CURRICULUM VITAE

KYEONG JA KIM

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ACADEMIC QUALIFICATIONS:

Ph.D. in Geology, 2001, Victoria University of Wellington (VUW), Wellington, New Zealand. *Thesis: Understanding cosmogenic nuclide production underground.(Thesis advisor: Prof. Peter Englert, Univ. of Hawaii, present)*

M.S. in Radiological Health Physics, 1997, San Jose State University (SJSU), San Jose, CA, USA. *Thesis: Cross sections of ^{10}Be and ^{26}Al by 30 to 500 MeV protons on thin targets of C, Mg, Al, Si and SiO_2. (Thesis advisor: Prof. Peter Englert (Univ. of Hawaii, present)*

B.S. in Physics, 1986, Gyeongsang National University, Chin-Ju, S. Korea

* Postdoctoral Fellowship, 2002-2005, *Mars Odyssey GRS Program/NASA Cosmochemistry Program*, Institute of Meteoritics, Univ. of New Mexico (Advisor: Dr. Robert C. Reedy, Planetary Science Institute, present).

WORK HISTORY:

12/2006-Present Principal/Senior Researcher at the Korea Institute of Geoscience and Mineral Resources, Division of Geological Research Division.

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

3/2010-Present, Professor, Dept. Geophysical Exploration, University of Science and Techology, Korea

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

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

5/2002–4/2005 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.

1994–2005 Participating guest at Center of Accelerator Mass Spectrometry at Lawrence Livermore National Laboratory, Livermore, CA, USA (Accomplishment of MSc and PhD research projects).

1996 Laboratory Assistant at Radiocarbon Pre-treatment Lab at Lawrence Livermore National Laboratory, Livermore, CA, USA.

9/1993–9/1996 Research Assistant at Nuclear Science Facility at Jose State University, San Jose, CA, USA.

RESEARCH PROJECTS:
<Planetary Exploration, Nuclear physics, cosmo & radiochemistry, and numerical modelling>
Development of an active X-ray spectrometer for the SELENE-2 Rover, 2012-2018.

Development of laboratory and in situ geochemical analysis techniques for planetary mineral resources, KIGAM, 2012-2014.

Investigation on scientific instruments of a moving vehicle for planetary exploration, KARI Consigned Research Program , 2010-2012.

Research on Remote Sensing System for Geological Resources and Popularization of Geological Sciences, KIGAM , 2011.

Development of New Geological Technology for Tracing Earth and Planetary Evolution, KIGAM, 2009-2011.

Study of Lunar Geochemical and Radiation Environments using the KAGUYA Lunar Gamma Ray Spectrometer) Korea-Japan International Cooperative Program, KRF, 2009–2011.

Elemental mapping of the Moon and geological investigations using KAGUYA(SELENE) Gamma-Ray Spectrometer, 2008–present.

Preliminary study for establishment of GIS based integrated lunar surface mapping system
KIGAM-Internal Project, 2009.

A Pilot Research on Planetary Geology: Planetary Differentiation Processes and Surface Remote-senging of Terrestrial Planets) KIGAM-the Basic Science Project 2007-2008.

Understanding Mars using 2001 Mars Odyssey GRS data (Planetary gamma ray spectrometry – Elemental mapping of Mars) 2001 Mars Odyssey Program, 2002-2010.

Numerical simulation of neutron and gamma ray production using MCNPX (Monte Carlo N Particle eXtended) 2001 Mars Odyssey Program, 2002-2005.

Effects of Rocks on Neutron and Gamma-Ray Production in Martian Surface Soil using MCNPX
2001 Mars Odyssey Program, 2005-2008.

Numerical simulation of neutron and gamma ray production using MCNPX (Monte Carlo N Particle eXtended) 2001 Mars Odyssey Program, 2002-2005.
(Planetary gamma ray spectrometry – Elemental mapping of Mars).

Numerical simulation of cosmogenic nuclide production using MCNPX (Monte Carlo N Particle eXtended) NASA cosmochemistry program 2002-present.
(Understanding cosmogenic nuclide production in extraterrestrial materials).

CRONUS (Cosmic Ray prOduced NUclide Systematics on Earth)
NSF program, 2004-2008. (Numerical Modeling for cosmogenic nuclides production & geological calibration on the surface and atmosphere of the Earth).

