

SPACE EXPLORATION SYMPOSIUM (A3)  
Moon Exploration – Part 1 (2A)

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2013: HUMAN OBSERVATION FROM THE MOON**Abstract**

ILOA, with four active lunar missions and a robust Galaxy 21st Century Education program, continues to establish itself as a pioneer in Observation and Astronomy from the Moon. These four missions will enable the international ILOA teams the opportunity to participate and observe the Galaxy / Stars, local lunar environment, and Earth with various wavelengths, for differing durations, and from various lunar locations. They will also help to secure Hawaii's leadership in Astronomy for the next 100 years.

Human Service Mission to the ILO on Moon South Pole is being advanced to high priority through newly-developing collaboration / partnership with Golden Spike Company of Colorado, USA. ILOA is now part of a distinguished team of organizations conducting a cutting-edge study to initiate development of a Human Lunar Lander. The goal of GSC and ILOA is to achieve a Human Moon mission within the decade.

In September 2012, ILOA signed a MoU with the National Astronomical Observatories of the Chinese Academy of Sciences (NAOC-CAS) allowing ILOA scientists to conduct Galaxy Observations with the UV telescope aboard the Chang'e-3 lunar lander in 2013.

ILO-1, the original ILOA mission, will see a multifunctional 2-meter dish observatory placed near the South Pole of the Moon. The mission (NET 2015) will conduct radio astronomy, including Galaxy First Light Imaging Program; and Commercial Communications, including Space Calendar Lunar Broadcasting, while serving as a beacon for lunar base buildout. ILOA is working with MDA of Canada to develop the scientific payload for ILO-1.

ILOA is teaming with the Google Lunar X Prize Team Moon Express on a precursor mission known as ILO-X. For this mission, ILOA will place a 10-cm optical telescope on the team's lunar lander scheduled for 2015.

ILOA Galaxy Forum is a successful 21st Century Education Program held regularly in cities, countries and continents all over the world. Already active in Asia, North America, Europe, Africa and Hawaii, the program is expanding to South America and Antarctica 2013-2014. The Forums connect Galaxy researchers and local educators to help bring Galacticity / Galaxy consciousness into every class.