

Curriculum Vitae

Kevin G Speer

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General Information

University address: Earth, Ocean & Atmospheric Science
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Florida State University
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Professional Preparation

- 1988 Ph.D., Massachusetts Institute of Technology. Major: Oceanography.
- 1985 M.S., Massachusetts Institute of Technology, Boston, MA. Major: Physical Oceanography.
- 1982 B.S., University of California at Santa Barbara. Major: Physics and Mathematics. Cum Laude.

Professional Experience

- 2012–present Director, Geophysical Fluid Dynamics Institute, Florida State University.
- 1999–present Professor, Earth, Ocean & Atmospheric Sci, Florida State University.
- 1999–2003 Associate Professor, Florida State University.
- 1992–1999 Scientist (CNRS), Laboratoire de Physique des Océans, IFREMER, Brest, France.
- 1990–1992 Research Scientist, Marine Physics, Institut für Meereskunde, Kiel, Germany.

Fellowship(s)

MIT-WHOI Joint Program in Oceanography (1982–1990).

Honors, Awards, and Prizes

Post-doctoral scholarship, IFREMER Physical Oceanography Dept, Brest, France (1988).

Current Membership in Professional Organizations

EOAS Building Committee

FSU Mathematics Department Graduate Program Committee

FSU Science Area Committee

Teaching

Courses Taught

Special Topics in Physical Oceanography (OCP5930)

Elementary Oceanography (OCE1001)

Seminar (GFD6935)

Coastal Oceanography and Marine Field Methods (OCE5009-L)

Natural Science Honors Seminar (ISC2937)

Studies in Oceanography (OCE4930)

The Earth System (OCG5106)

Special Topics in Chemical Oceanography (OCC5930)

Physical Oceanography Seminar (OCP5939)

Doctoral Committee Chair

Dong, J., graduate. (2012).

Faure, V., graduate. (2009).

Choi, Seo-eun, graduate. (2007). *Oceanography and statistics collaborative study with F. Huffel.*

Herbei, R., graduate. (2006). *Bayesian approach to ocean circulation with I. McKeague.*

Sallee, Jean-Baptiste, graduate. (2006). *Univ. P. Sabatier, Toulouse, France, Mode Water in the Southern Ocean.*

Dubus, L., graduate. (1999). *Turbulent property fluxes in the inter-gyre region of the northeast Atlantic Ocean.* [LPO, with A.-M. Treguier]

Balwada, D., doctoral student. *Mixing in the Southern Ocean.*

Mortenson, E., doctoral student.

Simons, E., doctoral student.

Smith, C., doctoral student. *Laboratory analogues of the ACC.*

Doctoral Committee Member

Peterson, R. N., graduate. (2009).
Deboer, A., graduate. (2003).
Barton, C., doctoral candidate.
Santema, M., doctoral candidate.
Byers, N., doctoral student.
Garland, H., doctoral student.
Hagan, C., doctoral student.
Khazmutdinova, K., doctoral student.
Schoonover, J. A., doctoral student.

Doctoral Committee University Representative

Moore, A., doctoral student.

Master's Committee Chair

Chien, Chin-Ying, graduate. (2009).
Mortenson, E., student.

Master's Committee Member

Long, D. J., graduate. (2011).
Olsina, O., graduate. (2009).

Research and Original Creative Work

Publications

Refereed Journal Articles

Speer, K. G., Couldrey, M. P., Jullion, L., Naveira-Garabato, A. C., Rye, C., Herraiz-Borreguero, L., Brown, P. J., & Meredith, M. P. (submitted). Remotely-induced warming of Antarctic Bottom Water in the eastern Weddell gyre. *Geophys. Research Letters*. Manuscript submitted for publication.

Speer, K. G., & Faure, V. (in press). Deep Circulation in the Eastern South Pacific Ocean. *Journal of Marine Research*.