Measurement of 20-67.5 MeV proton cross sections for short-lived radionuclides on thin targets of C, Si, Mg, SiO_2, Ni, Fe, and Zr, 1993-1996, Crocker Nuclear Laboratory at University of California, Davis,

Davis, CA, USA and Nuclear Science Facility at San Jose State University, San Jose, CA, USA (NASA Project).

Measurement of 30-500 MeV proton cross sections for ^{10}Be, ^{14}C, and ^{26}Al on thin targets of C, Si, Mg, SiO_2, and Al, NASA collaborative project, 1993-1996, Nuclear Science Facility at San Jose State University, San Jose, CA, USA, Crocker Nuclear Laboratory at University of California, Davis, CA, USA, Harvard Cyclotron Laboratory at Harvard University, MA, USA, Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory, CA, USA, NSF-AMS facility at University of Arizona, Arizona, USA, Group NIS-2, Los Alamos National Laboratory, New Mexico, USA, and TRIUMF, University of British Columbia, Vancouver, British Columbia, V6T2A3, Canada, (NASA Project).

Mars Observer GRS Program, 1993-1994.

<Cosmogenic nuclides (^{10}Be and ^{26}Al, ^{129}I, ^{14}C), Climate and Environmental Change and Surface Exposure Dating>

International Continental Scientific Drilling Program, Potrok Aike Sediment Archive Drilling Project southernmost Argentina, 2008-present

Development of new technique to trace active landscape change using multiple cosmogenic nuclides KIGAM-the Basic Research Project, 2008

Establishment of a cooperative research system for global environmental change using cosmogenic nuclides (^{14}C, ^{10}Be, ^{129}I), KICOS International Cooperative Networking (Korea-USA) 2008–2008

Establishment of Geological Applications using Accelerator Mass Spectrometry, KIGAM, KIGAM-Internal Project 2007

Development of research projects of Korea on natural disasters and environmental changes using accelerator mass spectrometry, KIGAM), KIGAM-the Basic Science Project 2007

A Project for Installation of Accelerator Mass Spectrometry), KIGAM-The General Project, KRF 2007-2008

Tracing earth and planetary environmental change using cosmogenic nuclides, 2006-present

Studies of paleoclimate and geochronology using cosmogenic nuclides (^{14}C, ^{10}Be and ^{26}Al), 1996-present.

Establishment of in situ ^{10}Be and ^{26}Al chemistry laboratory at UA/USGS Desert Laboratory NSF Arizona AMS Laboratory program, 2006.

Development of in situ ^{14}C chemistry laboratory at Univ. of Arizona NSF Arizona AMS Laboratory program, 2005-2006.

Numerical simulation of cosmogenic nuclide production on extraterrestrial materials (cosmic dust, meteorites, and lunar rocks), NASA cosmochemistry program 2005-present.

Investigation of ^{10}Be signals from Potrok Aike Lake Sediments in Rio Gallegos, Argentina NSF Arizona AMS Laboratory program, 2006-present.

Pilot study on ^{10}Be from mud volcanos, Azerbaijan.NSF Arizona AMS Laboratory program, 2006.

Effect of subduction zone initiation on plate boundary development and plate motions, Marsden Fund Research, 2000-2002 (co PI for cosmogenic nuclide dating), the Institute of Geological and Nuclear Sciences, Ltd., Lower Hutt, New Zealand.

Investigation of a Land Bridge between Korea and Japan, Japan Society for the Promotion of Science (JSPS) Fund, 2001-2004, National Museum of Japanese History, Japan.

In situ ^{14}C production underground, 2000, VUW, Wellington, New Zealand, CAMS at LLNL, Livermore, CA, and Scripps Institution of Oceanography, University. of California, San Diego, CA.

Geological Time and Past Environments Programme: Quaternary Environmental Change-Surface Exposure Dating at the Institute of Geological and Nuclear Sciences, Ltd., 2000-2001.

Understanding cosmogenic nuclide production underground, 1998-2000, Victoria University of Wellington, Wellington, New Zealand, the Institute of Geological and Nuclear Sciences, Ltd., Lower Hutt, New Zealand, Center of Accelerator Mass Spectrometry at Lawrence Livermore National Laboratory, Livermore, CA, USA.

Ages of Beach Ridges at Turakirae Head, South Wellington Coast, New Zealand, the Institute of Geological and Nuclear Sciences, Ltd. 1999.

Development in-house chemical techniques for determination of ^{10}Be and ^{26}Al in surface exposure dating research at the Institute of Geological and Nuclear Sciences, Ltd. 1996-1998.

