

CURRICULUM VITAE | KEVIN TODD MICHAEL JOHNSON

PRESENT POSITION:

Program Director
National Science Foundation
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Professor Emeritus
Department of Earth Sciences
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EDUCATION:

- Ph.D. Marine Geology and Geophysics/Oceanography, Massachusetts Institute of Technology (MIT); Marine Geology and Geophysics, Woods Hole Oceanographic Institution, 1990, Thesis: "*Trace Element Geochemistry of Oceanic Peridotites and Silicate Melt Inclusions: Implications for Mantle Melting and Ocean Ridge Magmagenesis*"
- M.S. Marine Geology and Geophysics, University of Hawai'i at Mānoa, 1983, Thesis: "*The Petrology and Tectonic Evolution of Seamounts and Banks of the Northern Melanesian Borderland, Southwest Pacific*"
- B.S. magna cum laude, Geology/Hydrology/Marine Sciences; Philosophy, The Pennsylvania State University, 1977.

PERSONAL: Married, 2 children; United States citizen

PROFESSIONAL EXPERIENCE:

- 2023 – present: Program Director**, National Science Foundation, Directorate of Geosciences, Division of Ocean Sciences, Ocean Drilling Program and Marine Geology and Geophysics Program
- 2020 – 2023: Program Director**, National Science Foundation, Directorate of Geosciences, Division of Ocean Sciences, Marine Geology and Geophysics Program.
- 2018 – 2020: Program Director**, National Science Foundation, Directorate of Geosciences, Division of Earth Sciences..
- 2020 – present: Professor Emeritus**, Dept. of Earth Sciences, University of Hawaii, Honolulu, Hawaii.
- 2003 – 2019: Research Professor**, Dept. of Geology and Geophysics, University of Hawaii, Honolulu, Hawaii.
- 2011 – 2012: Science Director**, Integrated Ocean Drilling Program Management International, Tokyo, Japan.
- October – November, 2010: Visiting Distinguished Professor** in Deep-Sea Marine Geosciences Division, Université de Bretagne, Brest, France.
- 2009 – 2010: Senior Special Projects Manager**, Environmental Science International Inc., Kailua, Hawai'i.
- 2008 – 2009: Geothermal Resources Consultant**, Kamehameha Schools, Honolulu, Hawaii.
- 2006 – 2008: Program Director**, Ocean Drilling Program, National Science Foundation, Division of Ocean Sciences.
- April – August, 2006: Subject Matter Expert on Geothermal Energy**, Hawaii State Department of Taxation.
- 2003 – 2007: Consultant**, Environet, Inc. Environmental Engineering, Honolulu, Hawaii.
- 1995 – 2003: Research Geologist**, Bernice Pauahi Bishop Museum, Honolulu, Hawaii.
- 1992 – 1995: Associate Research Geologist**, Bernice Pauahi Bishop Museum, Honolulu, Hawaii.

1990 – 1992: National Science Foundation Post-doctoral Research Fellow, Geological Institute, University of Tokyo, Japan, host-Professor Ikuo Kushiro.

1985 – 1990: Graduate Research Assistant (Ph.D. student), M.I.T./W.H.O.I. Joint Program in Oceanography.

March – August, 1985: Research Fellow, East-West Resource Systems Institute-Mineral Policy Program, East-West Center, Honolulu, Hawai'i; Research Assistant, Hawai'i Institute of Geophysics, Honolulu, Hawai'i.

1983 – 1985: Monbusho Research Fellow, Department of Geology and Mineralogy, Hokkaido University, Sapporo, Japan, research with volcanologist Prof. Yoshio Katsui. Fellowship from Japanese Ministry of Science, Culture, and Education.

1981 – 1983: graduate fellowship, East-West Center, Honolulu, Hawai'i; Graduate Student (M.S.), University of Hawai'i at Manoa, Honolulu, Hawai'i.

January – August, 1981: Hydrogeologist, U. S. Geological Survey-Water Resources Division, Anchorage, Alaska.

