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**Education:**

1972 BS, University of Wisconsin, Madison  
1981 BA, San Francisco State University  
1985 Ph.D., University of California, San Diego

**Positions Held:**

1982 Teaching Assistant: Scripps Institution of Oceanography, UCSD  
1981-1985 Graduate Research Assistant - Scripps Institution of Oceanography, UCSD  
1986-1987 Post-doctoral Scholar, Dept. of Geology and Geophysics, WHOI  
1987-1991 Assistant Scientist, Dept. of Geology and Geophysics, WHOI  
1991-2001 Associate Scientist (tenured 1995), Dept. of Geology and Geophysics, WHOI  
2001-present Senior Scientist, Dept. of Geology and Geophysics, WHOI  
2007-2010 Program Manager, Ocean Drilling Program, NSF

**Fellowships, Awards, National and International Committees:**

1981 Martin van Couvering Award, American Association of Petroleum Geologists  
1985 Earle C. Anthony Dissertation Fellowship  
1986 Mellon Independent Study Award, Woods Hole Oceanographic Institution  
1987 Office of Naval Research Young Investigator Program Award  
1995/98/01 Mellon Foundation Endowment Fund for Innovative Research in Oceanography, WHOI  
1998 Green Scholar, Green Foundation for Earth Sciences, IGPP, SIO  
2001 Organizing Committee Chair, Workshop on Data Management for Marine Geology and Geophysics  
2001 Centers of Ocean Sciences Education Excellence (COSEE) Implementation Steering Committee  
2001 Visiting Professor, Institut de Physique du Globe de Paris  
2000-2002 United States Science Advisory Committee (USSAC)  
2000-2002 USSAC Executive Committee  
2002-2003 NRC Committee to Review NOAA's National Geophysical Data Center  
2002- 2004 RIDGE 2000 Steering Committee  
2002- 2004 RIDGE 2000 Executive Committee  
2003-2004 InterRidge Steering Committee  
2006 NRC study committee: Archiving Environmental and Geospatial Data at NOAA  
2008 Ridge 2000 Distinguished Lecturer  
2007-2010 NSF representative on Integrated Ocean Drilling Program (IODP) Council/International Working Group Plus

**National/International Workshops:**

1991/92 ONR Special Research Program on Acoustic Reverberation  
1992 FARA (French-American Ridge Atlantic) Meeting, Iceland  
1992 RIDGE short course: Hydrothermal and magma chamber processes, Tucson  
1993 InterRidge Global Studies Meeting, Paris  
1993 InterRidge Meso-Scale Symposium, Durham, England

- 1994 The Icelandic Plume and its Influence on the Evolution of the NE Atlantic, Reykjavik, Iceland
- 1994 InterRidge Meeting: 4-D Architecture of the Oceanic Lithosphere
- 1994 RIDGE Design Workshop for Experimental Approaches to Ridge Segment Structure and Dynamics, invited speaker, Medford
- 1995 RIDGE Theoretical Institute: Faulting and Magmatism at Mid-Ocean Ridges, Lake Tahoe
- 1996 FARA, Mid-Atlantic Ridge Symposium, Iceland
- 1996 Magnetization of the Ocean Crust Conference, San Juan Islands
- 1997 SubSurface Biosphere Workshop, Washington, D.C.
- 1997 GSA Workshop/Field Course: Active Lava Flows, Kilauea Volcano
- 1997 GSA Workshop/Field Course: Mauna Loa Volcano
- 1999 RIDGE School invited lecturer, Cyprus
- 1999 Iceland Rift Zones Workshop, Iceland
- 1999 Ridge 2000 Meeting, Newport
- 1999 DEveloping Submergence SCience for the Next Decade: DESCEND Workshop, NSF
- 2000 Ridge 2000 Integrated Studies Workshop, co-convener, Chicago
- 2000 Ridge 2000 Exploratory Studies Workshop, co-convener, Albuquerque
- 2001 Data Management in Marine Geology and Geophysics Workshop, co-convener, La Jolla
- 2003 COSEE National meeting, Washington, D.C.
- 2003 Cabled Regional Observatory meeting, invited, San Francisco
- 2003 Opportunities and Contributions of Asian Countries to the InterRidge Next Decade Initiative, invited, Beijing
- 2004 Ridge 2000 Mid-Atlantic Ridge Workshop, co-convener, Providence
- 2004 Seismo-Acoustic Applications in Marine Geology and Geophysics, Organizing Committee, Woods Hole
- 2004 Backarc Basins and Spreading Systems Workshop, Jeju Island, Korea
- 2008 The Next Decade of the Seismogenic Zone Experiment, Mt. Hood, OR
- 2009 INVEST – IODP New Ventures in Exploring Scientific Targets, Bremen Germany
- 2010 Reaching the Mantle Frontier Workshop, Carnegie Institution, Washington, DC

