

## Proposal for Forming an IAA Study Group S 5.2

**Title of Study:**

**”SPACE POLICY AND ENVIRONMENTAL PROTECTION OF THE MOON”**

**Proposer: Claudio MACCONE, Ph. D. – Full Member of the IAA since 2001.  
Co-Vice Chair of the IAA SETI Permanent Study Group  
1999 IAA Engineering Sciences Book Award**

**Primary IAA Commission Preference: 5: Space Policy, Law and Economics**

**Members of Study Team**

**Chair: Claudio MACCONE (Italy)**

**Other Members (tentative): Ray A. WILLIAMSON (USA), Vincent C. BOLES (USA), Ronald J. WHITE (USA), Wendell W. MENDELL (USA), William J. O’NEIL (USA), Debra F. LEPORE (USA), Inessa B. KOZLOVSKAYA (Russia), Kazuyoshi YAJIMA (Japan), Vladimir KOPAL (Czech Republic), Joan VERNIKOS (USA), Bernard FOING (ESA - France), Karlheinz KREUZBERG (Germany), Hermann KOELLE (Germany), Rupert GERZER (Germany), and other Members TBD.**

**Short Description of Scope of Study**

**Overall Goals: ASCERTAIN THE ENVIRONMENTAL ASPECTS OF THE MOON THAT DESERVE TO BE PROTECTED AND OUTLINE THE FUTURE SPACE POLICY TO DO SO.**

**Intermediate Goals:**

- 1) Determine the environmental consequences of a Moon Base.**
- 2) Consider the legal protection of the central area of the Farside of the Moon as the best location to receive electromagnetic waves “CLEAN” from man-made radio pollution.**
- 3) Outline the “cleanest” and easiest astronomical ways to keep the radio LINK between the Moon (Farside included) and the Earth.**

**Methodology:** Experts from the most diverse fields (Space Sciences, Space Systems Technologies, International Legal Studies about the Moon, etc.) are requested to contribute to this Cosmic Study of IAA. Some coordination with the ILEWG is being sought. Space Agencies like NASA, ESA, RKA, and ISAS are expected to take interest in this IAA Cosmic Study.

**Time Line:** The Study should be completed in three years after start.

**Final Product (Report, Publication, etc.):** The Cosmic Study will be published in a BOOK FORM as a supplement to the IAA Journal Acta Astronautica. Every effort will be made to shorten the publishing time.

**Target Community:** 1) Space Agencies like NASA, ESA, RKA, ISAS and the smaller, national Space Agencies. 2) Astronomers (VLBI and Parallaxes) and Astrophysicists (Radio Images, Cosmology). 3) Humankind as a whole.

**Support Needed:** 1) Software for Moon Mission Analysis (presumably JPL). 2) Support from International Telecommunications Union (ITU) for frequency selection. 3) Support from the International Astronomical Union (IAU) about parallaxes and VLBI. 5) Support from the International Academy of Astronautics about Space Technologies. 6) Support from the International Institute of Space Law about the Moon International Status. 7) Financial Support from Space Agencies like NASA, ESA, RKA, ISAS and the national space agencies. 8) Possible United Nations Support for SETI-related aspects.

**Potential Sponsors:**

*To be returned to IAA Secretariat Paris fax: 33 1 47 23 82 16 email: [sgeneral@iaonet.org](mailto:sgeneral@iaonet.org)*

**Date: 28 September 2004**

**Signature: Claudio Maccone**

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