<*Biological Research*>
Carbon-14 labelling studies at ultra-high sensitivity in agricultural and horticultural research, at the Institute of Geological and Nuclear Sciences, Ltd., 1999.

The transport of carbohydrates and cell constituents in plants using accelerator mass spectrometry detection of carbon-14 tracers, at the Institute of Geological and Nuclear Sciences, Ltd., 1999.

Establishment of in-house C-14 Biological Accelerator Mass spectrometry (BAMS) laboratory at the Institute of Geological and Nuclear Sciences, Ltd., 1997-1998.

Study of the life cycle of human parasite, 1982-1983, Department of Biology, Gyeongsang National University.

<*Radiocarbon Dating*>
Development of sample pre-treatment techniques for textiles for ^{14}C AMS dating at the Institute of Geological and Nuclear Sciences, Ltd., Non-Specific Output Fund 97/98 at IGNS (Program Leader).

^{14}C sample preparation for silk in accelerator mass spectrometry, 1996, Center for Accelerator Mass Spectrometry, Lawrence Livermore National Laboratory, CA, USA.

EDUCATIONAL ACTIVITIES (As an organizer)
The 2nd Planetary Educational Program at KIGAM, SELENE-1 (Kaguya) Data Analysis and Applications (Junich Haruyama, JAXA) (2012)

Short course: Training Course on Planetary Exploration of the Solar System: International School for Geoscience Resources at KIGAM (2010)

Creative Geo Camp: Planetary Geological Exploration (Educational Program for primary and secondary level teachers, 2010 – present, two times per each year and each group)

2008 Accelerator Mass Spectrometery Workshop at KIGAM (2008); The 2nd International Workshop on Planetary Geology (2009) KIGAM; The 4th Korea – Japan Bilateral Lunar Exploration Workshop (2010); International 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).

SCI JOURNALS PUBLISHED:

60. Yire Choi, Y. Choi, K.B. Lee, **K. J. Kim***, J.B. Han, E. S. Yi, . Development of an optimized Compton suppressed gamma-ray spectrometric system using Monte Carlo simulation, Applied Radiation and Isotopes 109, 558-562 (2016).
59. **Kyeong Ja Kim**, Yire Choi, Yoon-Yeol Yoon. Monitoring beryllium-7 and tritium in rainwater in Daejeon, Korea and its significance, Applied Radiation and Isotopes 109, 470-473 (2016).
58. M. Hareyama, Y. Fujibayashi, N. Yamashita, Y. Karouji, H. Nagaoka, S. Kobayashi, R.C. Reedy, O. Gasnault, O. Forni, C. d'Uston, **K. J. Kim**, N. Hasebe. Estimation method of planetary fast neutron flux by a Ge gamma-ray spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, **828**, 145-155, 2016
57. M. Naito, N. Hasebe, H. Kusano, H. Nagaoka, M. Kuwako, Y. Oyama, E. Shibamura, Y. Amano, T. Ohta, **K. J. Kim**, J. A. M., Lopes. 2015. Future lunar mission Active X-ray Spectrometer development : surface roughness and geometry studies. Nucl. Instr. Meth. A 788, 182-187.