1978 – 1981: Peace Corps Volunteer: Hydrogeologist/Water Resources Specialist, Hydrology Manager, Dept. of Public Works, Apia, Western Samoa.

1977 – 1978: Research Assistant, Coal Research Laboratory, Mineral Processing Department, The Pennsylvania State University.

MANAGEMENT AND EXECUTIVE EXPERIENCE:

2016 – present: Secretary-General, Pacific Science Association.

2011-2012: Science Director, Integrated Ocean Drilling Program-Management International, Tokyo, Japan.

2009-2010: Senior Project Manager, Environmental Science International Inc., Kailua, Hawai'i.

2006-2008: Program Director, National Science Foundation, Division of Ocean Sciences, Ocean Drilling Programs.

2003-2007: Senior Project Manager, Environet, Inc. Environmental Engineering, Honolulu, Hawaii.

1992-2003: Program Manager, Earth Science Research and Education, Bishop Museum, Honolulu, HI.

1978-1980: Hydrology Manager, Department of Public Works, Government of Western Samoa.

SERVICE, HONORS, AWARDS, TRAINING, FELLOWSHIPS:

Have reviewed 38 NSF proposals
 Have reviewed 73 manuscripts for international publications

2020 – present: NSF representative to the Interagency Working Group for Ocean Exploration and Characterization, National Ocean Mapping, Exploration, and Characterization (NOME) Council

January 2018 – January 2020: Secretary, Science Advisory Group, International Continental Drilling Program.

April 2017 – present: Invited External Member of the *JOIDES Resolution* Geology Laboratory Working Group.

June 2016 – June 2020: *Secretary-General*, Pacific Science Association, a regional non-governmental, scholarly organization that advances science, technology, and sustainable development in the Asia-Pacific region by actively promoting interdisciplinary and international meetings, research, and collaboration.

February 25-27, 2015: Advanced Users Workshop for MELTS Thermodynamic Modeling Program, Caltech.

May, 2014: Geological Advisor, guest, "Brew Dogs" television program.

October, 2013: Guest scientist and invited lecturer at Seoul National University, South Korea.

August, 2013: Interviewed for article on CO₂ capture and sequestration in September 10, 2013 issue of *ClimateWire*, "Could fracking store trillions of tons of CO₂ in rocks?"

July, 2013: Interviewed for article in July 26, 2013 issue of *Nature*, "Pilot projects bury carbon dioxide in basalt".

August, 2013 – present: Ship-to-Shore Science Education: IODP Science Outreach Education project team, Consortium for Ocean Leadership.

July, 2013 – present: U.S. delegate to the Pacific Science Association Council

April, 2013: Guest scientist and invited lecturer at Xiamen University, China.

March, 2009 – September, 2012: Member, Scientific Technology Panel, Integrated Ocean Drilling Program.

March, 2012 – present: Member, U.S. National Committee for Pacific Science Association, National Academy of Sciences.

May, 2011 – February, 2012: Chair, Project Management Team for Rapid Response Drilling to March 11, 2011 Great East Japan Tohoku-oki earthquake fault zone, IODP.

August, 2011 – February, 2012: Editor, *Scientific Drilling Journal*.

