



Space Tourism, Space Commercialisation and the Development of Space Law

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First Man in Space (12 April 1961): Yuri Gagarin



'That's one small step for man, one giant leap for mankind.' (Neil Armstrong, 1969)



China's manned flight in 2003 and moon sample in 2020



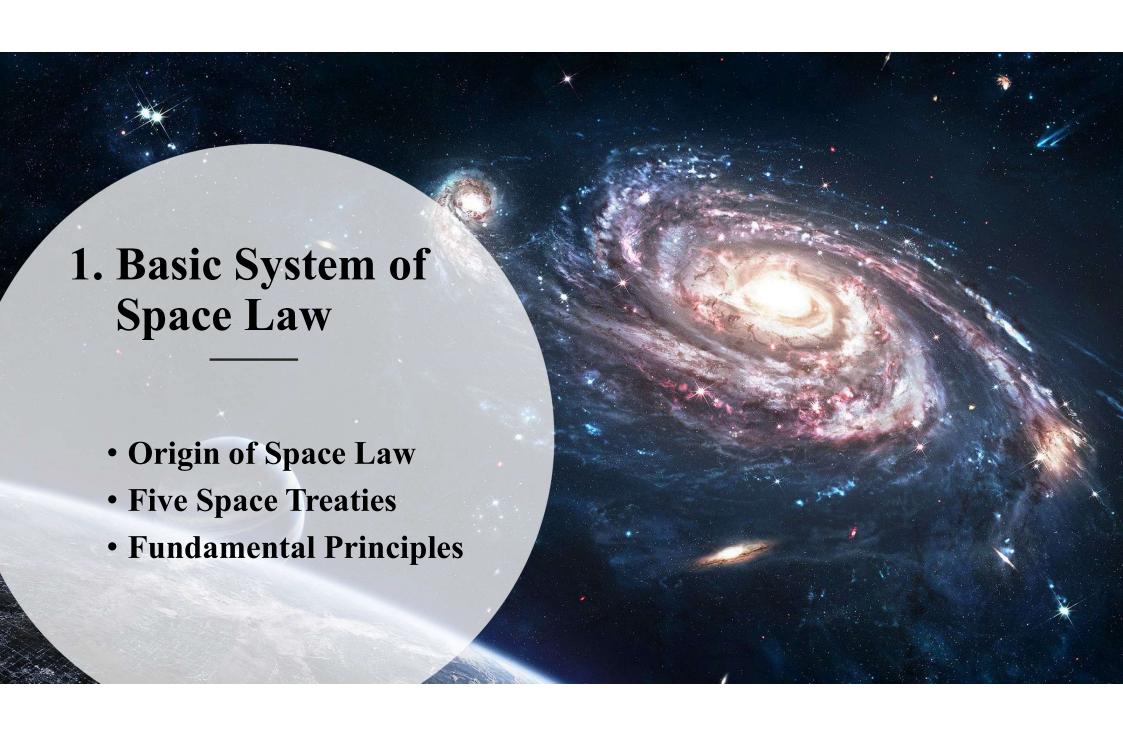


The Space Race

- Space: The Final Frontier
- USSR:
 - Sputnik 1, 1957
 - First man-made object launched into space
 - Yuri Gagarin, 1961
 - First man in space
- USA The manned moon landing, 1969
- Need for setting up specific rules to regulate space activities







Space Law: Pre-Sputnik Years

- First monograph on space law published in Germany in 1932 By Vladimir Mandl (Father of Space Law)
- First doctoral thesis on space law by Welf Heinrich in Germany in 1953 (Air Law and Space)
- Topic of space law first debated in International Civil Aviation Organization (ICAO) in 1956