- Speer, K. G., Downes, S., Key, R. M., Orsi, A. H., & Swift, J. H. (2012). Tracing Southwest Pacific Bottom Water using potential vorticity and helium-3. *Journal of Phys. Ocean*, *42*, 2153-2168. doi:10.1175/JPO-D-12-019.1
- Speer, K. G., & Marshall, J. (2012). Closing the meridional overturning circulation through Southern Ocean upwelling. *Nature Geoscience*, *5*, 171-180. doi:10.1038/ngeo1391
- Speer, K. G., Ren, L., & Chassignet, E. P. (2011). The mixed layer salinity budget and sea ice in the Southern Ocean. *Journal of Geophys. Res*, *116*, C08031. doi:10.1029/2010JC006634
- Speer, K. G., Sallee, J.-B., & Rintoul, S. (2011). Mean-flow and topographic control on surface eddy-mixing in the Southern Ocean. *Journal of Marine Research*, *69*, 1-25.
- Speer, K. G., & Lu, J. (2010). Topography, Jets, and Eddy Mixing in the Southern Ocean. *Journal of Marine Research*, *68* (3-4), 479-502(24).
- Speer, K. G., Sallee, J. B., Rintoul, S., & Wiffels, S. (2010). Southern Ocean Thermocline Ventilation. *Journal of Phys. Oceanography*, *40*, 509-529.
- Speer, K. G., Herbei, R., & McKeague, I. (2008). Gyres and Jets: Inversion of Tracer Data for Ocean Circulation. *Journal of Phys. Oceanography*, *38*, 1180-1202.
- Speer, K. G., Lumpkin, R., & Koltermann, P. (2008). Transport across 48N in the North Atlantic Ocean. *Journal of Phys. Oceanography*, *38*, 733-752.
- Speer, K. G., Sallee, J.-B., & Morrow, R. (2008). Eddy heat diffusion and Subantarctic Mode Water formation. *Geophys. Research Lett*, *35*, L05607. doi:10.1029/2007GL032827
- Speer, K. G., Sallee, J. B., Morrow, R., & Lumpkin, R. (2008). An estimate of Lagrangian eddy statistics and diffusion in the mixed layer of the Southern Ocean. *Journal of Marine Research*, *66* (4), 441-463.
- Speer, K. G., Sallee, J. B., Morrow, R., & Lumpkin, R. (2008). Response of the Antarctic Circumpolar Current to atmospheric variability in the ACC. *Journal of Climate*, *21* (12), 3020-3039.
- Speer, K. G., & Lumpkin, R. (2007). Global Ocean Meridional Overturning. *Journal of Phys. Oceanography*, *37*, 2550-2562.
- Speer, K. G., Sallee, J.-B., Wienders, N., & Morrow, R. (2006). Formation of subantarctic mode water in the southeastern Indian Ocean. *Ocean Dynamics*, 1-18. doi:10.1007/s10236-005-0054-x
- Speer, K. G., & Faure, V. (2005). Labrador Sea Water circulation in the Northern North Atlantic Ocean. *Deep-Sea Research*, *52*, 565-581.

