NAME **Jacqueline Eaby Dixon, Ph.D.**
Professor and Former Dean

OFFICE ADDRESS
College of Marine Science
University of South Florida
140 Seventh Ave. South
St. Petersburg, FL 33701
Phone: 727-553-3369
Fax: 727-553-3968
Email: jdixon@usf.edu

HOME ADDRESS
2626 Keystone Ct. N.
St. Petersburg, FL 33710
Phone (cell): 786-473-3476
Email: dixonjcq@live.com

EDUCATION

1992 Ph.D. Geochemistry, California Institute of Technology
Dissertation: "Water and Carbon Dioxide in Basaltic Magmas"
Advisors: Edward Stolper (Caltech) and John Holloway (ASU)

1983 M.S. Geology, Stanford University
Thesis: "Sr Isotopic Variations Along the Juan de Fuca Ridge"
Advisors: Gail Mahood (Stanford) and David Clague (USGS)

1981 B.Sc. Geology, Stanford University

ADMINISTRATIVE EXPERIENCE

University of South Florida
January 2011 – June 2020: *Dean*, College of Marine Science

- Oversight of 26 full time faculty, 34 research associates, 31 technical associates, 20 staff, ~100 graduate students
- Annual budget of ~$21M including ~$14M in sponsored research funding
- Played leading role in submission of interdisciplinary consortium proposal to Gulf of Mexico Research Initiative. USF/CMS was awarded $11M over 3 years in 2011, $20.2M over 3 years in 2014, and $5M over three years in 2017 for research on long-term impact of Deepwater Horizon oil disaster
- Developed and implemented 2016-2021 College of Marine Science Strategic Plan

University of Miami
July 2009 - June 2010: *Interim Dean*, College of Arts & Sciences

- Oversight of 21 academic departments, 9 interdisciplinary programs, Lowe Art Museum, Center for Latin American Studies, and the Center for the Humanities
- Approximately 500 faculty, 260 teaching assistants, 225 staff, 4,000 undergraduates, and 600 graduate students
- Annual budget of ~$90 million
- Oversaw submission of proposals to NIH & NSF American Recovery and Reinvestment Act for construction, renovation, and major instrumentation in life and physical sciences

- Successfully obtained $15M NIH award to construct Neuroscience and Health Annex

June 2006 – June 2010: *Senior Associate Dean for Life and Physical Sciences,* College of Arts & Sciences

- Oversight of 6 academic departments & 3 interdisciplinary programs
- Approximately 85 faculty, 100 teaching assistants, 33 staff, 1500 undergraduate majors, and 140 graduate students
- Annual budget of ~$20.9 million, $3.4 million in sponsored research funding
- Played leading role in creation and implementation of honors program for undergraduates interested in research-related careers in health science (Program for Integration of Science and Mathematics – PRISM)

June 2003 – June 2008: *Director of the Undergraduate Program in Ecosystem Science and Policy*

- Played leading role in creation and implementation of undergraduate majors (B.S. and B.A.) in Ecosystem Science and Policy

HONORS & AWARDS

2016 Tuve Fellow, Department of Terrestrial Magnetism, Carnegie Institution of Washington
2016 Fellow of the American Association for the Advancement of Science (AAAS)
2013 USF Alliance for the Advancement of Florida's Academic Women in Chemistry and Engineering Honors
2007 Top-50 most cited article (Dixon et al., 2004) published in Earth & Planetary Science Letters 2004-2007
1998 Phi Kappa Phi, Faculty inductee
1997 NSF Early Career Development Award

ACADEMIC APPOINTMENTS

University of South Florida
Jan. 2011 - present: *Professor*, College of Marine Science

University of Miami
July 2008 - Dec. 2010: *Professor*, Department of Geological Sciences, College of Arts and Sciences
Nov. 1998 - June 2008: *Joint Appointment,* Department of Geological Sciences, College of Arts and Sciences and Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences
June 2003 - June 2008: *Professor*, Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences
June 1998 - May 2003: *Associate Professor*, Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences
Sept. 1992 - May 1998: *Assistant Professor*, Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences

California Institute of Technology
Feb. 1992 - Aug. 1992: *Staff Scientist*, Division of Geological and Planetary Science
Sept. 1985 - Feb. 1992: *Graduate Research Assistant*, Division of Geological and Planetary Sciences

University of California, San Diego
Sept. 1984 - June 1985: *Graduate Research Assistant*, Scripps Institution of Oceanography

NON-ACADEMIC APPOINTMENTS

U.S. Geological Survey
Sept. 1981 - Aug. 1984: *Physical Science Technician and Scientific Navigator*

RESEARCH INTERESTS

My research focuses on Earth's deep carbon dioxide and water cycles and the role of volatiles in magmatic processes. I specialize in Fourier Transform Infrared Spectroscopic analysis of silicate glasses formed during eruption of submarine volcanoes or trapped in crystals. My research utilizes experimental systems, as well as natural samples from mid-ocean ridges and oceanic islands, including Hawaii, the Galapagos, and Iceland.

PUBLICATIONS

Juried or Refereed Journal Articles

(38 articles, 5803 citations (1453 since 2016), h-index 32 (20 since 2016), citations as of 1/14/21 using Google Scholar)

38. **Dixon, J. E.**, I. N. Bindeman, R. H. Kingsley, K. K. Simons, P. J. le Roux, T. R. Hajewski, P. Swart, C. H. Langmuir, J. G. Ryan, K. J. Walowski, I. Wada, and P. J. Wallace (2017) Light Stable Isotopic Compositions of Enriched Mantle Sources: Resolving the Dehydration Paradox. *Geochemistry, Geophysics, Geosystems 18 (11), 3801-3839*, doi: 10.1002/2016GC006743. (*32 citations*)
37. Witham, F., Blundy, J. D., Kohn, S. C., Lesne, P., **Dixon, J. E.,** Churakov, S., and Botcharnikov, R. (2012) SolEx: A model for mixed COHSCl-fluid solubilities and exsolved gas compositions in basalt. *Computers & Geosciences* 45, 87-97. *(95 citations)*
36. **Dixon, J. E.** (2012) Working towards a sustainable global ocean: Research highlights at the College of Marine Science, University of South Florida. *Global Scientia* 1, 12-15. *(0 citations)*
35. Muller-Karger, F., Fanning, K., Hine, A., Hogarth, W., and **Dixon, J.** (2010) The College of Marine Science at the University of South Florida, *Gulf of Mexico Science* 2010 (1-2), 164-172. (*2 citation*)
34. **Dixon, J. E.**, Clague, D. A., Cousens, B., Monsalve, M. L., and Uhl, J. (2008) Carbonatite and silicate melt metasomatism of the mantle surrounding the Hawaiian plume: Evidence from volatiles, trace elements, and radiogenic isotopes in rejuvenated-stage lavas from Niihau, Hawaii. *Geochemistry, Geophysics, Geosystems* 9 (9), Q09005, doi:10.1029/2008GC002076. (*93 citations*)
33. Dasgupta, R., and **Dixon, J. E.** (2009) Volatiles and volatile-bearing melts in the Earth's interior. *Chemical Geology* 262 (1-2), 1-3. *(5 citations)*
32. Atlas, Z., **Dixon, J. E.**, Sen, G., Finny, M., and Martin-Del Pozzo, A. L. (2006) Melt inclusions from Volcán Popocatépetl and Volcán de Colima, Mexico: Melt evolution due to vapor-saturated crystallization during ascent. *Journal of Volcanology and Geothermal Research* 153 (3-4), 221-240. (*62 citations*)
31. Rüpke, L., Morgan, J. P., and **Dixon, J. E.** (2006) Implications of subduction rehydration for the Earth's deep water cycle, In Earth's Deep Water Cycle. S. D. Jacobsen and S. van der Lee, editors, *American Geophysical Union Geophysical Monograph Series* 168, 263-276. (*34 citations*)
30. Hauri, E. H., Shaw, A. M., Wang, J., **Dixon, J. E.**, King, P. L., and Mandeville, C. (2006) Matrix effects in hydrogen isotope analysis of silicate glasses by SIMS. *Chemical Geology* 235, 352-365. (*58 citations*)
29. Asimow, P., **Dixon, J. E.**, and Langmuir, C. (2004) A hydrous melting and