May, 2011 – March, 2012: Vice-Chair, U.S. National Committee for IUGG, National Academy of Sciences.
July, 2006: Keynote Speaker, Korea Water Resources Forum, Jeju, South Korea; Topic: *Hydrogeology of the Hawaiian Islands*.
April, 2006 – present: Reviewer for the European Science Foundation.
August, 2005 – December, 2005: Faculty Mentor for *Mission 2009: Tsunami Hazards*, an M.I.T. undergraduate course.
July, 2003 – September, 2011: Member, U.S. National Committee for IUGG, National Academy of Sciences.
May, 2001 – May, 2002: President, Pūnana Leo o Kawaiaha‘o Hawaiian Language Immersion Preschool, Parents' Association.
September, 2000 – present: M.I.T. Education Council.
May, 2000 – May, 2001: Vice-President, Pūnana Leo o Kawaiaha‘o Hawaiian Language Immersion Preschool, Parents' Association.
July, 2000 – December, 2002: American Geophysical Union, VGP Education and Outreach Committee.
Ocean Drilling Program Greatest Hits: Silicate Melt Inclusions – The Missing Link between the Mantle and Primitive MORB, http://www.usssp-iodp.org/PDFs/Greatest_Hits/Plates/Johnson.pdf.
September – December, 1997: Guest Researcher, Institute for Study of the Earth's Interior, Okayama University-Misasa, Japan.
November, 1995 – February, 1996: Guest Researcher, Institute for Study of the Earth's Interior, Okayama University-Misasa, Japan.
January, 1995: Invited lecture, University of Tokyo Symposium: The Role of Magmas in the Evolution of the Earth, "The Mantle Melting Process at Mid-Ocean Ridges".
September, 1994: Keynote address, V. M. Goldschmidt Conference of Geochemistry, Edinburgh, Scotland, "Experimental Clinopyroxene- and Garnet-melt partitioning of REE and other trace elements at high pressures: Petrogenetic Implications".
1990 – 1992: National Science Foundation/Japan Society for the Promotion of Science Postdoctoral Research Fellowship, University of Tokyo.
1987 – 1988: Woods Hole Oceanographic Institution Ocean Ventures Research Grant - "Physicochemical Processes of Mantle Melting".
1985: East-West Center Research Fellowship, Honolulu, Hawai'i.
1983 – 1985: Monbusho Research Scholarship, Japan Ministry of Science, Education, and Culture, Hokkaido University.
1981 – 1983: East-West Center Graduate Scholarship, Honolulu, Hawai'i.
1973: National Merit Scholar, honorable mention.
1971: Eagle Scout, Boy Scouts of America.

RESEARCH INTERESTS:

CO₂ capture and sequestration in igneous rocks and minerals; Geothermal processes in volcanic systems; Chemical and thermal aspects of volcanism; Mantle petrology and geochemistry; Trace element microanalysis of minerals; Mantle ultramafic rocks and melting processes; Seafloor mineralization; Oceanic spreading center development; Seafloor mapping with multibeam sonar systems and geomorphologic interpretation; High-pressure experimental petrology; Crystallization kinetics and trace element diffusion in minerals and melts.

CAREER TEACHING EXPERIENCE: Geology of the Hawaiian Islands, Physical Geology, Trace Element Geochemistry, Marine Geology

ANALYTICAL EXPERIENCE:

Ion Microprobe (secondary ion mass spectrometry), Electron microprobe, Inductively-coupled plasma mass spectrometry (laser and solution), Thermal ionization mass spectrometry, X-ray fluorescence, Instrumental neutron activation analysis, Scanning electron microscopy. 1-atm. gas-mixing furnace; piston-cylinder and multi-anvil high P-T experimental apparatus.

DEPARTMENTAL AND UNIVERSITY COMMITTEES:

2004-2005: Graduate Studies Committee
2005-2006: Graduate Studies Committee
2007-2008: Relations and Honors
2008-2010: Graduate Studies Committee
2013-2015: Honors and Relations

SEAGOING EXPERIENCE:

- August 2018**, Shipboard Scientist, *D/V Chikyū*, International Continental Drilling Program/International Ocean Discovery Program, Expedition 5706, Oman Drilling Project.
- August – September 2017**, Shipboard Scientist, *D/V Chikyū*, International Continental Drilling Program/International Ocean Discovery Program, Expedition 5705, Oman Drilling Project.
- Dec 2016 – Feb 2017**, Shipboard Scientist, *D/V JOIDES Resolution*, International Ocean Discovery Program, Expedition 366, Scientific drilling in the Mariana Convergent Margin.
- Sept – Nov 2012**, Shipboard Scientist, *R/V Marion Dufresne*, Southeast Indian Ocean Ridge.
- Sept – Nov 2006**, Shipboard Scientist, *R/V Marion Dufresne*, French PLURIEL expedition to Southeast Indian Ocean Ridge.
- Jan – March 2005**, Shipboard Scientist, *D/V JOIDES Resolution*, Integrated Ocean Drilling Program, Expedition 305, Scientific drilling of the Atlantis Oceanic Core Complex, Mid-Atlantic Ridge.
- July 2002**, Co-Chief Scientist, *R/V Yokosuka*, Shinkai 6500 submersible dives and multibeam mapping, Hana Ridge and Puna Ridge, Hawaii.
- Nov – Dec 2001**, Co-chief Scientist, *R/V Revelle*, Scripps Institution of Oceanography, Assessing hotspot fixity in the Pacific Ocean: Easter and Hawaiian mantle plumes. Multibeam sonar bathymetry, gravity, magnetics, rock dredging, radiometric age determinations, geochemistry.
- September 2001**, Shipboard scientist, *R/V Kairei*, ROV Kaiko dives and multibeam mapping, Hana Ridge, Hawaii.
- August 1999**, Dive scientist, *R/V Yokosuka*, Shinkai 6500 submersible dives and multibeam mapping, Puna Ridge, Hawaii.
- Sept – Nov 1998**, Co-Chief scientist, *R/V Thomas Thompson*, University of Washington, Understanding Volcanic and Geophysical Processes on the Puna Ridge, submarine portion of Kilauea's East Rift Zone. DSL-120 kHz sidescan sonar and multibeam mapping, ARGOII bottom photography, dredging, wax coring, and magnetics.
- August 1996**, Pisces V submersible dives to Loihi for rapid response to volcanic eruption.
- Feb – April 1996**, Chief Scientist, *R/V Melville*, Scripps Institution of Oceanography, Mantle Composition and Ridge Dynamics on the Southeast Indian Ridge near the Amsterdam/St. Paul Hotspot; Multibeam mapping, dredging, wax coring, gravity, and magnetics.
- May – July 1993**, Shipboard scientist, *R/V Melville*, Mantle Off-Axis Investigation (MOAI) cruise; mapping and sampling young volcanism of off-axis seamounts 16°-19°S near East Pacific Rise to understand mantle melting and upwelling in this volcanically active region.
- Sept – Nov 1991**, Shipboard scientist, *JOIDES Resolution*, Ocean Drilling Program, Leg 140, deep drilling of the lower oceanic crust at Hole 504B-Costa Rica Rift, Eastern Pacific Ocean.
- Feb – March 1989**, Shipboard Scientist, *R/V Akademik Boris Petrov*, Soviet Academy of Science, U.S.A - U.S.S.R. joint research cruise under bilateral agreement, Mid-Atlantic Ridge at 31° N, multi-beam seafloor mapping, gravity, magnetics, single-channel seismic profiling, and rock dredging of ridge-transform zone.
- March – April 1987**, Shipboard Scientist, *R/V Thomas Washington*, Scripps Institution of Oceanography, "Crossgrain" cruise, leg 2, Marquesas super-swell, Marquesas land-based sampling and mapping; SEABEAM swath mapping, gravity, magnetics, seismic reflection and refraction, rock dredging, coring, hydrocast water sampling.
- Sept – Nov 1986**, Shipboard Scientist, *R/V Robert Conrad*, Lamont-Doherty Geological Observatory, cruise RC27-9, SW Indian Ridge, Atlantis II Fracture Zone; SEABEAM swath mapping, rock dredging, magnetics, seismics, gravity, heat flow, and coring.
- Jan – Feb 1985**, Shipboard Scientist, *F/S Sonne*, cruise SO35-3, Federal Republic of Germany research vessel, North Fiji Basin; seafloor mapping, magnetics, rock dredging, and coring.

