

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
Calling Planet Earth - Space Outreach To The General Public (4)

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Abstract

Introduction: ILOA principal activities for 2011 include continuing collaboration on ILO-1 long duration scientific / commercial mission to Moon South Pole with Google Lunar X Prize team Odyssey Moon and MDA Canada, on ILO-X precursor with GLXP team Moon Express and Intek, and on Human Service Mission with American and international space enterprise pioneers. ILOA Galaxy Forum architecture for 21st Century education and fundraising is advancing strongly with events throughout Hawaii, across the USA and around the world. ILOA Directors meetings in 2011 set for Silicon Valley, Capetown and Hawaii.

ILOA Precursor Mission ILO-X, with 2.5kg instrument is now being designed and developed by Intek Ltd of Canada for integration on Moon Express to the lunar surface as early as mid-2013. ILO-X observation (including Galaxy First Light Imaging) and communication (including Space Calendar Lunar Broadcasting) functions will be tested on Mauna Kea, Hawaii in 2011.

ILOA long duration mission ILO-1, designed since 2003 by SpaceDev Inc of USA and being continued by MDA, will establish permanent astrophysical observation and lunar science and commercial communications systems in an area on the Moon where robotic and human buildout will occur. This may include a landing site in the mountainous South Pole region as determined by thorough GIS analysis of China Chang'E-1 and Chang'E-2, India Chandrayaan-1, Japan Kaguya, Europe Smart-1, and USA LRO, Prospector, Clementine, Arecibo and Apollo data.

ILOA Human Service Mission, with studies completed in 2005 and 2006 utilizing Dream Chaser (by SpaceDev, now Sierra Nevada Corp), ALOHA Lander, and Bigelow Habitat, is being networked and planned as part of an independent-national-international science and commerce collaboration to service and support the ILO/s and parallel robotic lunar village facilities by 2015-2020, and emerging lunar base settlements.

With its Space Age Publishing Company affiliate, ILOA is designing a Galaxy Forum architecture. The program utilizes Galaxy Forums to advance general science education for teachers and students across all classrooms, and to identify support for this 21st century general science education initiative. Galaxy Forums 2011 include USA events in Hawaii, California, Kansas, New York and globally in Canada, China, India, Europe, Japan, South Africa, with the theme "Galaxy 21st Century Education".

ILOA is an interglobal enterprise incorporated in Hawaii as a 501 (c) (3) non-profit to help realize the multifunctional ILO – to advance human knowledge of the Cosmos and Galaxy through observation from our Moon – and to participate in lunar base build-out.