**Meeting Convener and AGU Special Sessions:**

- 1991 AGU Special Session with A. Malinverno: “The Origin of Seafloor Topography”
- 1993 AGU Special Session with J. Head: “Why Does Rising Magma Stop”
- 1997 AGU Special Session with L. Kong and K. Johnson: “Shallow Crustal Architecture of Submarine and Subaerial Rift Zones”
- 2000 RIDGE Integrated Studies Workshop
- 2000 RIDGE Exploratory Studies Workshop
- 2001 Data Management in Marine Geology and Geophysics
- 2004 Ridge2000 Mid-Atlantic Ridge Workshop

**Field Work-last 20 years:**

- 1990 R/V M. Ewing - Hydrosweep/TOBI side-scan survey of the Reykjanes Ridge, L. Parson and R. Searle, co-Chief Scientists
- 1991 R/V T. Washington - SeaBeam/SeaMARCII surveys of the southern EPR, P. Lonsdale, Chief Scientist
- 1992 RRS Charles Darwin - TOBI surveys/Dredging of the axial zone of the MAR 24o-30oN, J.R. Cann and D.K. Smith, co-Chief Scientists
- 1993/94 On land, Big Island of Hawaii, relate volcanic structures to those observed in sonar images of the seafloor, with W. Bryan, J. Lin.

1995	On land, Iceland, map/sample volcanic features, with S. Humphris and W. Bryan
1996	TOBI surveys MAR, 29° N, J.Cann and D.Blackman, co-Chief Scientists
1998	DSL-120 kHz, ARGO-II survey, Puna Ridge, Hawaii, D. Smith, Chief Scientist
1999	Deployment of autonomous hydrophones in the North Atlantic, D. Smith, Chief Scientist with M. Tolstoy and C. Fox
2000	Turnaround of hydrophone array, multibeam mapping, D. Smith, Chief Scientist
2001	Turnaround hydrophone array, multibeam mapping, camera work, D. Smith, Chief Scientist
2002	Survey and sample Incipient Rift, 2°40'N at the EPR, E. Klein, D. Smith co-Chief Scientists
2005	Geophysical survey of 13°N at the MAR, D. Smith, chief scientist
2008/09	Survey of the Galapagos TJ, H. Schouten/D. Smith, co-chief scientists

### **Educational Public Web Sites Developed and Implemented:**

- Puna Ridge Web Site, [www.punaridge.org](http://www.punaridge.org) Goal: to integrate education and research by taking students and the public to sea “virtually” on a funded research cruise.
- Women Exploring the Oceans, [www.womenoceanographers.org](http://www.womenoceanographers.org) Goal: to engage the public and school children in the day-to-day lives of women in marine science.
- WHOI’s site for the New England Center for Ocean Sciences Education Excellence (NE-COSEE) partnership. Included information on NE-COSEE at WHOI activities, on-going projects and resources for scientists.