fractionation model for mid-ocean ridge basalts: Application to the Mid-Atlantic Ridge near the Azores. *Geochemistry, Geophysics, Geosystems* 5 (1), Q01E16, doi: 10.1029/2003GC000568. (*318 citations*)

28. Cushman B., Sinton, J., Ito, G., and **Dixon, J. E.** (2004) Glass compositions, plume-ridge interaction, and hydrous melting along the Galápagos Spreading Center, 90.5°W to 98°W. *Geochemistry, Geophysics, Geosystems* 5 (8), Q08E17, doi:10.1029/2004GC000709. (*98 citations*)
27. **Dixon, J. E.**, Dixon, T. H., Bell, D. R., and Malservisi, R. (2004) Lateral variation in mantle viscosity: Role of water. *Earth and Planetary Science Letters* 222 (2), 451-467. (*294 citations*)
26. Clague, D. A., Davis, A. S., and **Dixon, J. E.** (2003) Submarine strombolian eruptions on the Gorda mid-ocean ridge, In Explosive Subaqueous Volcanism. J. D. L. White, J. L. Smellie, and D. A. Clague (eds.), *American Geophysical Union Monograph* 140, 111-128. (*59 citations*)
25. **Dixon, J. E.**, Leist, L., Langmuir, C., and Schilling, J.-G. (2002) Recycled dehydrated lithosphere observed in plume-influenced mid-ocean ridge basalt. *Nature* 420 (6914), 385-389. (*452 citations*)
24. Detrick, R. S., Sinton, J. M., Ito, G., Canales, J. P., Behn, M., Blacic, T., Cushman, B., **Dixon, J. E.**, Graham, D. W., and Mahoney, J. J. (2002) Correlated geophysical, geochemical and volcanological manifestations of plume-ridge interaction along the Galápagos Spreading Center. *Geochemistry, Geophysics, Geosystems* 3 (7), 1-14, doi 10.1029/2002GC000350. (*123 citations*)
23. Hauri, E., Wang, J., **Dixon, J. E.**, King, P. L., Mandeville, C., and Newman, S. (2002) SIMS analysis of volatiles in silicate glasses 1. Calibration, matrix effects and comparisons to FTIR. *Chemical Geology* 183 (1-4), 99-114. (*307 citations*)
22. Kingsley, R. H., Schilling, J-G., **Dixon, J. E.**, Swart, P., Poreda, R., and Simons, K. (2002) D/H ratios in basalt glasses from the Salas y Gomez mantle plume interacting with the East Pacific Rise: Water from old D-rich recycled crust or primordial water from the lower mantle? *Geochemistry, Geophysics, Geosystems* 3 (4), doi:10.1029/2001GC000199. (*44 citations*)
21. Simons, K., **Dixon, J. E.**, Schilling J-G., Kingsley, R., and Poreda, R. (2002) Volatiles in basaltic glasses from the Easter-Salas y Gomez Seamount Chain and Easter Microplate: Implications for geochemical cycling of volatile elements. *Geochemistry, Geophysics, Geosystems* 3 (7), doi:10.1029/ 2001GC000173. (*144 citations*)
20. **Dixon, J. E.**, Filiberto, J. R., Moore, J. G., Hickson, C. J. (2002) Volatiles in basaltic glasses from a subglacial volcano in Northern British Columbia: Implications for mantle volatiles and ice sheet thickness. In Volcano-Ice Interaction on Earth and Mars, J. L. Smellie and M. G. Chapman, eds., *Geological Society of London Special Publication* 202 (1), 255-271. (*35 citations*)
19. **Dixon, J. E.**, and Clague, D. A. (2001) Volatiles in basaltic glasses from Loihi Seamount, Hawaii: Evidence for a relatively dry plume component. *Journal of Petrology* 42 (3), 627-654. (*303 citations*)
18. Newman, A. V., Dixon, T. H., Ofoegbu, G., and **Dixon, J. E.** (2001) Geodetic and seismic constraints on recent activity at Long Valley Caldera, California: Evidence for viscoelastic rheology. *Journal of Volcanology and Geothermal Research* 105 (3), 183-206. (*145 citations*)
17. Clague, D. A., Davis, A., Bischoff, J., **Dixon, J. E.**, and Geyer, R. (2000) Lava bubble-wall fragments formed by submarine hydrovolcanic explosions on Loihi Seamount and Kilauea Volcano. *Bulletin of Volcanology* 61 (7), 437-449. (*94 citations*)
16. Clague, D. A., and **Dixon, J. E.** (2000) Extrinsic controls on the evolution of Hawaiian ocean island volcanoes. *Geochemistry, Geophysics, Geosystems* 1 (4), 1010, doi:10.1029/1999GC000023. (*59 citations*)

