

## Japan Geoscience Union Meeting 2010

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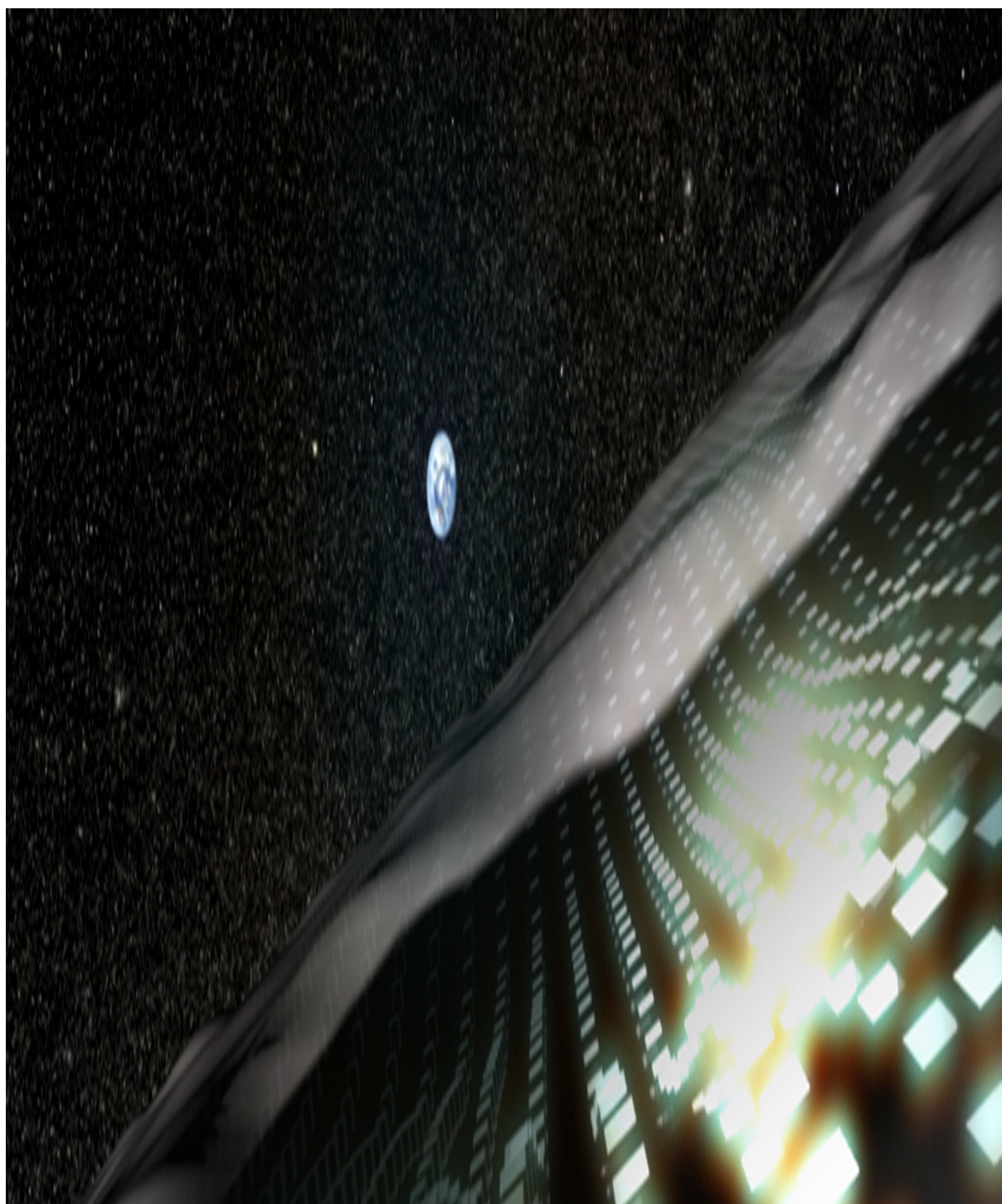
Room: Exhibition hall 7 subroom 2

Time: May 24 16:45-17:00

### The creation of movie using the data of KAGUYA

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Japanese lunar orbiter KAGUYA (SELENE) was launched by the Japan Aerospace Exploration Agency (JAXA) on September 14, 2007. KAGUYA carried 14 scientific instruments to investigate the lunar origin and evolution and to develop the technology for the future lunar exploration. One of the instruments, LALT (Laser ALTimeter), observed the altitude of the lunar surface very accurately. Using the LALT data, we have created the movie "Entire Topography of lunar Surface." After the data was first processed by RISE (Research In Selenodesy) project, we imported them to MAYA which is a high-end 3-D computer graphics software to visualize the lunar surface. In this movie, the entire topography of the lunar surface is reconstructed by converting the data from a cubic model to a surface model with artistic visual effects. This movie is available on the web site of 4-Dimensional Digital Universe (4D2U) project. The stereoscopic version is also available.

Keywords: KAGUYA, SELENE, LALT, moon, visualization