### **Invited Talks - last 13 years:**

1997	Smith, D.K., Volcanism at the slow-spreading Mid-Atlantic Ridge, IGPP, Scripps Institution of Oceanography
1998	Smith, D. K., Diking and eruption at a slow-spreading ridge, IGPP, Scripps Institution of Oceanography
1998	Smith, D. K., Diking and eruption at a slow-spreading ridge, WHOI
1998	Smith, D. K., Detailed characteristics of the submarine Puna Ridge, Fall AGU
1999	Smith, D. K., Eruption characteristics at slow-spreading ridges, Georgia Institute of Technology
1999	Smith, D. K., Puna Ridge revisited, Scripps Institution of Oceanography
1999	Smith, D. K., Diking and eruption at a slow-spreading mid-ocean ridge, Lamont-Doherty Earth Observatory
1999	Smith, D. K., Volcanism at mid-ocean ridges, RIDGE School, Cyprus
2000	Smith, D. K., Diking and eruption at a slow-spreading mid-ocean ridge, University of Rhode Island
2000	Smith, D. K., L. A. Dolby, E. Schiele, Education and ocean exploration, Ocean Sciences Meeting
2000	Smith, D. K., Lava depocenters on the summit of the Puna Ridge, Kilauea Volcano, Hawaii, University of New Hampshire
2001	Smith, D. K., Monitoring low-level seismicity at the Mid-Atlantic Ridge using autonomous hydrophones, University of Paris
2002	Smith, D. K., Monitoring low-level seismicity at the Mid-Atlantic Ridge using autonomous hydrophones, University of Massachusetts, Boston
2003	Smith, D. K., Hydroacoustic studies of ocean ridge earthquakes, Beijing University, Beijing
2004	Smith, D. K., Mid-ocean ridges: volcanoes under the sea, Seoul National University, Seoul, Korea

- 2007 D. Smith, Marie Tharp's Crystal Ball, Marie Tharp symposium, Lamont Doherty Earth Observatory
- 2007 D. Smith, H. Schouten, J. Escartin, J. Cann, Unexpected Widespread Detachment Faulting During Formation of Lithosphere at the Northern Mid-Atlantic Ridge, Fall AGU
- 2007 J. Escartin, D. Smith, H. Schouten, J. Cann, Quantifying the role of active detachment faulting on lithospheric accretion along the Mid-Atlantic Ridge, Fall AGU
- 2008 Smith, D. K., An Unexpected Graveyard of Core Complexes at the Mid-Atlantic Ridge, University of Rhode Island
- 2008 Smith, D. K., Blue Hill, Maine: New Wrinkles in the Fabric of the Seafloor, Marine Environmental Research Institute
- 2008 Smith, D. K., An Unexpected Graveyard of Core Complexes at the Mid-Atlantic Ridge, Arizona State University, Tempe
- 2008 Escartin, J.; Smith, D. K.; Cann, J.; Schouten, H., Role of detachment faulting in lithospheric accretion along slow-spreading ridges (MAR 12-35°N), EGU
- 2010 Smith, D. K.; Opportunities in Ocean Drilling, Ocean Drilling Workshop, Fall AGU