15. **Dixon, J. E.**, Simons, K., Leist, L., Eck, C., Ricisak, J., Gifford, J., and Ryan, J. (2000) Provenance of stone celts from the Miami Circle Archeological Site, Miami, Florida. *Florida Anthropologist* 53, 328-341. (*2 citations*)
14. **Dixon, J. E.** (1997) Degassing of alkalic basalts. *American Mineralogist* 82 (3-4), 368-378. (*273 citations*)
13. **Dixon, J. E.**, Clague, D. A., Wallace, P., and Poreda, R. (1997) Volatiles in alkalic basalts from the North Arch volcanic field, Hawaii: extensive degassing of deep submarine-erupted alkalic series lavas. *Journal of Petrology* 38 (7), 911-939. (*264 citations*)
12. **Dixon, J. E.**, Stolper, E. M., and Holloway, J. R. (1995) An experimental study of water and carbon dioxide solubilities in mid-ocean ridge basaltic liquids. Part I: Calibration and solubility models. *Journal of Petrology* 36 (6), 1607-1631. (*662 citations*)
11. **Dixon, J. E.**, and Stolper, E. M. (1995) An experimental study of water and carbon dioxide solubilities in mid-ocean ridge basaltic liquids. Part II: Degassing of basaltic liquids. *Journal of Petrology* 36 (6), 1633-1646. (*328 citations*)
10. **Dixon, J. E.**, and Pan, V. (1995) Determination of the molar absorptivity of dissolved carbonate in basanitic glass. *American Mineralogist* 80 (11-12), 1339-1442. (*122 citations)*
9. Clague, D. A., Moore, J. G., **Dixon, J. E.**, and Friesen, W. B. (1995) Petrology of submarine lavas from Kilauea's Puna Ridge, Hawaii. *Journal of Petrology* 36 (2), 299-349. (*244 citations*)
8. Holloway, J. R., **Dixon, J. E.**, and Pawley, A. R. (1992) An internally-heated, rapid-quench vessel. *American Mineralogist* 77 (5-6), 643-646. (*41 citations*)
7. Clague, D. A., Weber, W. S., and **Dixon, J. E.** (1991) Picritic glasses from Hawaii. *Nature* 353 (6344), 553-555. (*149 citations*)
6. **Dixon, J. E.**, Clague, D. A., and Stolper, E. (1991) Degassing history of water, sulfur, and carbon in submarine lavas from Kilauea Volcano, Hawaii. *Journal of Geology* 99 (3), 371-394. (*246 citations*)
5. **Dixon, J. E.**, and Dixon, T. H. (1989) Vesicles, amygdales and similar structures in fault generated pseudotachylites – Comment. *Lithos* 23 (3), 225-229. (*15 citations*)
4. **Dixon, J. E.**, Stolper, E., and Delaney, J. R. (1988) Infrared spectroscopic measurements of H_2O and CO_2 contents in Juan de Fuca Ridge basaltic glasses. *Earth and Planetary Science Letters* 90, 87-104. (*421 citations*)
3. **Dixon, J. E.**, Clague, D. A., and Eissen, J.-P. (1986) Gabbroic xenoliths and host ferrobasalt from the southern Juan de Fuca Ridge. *Journal of Geophysical Research: Solid Earth* 91, 3795-3820. (*76 citations*)
2. Clague, D. A., Frankel, C. S., and **Eaby, J. S.** (1985) The age and origin of felsic intrusions of the Thetford Mines Ophiolite, Quebec. *Canadian Journal of Earth Sciences* 22, 1257-1261. (*15 citations*)
1. **Eaby, J. S.**, Clague, D. A., and Delaney, J. R. (1984) Sr isotopic variations along the Juan de Fuca Ridge. *Journal of Geophysical Research: Solid Earth* 89, 7883-7890. (*76 citations*)

