

Mission Statement for President of AOGS Planetary Science Section

My mission for the AOGS planetary science society is to promote the international cooperative activities originated by Asian and Oceanian regions for future planetary science and associated technological and educational development so that the opening of a new trend in space and a planetary era for inter-planetary human activities is well prepared for our next generation.

Major activities to accomplish this mission will involve:

1. Promoting both research collaboration and educational outreach programs among academic and research institutions for future planetary exploration with international organizations, such as NASA, ESA, and others,
2. Establishing research and educational groups for specific tasks
 - A. AOGS organized a workshop on future lunar landing sites
 - B. AOGS Moon-Mars ISRU (In-Situ Resource Utilization) working group
 - C. Any urgent, specific tasks with international efforts by the AOGS PS section
3. Increasing communication activities among AOGS planetary society members
 - A. Sending out monthly AOGS Planetary Society News Letters
 - B. Publishing the AOGS Planetary Society Member List
4. Promoting and establishing scholar exchange and educational programs

My experiences beneficial toward a president of Planetary Science Section of AOGS:

Employment history and projects: I currently work as the Head of Space Resource Exploration and Utilization Center at Korea Institute of Geoscience and Mineral Resources (employed since 2007). I have worked at NASA (Ames Research Center 2013/2014), Univ. Science and Technology (Korea, 2010-present), Chungnam National University (Korea, 2010-2013), Univ. of Arizona (Lunar Planetary Laboratory) Univ. of Mexico (Institute for Meteorites), Institute of Geological and Nuclear Sciences (New Zealand), and San Jose State University. I was involved in various projects of planetary exploration, such as Mars Odyssey GRS, SELENE-1 GRS, SELENE-2 AXS (pre-project), NASA/SSERVI (FINESSE), NASA/SSERVI (RESOURCE), and KPLO GRS (KGRS).

Community services: AOGS PS19 (Lunar Science and Exploration, 2011-present, co-convener); NASA's International Observe the Moon Night (2019-present, even organizer (Korea)). Journal of Astronomy and Space Science (2020 – present, editorial committee member (planetary science)), International Symposium on Remote Sensing (Planetary Remote Sensing Session 2009-2018, organizer); SELENE Symposium 2013 (Science Organizing Committee Member); COSPAR Session B0.1 science committee member (2014 ~ 2018, co-convener); ISLPL (Summer School for Planetary Science and Exploration in East Asia, committee member), Handbook of Lunar Base Design and Development (section editor), and Nuclear Planetary Science: Planetary Science Based on Gamma-Ray, Neutron and X-ray Spectroscopy (co-author).

Educational activities (As an organizer): The 1st Space ISRU Technology Workshop, KIGAM (2022), Forum on Lunar Resource Prospecting and Utilization (LRPU), Korea (2022), Creative Geo Camp: Planetary Geological Exploration for teachers, 2010~2018; Bilateral Planetary Geology workshop since 2008 - present; The 2nd Planetary Educational Program at KIGAM, SELENE-1 (Kaguya) Data Analysis and Applications (2012) Short course: Training Course on Planetary Exploration of the Solar System: International School for Geoscience Resources at KIGAM (2010); Symposium of the Science and Utilization of the Moon at Waseda University (2010); The 1st Korean Planetary Science Workshop (2011), The 3rd International Planetary Workshop at KIGAM/Lunar Science and Lunar Resources (2012); The 1st Korean Lunar Landing Site Workshop (2016); The 1st ISRU workshop at KIGAM (2022)