56. Sota Shimizu, Nobuyuki Hasebe, Kazutaka Nakamura, Hiroki Kusano, **Kyeong Ja Kim**, Yi Re Choi, Multi-purspose Wide-Angle Vision System for remote control of planetary exploration rover, IEEE, 978-1-4799-4032-5/14,5260-5265
55. **Kyeong Ja Kim;** Joo-Hee Lee; Haingja Seo; Gwanghyeok Ju; Sang-Ryool Lee; Gi-Hyuk Choi; Eun-Sup Sim; Tai Sik Lee, An Introduction to the Lunar and Planetary Science Activities in Korea, Advances in Space Research 54 (2014) 2000-2006.
54. J. Zhu, A. Lücke, H. Wissel, C. Mayr, D. Enters**, K. J. Kim**, C. Ohlendorf, F. Schäbitz, and B. Zolitschka Climate history of the Southern Hemisphere Westerlies belt during the last glacial-interglacial transition revealed from lake water oxygen isotope reconstruction of Laguna Potrok Aike (52°S, Argentina). Climate of the Past 10, (2014) 2153–2169.
53. **Kyeong Ja Kim**, Yoshiharu Amano, William V. Boynton, Gostar KlingelhÖfer, Johannes Brückner, Nobuyuki Hasebe, Dave Hamara, Richard D. Starr, Lucy F. Lim, Gwanghyeok Ju, Timothy J. Fagan, Tohru Ohta, Eido Shibamura. (2014). An Active X-Ray Spectrometer for the SELENE-2 Rover, Trans. JSASS Aerospace Tech. Japan. 12 (ists 29) Pk_35-Pk_42.
52. Yire Choi, **Kyeong Ja Kim***, Daekyo Cheong, Yong Ha Kim , Paleoclimate Signals of Lake Hovsgol, Mongolia, over the Last 19,000 Years Using Authigenic Beryllium Isotopes, Radiocarbon 56, No 3 (2014), 1139-1150.
51**. K.J. Kim**, M. Baskaran, J. Jweda , A.A. Feyzullayev, C. Aliyev, H. Matsuzaki, A.J.T. Jull, Investigation of the Dashigil mud volcano (Azerbaijan) using beryllium-10, Nuclear Instruments and Methods in Physics Research B 294 (2013) 606–610.
50. **Kyeong Ja Kim**, Yung-Jo Lee, Jong-Yoon Woo, A.J. Timothy Jull , Radiocarbon ages of Sorori ancient rice of Korea, Nuclear Instruments and Methods in Physics Research B 294 (2013) 675–679.
49. **Kyeong Ja Kim**, Nobuyuki Hasebe (2012) Nuclear Planetology: Especially Concerning the Moon and Mars. Research in Astronomy and Astrophysics 12(10), 1313-1380.
48. N. Yamashita, O. Gasnault, O. Forni, c. d'Uston, R.C. Reedy, Y. Karouji, S. Kobayashi, M. Hareyama, H. Nagaoka, N. Hasebe, **K. J. Kim** (2012) The global distribution of calcium on the Moon: Implications for high Ca proxyene in the eastern mare region, Earth and Planetary Science Letterrs, 353-354, 93-98.
47. **Kyeong Ja Kim**, James M. Dohm, Jean-Pierre Williams, Javier Ruiz, Trent M. Hare, Nobuyuki Hasebe, Yuzuru Karouji, Shingo Kobayashi, Makoto Hareyama, Eido Shibamura, Masanori Kobayashi, Claude d'Uston, Olivier Gasnault, Olivier Forni, Sylvestre Maurice (2012) The South Pole-Aitken basin region, Moon: GIS-based geologic investigation using Kaguya elemental information, Advances in Space Research, 50, 1629-1637.