- April – May 1984**, Shipboard Scientist, R/V *Hakuho Maru*, cruise KH84-1, Ocean Research Institute, University of Tokyo, Ogasawara (Bonin), Mariana, Yap, and Palau trenches, forearcs, and back-arc basin systems; seafloor mapping, geophysics and rock dredging, land-based sampling in Palau.
- September 1982**, Guest Scientist, R/V *Pegas*, Russian research vessel, mapping seamounts south of Hawai'i; rock dredging and magnetics.
- April – May 1982**, Shipboard Scientist, R/V *Kana Keoki*, cruise KK82-03, Northern Melanesian Borderland; seafloor mapping, geophysics, and dredge sampling.
- Oct – Nov 1981**, Shipboard Scientist, R/V *Kana Keoki*, cruise KK81-06, University of Hawai'i, Mid-Pacific Mountains; seafloor mapping, geophysical survey, dredging, coring.

PROFESSIONAL SOCIETIES:

American Geophysical Union, Geological Society of America, Geochemical Society, International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI), Volcanological Society of Japan, Mineralogical Society of America, Sigma Xi, Hawaiian Academy of Science.

PUBLICATIONS:

1. **Johnson, K. T. M.**, Major, trace, and rare earth element abundances in boninitic lavas from the Ogasawara forearc, *Journal of Faculty of Science, Hokkaido University*, series IV, v. 21, pp. 453-463, 1985.
2. **Johnson, K. T. M.** and Y. Nakamura, Island arc tholeiite series rocks from Palau: major, trace, and rare earth elements, Report of the R/V *Hakuho Maru* cruise KH84-1, U. of Tokyo, pp. 298-305, 1985.
3. Katsui, Y., H. Igaraki, **K. Johnson**, N. Gouchi, and T. Ikeda, Landslide features and volcanic hazards of the Shiretoko Peninsula, in *Environmental Studies of the Shiretoko Peninsula*, Dept. of Natural Resources, Hokkaido Prefectural Government (in Japanese), 1985.
4. Johnson, C.J., A. L. Clark, J. M. Otto, **K. T. M. Johnson**, D. K. Pak, and C. L. Morgan, Resource Assessment of Cobalt-rich Ferromanganese Crusts in the Hawaiian Archipelago, Report to the Federal Task Force on Manganese Crust Mining in the Hawaiian Exclusive Economic Zone, East-West Center, Honolulu, Hawai'i, 135 p., 1985.
5. Sinton, J. M., **K. T. M. Johnson**, and R. C. Price, Petrology and geochemistry of volcanic rocks from the Northern Melanesian Borderland, in T. M. Brocher, ed., *Geological Investigations of the Northern Melanesian Borderland*, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v.3, pp. 34-64, 1985.
6. **Johnson, K. T. M.**, J. M. Sinton, and R. C. Price, Petrology of seamounts northwest of Samoa and their relation to Samoan volcanism, *Bulletin of Volcanology*, v. 48 no. 4, pp. 225-235, 1986.
7. **Johnson, K. T. M.**, H. J. B. Dick, and N. Shimizu, Melting in the Oceanic Upper Mantle: an Ion Microprobe Study of Diopsides in Abyssal Peridotites, *Journal of Geophysical Research*, 95, 2661-2678, 1990.
8. Kelemen, P. B., **K. T. M. Johnson**, R. J. Kinzler and A. J. Irving, High field strength element depletions in arc basalts due to mantle-magma interaction, *Nature*, 345, 521-524, 1990.
9. **Johnson, K. T. M.** and J. M. Sinton, Petrology, tectonic setting, and the formation of back-arc basin basalts in the North Fiji Basin, *Geol. Jahrb. Reihe D*, 92, 517-545, 1991.
10. Parkinson, I., J. Pearce, M. Thirwall, **K. T. M. Johnson**, and G. Ingram, Trace element geochemistry of peridotites from the Izu-Bonin-Mariana forearc, ODP Leg 125, *ODP volume B, Scientific Results, Leg 125*, 487-506, 1992.
11. **Johnson, K. T. M.**, and H. J. B. Dick, Open System Melting and the temporal and spatial variation of peridotite and basalt compositions at the Atlantis II Fracture Zone, *Journal of Geophysical Research*, 97, 9219-9241, 1992.
12. **Johnson, K. T. M.** and I. Kushiro, Segregation of high pressure partial melts from peridotite using diamond: A new experimental approach, *Geophysical Research Letters*, v. 19, 1703-1706, 1992.
13. Leg 140 Shipboard Scientific Party, ODP Drills Deepest Hole in Ocean Crust, article in *EOS Trans. Amer. Geophys. Union*, v. 73, 537-540, 1992.