### **Publications:**

- Jordan, T. H., H. W. Menard, and D.K. Smith, Density and size distribution of seamounts in the eastern Pacific inferred from wide-beam sounding data, *J. Geophys. Res.*, 88, 10508-10518, 1983.
- Kim, I. I., D. K. Smith, H. W. Menard, J. A. Orcutt and T. H. Jordan, Seismic reflection site survey: correlation with physical properties, Leg 91, Deep Sea Drilling Project, In: Menard, H.W., J.H. Natland, T.H. Jordan, J. Orcutt, et al., *Init. Repts. DSDP, 91*, Washington (U.S. Government Printing Office), 1987.
- Smith, D. K. and T. H. Jordan, The size distribution of Pacific seamounts, *Geophys. Res. Letts.*, 14, 1119-1121, 1987.
- Shaw, P. R. and D. K. Smith, Statistical methods for describing seafloor topography, *Geophys. Res. Letts.*, 14, 1061-1064, 1987.
- Smith, D. K. and T. H. Jordan, Seamount statistics in the Pacific Ocean, *J. Geophys. Res.*, 93, 2899-2918, 1988.
- Smith, D. K., Shape analysis of Pacific seamounts, *Earth Planet. Sci. Letts.*, 90, 457-466, 1988.
- Smith, D. K. and P. R. Shaw, Using topographic slope distributions to infer seafloor patterns, *IEEE, J. of Ocean Eng.*, 14, 338-347, 1989.
- Shaw, P. R. and D. K. Smith, Robust description of heterogeneous seafloor bathymetry through its slope distribution, *J. Geophys. Res.*, 95, 8705-8722, 1990.
- Smith, D. K. and P. R. Shaw, Seafloor topography: A record of a chaotic dynamical system?, *Geophys. Res. Letts.*, 17, 1541-1544, 1990.
- Smith, D. K., and J. R. Cann, Hundreds of small volcanoes on the median valley floor of the Mid-Atlantic Ridge at 24-30N, *Nature*, 348, 152-155, 1990.
- Smith, D. K., Seamount abundances and size distributions, and their geographic variations, *Reviews in Aquatic Sciences*, 5, 197-210, 1991.
- Smith, D. K., and J. R. Cann, The role of seamount volcanism in crustal construction at the Mid-Atlantic Ridge (24o-30oN), *J. Geophys. Res.*, 97, 1645-1658, 1992.
- Smith, D. K. and J. R. Cann, Building the crust at the Mid-Atlantic Ridge, *Nature*, 365, 707- 715, 1993.
- Bemis, K. G., and D. K. Smith, Production of small volcanoes in the Superswell region of the South Pacific, *Earth Planet. Sci. Letts.*, 118, 251-262, 1993.
- Little, S.A., P. H. Carter, and D. K. Smith, Wavelet analysis of a bathymetric profile reveals anomalous crust, *Geophys. Res. Letts.*, 20, 1915-1918, 1993.
- Parson, L.M, B.J. Murton, R. C. Searle, D. Booth, J. Evans, P. Field, J. Keeton, A. Laughton, E. McAllister, N. Millard, L. Redbourne, I. Rouse, A. Shor, D. Smith, S. Spencer, C. Summerhayes and

