described his laws of planetary motions

1634 – Johannes Kepler wrote a tale of an expedition to the moon

1650 – Cyrano de Bergerac suggested to use a rocket to travel into space

1687 – Isaac Newton discovered his three laws of motions, and a force called gravity.

1865 – Jules Verne „from the Earth to the moon“

ROCKET PIONNEERS

1903 – Konstantin Tsiolkovski wrote a technical book about technic to fly with a rocket. CCCP

1923 – Hermann Oberth published his book „ The Rocket into Interplanetary Space“, as not accepted as a doctor work. Germany

1926 – Robert Goddard launch first a rocket with liquid fuel. USA

1929 – Fritz Lang „ Frau im Mond“ with a real rocket of Hermann Oberth. Germany

1942, OCT 3 – Agregat 4, first flight into space by a rocket, Penemünde. Germany

THE SPACE RACE

1957, OCT 04 – Sputnik, first satellite in orbit. CCCP

1957, NOV 07 – Laika, First dog in space, Laika. CCCP

1958, JAN 31 – First US Satellite in space, Explorer 1. USA

1959 – JAN 2 - Luna 1, first spacecraft to leave Earth orbit. CCCP

1959, SEP 14 – Luna 2, first spacecraft to reach the moon and crashed successfully on its surface. CCCP

1959, OCT 7 – Luna 3 took first pictures from the backside of the moon. CCCP

1959, APR 9 – Selection of the seven Mercury Astronauts. USA

1960, MAY 30 – Selection of the first group of six cosmonauts. CCCP

1961, JAN 31 – Mercury MR-2, Chimp Ham flew into space. USA

1961, APR 12 – Vostok 1, Yuri Gagarin became the first human to fly into space. CCCP

1961, MAY 05 – Al Shepard, first American to fly into space during a sub-orbital flight. USA

1961, MAY 25 – US President John Kennedy announced to land a man on the moon before the decade is out. USA

1962, FEB 20 – John Glenn, first American astronaut in orbit. USA

1962, DEC 14 – Mariner 2 flyby Venus. USA

1963, JUN 16 – Valentina Tereshkova, first woman in space. CCCP

1965, FEB 10 - Moon rocket N1 approved for development. CCCP

1965, MAR 18 – Alexei Leonov, first spacewalk. CCCP

1965, JUN 03 - Ed White, first US spacewalk. USA

1965, JUL 14 – Mariner 4 flyby Mars. USA

1965, DEC 15 – Gemini 8, First docking in space. USA

1966, JAN 14 – Death of Chief constructor Sergey Korolev. CCCP

1966, JUN 02 – Surveyor 1, first soft landing on the moon. USA

1967, JAN 27 – Fire onboard Apollo 1, killing astronauts Gus Grissom, Ed White and Roger Chaffee. USA

1967, APR 23 – Crash of Soyuz 1, killing cosmonaut Vladimir Komarov. CCCP

1967, NOV 09 – Apollo 4, first automatic flight of the moon rocket Saturn V. USA

1968, JAN 22 – Apollo 6, first automatic flight of the Lunar Module (LM) in Earth orbit. USA

1968, SEP 18- Zond 5, unmanned spacecraft around the moon. CCCP

1968, OCT 11-22 – Apollo 7, first manned flight of the program Apollo. Crew: Wally Schirra, Don Eisele and Walt Cunningham. USA

1968, DEC 21-27 – Apollo 8, the first human flight around the moon. Crew: Frank Borman, Jim Lovell and Bill Anders. USA

1969, FEB 21 – Explosion during launch of the first moon rocket N1. CCCP

1969, MAR 03-13 – Apollo 9, first manned flight of the Lunar Module (LM) in Earth orbit. Crew: Jim McDivitt, Dave Scott, Russel Schweickart. USA

1969, MAY 18-26 - Apollo 10, first manned flight of the Lunar Module (LM) in moon orbit. Crew: Tom Stafford, John Young, Gene Cernan. USA

1969, JUL 21 – Luna 15 crashed on the moon, while trying to sample rock before USA. CCCP

1969, JUL 16-24 – Apollo 11, first men on the lunar surface. Short stay on the lunar surface. Crew: Neil Armstrong, Buzz Aldrin, Michael Collins. USA

1969, NOV 14-24 – Apollo 12, pinpoint landing. Two days stay on the lunar surface. Crew: Pete Conrad, Alan Bean, Dick Gordon.

1970, APR 11-17 - Apollo 13, mission cancelled after an explosion on board. Crew: Jim Lovell, Fred Haise, Jack Swigert. USA

1970, NOV 17- Luna 17, first automatic rover named Lunokhod on the lunar surface. CCCP

1970, DEC 15 – Venera 7, first soft landing on Venus. CCCP

1971, JAN 31-FEB 9 – Apollo 14, first landing in a mountainous terrain. Two days stay on the lunar surface. Crew: Al Shepard, Edgar Mitchell, Stu Roosa. USA

1971, APR 19- Sayut 1, first Space Station in Earth orbit. CCCP

1971, JUL 26-AUG 7 – Apollo 15, first extended scientific mission on the moon. First time with a moon rover. Three days stay on the lunar surface. Crew: Dave Scott, Jim Irwin, Al Worden. USA

1971, DEC 2 – Mars 3, first soft landing on Mars. CCCP

1972, APR 16-27 - Apollo 16, first landing on a highland of the moon. Three days stay on the lunar surface. Crew: John Young, Charlie Duke, Ken Mattingly. USA

1972, DEC 7-19 - Apollo 17, last mission on the moon. Three days stay on the lunar surface. Crew: Gene Cernan, Jack Schmitt, Ron Evans. USA

1973, MAR 25-JUN 22 – Skylab 2, first manned mission in the first US space station. Crew: Pete Conrad, Joseph Kerwin, Paul Weitz. USA

1975, JUL 15-24 – Apollo-Soyuz, first joint space flight between Soviets and Americans, marking the official end of the space race. USA-CCCP

1976, FEB 17- Soviet manned lunar program officially abandoned. CCCP