- Speer, K. G., McKeague, I., & Nicholls, G. (2005). Statistical inversion of tracer data in the South Atlantic Ocean. *Journal of Marine Research*, 63, 683-704.
- Speer, K. G., Thurnherr, A. M., St Laurent, L. C., Toole, J. M., & Ledwell, J. R. (2005). Mixing associated with sills in a canyon on the mid-ocean ridge flank. *Journal of Phys. Oceanography*, 35, 1370-1381.
- Speer, K. G., & Thurnherr, A. M. (2004). Representativeness of meridional hydrographic sections in the western South Atlantic. *Journal of Mar. Research*, 62, 37-65.
- Speer, K. G., & Lumpkin, R. (2003). Large-scale vertical and horizontal circulation in the North Atlantic Ocean. *Journal of Phys. Oceanography*, 33 (9), 1902-1920.
- Speer, K. G., & Thurnherr, A. M. (2003). Boundary mixing and topographic blocking on the Mid-Atlantic Ridge in the South Atlantic. *Journal of Phys. Oceanography*, 33, 848-862.
- Speer, K. G., Trequier, A.-M., Hogg, N. G., Maltrud, M., & Thierry, V. (2003). On the origin of deep zonal flows in the Brazil Basin. *Journal of Phys. Oceanography*, 33, 580-599.
- Speer, K. G., Bower, A., LeCann, B., Rossby, T., Zenk, W., Gould, J., Prater, M., & Zhang, H.-M. (2002). Directly measured mid-depth circulation in the northeastern North Atlantic Ocean and the impact of the Mid-Atlantic Ridge. *Nature*, 419, 603-607.
- Speer, K. G., Lumpkin, R., & Treguier, A.-M. (2002). Lagrangian eddy scales in the northern Atlantic Ocean. *Journal of Phys. Oceanography*, 32, 2425-2440.
- Speer, K. G., Mullineaux, L. S., Thurnherr, A. M., Maltrud, M. E., & Vangriesheim, A. (2002). Implications of cross-axis flow for larval dispersal along mid-ocean ridges. *Cahiers de Biologie Marine*, 43, 281-284.
- Speer, K. G., Thurnherr, A. M., Richards, K. J., German, C. R., & Lane-Serff, G. F. (2002). Flow and dispersal in the rift valley of the Mid-Atlantic Ridge. *Journal of Phys. Oceanography*, 32, 1763-1778.
- Speer, K. G., Van Dover, C. L., German, C. R., Parson, L. M., & Vrijenhoek, R. C. (2002). Evolution and Biogeography of Deep-Sea Vent and Seep Invertebrate Faunas. *Science*, 295, 1253-1257.
- Speer, K. G., Guilvardi, E., & Madec, G. (2000). Southern Ocean transformation in a coupled model with and without eddy mass fluxes. *Tellus*, 52A, 554-565.
- Speer, K. G., O'Dwyer, J., Williams, R. G., & LaCasce, J. H. (2000). Does the potential vorticity distribution constrain the spreading of floats in the North Atlantic? *Journal of Phys. Oceanography*, 30, 721-732.

- Speer, K. G., Rintoul, S. R., & Sloyan, B. (2000). The Diabatic Deacon Cell. *Journal of Phys. Oceanography*, *30*, 3212-3222.
- Speer, K. G., Gordon, A. L., Barnier, B., & Stramma, L. (1999). Introduction to the special section: World Ocean Circulation Experiment: South Atlantic results. *Journal of Geophysical Research*, *104*, 20859-20861.
- Speer, K. G., Gould, J., & LaCasce, J. (1999). Year-long float trajectories in the Labrador Sea Water of the eastern North Atlantic Ocean. *Deep-Sea Research II*, *46*, 165-179.
- Speer, K. G., & LaCasce, J. H. (1999). Lagrangian statistics in unforced barotropic flows. *Journal of Marine Research*, *57*, 245-274.
- Speer, K. G., & McDougall, T. J. (1999). Fluxes of heat and tracers in "hot smoker" plumes. *Journal of Geophysical Research*, *104*, 18301-18304.
- Speer, K. G. (1998). A new spin on hydrothermal plumes. *Science*, *280*, 1034-1035.
- Speer, K. G., Ferron, B., Mercier, H., Gargett, A., & Polzin, K. (1998). Mixing in the Romanche Fracture Zone. *Journal of Phys. Oceanography*, *28*, 1929-1945.
- Speer, K. G., & Mercier, H. (1998). Transport of Antarctic Bottom Water in the Romanche Fracture Zone and the Chain Fracture Zone. *Journal of Phys. Oceanography*, *28*, 779-790.
- Speer, K. G. (1997). A note on average cross-isopycnal mixing in the North Atlantic Ocean. *Deep-Sea Research*, *44*, 1981-1990.
- Speer, K. G. (1997). Thermocline penetration by buoyant plumes. *Philosophical Transactions of the Royal Society of London*, *355*, 443-458.
- Speer, K. G., Polzin, K. L., Toole, J. M., & Schmitt, R. W. (1996). Intense mixing of Antarctic Bottom Water in the equatorial Atlantic Ocean. *Nature*, *380*, 54-47.
- Speer, K. G., Wilson, C., Charlou, J.-L., Ludford, E., Klinkhammer, G., Chin, C., Bougault, H., German, C., & Palmer, M. (1996). Hydrothermal anomalies in the Lucky Strike segment on the Mid-Atlantic Ridge (37°N-17°N). *Earth and Planetary Science Letters*, *142*, 467-477.
- Speer, K. G., Emanuel, K. A., Rotunno, R., Srivastava, R., & Molina, M. (1995). Hypercanes: a possible link in global extinction scenarios. *Journal of Geophysical Research*, *100* (D7), 13755-13765.