Origin of Space Law

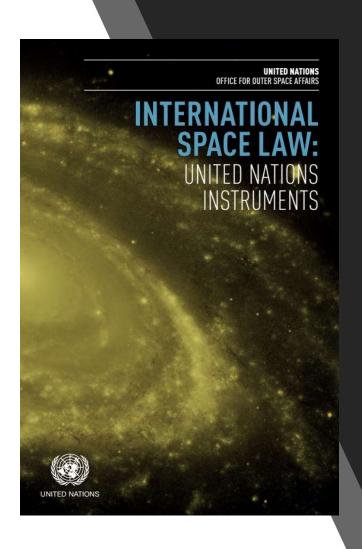
- 1958 UNGA: need for international cooperation
- 1958-1959 creation of the United Nations Committee on the Peaceful Uses of Outer Space (UNCOPUOS): forum for the negotiation of space law treaties
- 1961 UNGA Resolution: international cooperation
- 1963 UNGA Resolution: Legal Principles: nonbinding











Five Space Treaties

- Outer Space Treaty 1967: 107 States
- Rescue Agreement 1968: 96 States
- Liability Convention 1972: 95 States
- Registration Convention 1975: 67 States
- Moon Agreement 1979: 18 States

See: UN Doc. A/AC.105/C.2/2018/CRP.3

Fundamental Principles of Space

- Free Exploration and Exploitation
- Province of Mankind
- Non-appropriation
- International Cooperation
- Peaceful Uses of Outer Space







Space Commercialisation

- Increasing Number of Participants
- Increasing Private Capital Investment
- Exploitation of Space Resources
- Challenges Faced by Space Law



Space Environment and **Space Security**

- Increasing Space Debris and Harmful Interference
- Legal Dilemma of Active Removal of Debris
- Space Orbit Congestion
- Threat of Space Weaponisation

Long-Term Sustainability of Outer Space Activities

- 2010-2018 UNCOPUOS LTS Project
- UNISPACE+50 (1968-2018)
- LTS and Space Law







Space Travel



- Space Tourists Envoys of Mankind?
- Space Hotel property right
- Space Traffic Management



The U.S. Commercial Space Launch Competitiveness Act (H.R. 2262) in November 2015

- Title Four: Space Resource Exploration and Utilization (3 sections)
 - Definition: asteroid resource; space resource; United States citizens
 - promotion of the right of private entities to engage in commercial exploration and utilization of space resources
 - Private entities shall be entitled to any asteroid resource or space resource obtained, including to possess, own, transport, use and sell the resource
 - The US does not assert sovereignty or sovereign or exclusive rights or jurisdiction over, or the ownership of, any celestial body.

Response from the International Society

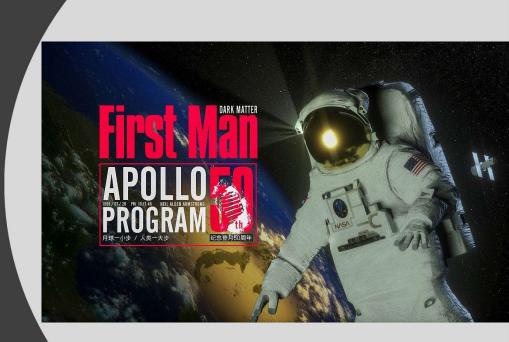
- International Institute of Space Law (IISL) Position Paper in December 2015:
 - No clear prohibition on the taking of space resources
 - The Act pays respect to international legal obligations of the US
 - It is an open question whether this legal situation is satisfactory.
- Luxembourg followed suit by enacting Law on the Exploration and Use of Space Resources in July 2017

The Legal Nature of Space Resources

- 'Space resources' first appeared in the Moon Agreement
- Common Heritage of Mankind (res communis in Roman Law)
 - No sovereignty or claim sovereignty
 - All countries share in the management of the area
 - The benefits derived from the exploration must be shared with all
 - The area must be dedicated to peaceful purposes
 - The area must be preserved fro future generation
- UNCLOS: deep seabed resources
- CHM is only a system in the law of sea field, not yet customary international law
 - The Moon Agreement: 18 member states
 - UNGA Resolution No. 2749: (118 affirmative vote, 0 negative, 18 abstention): only indicating the acceptance of the term, but does not mean anything accepting the term as a law

Concluding Remarks

- Space commercialisation and privatisation as the ongoing trend
- International cooperation as a cornerstone: multilateralism v. unilateralism
- Diversification of space law legislation
 - UN: no more the only forum for space legislation
 - National space legislation: becoming more important





Thank You

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