14. Sinton, J. M., R. C. Price, **K. T. M. Johnson**, H. Staudigel, and A. Zindler, Petrology and geochemistry of submarine lavas from the Lau and North Fiji Basins, in Basin Formation, Ridge Crest Processes, and Metallogenesis in the North Fiji Basin (L.W. Kroenke and J.V. Eade, editors), Circum-Pacific Council for Energy and Mineral Resources vol. 15, 119-135, 1993.
15. **Johnson, K. T. M.**, M. R. Fisk, and H. R. Naslund, Geochemical characteristics of refractory silicate melt inclusions from Leg 140 diabases, In Erzinger, J., Becker, K., Dick, H. J. B., and Stokking, L. B. (Eds.), Proc. ODP, Sci. Results, 137/140: College Station, TX (Ocean Drilling Program), 131-139, 1995.
16. Fisk, M. R., **K. T. M. Johnson**, and J. C. Alt, Effect of assimilation of altered oceanic crust on magma chemistry: an experimental study, In Erzinger, J., Becker, K., Dick, H. J. B., and Stokking, L. B. (Eds.), Proc. ODP, Sci. Results, 137/140: College Station, TX (Ocean Drilling Program), 43-51, 1995.
17. Dick, H. J. B., and **K. T. M. Johnson**, REE and trace element composition of clinopyroxene megacrysts, xenocrysts, and phenocrysts in two diabase dikes from Leg 140, Hole 504B, In Erzinger, J., Becker, K., Dick, H. J. B., and Stokking, L. B. (Eds.), Proc. ODP, Sci. Results, 137/140: College Station, TX (Ocean Drilling Program), 121-130, 1995.
18. Sheirer, D., D. Forsyth, **K. Johnson**, D. Graham, and Boomerang Leg 6 Scientific Party, The Southeast Indian Ridge near Amsterdam and St. Paul Islands: Results from Boomerang, Leg 6, *RIDGE Events*, v. 7, no. 2, pp. 5-9, 1996.
19. Allen, M. S. and **K. T. M. Johnson**, Tracking ancient patterns of interaction: Recent geochemical studies in the Southern Cook Islands, in M. I. Weisler (ed.) *Prehistoric Long-Distance Interaction in Oceania: An Interdisciplinary Approach*, New Zealand Archaeological Association Monograph No. 21, 111-133, 1997.
20. **Johnson, Kevin T.M.**, Silicate Melt Inclusions – The Missing Link between the Mantle and Primitive MORB, Ocean Drilling Program Greatest Hits: http://odplegacy.org/PDF/Outreach/Brochures/Greatest_Hits/Plates/Johnson.pdf
21. Scheirer, D., E. Baker, and **K. T. M. Johnson**, Detection of hydrothermal plumes along the Southeast Indian Ridge near the Amsterdam-St. Paul Plateau, *Geophysical Research Letters*, 25, 97-100, 1998.
22. Southward, A. J., W. A. Newman, V. Tunnicliffe, **K. Johnson**, and D. Scheirer, Biological indicators confirm hydrothermal venting on the Southeast Indian Ridge, *BRIDGE Newsletter*, Spring, 1998.
23. **Johnson, K. T. M.**, Experimental determination of partition coefficients for rare earth and high-field-strength elements between clinopyroxene, garnet, and basaltic melt at high pressures, *Contributions to Mineralogy and Petrology*, 133, 60-68, 1998.
24. Graham, D. W., **K. T. M. Johnson**, L. Douglas Priebe, and J. E. Lupton, Hotspot-Ridge interaction along the Southeast Indian Ridge near Amsterdam and St. Paul Islands: Helium isotope evidence, *Earth Planet. Sci. Lett.*, 167, 297-310, 1999.
25. Sours-Page, R., **K. T. M. Johnson**, R. L. Nielsen, and J. L. Karsten, Local and regional variation of MORB parent magmas: Evidence from melt inclusions from the Endeavour Segment of the Juan de Fuca Ridge, *Contributions to Mineralogy and Petrology*, 134, 342-363, 1999.
26. Scheirer, D. S., D. W. Forsyth, **K. T. M. Johnson**, J. A. Conder, M. A. Eberle, S.-H. Hung, and D. W. Graham, Anomalous seafloor spreading of the Southeast Indian Ridge near the Amsterdam-St. Paul Plateau, *J. Geophys. Res.*, 105, 8243-8262, 2000.
27. **Johnson, K. T. M.**, D. W. Graham, K. H. Rubin, K. Nicolaysen, D. S. Scheirer, D. W. Forsyth, E. T. Baker, L. M. Douglas-Priebe, Boomerang Seamount: The active expression of the Amsterdam-St. Paul Hotspot, Southeast Indian Ridge, *Earth Planet. Sci. Lett.*, 183, 245-259, 2000.
28. Mahoney, J. J., D. W. Graham, D. M. Christie, **K. T. M. Johnson**, L. S. Hall, and D. L. Vonderhaar, Between a Hotspot and a Cold Spot: Isotopic variation in the Southeast Indian Ridge Asthenosphere, 86°E-118°E, *J. Pet.*, 43, 1155-1176, 2002.