- Speer, K. G., Garrett, C., & Tragou, E. (1995). The relationship between water mass formation and the surface buoyancy flux, with application to Phillips' Red Sea model. *Journal of Phys. Oceanography*, 25, 1696-1705.
- Speer, K. G., Isemer, H.-J., & Biastoch, A. (1995). Global water mass formation from revised COADS data. *Journal of Physical Oceanography*, 25, 2444-2457.
- Speer, K. G., & Marshall, J. (1995). The growth of convective plumes at seafloor hot springs. *Journal of Marine Research*, 53, 1025-1057.
- Speer, K. G., Siedler, G., & Talley, L. (1995). The Namib Col Current. *Deep-Sea Research*, 42, 1933-1950.
- Speer, K. G., Wilson, C., Charlou, J.-L., Bougault, H., & Klinkhammer, G. (1995). Hydrography above the Mid-Atlantic Ridge in the FAZAR area (33/degs~N) and within the Lucky Strike segment. *Journal of Geophysical Research*, 100, 20555-20564.
- Speer, K. G., & Forbes, A. (1994). A deep western boundary current in the South Indian Basin. *Deep-Sea Research*, 41, 1289-1303.
- Speer, K. G., Mercier, H., & Honnerez, J. (1994). Flow pathways of bottom water through the Romanche and Chain Fracture Zones. *Deep-Sea Research*, 41, 1457-1477.
- Speer, K. G., & Tziperman, E. (1994). A study of water mass transformation in the Mediterranean Sea: analysis of climatological data and a simple 3-box model. *Dyn. Atmos. Oceans*, 21, 53-82.
- Speer, K. G. (1993). Conversion among North Atlantic water types. *Tellus*, 45A, 72-79.
- Speer, K. G. (1993). The deep silica tongue in the North Atlantic. *Deep-Sea Research*, 40, 925-936.
- Speer, K. G., Tziperman, E., & Feliks, I. (1993). A simple numerical model for topographic and grounding effects in a bottom layer. *Journal of Geophys. Research*, 98, 8547-8558.
- Speer, K. G., & Zenk, W. (1993). The flow of Antarctic Bottom Water into the Brazil Basin. *Journal of Phys. Oceanography*, 12, 2667-2682.
- Speer, K. G., Zenk, W., & Hogg, N. (1993). Bathymetry at the Vema Sill. *Deep-Sea Research*, 40, 1925-1933.
- Speer, K. G., & McCartney, M. S. (1992). Bottom water circulation in the western North Atlantic. *Journal of Phys. Oceanography*, 22, 83-92.

