Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

©2013. Japan Geoscience Union. All Rights Reserved.

PPS22-P07

Room:Convention Hall

Time:May 22 18:15-19:30

Lunar and planetary explorations in a coming decade: Current status and ongoing schedule

Noriyuki Namiki1*, Naoki Kobayashi2, Hirohide Demura3, Keiji Ohtsuki4

¹PERC/Chitech, ²Department of Planetary Science, ISAS, ³The University of Aizu, ⁴Kobe University

Future Planetary Exploration Working Group of Japanese Planetary Science Society is discussing planetary explorations that will be strongly supported by this community. Then we started "Planetary Exploration in a Coming Decade" activity in 2010 aiming to organize a new mission to be launched between 2017 and 2027. The first stage of the activity is ending in March, 2011. A summary of the first stage will be reported by 5 panels; (1) terrestrial solid planets, (2) terrestrial atmosphere and magnetosphere, (3) minor body, (4) Jovian planets, icy satellites, and exoplanets, and (5) astrobiology. Each panel received proposals regarding "top sciences" of each category from the community in the summer of 2010. On September 10 in 2010, an open meeting was held at Kobe University to discuss top sciences among the community of planetary scientists. From the summer of 2011, the second stage began. Proposals for new mission and instruments were submitted by 13 groups and were adivsed by the second-stage committee not only to improve the proposal, but also to raise and develop exploration groups. In 2012 May, the thrid stage started. The main purpose of the third stage is to polish up the proposls in the view of feasibility. In September 14 and 15, 2012, we held a workshop to integrate individual proposals into a few comprehensive mission plans, such as in-situ chronology and interior exploration of the moons and planets, primitive small body exploration, and sercha of life on Mars. The mission concepts of these comprehensive mission plans will be discussed for later evaluation by the third stage committee.

Keywords: Planetary exploration