Abstracts

53. **Dixon, J. E.** (2019) Extended subduction factory model for generation of mantle heterogeneity. Goldschmidt Conference Abstracts 2019, **Invited keynote** Session 03m on Subduction Zones and Associated Fluid and Mass-transfer Processes, 821.
52. **Dixon, J. E.** (2018) An extended subduction factory model for generation of mantle heterogeneity. Goldschmidt Conference Abstracts 2018, Session 02b, 585.

51. **Dixon, J. E.,** Bindeman, I., Kingsley, R. (2017) Hydrogen isotopic compositions of enriched mantle sources: Resolving the dehydration paradox. AGU Fall Meeting 2017, Abstract DI53A-07.
50. **Dixon, J. E.,** Bindeman, I., Kingsley, R. (2017) Hydrogen isotopic compositions of enriched mantle sources: Resolving the dehydration paradox. GSA Fall Meeting, Abstract 208-8.
49. **Dixon, J. E.,** Bindeman, I., Kingsley, R. (2017) Hydrogen isotopic compositions of enriched mantle sources: Resolving the dehydration paradox. Goldschmidt Conference 2017, Session 05g.
48. Bindeman, I., **Dixon J.,** Langmuir C., Palandri, J. (2015) D/H and water concentrations of submarine MORB glass around the world: analytical aspects, standardization, and (re)defining mantle D/H ranges. AGU Fall Meeting 2015, Abstract DI31A-2572.
47. **Dixon, J. E.,** Simons, K., Kingsley, R., le Rous, P., and Ryan, J. (2012) Progressive dehydration and re-equilibration of slab lithologies during subduction: Mechanism for recycling of heavy, hydrothermally-altered crust and mantle derived stable isotopic signatures into the deep mantle. AGU Fall Meeting 2012, Abstract V52A-07.
46. **Dixon, J.,** Clague, D., and Cousens, B. (2009) Carbonatite and Silicate Melt Metasomatism of Depleted Mantle Surrounding the Hawaiian Plume: Origin of Rejuvenated-Stage Lavas. 19th Annual Goldschmidt Conference, Davos, Switzerland, Abstract 2752.
45. Atlas, Z., and **Dixon, J.** (2008) Multi-stage degassing at Masaya Volcano, Nicaragua. GSA Abstracts with Programs 41, Southeastern Section, Abstract 154829.
44. **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L. (2008) Volatiles and trace elements in rejuvenated-stage lavas from Niihau, Hawaii: Evidence for carbonatite metasomatism. 18th Annual Goldschmidt Conference, Vancouver, BC, Canada, Abstract A220.
43. **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L. (2007) Volatiles and trace elements in rejuvenated-stage lavas from Niihau, Hawaii: Evidence for silicate melt and carbonatite metasomatism of the mantle surrounding the Hawaiian Plume. EOS Trans. AGU 88, Fall Meet. Suppl., Abstract DI43A-02.
42. Rau, C., Monsalve, M.L., **Dixon, J.**, Kingsley, R., and Schilling, J.-G. (2007) Water in Arctic mid-ocean ridge basalts: Evidence for a wet recycled crustal component in the Jan Mayen Plume. EOS Trans. AGU 88, Fall Meet. Suppl., Abstract V33B-1388.
41. Ferreira, P., Murton, B., **Dixon, J.**, and Boulter, C. (2007) Melt supply and magmatic evolution at a large central MOR volcano located in the Lucky Strike segment. 17th Annual Goldschmidt Conf., Cologne, Germany, Abstract A275.
40. **Dixon, J. E.** (2006) Water in the mantle sources of oceanic basalts. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V54A-04.
39. Kingsley, R. H., **Dixon, J. E.**, Swart, P., Eiler, J., and Schilling, J.-G. (2006) Hydrogen and oxygen stable isotope ratios in MORBs from Arctic Mid-Atlantic Ridge segments near the Jan Mayen hotspot. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V23A-0598.
38. Rüpke, L. H., Phipps Morgan, J., and **Dixon, J.** (2006) Implications of subduction rehydration for Earth's deep water cycle. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V54A-01.
37. Atlas, Z. D., and **Dixon, J. E.** (2006) Interconnected magmatic conduit systems as recorded by melt inclusions from Masaya and Apoyo Calderas, Nicaragua. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V13D-06.
36. **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L. (2005) Volatiles in Hawaiian,