- Speer, K. G., & Tziperman, E. (1992). Rates of water mass formation in the North Atlantic Ocean. *Journal of Phys. Oceanography*, 22, 105-115.
- Speer, K. G., Zenk, W., Siedler, G., Pätzold, J., & Heidland, C. (1992). First resolution of flow through the Hunter Channel of the South Atlantic Ocean. *Earth and Planetary Science Letters*, 113, 287-292.
- Speer, K. G., & McCartney, M. S. (1991). Tracing Lower North Atlantic Deep Water across the equator. *Journal of Geophysical Research*, 96, 20443-20448.
- Speer, K. G., & Warren, B. A. (1991). Deep circulation in the eastern South Atlantic Ocean. *Deep-Sea Research*, 38, 281-322.
- Speer, K. G., & Tziperman, E. (1990). Convection from a source in an ocean basin. *Deep-Sea Research*, 37, 431-446.
- Speer, K. G. (1989). A forced baroclinic vortex around a hydrothermal plume. *Geophysical Research Letters*, 16 (5), 461-464.
- Speer, K. G. (1989). The Stommel and Arons model and geothermal heating in the South Pacific. *Earth and Planetary Science Letters*, 95, 359-366.
- Speer, K. G., & Rona, P. A. (1989). A model of an Atlantic and Pacific hydrothermal plume. *Journal of Geophys. Research*, 94(C5), 6213-6220.
- Speer, K. G., & Rona, P. A. (1989). An Atlantic hydrothermal plume: TAG area, Mid-Atlantic Ridge crest near 26N. *Journal of Geophys. Research*, 94(B10), 13879-13893.
- Speer, K. G., & Whitehead, J. A. (1988). A gyre in a non-uniformly heated rotating fluid. *Deep-Sea Research*, 35, 1069-1077.
- Speer, K. G., & Joyce, T. M. (1987). Modeling the large-scale influence of geothermal sources on abyssal flow. *Journal of Geophys. Research*, 92 (C3), 2843-2850.

Refereed Book Chapters

- Speer, K. G., Maltrud, M. E., & Thurnherr, A. M. (2003). A Global View of Dispersion on the Mid-Ocean Ridge. In P. Halbach, V. Tunnicliffe, & J. Hein (Eds.), *Energy and Mass Transfer in Marine Hydrothermal Systems*. Berlin: Dahlem University Press.

- Speer, K. G., Rintoul, S. R., Church, J., Fahrbach, E., Garcia, M., Gordon, A., King, B., Morrow, R., & Orsi, A. (2001). Monitoring and Understanding Southern Ocean Variability and its impact on Climate: A Strategy for Sustained Observations. In C. Koblinsky, & N. Smith (Eds.), *Observing the Ocean for Climate in the 21st Century*. Melbourne, Australia: Bureau of Meteorology.
- Speer, K. G., Holfort, J., Reynaud, T., & Siedler, G. (1996). South Atlantic heat flux at 11/degs S. In G. Wefer, W.H. Berger, G. Siedler, & D. Webb (Eds.), *The South Atlantic: Present and Past Circulation* (pp. 105-120). Berlin: Springer Verlag.
- Speer, K. G., & Helfrich, K. R. (1995). Hydrothermal plumes: a review of flow and fluxes. In L.M. Parson, C.L. Walker, & D.R. Dixon (Eds.), *Hydrothermal Vents and Processes* (pp. (87) 373-385). Geological Society Special Publication.

Presentations

Invited Presentations at Conferences

- Speer, K. G., Evans, G., McDonagh, E., King, B., Bryden, H., Achterberg, E., Brown, P., Bakker, D., Schuster, U., & Watson, A. (presented 2013). *A Study of the South Atlantic Ocean: Circulation and Carbon Variability*. Presentation at the meeting of International Carbon Dioxide Conference, Beijing, China. (International)

Invited Workshops

- Speer, K. G. (2013, February). *International CLIVAR Southern Ocean region*. Workshop delivered at CLIVAR, Hobart, Australia. (International)
- Speer, K. G. (2011, November). *International CLIVAR Southern Ocean region*. Workshop delivered at CLIVAR, Boulder, CO. (International)
- Speer, K. G. (2010, June). *International CLIVAR Southern Ocean region*. Workshop delivered at CLIVAR, Southampton, UK. (International)
- Speer, K. G. (2009, February). *International CLIVAR Southern Ocean region*. Workshop delivered at CLIVAR, Sydney, Australia. (International)
- Speer, K. G. (2006, November). *International CLIVAR Southern Ocean region*. Workshop delivered at CLIVAR, Buenos Aires, Argentina. (International)
- Speer, K. G. (2003, November). *US CLIVAR Southern Ocean Working Group*. Workshop delivered at Florida State University, Tallahassee, FL. (National)