29. Smith, D.K., L.S.L. Kong, **K.T.M. Johnson**, and J.R. Reynolds, Volcanic morphology of the submarine Puna Ridge, Kilauea Volcano, in E. Takahashi, P.W. Lipman, M.O. Garcia, J. Naka, S. Aramaki (eds.) *American Geophysical Union Monograph 128 - Hawaiian Volcanoes: Deep Underwater Perspectives*, 125-142, 2002.
30. **Johnson, K.T.M.**, J.R. Reynolds, D.K. Smith, L.S.L. Kong, and D. Vonderhaar, Petrological systematics of submarine basalt glasses from the Puna Ridge, Hawai'i: Implications for rift zone plumbing and magmatic processes, in E. Takahashi, P.W. Lipman, M.O. Garcia, J. Naka, S. Aramaki (eds.) *American Geophysical Union Monograph 128 - Hawaiian Volcanoes: Deep Underwater Perspectives*, 143-160, 2002.
31. Hart, S.R., M. Coetzee, R.K. Workman, J. Blusztajn, **K.T.M. Johnson**, J.M. Sinton, B. Steinberger, J.W. Hawkins, Genesis of Western Samoa seamount province: age, geochemical fingerprint, and tectonics, *Earth and Planetary Science Letters*, 227, 37-56, 2004.
32. Ren, Z.-Y., E. Takahashi, Y. Orihashi, **K.T.M. Johnson**, Petrogenesis of Tholeiitic Lavas from the Submarine Hana Ridge, Haleakala volcano, Hawaii, *Journal of Petrology*, 45, 2067-2099, 2004.
33. **Johnson, K.T.M.**, Geology of Nihoa and Necker Islands, in *Natural History of Nihoa and Necker Islands*, Evenhuis, N.L. and Eldredge, L.G. (eds.), Bishop Museum Press, Honolulu, HI, pp. 25-31, 2005.
34. Ren, Z.-Y., T. Shibata, M. Yoshikawa, **K.T.M. Johnson**, E. Takahashi, Isotope Compositions of Submarine Hana Ridge Lavas, Haleakala Volcano, Hawaii: Implications for Source Compositions, Melting Process and the Structure of the Hawaiian Plume, *Journal of Petrology*, 47, 255-275, 2006.
35. Lebo, S. and **K.T.M. Johnson**, Geochemical Sourcing of Rock Specimens and Stone Artifacts from Nihoa and Necker Islands, Hawai'i, *Journal of Archaeological Science*, 34, 858-871, doi:10.1016/j.jas.2006.08.009, 2007.
36. Hanyu, T., **K.T.M. Johnson**, N. Hirano and Z.Y. Ren, Noble gas and geochronology study of the Hana Ridge, Haleakala volcano, Hawaii; implications to the temporal change of magma source and the structural evolution of the submarine ridge, *Chemical Geology*, 238, 1-18, 2007.
37. Nicolaysen, K.E., F.A. Frey, J.J. Mahoney, **K.T.M. Johnson**, D.W. Graham, Influence of the Amsterdam/St. Paul hot spot along the Southeast Indian Ridge between 77 and 88 E: Correlations of Sr, Nd, Pb, and He isotopic variations with ridge segmentation, *Geochem. Geophys. Geosyst.*, 8, Q09007, doi:10.1029/2006GC001540, 2007.