submarine rejuvenated-stage lavas: Evidence for metasomatism by silicate and carbonatitic melts of the mantle surrounding the Hawaiian plume. EOS Trans. AGU 86, Fall Meet. Suppl., Abstract V51A-1469.

35. **Dixon, J.** (2005) Deep earth water cycle: Efficient dehydration of subducted lithosphere. EOS Trans. AGU 86, Fall Meet. Suppl., Abstract V52A-05.
34. LeRoux, P. J., **Dixon, J. E.**, Shirey, S. B., and Hauri, E. H. (2005) Boron isotope compositions of South Atlantic MORB and mantle sources. Goldschmidt Conference Abstracts, A94.
33. **Dixon, J.** (2004) Water in mantle-derived melts: Constraints on the mantle water cycle. EOS Trans. AGU 85, 947, Fall Meet. Suppl., Abtract T31F-08.
32. Dixon, T. H., **Dixon, J. E.**, Malservisi, R., Bell, D. R. (2004) Lateral variation in upper mantle viscosity: Role of water. EOS Trans. AGU 85, Joint Assembly Suppl., Abstract U54A-03, JA20.
31. Monsalve, M., Cousens, B., **Dixon, J.**, Clague, D. (2004) Volatiles in basaltic glasses from Ni'ihau and Kauai, Hawai'i. EOS Trans. AGU 85, West. Pac. Geophys. Meet. Suppl., Abtract V41A-41.
30. Clague, D. A., Cousens, B. L., Davis, A. S., **Dixon, J. E.**, Hon, K., and Moore, J. G. (2003) Submarine rejuvenated-stage lavas offshore Molokai, Oahu, Kauai, and Niihau, Hawaii. EOS Trans. AGU 84, Fall Meeting Suppl., Abstract V11B-01, F1468.
29. **Dixon, J. E.**, Dixon, T. H., Malservisi, R., and Bell, D. (2003) Lateral variation in upper mantle viscosity: role of water. EOS Trans. AGU 84, Fall Meeting Suppl., Abstract T31B-07, F1381.
28. **Dixon, J. E.** (2003) Temporal evolution of water in the mantle. EGS-AGU-EUG Joint Assembly, Nice, France, 5, EAE03-A-04395.
    Dixon, J. E., Temporal evolution of water in the mantle. Geochemical Earth Reference Model (GERM) Workshop, Lyon, France, May 20-23.
27. **Dixon, J. E.** (2002) Wet versus damp plumes: Evidence for efficient dehydration of recycled crust and sediments. EOS Trans. AGU 83, Spring Meeting Suppl., S383.
26. Detrick, R. S., Sinton, J. M., Ito, G., Canales, J. P., Behn, M., Blacic, T., Cushman, B., **Dixon, J. E.**, Graham, D. W., and Mahoney, J. J. (2002) Plume-ridge interaction along the Galápagos Spreading Center. EOS Trans. AGU 83, Spring Meeting Suppl., S345.
25. **Dixon, J. E.** (2001) Volatiles in mantle plumes. In Eleventh Annual V. M. Goldschmidt Conference, Abstract # 3409. LPI Contribution No. 1088, Lunar and Planetary Institute, Houston. (Invited keynote speaker for session)
24. Leist, L., **Dixon, J.**, and Schilling, J-G. (2001) Water concentrations in enriched mantle components in the South Atlantic: Evidence for efficient dehydration of recycled crust and sediments. EOS Trans. AGU 82, Fall Meeting Suppl., F1285.
23. **Dixon, J. E.**, and Langmuir, C. (2001) Water concentrations in enriched mantle components in the north Atlantic: Evidence for efficient dehydration of recycled crust and sediments. EOS Trans. AGU 82, Fall Meeting Suppl., F1401.
22. Simons, K., **Dixon, J. E.**, Schilling J-G., Kingsley, R., and Poreda, R. (2001) Volatiles in basaltic glasses from the Easter-Salas y Gomez Seamount Chain and Easter Microplate: Implications for geochemical cycling of volatile elements. EOS Trans. AGU 82, Fall Meeting Suppl., F1373.
21. Sinton, J., Detrick, R. S., Canales, J. P., Ito, G., Behn, M., Blacic, T., Cushman, B., and **Dixon, J. E.** (2001) Correlated geophysical, geochemical, and volcanological manifestations of plume-ridge interaction along the Galápagos Spreading Center, 90.5-98° W. EOS Trans. AGU 82, Fall Meeting Suppl., F1204.
20. Cushman, B. J., **Dixon, J. E.**, Graham, D., and Sinton, J. M. (2001) Plume-affected geochemical trends in along-axis samples from the Galapagos Spreading Center, 90°30'W to 98°W. EOS Trans. AGU 82, Fall Meeting Suppl., F1213.