46. **K. J. Kim**, Y. J. Lee, J.-Y. Woo, A. J. T. Jull (2013) The Radiocarbon Ages of the Sorori Ancient Rice of Korea, Nuclear Instruments and Methods B. 294, 675-679.
45. Shingo Kobayashi; Yuzuru Karouji; Tomokatsu Morota; Hiroshi Takeda; Nobuyuki, Hasebe; Makoto Hareyama; Masanori Kobayashi; Eido Shibamura; Naoyuki Yamashita; Claude d'Uston; Olivier Gasnault; Olivier Forni; Robert C Reedy; **Kyeong Ja Kim**; Yoshiaki Ishihara (2012) Lunar farside Th distribution measured by Kaguya gamma-ray spectrometer, Earth and Planetary Science Letters 337-338, 10-16.
44. **K. J. Kim**, M. Baskaran, J. Jweda, A. A. Feyzullayev, C. Aliyev, H. Matsuzaki, A. J. T. Jull (2013). Investigation of the Dashigil mud volcano (Azerbaijan) using Beryllium-10, Nuclear Instruments and Methods B. 294, 606-610.
43. **Kyeong Ja Kim**, Bernd Zolitschka, A. J. Timothy Jull, Christian Ohlendorf, Torsten Haberzettl, Hiroyuki Matsuzaki, 2012. Tracing Environmental Change in southern Patagonia using Beryllium Isotopes, Laguna Potrok Aike, Argentina, Quaternary Geochronology 9, 27-33.
42. Alberto G. Fairén, James M. Dohm, Victor R. Baker, Shane D. Thompson, William C. Mahaney, Kenneth E. Herkenhoff, J. Alexis P. Rodríguez, Alfonso F. Davila, Dirk Schulze-Makuch, M. Ramy El Maarry, Esther R. Uceda, Ricardo Amils, Hirdy Miyamoto, **Kyeong J. Kim**, Robert C. Anderson and Christopher P. McKay, 2011. Meteorites at Meridiani Planum provide evidence for significant amounts of surface and near-surface water on early Mars, Meteoritics & Planetary Sciences 46(12) 1832-1841.
41. J.M. Dohm, H. Miyamoto, G.G. Ori, A.G. Fairén, A.F. Davila, G. Komatsu, W.C. Mahaney, J.-P. Williams, S.B. Joye, G. Di Achille, D. Oehler, G. Marzo, D. Schulze-Makuch, V. Acocella, M. Glamoclija, M. Pondrelli, P. Boston, C.R. Allen, R.C. Anderson, V.R. Baker, W. Fink, A.R. Frazer, R. Furfaro, C.H Gross, T.M. Hare, Kris M. Hart, F. Ip, B.P. Kelleher, **K. J. Kim**, S. Maruyama, P.C. McGuire, D. Netoff, J. Parnell, L. Wendt, S. Wheelock, A. Steele (2011) An Inventory of Potentially Habitable Environments on Mars: Geological and Biological Perspectives, GSA special paper 483.
40. **K. J. Kim**, W. Hong, J. H. Park, H. J. Woo, G. Hodgins, and A. J. T. Jull, Y. J. Lee, and J. Y. Kim (2011) Development of radiocarbon dating method for degraded bone samples from Korean archeological sites. Radiocarbon 53(1): 129-135.
39. N. Yamashita, N. Hasebe,R. C. Reedy,S. Kobayashi, Y. Karouji, M. Hareyama, E. Shibamura, M.-N. Kobayashi, O. Okudaira, C. d' Uston, O. Gasnault, O. Forni, and **K. J. Kim**, Uranium on the Moon: Global distribution and U/Th ratio, Geophysical Research Letters. vol 37 (2010) L10201, doi:10.1029/2010GL043061.
38. **Kyeong Ja Kim**, A J Timothy Jull, Ju Yong Kim, Yung Jo Lee, Wan Hong, Jung Hun Park, Hyung Joo Woo, 2010, Radiocarbon Dating of the Manusri Paleolithic Site, Cheongwon, Radiocarbon 52(4), 1545-1551.
37. **K. J. Kim,** J. Masarik, R. C. Reedy, Numerical simulation of production rates for Be-10, Al-26, and C-14 in extraterrestrial matter using the MCNPX code, Nucl. Instr. Method. Phys. Res. B268 (2010) 1291–1294.
36. A. J. T. Jull, L. R. McHargue, P. A. Bland, R. C. Greenwood, A. W. R. Bevan, **K. J. Kim**, S. E. LaMotta & J. A. Johnson (2010). Terrestrial ^{14}C and ^{14}C-^{10}Be ages of meteorites from the Nullarbor, Australia, Meteoritics and Planetary Sciences 45(8), pp. 1271–1283.
35. **Kyeong Ja Kim,** Seung-Il Nam, Climate Signals from the Be-10 records of the Korean ocean sediments, Nucl. Instr. Method. Phys. Res. B 268 (2010) 1248–1252.
34. **K. J. Kim**, W. Hong J. H. Park, H. J. Woo, G. Hodgins, and A. J. T. Jull, (2010) Development of radiocarbon dating methods: A study of modern bone collagenisation, Radiocarbon, 52(4): 1657-1659.
33. Wan Hong, Jung Hun Park, **Kyeong J Kim**, Hyung Joo Woo, Jun Kon Kim, Han Woo Choi, Gi Dong Kim (2010), Establishment of Chemical Preparation Methods and Development of an Automated Reduction System for AMS Sample Preparation at KIGAM, Radiocarbon 52(2-3)1277-1286.
32. W.C. Mahaney, V. Kalm, D.H. Krinsley, P. Tricart, S. Schwartz, J. Dohm, **K. J. Kim**, B. Kapran, M.W. Milner, R. Beukens, S. Boccia, R.G.V. Hancock, K.M. Hart, B. Kelleher, Evidence from the northwestern Venezuelan Andes for extraterrestrial impact: The black mat enigma, Geomorphology 116 (2010) 48–57.