- C. Walker, En echelon axial volcanic ridges at the Reykjanes Ridge: A life cycle of volcanism and tectonics, *Earth Planet. Sci. Letts.*, 117, 73-97, 1993.
- Cann, J. R., and D. K. Smith, Volcanoes of the mid-ocean ridges and the building of new ocean crust, *Endeavour, New Series*, 18, No 2, 61-66, 1994.
- Magde, L., and D. K. Smith, Seamount volcanism at the Reykjanes Ridge: Relationship to the Iceland hotspot, *J. Geophys. Res.*, 100, 8449-8468, 1995.
- Smith, D. K., J. R. Cann, and the cruise participants of CD65, Mid-Atlantic Ridge volcanism from deep-towed side scan sonar images, 25-29 N, *J. Volcan. and Geotherm. Res.*, 67, 233-262, 1995.
- Smith, D. K., S. E. Humphris, and W. B. Bryan, A comparison of eruptive units at the Reykjanes Ridge and the Mid-Atlantic Ridge, 24-30N, *J. Geophys. Res.*, 100, 22485- 22498, 1995.
- Little, S. A., and D. K. Smith, Fault scarp identification in side scan sonar and bathymetry from the Mid-Atlantic Ridge using 2-D wavelet analysis, *Mar. Geophys. Res.*, 18, 741-755, 1996.
- Smith, D. K., Comparison of the shapes and sizes of seafloor volcanoes on Earth and “Pancake” domes on Venus, *J. Volcan. and Geotherm. Res.*, 73, 47-64, 1996.
- Head, J. W., L. Wilson, and D. K. Smith, Mid-ocean ridge eruptive vents: evidence for dike widths, eruption rates, and evolution of eruptions from morphology and structure, *J. Geophys. Res.*, 101, 28,265-28,280, 1996.
- Cann, J. R., D. K. Blackman, D. K. Smith, E. McAllister, B. Janssen, S. Mello, E. Avgerinos, A. Pascoe, and J. Escartin, Corrugated slip surfaces formed at North Atlantic ridge-transform intersections, *Nature*, 385, 329-332, 1997.
- Smith, D. K., S. E. Humphris, M. A. Tivey, and J. R. Cann, Viewing the morphology of the Mid-Atlantic ridge from a new perspective, *EOS*, 78, 26, 1997.
- Spencer, S., D. K. Smith, J. R. Cann, J. Lin, and E. McAllister, Structure and stability of non-transform discontinuities on the Mid-Atlantic Ridge between 24N and 30N, *Mar. Geophys. Res.*, 19, 339-362, 1997.
- Blackman, D. K., J.R. Cann, B. Janssen, D.K. Smith, Origin of extensional core complexes: evidence from the Mid-Atlantic Ridge at Atlantis fracture zone, *J. Geophys. Res.* 103, 21,314-21,333, 1998.
- Smith, D. K., M. A. Tivey, H. Schouten, and J. R. Cann, Tracking the active spreading axis along 80 km of the Mid-Atlantic Ridge, *J. Geophys. Res.*, 104, 7599-7612, 1999.
- Smith, D. K., and J. R. Cann, Constructing the upper crust of the Mid-Atlantic Ridge; a reinterpretation based on the Puna Ridge, Kilauea Volcano, *J. Geophys. Res.*, 104, 25,379-25,399, 1999.
- Jaroslow, G. E., D. K. Smith, and B. E. Tucholke, Record of seamount production and off-axis evolution in the western North Atlantic Ocean, 25°25' - 27°10'N, *J. Geophys. Res.*, 105, 2721-2736, 2000.
- Smith, D. K., M. A. Tivey, P. Gregg, and L. S. Kong, Magnetic anomalies along the submarine Puna Ridge, Kilauea Volcano, Hawaii, *J. Geophys. Res.*, 106, 16,047-16,060, 2001.
- Smith, D. K., L. S. Kong, K. T. M. Johnson, J. Reynolds, and the cruise participants of TN084, Volcanic structure of the Puna Ridge, Kilauea Volcano, in *Evolution of Hawaiian Volcanoes: Recent Progress in Deep Underwater Research*, *Geophys. Monogr. Ser.*, vol. 128, edited by E. Takahashi et al., pp. 125-142, Washington, D. C., 2002.
- Johnson, K. T. M., J. Reynolds, D. K. Smith, L. S. L. Kong, and D. Vonderhaar, Petrological systematics of submarine lavas from the Puna Ridge, Hawai‘i: Implications for rift zone plumbing and magmatic processes, in *Evolution of Hawaiian Volcanoes: Recent Progress in Deep Underwater Research*, *Geophys. Monogr. Ser.*, vol. 128, edited by E. Takahashi et al., pp. 143-160, Washington, D. C., 2002.
- Smith, D. K., M. Tolstoy, C. G. Fox, D. R. Bohnenstiehl, H. Matsumotu, and M. Fowler, Hydroacoustic monitoring of seismicity at the slow-spreading Mid-Atlantic Ridge, *Geophys. Res. Letts.*, 29, 1518, doi: 10.1029/2001GL013912, 2002.
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- Zhu, W., D. K. Smith, and L. Montesit, Effects of regional slope on viscous flows: A preliminary study of submarine terrace emplacement, *J. Vol. Geotherm Res.*, 119, 145-159, 2002.
- Smith, D. K., J. Escartin, M. Cannat, M. Tolstoy, C. G. Fox, D. Bohnenstiehl, S. Bazin, Spatial and temporal distribution of seismicity along the northern Mid-Atlantic Ridge (15-35N), *J. Geophys. Res.*, 108, 2167, doi: 10.1029/2002JB001964, 2003.
- Bohnenstiehl D. R., M. Tolstoy, D. K. Smith, C. G. Fox, R. P. Dziak, Time-clustering behavior of spreading-center seismicity between 15 and 35°N on the Mid-Atlantic Ridge: observations from hydroacoustic monitoring, *Phys. Earth and Planet. Int.*, 138, 147-161, 2003.
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- Escartin, J., D. K. Smith, and M. Cannat, Parallel bands of seismicity at the Mid-Atlantic Ridge, 12-14°N, *Geophys. Res. Letts.*, 30, 1620, doi:10.1029/2003GL017226, 2003.
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- Acosta, J., E. Uchupi, D. K. Smith, A. Munoz, P. Herranz, C. Palomo, P. LLanes, M. Ballesteros, and See Work Group, Comparison of volcanic rifts on La Palma and El Hierro, Canary Islands and the Island of Hawaii, *Mar. Geophys. Res.*, 24, 59-90, 2005.
- Cann, J. R. and D. K. Smith, Evolution of volcanism and faulting in a segment of the Mid-Atlantic Ridge at 25°N, *Geochem. Geophys. Geosys.*, Vol. 6, Q09008, DOI 10.1029/2005GC000954, 2005.
- Smith, D. K. and P. Lemmond, Oceanographic Telecommuting: Going to Sea Virtually, *EOS Transactions*, 86, 333-334, 2005.
- Gregg, P., J. Lin, and D. K. Smith, Segmentation of transform systems on the East Pacific Rise: Implications for earthquakes processes at fast-slipping oceanic transform faults, *Geology*, 34, doi: 10.1130/G22212.1, 289-292, 2006
- Williams, C. M., R. A. Stephen, and D. K. Smith, Hydroacoustically-recorded seismicity at the intersection of the Atlantis (30°N) and Kane (23°40'N) Transform Faults with the Mid-Atlantic Ridge, *Geochem. Geophys. Geosys.*, 7, Q06015, DOI 10.1029/2005GC001127, 2006.
- Smith, D. K., J. R. Cann, and J. Escartin, Widespread active detachment faulting and core complex formation near 13oN on the Mid-Atlantic Ridge, *Nature*, 442, doi:10.1038/nature04950, 2006.
- Smith, D. K., J. Escartin, H. Schouten, and J. R. Cann, Fault rotation and core complex formation: Significant processes in seafloor formation at slow-spreading mid-ocean ridges (Mid-Atlantic Ridge, 13-15°N), *Geochem. Geophys. Geosys.*, v. 9, Q03003, doi:10.1029/2007GC001699, 2008