- Speer, K. G. (2001, November). *Mini-meeting on Statistics and Oceanography at FSU*. Workshop delivered at Institute of Mathematical Sciences, Florida State University, Tallahassee, FL. (Local)
- Speer, K. G. (2001, September). *US Clivar*. Workshop delivered at Southern Ocean Workshop, LDGO, New York, NY. (National)
- Speer, K. G. (2001, March). *Census of Marine Life: Chemosynthetic Ecosystems Workshop*. Workshop delivered at Woods Hole, Woods Hole, MA. (National)
- Speer, K. G. (2000, November). *Southern Ocean Implementation Workshop*. Workshop delivered at CLIVAR, Perth, Australia. (International)
- Speer, K. G. (1999, March). *Deep Basin Experiment Workshop*. Workshop delivered at WOCE, Los Alamos. (National)
- Speer, K. G. (1998, August). *Southern Ocean Workshop*. Workshop delivered at WOCE. (National)
- Speer, K. G. (1987). *Deep Basin Experiment Workshop*. Workshop delivered at Woods Hole, Woods Hole, MA. (National)

Invited Lectures and Readings of Original Work

- Speer, K. G. (2013, January). *Preliminary Results from DIMES*. Delivered at MIT. (Local)
- Speer, K. G. (2012, February). *Preliminary Results from DIMES*. Delivered at University of Washington. (Local)
- Speer, K. G. (2009, February). *Bayesian Inverse Methods*. Delivered at Australian National University. (Local)
- Speer, K. G. (2008, October). *Benthic-pelagic Coupling in the Coastal Zone, Oxygen, and Physical Transport Processes*. Delivered at TAMU Community College. (Local)
- Speer, K. G. (2006, August). *The "MOC Threat"*. Delivered at Los Alamos National Labs IGPP group. (Local)
- Speer, K. G. (2002, February). *ARGO Science Team meeting*. Delivered at ARGO, Hobart, Australia. (Local)
- Speer, K. G. (1996). *Discussion on Mid-Ocean Ridge Processes*. Delivered at Royal Society, London, England. (Local)

- Speer, K. G. (1996). *Mixing in the North Atlantic Ocean*. Delivered at Ocean Sciences Meeting, San Diego, CA. (Local)
- Speer, K. G. (1996). *Presentation*. Delivered at Ciba Foundation, London, England. (International)
- Speer, K. G. (1994, April). *Invited Presentation*. Delivered at Royal Geological Society Meeting, London, England. (International)
- Speer, K. G. (1993). *Convective Plume scaling*. Delivered at AMS Waves and Stability Conference, San Antonio, TX. (Local)
- Speer, K. G. (1993). *Presentation*. Delivered at Ridge Theoretical Institute, Big Sky, Missouri. (National)
- Speer, K. G. (1990). *Hydrothermal convection physics: circulation and property transport*. Delivered at Challenger Society Meeting, Plymouth, England. (Local)

