

## KYEONG JA KIM

Head, Space Resource Exploration and Utilization Center, Geology & Space Division, Korea Institute of Geoscience and Mineral Resources (KIGAM), Daejeon, 34132 Republic of Korea.

### EDUCATION:

Post Doc – University of New Mexico (NASA Mars Odyssey GRS & NASA Cosmochemistry Program)

Ph.D. – Victoria University of Wellington, New Zealand (Geology/cosmogenic nuclide dating)

M.S. – San Jose State University, USA (Radiological Health Physics/gamma ray spectrometry)

B.S. – Gyeongsang National University (Physics), Republic of Korea

### WORK HISTORY

12/2006-Present Head(2023~)/Principal Researcher, Space Resource Exploration Center, Geology & Space Division, KIGAM

9/2013-8/2014 Visiting Scientist at Planetary Science Branch, NASA Ames Research Center

3/2010-8/2013 Adjunct Professor, Chungnam National University, College of Natural Sciences, Dept. Astronomy and Space Science, Korea

3/2010-Present Professor, KIGAM School (Resource Engineering) University of Science and Technology, Korea

5/2005-11/2006 Assistant Staff Scientist, Lunar and Planetary Laboratory, Univ. of Arizona

5/2002–04/2005 Postdoctoral Research Associate, Institute of Meteoritics, Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, NM, USA

12/1996–2/2002 Permanent Staff Member (Scientist), Natural Resources Group at the Institute of Geological and Nuclear Sciences (IGNS), Ltd., Lower Hutt, New Zealand.

1994–2002 Participating guest at Center of Accelerator Mass Spectrometry at LLNL, Livermore, CA, USA (Accomplishment of MSc and PhD research projects)

9/1993–9/1996 Research Assistant at Nuclear Science Facility at Jose State University, USA (Mars Observer Mission & NASA Cosmochemistry Program)

### PLANETARY MISSION/ ASSOCIATED RESEARCH EXPERIENCE

2016 – Present Korea Pathfinder Lunar Orbiter, Gamma-Ray Spectrometer (GRS) (PI)

2019 – 2024 NASA RESOURCE Program (Foreign Collaborator)

2018 –2021 NASA, MARS Data Analysis Program (MDAP), Clarifying regional scale regolith hydration processes on Mars (Foreign Collaborator)

2015 – 2018 Development of EMs of GRS-NS for lunar geology & resources (PI)

2014 – 2018 NASA FINESSE Program (Foreign Collaborator)

2008 – 2016 SLENE-1 GRS (Co-I)

2011 – 2015 pre-project SELENE-2 AXS (Active X-ray Spectrometer) (Co-PI)

2002 – 2006 Mars Odyssey GRS (Team member) and NASA Cosmochemistry Program (Co-PI)

1993 – 1996 Mars Observer GRS and NASA Cosmochemistry Program (Graduate Res. Assist)

### RELEVANT AWARDS AND HONORS

2023. 01. 01 – KIGAM Representative Scientist (3 years)

2020. 12. 16 – NASA Ames Honor Award, RESOURCE Team (Group Award)

2017. 09. 00 – NASA Ames Honor Award, FINESSE Team (Group Award)

2015. 04. 21 – Prime Minister’s Award by the Korean Government (contribution on PS sciences)

2005. 03. 29 – Mars Odyssey Gamma Ray Spectrometer Team (Group Award)

2007. 12. 31 – New Researcher’s Research Performance Award, KIGAM

### PROFESSIONAL ACTIVITIES

1. Asia Oceania Geosciences Society: Planetary Science Session - convener, co-convener

2. COSPAR Session B0.1 science committee member (2014 ~ 2018)

3. NASA SSERVI International Partner

### PUBLICATIONS AND PATENTS, ETC

1. 65 SCI publications and over 100 international conference abstract and proceedings

2. 8 Patents (Korea), 1(USA), Intellectual Property 1, 2 books (co-authorship).