31. S. Kobayashi, N. Hasebe, E. Shibamura, O. Okudaira, M. Kobayashi, N. Yamashita, Y. Karouji, M. Hareyama, K. Hayatsu, C. d'Uston, S. Maurice, O. Gasnault, O. Forni, B. Diez, R.C. Reedy, **K.J. Kim**, Determining the Absolute Abundances of Natural Radioactive Elements on the Lunar Surface by Kaguya Gamma-ray Spectrometer, Space Science Review (2010). Space Sci Rev 154: 193–218.
30. James M. dohm, Victor R. Baker, William V. Boynton, Alberto G. Fairen, Justin C. Ferris, Michael Finch, Roberto Furfaro, Trent M. hare, Daniel M. Janes, Jeffrey S. Kargel, Suniti Karunatillake, John Keller, Kris Kerry, **Kyeong J. Kim**, Goro Komatsu, William c. Mahaney, Dirk Shulze-Makuch, Lucia Marinangeli, Gian G., Ori, Javier Ruiz, Shawn J. Wheelock, GRS Evidence and the Possibility of Ancient Oceans on Mars, Planetary and Space Sciences, 57, 664-684 (2009).
29. N. Hasebe, E. Shibamura, T. Miyachi, T. Takashima, M-N. Kobayashi, O. Okudaira, N. Yamashita, S. Kobayashi, Y. Karouji, M. hareyama, S. Kodaira, S. Komatsu, K. Hayatsu, K. Iwabuchi, S. Nemoto, K. Sakura, M. Miyajima, M. Ebihara, T. hihara, T. Arai, T. Sugihara, H. Takeda, C. d'Uston, O. Gasnault, B. Diez, O. Forni, S. Maurice, R.C. Reedy, and **K. J. Kim**, First Results of High Performance Ge Gamma-Ray Spectrometer Onboard Lunar Orbiter SELENE (KAGUYA), Journal of Physical Society of Japan, 78, 18-25 (2009).
28. N. Yamashita, N. Hasebe, E. Shibamura, T. Miyachi, T. Takashima, M. Kobayashi, O. Okudaira, S. Kobayashi, M. Hareyama, Y. Karouji, S. Kodaira, K. Sakurai, K. Iwabuchi, K. Hayatsu, S. Nemoto, M. Ebihara, T. Hihara, C. d'Uston, S. Maurice, O. Gasnault, O. Forni, B. Diez, R. Reedy and **Kyeong J. Kim** "Germanium Gamma-Ray Spectrometer on SELENE (KAGUYA)" Journal of the Physical Society of Japan, 78 153-156 (2009).
27. H. J. Woo , H. W. Choi, G. D. Kim, J. K. Kim, **K. J. Kim**, Blistering/exfoliation kinetics of GaAs by hydrogen and helium implantations, Surface & Coatings Technology 203 (2009) 2370–2374.
26. **K. J. Kim**, J. Southon, M. Imamura, R. Sparks, Development of sample pretreatment of silk for radiocarbon dating, Radiocarbon 50, 131-138 (2008).
25. H. J. Woo, G. D. Kim, J. K. Kim, H. W. Choi, W. Hong, J. H. Park and **K. J. Kim**, Development of Ion-Beam Nano-Structuring Techniques in KIGAM, Journal of the Korean Physical Society, Vol. 52, No. 3, (2008) pp. 743-751.
24. **K. J. Kim**, D. Lal, P. A. J. Englert, and J. Southon, In situ ^{14}C depth profile of subsurface vein quartz samples from Macraes Flat New Zealand, Nucl. Instr. Meth. B 259 (1), 632-636 (2007).
23. **K. J. Kim**, W. J. Trompetter, C. Eastoe, M. Spilde, New trial methods for the detection of carbon and nitrogen in quartz samples, Nucl. Instr. Meth. B 259 (1), 335-339 (2007).
22. **K. J. Kim**, I. J. Graham, J. Masarik, and R. C. Reedy, Numerical simulations with the MCNPX and MCNP/LAHET code systems compared with direct measurement of neutron flux in terrestrial environment, Nucl. Instr. Meth. B 259 (1), 637-641 (2007).
21. Jozef Masarik, **Kyeong J. Kim**, and Robert C. Reedy, Numerical simulations of in situ production of terrestrial cosmogenic nuclides, Nucl. Instr. Meth. B 259 (1), 642-645 (2007).
20. Mitchell, W.A., McSaveney, M.J., Zondervan. A., **Kim, K**., Dunning, S.A., Taylor, P.J., 2007 The Keylong Serai rock avalanche, NW Indian Himalaya: geomorphology and palaeoseismic implications.Landslides, 4(3): 245-254; doi:10.1007/s10346-007-0085-0 (2007 SCIE).
19. Rupert Sutherland, **Kyeong Kim**, Albert Zondervan, and Mauri McSaveney, Timing of glacier advances in southwest New Zealand since 100 ka, determined from surface exposure ages of moraine boulders and Alpine Fault offsets, Geol. Soc. America Bull. 119, 3/4, 443-451 (2007).
18. A. J. T. Jull, D. Lal, S. Taylor, R. Wieler, A. Grimberg, L. Vacher, L. R. McHargue, S. P. H. T. Freeman, C. Maden, C. Schnabel, S. Xu, R. C. Finkel, **K. J. Kim** and K. Marti, ^{3}He, $^{20,21,22}Ne$, ^{14}C, ^{10}Be, ^{26}Al and ^{36}Cl in magnetic fractions of cosmic dust from Greenland & Antarctica, Meteoritics and Planetary Science, 42 (10), 1831-1840 (2007).
17. McSaveney, Maurice J., Graham, Ian J., Begg, John G., Beu, Alan G., Hull, Alan G., **Kim, Kyeong** and Zondervan, Albert, Late Holocene uplift of beach ridges at Turakirae Head, south Wellington coast, New Zealand, NZ ournal of Geology &Geophysics(0028-8306), *49:*337-358 (2007).
16. **Kyeong J. Kim**, Darrell M. Drake, Robert C. Reedy, Remo M. S. Williams, and William V. Boynton, Theoretical fluxes of gamma rays from the Martian surface, J. Geophy. Res. Planets, Vol. 111, E3, E03S09 (2006).
15. W. V. Bonyton, G.J. Taylor, L. G. Evans, R. C. Reedy, R. Starr, D. M. Janes, K. E. Kerry, D. M. Drake, **K. J. Kim**, R. M. S. Williams, M. K. Crombie, J. M. Dohm, V. Baker, A. E. Metzger, S.