Contracts and Grants

Contracts and Grants Funded

- Speer, K. G. (Sep 2012–Aug 2015). *Collaborative research: Diagnosing Eddy Mixing in DIMES*. Funded by NSF. (OCE-1231803). Total award \$640,124.
- Speer, Kevin G (PI). (Jul 2009–Aug 2013). *Turbulent Regimes in Circumpolar Flow*. Funded by National Science Foundation. (0927583). Total award \$346,915.
- Speer, Kevin G (PI). (Jun 2009–May 2013). *EAGER: Bottom Drifters*. Funded by National Science Foundation. (0927355). Total award \$189,368.
- Speer, Kevin G (PI). (Sep 2008–Aug 2012). *Collaborative Research: Critical Layers and Isopycnal*. Funded by National Science Foundation. (0822075). Total award \$219,669.
- Speer, Kevin G (PI), & Dittmar, T. (Nov 2007–Nov 2008). *Science Party Support For CLIVAR Repeat*. Funded by University of California (San. (10280492). Total award \$88,296.
- Speer, Kevin G (PI), St Laurent, L., & Lazarevich, P. (May 2007–Jun 2013). *Collaborative Research: DIMES, Diapycnal and Isopycnal*. Funded by National Science Foundation. (0622670). Total award \$2,641,753.
- Lazarevich, Peter (PI), & Speer, K. G. (Feb 2007–Jul 2007). *DOH Drifter*. Funded by Florida Department of Health. (CORX7). Total award \$32,561.

Speer, Kevin G (PI). (Sep 2006–Aug 2009). *Collaborative Research: Interaction of Eddies With Mixed*. Funded by National Science Foundation. (0612157). Total award \$59,811.

Lazarevich, Peter (PI), & Speer, K. G. (Sep 2005–Aug 2007). *A Bottom-Resting ADCP*. Funded by Columbia University. (ONE (1)). Total award \$25,847.

Research Expeditions

Speer, K. G. (2012). *R.V. Pelican*. Deep-C Gulf of Mexico.

Speer, K. G. (2009). *R.R.S. James Cook*. DIMES Scotia Sea Cruise UK1.

Speer, K. G. (2008). *R.V. Revelle Chief Scientist*. CLIVAR Repeat Hydrography I06S Africa-Antarctica.

Speer, K. G. (2006). *R.V. Bellows*. Gulf of Mexico Marine Field Studies.

Speer, K. G. (2005). *R.V. ORI*. South China Sea small-scale physics and mixing experiment.

Speer, K. G. (1996). *B.O. D'Entrecasteaux Chief Scientist*. Arcane and Euroflat experiment.

Speer, K. G. (1994). *N.O. Le Noroit, Co-Chief Scientist*. University of Washington and WHOI.

Speer, K. G. (1991). *F.S. Alkor*.

Speer, K. G. (1991–1992). *N.O. l'Atalante*. Deep Basin Experiment.

Speer, K. G. (1990). *F.S. Littorina*.

Speer, K. G. (1990–1991). *F.S. Meteor*. Deep Basin Experiment, Hunter Channel Survey, South Atlantic Ocean.

Speer, K. G. (1989). *R.V. Melville*. South Atlantic Ventilation Experiment.

Speer, K. G. (1988). *R.V. Oceanus*. Mediterranean Sea outflow experiment.

Speer, K. G. (1986–1987). *R.R.S. Charles Darwin*. MASAI Experiment part 1.

Speer, K. G. (1983). *R.V. Oceanus*. WHOI Lotus program.

Service

The Profession

Editor for Refereed Journals

Editor, *Journal of Marine Research* (2005).

Editor, *Journal of Physical Oceanography* (2005).

Reviewer or Panelist for Grant Applications

International Southern Ocean CLIVAR/CliC/SCAR (2008–2012).

Service to Professional Associations

Co-Chair, International CLIVAR Southern Ocean Panel (2008–2012).

Presenter, International Southern Ocean CLIVAR/CliC/SCAR Panel (2005).

Member, US CLIVAR Southern Ocean Working Group (2002–2005).

Presenter, Boulder, CO, CLIVAR Global Ocean Synthesis Panel (2004).

Presenter, June 2004, September 2003, Ocean Observations Panel for Climate (2003–2004).

Member, US RIDGE Steering Group (1998–2002).

Member, WOCE International Scientific Steering Group (1998–2002).

Member, WOCE Synthesis and Modeling Group (1996–1997).

Chairman, WOCE International Float Implementation Panel (1994).

Member, Woods Hole, MA, WOCE Hydrographic Program Planning Committee (1993).

Participant, Woods Hole, MA, Ridge Initiative Mapping and Sampling Workshop (1988).