

Call for Papers: Special Issue of Earth, Planets and Space (EPS) “New Results of Lunar Science with KAGUYA (SELENE)”

The science of/on/from the Moon are now being investigated with the Japanese lunar orbiter “KAGUYA”—its original code name is SELENE (SELenological and ENgineering Explorer)—that was launched on 14 September 2007. This mission has finalized its nominal observation phase and now extends its duration for further scientific studies. A variety of experiments have been carried out using 14 onboard instruments and 2 sub-satellites (OKINA and OUNA). Investigation of high resolution geologic and topographic features, mineral and elemental composition, structures of subsurface interior, precise gravity and magnetic fields has been conducted for the whole lunar surface. Lunar surrounding environments such as charged particles, cosmic rays, and tenuous exospheric conditions are also measured. In addition, the terrestrial aurora and exosphere, cosmic radio waves are studied from the lunar orbit.

The 3rd SELENE “KAGUYA” science working team meeting was held on 14–15 January 2009 at the Campus Innovation Center Tokyo, in Tokyo, Japan, and made discussions on the science of/on/from the Moon, especially aiming at promotion of data analysis of each instrument as well as interdisciplinary sciences. New techniques for data analysis and laboratory and numerical studies were also discussed.

In view of the great success of the meeting, we propose a proceeding of the SELENE “KAGUYA” science working team meeting as a special issue of Earth, Planets and Space. The publication will not be limited to those papers presented in the meeting and, therefore, we encourage contributions from anybody interested. Contributors to this special issue should submit their papers to the EPS editorial office either by post or by e-mail (eps@terrapub.co.jp), following the instructions for regular EPS submission. For details, please visit the following web page:

<http://www.terrapub.co.jp/journals/EPS>, and click on “Information for Contributors”.

Please state “For Special Issue for New Results of Lunar Science with KAGUYA (SELENE)” clearly in the covering letter that accompanies the submission. We encourage electronic submissions. After papers are accepted, the authors will receive instructions for the final manuscript from the editorial office. The deadline for manuscript submissions for this special issue is 31 May 2009. This special issue will hopefully be published by the end of 2009.

For more information on this special issue, please contact the corresponding editor (T. Okada, okada@planeta.sci.isas.jaxa.jp, or okada.tatsuaki@jaxa.jp); questions on manuscript preparation should be addressed to the EPS editorial office.

Note: EPS accepts manuscripts of original research contributions only, and so-called “review papers” will not be accepted. EPS will review all the manuscripts before publication.

Guest Editors: Tatsuaki Okada, Japan Aerospace Exploration Agency (JAXA), Japan
Manuel Grande, University of Wales, Aberystwyth, UK
Jürgen Oberst, German Aerospace Center (DLR), Germany
Sho Sasaki, National Astronomical Observatory (NAOJ), Japan