

Curriculum Vitae

1. Donald W. Forsyth
Professor
Department of Geological Sciences
Brown University

2. Address - Box 1846

3. Education

B.A. Grinnell College, 1969, Physics Phi Beta Kappa
Ph.D Massachusetts Institute of Technology and
Woods Hole Oceanographic Institution, 1974, Marine Geophysics
Dissertation: Anisotropy and the structural evolution of the
oceanic upper mantle

4. Professional Appointments

1969-1973 Research Assistant, Massachusetts Institute
of Technology, Cambridge, MA
1969-1970 Summer fellow, Woods Hole Oceanographic Institution, Woods Hole,
MA
1974 Research Scientist, Lamont-Doherty Geological
Observatory, Palisades, NY
1975-1976 Research Associate, Lamont-Doherty Geological
Observatory, Palisades, NY
1977-1981 Assistant Professor, Brown University, Providence, RI
1981-1988 Associate Professor, Brown University, Providence, RI
1988- Professor, Brown University, Providence, RI
1993-1999 Chair, Department of Geological Sciences, Brown University
1995- James L. Manning Professor

5. Publications

2014 Takeo, A., D.W. Forsyth, D.S. Weeraratne, and K.Nishida, Estimation of azimuthal anisotropy in the NW Pacific from seismic ambient noise in seafloor records, *Geophys. J. Int.*, 199, 11-22, doi: 10.1093/gji/ggu240.

2014 Shintaku, N., D.W. Forsyth, C.J. Rau, and D.S. Weeraratne, Pn anisotropy in Mesozoic western Pacific lithosphere, *J. Geophys. Res., Solid Earth*, 119, 3050–3063, doi:10.1002/2013JB010534.

2014 Booth, C.M., D.W. Forsyth, and D.S. Weeraratne, Upper mantle Q structure beneath old seafloor in the western Pacific, *J. Geophys. Res., Solid*

Earth, 119, 3448–3461, doi: 10.1002/2013JB010589.

2014 Ruan, Y., D.W. Forsyth, and S.W. Bell, Marine sediment shear velocity structure from the ratio of displacement to pressure of Rayleigh waves at the seafloor, *J. Geophys. Res.*, 119, 6357–6371, doi:10.1002/2014JB011162.

2014 Toomey, D.R., R.M. Allen, A.H. Barclay, S.W. Bell, P.D. Bromirski, R.L. Carlson, X. Chen, J.A. Collins, R.P. Dziak, B. Evers, D.W. Forsyth, P. Gerstoft, E.E.E. Hooft, D. Livelybrooks, J.A. Lodewyk, D.S. Luther, F.J. McGuire, S.Y. Schwartz, M. Tolstoy, A.M. Trehu, M. Weirathmueller, and W.S.D. Wilcock, The Cascadia Initiative: A sea change in studies of subduction zones, *Oceanography Magazine*, 27, 138-150.

2015 Bell, S.W., D.W. Forsyth, and Y. Ruan, Removing noise from the vertical component records of ocean bottom seismometers: Results from Year One of the Cascadia Initiative, *Bull. Seism. Soc. Amer.*, 105, doi:1785/0120140054.

2015 MacDougall, J., K.M. Fischer, and D.W. Forsyth, Uppermost mantle velocities beneath the southern Appalachians from Pn phases, *Geophys. Res. Lett.*, published online, doi: 10.1002/2014GL062714.

Invited lectures:

Workshop on Normal Oceanic Mantle, Tokyo, Japan	March, 2013
CIDER Workshop on Seismic Attenuation, L-DEO, NY	May, 2013
California Institute of Technology, Pasadena, CA	October, 2013
Ocean Bottom Seismology Workshop, Redondo Beach, CA	October, 2013
AGU Cascadia special session, Fall Meeting, San Francisco	Dec, 2013
AGU Pacific-NA special session, Fall Meeting, San Francisco	Dec., 2013

7. Service

To the University:

2013-2015 Departmental Representative BEARCORE
Brown squash D team captain

To the Profession:

2000 - 2014 Associate Editor, *Journal of Geophysical Research*
2009 – present Advisory Committee, NSF OBS Amphibious Array
2011- present Chair, IRIS Oversight Committee Ocean Bottom Seismometer Instrument Pool
2013-2014 NRC committee – Decadal Survey of Ocean Sciences
2012-2014 Selection committee Cody Award
2014 Selection committee – Vetlesen Prize
2014 External Review Committee – Earthquake Research Institute, Univ. Tokyo

8. Honors and Awards

Phi Beta Kappa 1969
Sloan Foundation Fellowship 1977-1979
Visiting Scholar, Woods Hole Oceanographic Inst. 1977, 1982
Fellow, American Geophysical Union 1982
Macelwane Award, AGU 1982
Guggenheim Fellowship 1988-89
AGU Francis Birch Lecturer 1997
Green Scholar, IGPP 1999-2000
Special Creativity Extension, NSF 2000
George Woollard Award, Geological Society of America 2000
A.G. Huntsman Award for Excellence in Marine Sciences, 2002
Arthur L. Day Medal, Geological Society of America 2005
National Academy of Sciences 2006
American Academy of Arts and Sciences 2010

Active Research grants at Brown:

		Acad Y.	Summer Months	
NSF EarthScope EAR 0844276 PI Fischer/Forsyth	Understanding lithospheric suturing and passive margin development beneath the southeastern U.S.	0	0	5 years \$477,925
NSF OCE 1332876 PI Forsyth	Structure and dynamics of the lithosphere-asthenosphere system beneath the Juan de Fuca plate	0	0.5	100,000 8/01/13-7/31/14
		0	0.5	100,000 8/01/14-7/31/15
NSF EAR 1345143 PI Fischer/Forsyth	Understanding cratons and their margins: Insights from body and surface waves	0	0.5	115,000 1/01/14-12/31/14
		0	0.5	116,000 1/01/15-12/31/15
NSF EAR 1361487 Multiple Brown PIs	Layering within cratonic lithosphere: Integrated constraints from xenoliths, seismic structure and geodynamical modeling			

9. Teaching

Spring, 2014 Geo 1560 Global Tectonics (with Hirth) (11)
Fall, 2014 Sabbatical leave

M.S. theses supervised
 Sam Bell (2014)

Current Graduate Students: Sam Bell

10. Last updated: January, 2015.