19. Reynolds, J. R., Clague, D. A., Hon, K., **Dixon, J. E.**, and Cousens, B. (2001) Observations on the origin of submarine volcanic cone morphologies in Hawaii. EOS Trans. AGU 82, Fall Meeting Suppl., F1281.
18. **Dixon, J. E.**, Filiberto, J., Moore, J. M., and Hickson, C. J. (2000) Volatiles in basaltic glasses from a subglacial volcano in northern British Columbia: Implications for mantle volatiles and ice sheet thickness. Volcano/Ice Interaction on Earth and Mars Conference, University of Iceland, Reykjavík, Iceland, p. 11.
17. Simons, K. K., **Dixon, J. E.**, Devey, C. W. (1999) Volatile contents of basaltic glasses from the Foundation Seamount Chain. EOS Trans. AGU 80, Fall Meeting Suppl., F1091.
16. **Dixon, J. E.**, and Clague, D. A. (1999) Volatiles in basaltic glasses from Hawaiian submarine lavas: Evidence for a relatively dry plume component. EOS Trans. AGU 80, Fall Meeting Suppl., F1198.
15. Simons, K. K., **Dixon, J. E.**, and Reynolds, J. R. (1998) Volatile contents of Austral Island glasses. IAVCEI meeting, Cape Town, South Africa.
14. **Dixon, J. E.**, Engel, H., Moore, J. M., and Hickson, C. J. (1998) Volatiles in basaltic glasses from a subglacial volcano in northern British Columbia: Implications for mantle volatiles and ice sheet thickness. IAVCEI meeting, Cape Town, South Africa.
13. **Dixon, J. E.**, and Clague, D. A. (1998) Volatiles in basaltic glasses from Loihi Seamount, Hawaii: Evidence for a relatively dry plume component. EOS Trans. AGU 79, Fall Meeting Suppl., F939.
12. Batiza, R., Coleman, T., White, J. D. L., Pan, Y., and **Dixon, J. E.** (1998) Deep sea hyaloclastites: Evidence for high flow velocity. EOS Trans. AGU 79, Fall Meeting Suppl., F956.
11. **Dixon, J. E.**, and Clague, D. A. (1997) Evolving volcanoes and degassing styles in Hawaii. Geol. Soc. Am. Annual Meeting A-191.