- Schouten, H., D. K. Smith, L. Montesi, W. Zhu, and E. M. Klein, Unstable Northern Rifts of the Galapagos Triple Junction, Eastern Equatorial Pacific, *Geology*, p. 339–342; doi: 10.1130/G24431A.1, 2008.
- Escartin, J., D. K. Smith, J. Cann, H. Schouten, C. H. Langmuir, S. Escrig, Central role of detachment faults in accretion of slow-spreading oceanic lithosphere, *Nature*, v. 455, doi: 10.1038/nature07333, 2008.
- Llanes, P., R. Herrera, M. Gomez, A. Munoz, J. Acosta, E. Uchupi, D. K. Smith, Geological evolution of the volcanic island La Gomera, Canary Islands, from analysis of its geomorphology, *Marine Geology*, doi:10.1016/j.margeo.2009.05.001, 2009.
- Schouten, H., D. K. Smith, J. Cann, and J. Escartin, Visualizing the formation of oceanic core complexes to estimate magmatic vs tectonic extension of seafloor, *Geology*, v. 38, 615-618, doi: 10.1130/G30803.1, 2010.
- Smith, D. K., N. Exon, F. Barriga, Y. Tatsumi, Forty years of successful international collaboration in scientific ocean drilling, *EOS*, v. 91, 393-394, 2010.
- Mitchell, G.A., Montési, L.G.J., Zhu, W., Smith, D.K., and Schouten, H., Transient rifting north of the Galápagos Triple Junction: *Earth Planet. Sci. Letts.*, v. 307, p. 461-469, 2011.
- Smith, D. K., H. Schouten, W. Zhu, L. Montesi, and J. R. Cann, Distributed deformation ahead of the Cocos-Nazca Rift at the Galapagos Triple Junction, *Geochem. Geophys. Geosys.*, in revision, 2011.