Karunatillake, J. M. Keller, H. E. Newsom, J. R. Arnold, J. Bruckner, P. A. J. Englert, O. Gasnault, A. L. Sprague, I. Mitrofanov, S. W. Squyres, J. I. Trombka, L. dUston, H. Wanke, D. K. Hamara, Concentration of H, Si, Cl, K, Fe, and Th in the low and mid-latitude regions of Mars, J. Geophy. Res. Planets (0148-0227), 112, E12S99 (2006).

14. J. M. Keller, J. Bruner, H. Wanke, G. Dreibus, K. E. Kerry, R. C. Reedy, L. G. Evans, R. D. Starr, L. M. V. Martel, S. W. Squyres, O. Gasnault, S. Maurice, C. d'Uston, P. Englert, J. M. Dohm, V. R. Baker, D. Hamara, D. Janes, A. L. Sprague, **K. J. Kim**, D. M. Drake, S. M. McLennan, D. C. Hahn, Variations in K/Th on Mars, G. Jeffrey Taylor, J. D. Stopar, W. V. Boynton, S. Karunatillake, J. Geophy. Res. Vol. 111, E3, E03S06 (2006).
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Patents and intellectual property

1. 10-1239068: (국내등록) 지질학적 달 표면 변화 과정 검증방법 (Method toward analysis of geological lunar surface evolution
2. 10-1185743: (국내등록) 방사선동위원소 사용을 이용한 XRF 분석시스템 차폐박스 제작 (Shielding box for XRF analysis using a radioactive source)
3. 10-1202846: (국내등록) 방사성동위원소 차폐장치 (Device for sealing radioactive source)
4. 10-1218387: (국내등록) 위치추적기능이 탑재된 지질조사장치 및 이를 이용한 지질정보 제공시스템 (GPS equipped geological investigation system and its geological information system)
5. 10-1269114: (국내등록) 원격제어용 지질조사장치 (Geological survey device for remote control)
6. 10-1389090: (국내등록) 지상모델 무인탐사용 능동엑스선분광기 (An Active X-ray Spectrometer for an Unmanned Exploration)
7. 10-2014-0172271: (국내출원) 엑스선 차폐 장치 및 차폐방법 (X-ray shielding apparatus and method) (국외출원중)

8. 10-2014-0172736 (국내출원) 방사선 차폐 장치의 도어 개폐 동작 제어 장치 (Apparatus for controlling opening and closing door of radioactive ray shielding apparatus)
9. 978-89-93414-94-3: Creative Geo Educamp –Thema Travel(by Geologist (Planetary Geological exploration)