38. Suhr, G., E. Hellebrand, **K. Johnson**, and D. Brunelli, Stacked gabbro units and intervening mantle: A detailed look at a section of IODP Leg 305, Hole U1309D, *Geochem. Geophys. Geosyst.*, 9, Q10007, doi:10.1029/2008GC002012, 2008.
39. Godard, M., **K. Johnson**, and 11 others, Geochemistry of a long in-situ section of intrusive slow-spread crust: Results from IODP Site U1309 (Atlantis Massif, 30°N Mid-Atlantic-Ridge), *Earth and Planetary Science Letters*, 279, 110–122, 2009.
40. Janin, M., C. Hémond, H. Guillou, M. Maia, **K. T. M. Johnson**, C. Bollinger, C. Liorzou, and A. Mudholkar, Hot spot activity and tectonic settings near Amsterdam–St. Paul plateau (Indian Ocean), *J. Geophys. Res.*, 116, B05206, doi:10.1029/2010JB007800, 2011.
41. Blackman, D., et al., Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30°N, *J. Geophys. Res.*, 116, B07103, doi:10.1029/2010JB007931, 2011.
42. Maia, M, I Pessanha, E Courrèges, M Patriat, P Gente, C Hémond, M Janin, **KTM Johnson**, W Roest, J-Y Royer, and J Vatteville, Building of the Amsterdam–Saint Paul plateau: A 10 Myr history of a ridge-hot spot interaction and variations in the strength of the hot spot source, *J. Geophys. Res.*, 116, B09104, doi:10.1029/2010JB007768, 2011.
43. Janin, M., C. Hémond, M. Maia, P. Nonnotte, E. Ponzevera, **K. T. M. Johnson**, The Amsterdam–St. Paul Plateau: a Complex Hotspot/DUPAL-Flavored MORB Interaction, *Geochem. Geophys. Geosyst.*, 13, doi:10.1029/2012GC004165, 2012.
44. Kelemen, P.B., **K.T.M. Johnson** et al., *In situ* carbon mineralization in ultramafic rocks: Natural processes and possible engineered methods, International Carbon Conference 2018, ICC 2018, 10–14 September 2018, Reykjavik, Iceland, *Energy Procedia*, 146, 92-102, 2018, doi:10.1016/j.egypro.2018.07.013

45. **Johnson, Kevin T.M.**, Titanaugites in lithic clasts from serpentinite volcanoes from the Mariana Forearc: Evidence of subducted seamounts at the Mariana Trench, in Fryer, P., Wheat, C.G., Williams, T., and the Expedition 366 Scientists, *Proceedings of the International Ocean Discovery Program Volume 366 Mariana Convergent Margin and South Chamorro Seamount*, doi:10.14379/iocp.proc.366.2018.
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LANGUAGES SPOKEN:

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