FELLOWSHIPS – RESEARCH GRANT:

2015-2018 ***Development of gamma ray – neutron spectrometer system for lunar geology and resource exploration*** (PI, funded by Korean Research Foundation)

2010-2012 ***Investigation on scientific instruments of a moving vehicle for planetary exploration*** (PI: Consigned research project from KARI, Korea)

2011 ***Research on Remote Sensing System for Geological Resources and Popularization of Geological Sciences, KIGAM*** *(co-PI)*

2009–2011 ***Korea-Japan International Cooperative Program, KRF***
(PI, Study of Lunar Geochemical and Radiation Environments using the KAGUYA Lunar Gamma Ray Spectrometer)

2009–2009 ***KAGUYA(SELENE) Gamma-Ray Spectrometer Team*** (Co-Investigator)

2009–2009 ***KIGAM-Internal Project***
(PI, Preliminary study for establishment of GIS based integrated lunar surface mapping system)

2008 ***KIGAM-the Basic Research Project***
(PI, Development of new technique to trace active landscape change using multiple cosmogenic nuclides)

2008–2008 ***International Cooperative Networking (Korea-USA), KICOS***
(PI, Establishment of a cooperative research system for global environmental change using cosmogenic nuclides (^{14}C, ^{10}Be, ^{129}I)

2007–2007 ***KIGAM-Internal Project***
(PI, Establishment of Geological Applications using Accelerator Mass Spectrometry, KIGAM)

2007–2007 ***KIGAM-the Basic Science Project***
(PI, Development of research projects of Korea on natural disasters and environmental changes using accelerator mass spectrometry, KIGAM)

2007–2008 ***KIGAM-The General Project, KRF***
(Participant, A Project for Installation of Accelerator Mass Spectrometry)

2007–2008 **KIGAM-the Basic Science Project**
(Participant, A Pilot Research on Planetary Geology: Planetary Differentiation Processes and Surface Remote-senging of Terrestrial Planets)

2005–2006 ***2001 Mars Odyssey Gamma-Ray Spectrometer Program***
(Scientist participant, Gamma Ray Spectrometry for elemental mapping of Mars)

2002–2005 ***Postdoctoral Fellowship: 2001 Mars Odyssey***
(Gamma Ray Spectrometry for elemental mapping of Mars)

2002–2005 ***Postdoctoral investigator: NASA Cosmochemistry program***
(Co-PI, Studies on radionuclide production in extraterrestial materials)

2000–2003 ***Marsden Fund, New Zealand***
Effect of subduction zone initiation on plate boundary development and plate motions (Co-Principal Investigator – Cosmogenic nuclide dating of marine terraces)

2001–2004 ***Japan Society for the Promotion of Science***
(co-PI – Investigation on land-bridge between Japan and Korea)

2001 –2002 ***Establishment of Bio-AMS facility in Korea***
(co Investigator – consultant)

1998–2001 ***Public Good Science Fund, New Zealand***
(participant– Geological Time & Past Environment Program: Quaternary Environmental Change)

2001 ***Establishment of AMS Geochemistry Laboratory at Inter-University Center for Natural Science Facility at Seoul National University, Korea***
(Invited scientific consultant)

1999 ***NZ/USA Co-operative science program (ISAT Linkage Fund)***

1994–1996 ***Graduate Research Fellowship at San Jose State University (NASA Project)***
(Investigation of proton cross section measurements for short-lived and long-lived radionuclides on thin targets)

1993–1994 ***Graduate Research Fellowship at San Jose State University (NASA Project)***
(Mars Observer – Gamma Ray Spectrometer)

1982–1985 ***Undergraduate Scholarships at Gyeong-Sang National University, Chinju, Korea***

Awards and Others

1. NASA 2001 Mars Odyssey Gamma Ray Spectrometer Team Award (2005.03.29)
2. New Researcher's Award, KIGAM (2007.12.31)
3. Prime Minister's Award (2015. 4. 21) by the Korean Government

Professional Activity

1. American Geophysical Union, member
2. The Meteoritical Society , member
3. The Korean Physical Society, member
4. Asia Oceania Geosciences Society : Planetary Science Session - convener, co-convener
5. International Symposium on Remote Sensing: Planetary Remote Sensing Session - organizer
6. SELENE Symposium 2013 : Science Organizing Committe Member
7. COSPAR Session B0.1 science committee member (2014 ~ 2018)