10. **Dixon, J. E.**, Kingsley, R., Schilling, J. -G., and Poreda, R. (1997) Water and CO_2 concentrations in basaltic glasses from the Easter Microplate-Easter-Sala y Gomez Seamount Chain: Implications for water in mantle reservoirs. EOS Trans. AGU 78, Fall Meeting Suppl., F688.
9. Clague, D. A., Davis, A. S., and **Dixon, J. E.** (1997) Formation of bubble-wall fragments during submarine eruptions on Loihi Seamount and Kilauea Volcano. EOS Trans. AGU 78, Fall Meeting Suppl., F792.
8. Poreda, R. J., Kingsley, R., Schilling, J. -G., **Dixon, J. E.**, and Swart, P. (1997) Plume-Ridge Interactions along the Easter Seamount Chain (ESC): Mixing and degassing of volatiles. EOS Trans. AGU 78, Fall Meeting Suppl., F688.
7. **Dixon, J. E.**, Langmuir, C., and Horan, S. (1996) Water and carbon dioxide in MAR glasses (22 – 41° N): Implications for the role of water in the generation of MORB. Abstract for the InterRidge Mid-Atlantic Ridge Symposium, Reykjavik, Iceland, Journal of Conf. Abstracts 1, 749-888.
   Dixon, J. E., Deep degassing of water from alkalic basalts. Meeting of the Mineralogical Society and Volcanic Studies Group of Great Britain, "Magmatic Processes 1996: Are the Answers in the Laboratory?" 2.
6. C. J. Hickson, Moore, J. G., and **Dixon, J. E.** (1995) Subglacial volcanoes of northern British Columbia, Canada. EOS Trans. AGU 76, Fall Meeting Suppl., F199.
5. **Dixon, J. E.**, and Clague, D. A. (1994) Volatiles in alkali basalts from the North Arch volcanic field, Hawaii: Degassing or mantle metasomatism. EOS Trans. AGU 75, Fall Meeting Suppl., 718.
4. Clague, D. A., and **Dixon, J. E.** (1993) Volatiles in Hawaiian magmas. International Workshop on Interplate Volcanism. Polynesian Plume Province, Papeete/Tahiti.
3. **Dixon, J. E.**, Stolper, E., and Holloway, J. R. (1992) Solubilities of water and carbon dioxide in basaltic magmas. EOS Trans. AGU 73, Spring Meeting Suppl., 348.

2. **Dixon, J. E.**, Stolper, E. M., and Holloway, J. R. (1991) Solubilities of water and carbon dioxide in basaltic magmas. GSA Fall Meeting 23, A93.
   Clague, D. A., and **Dixon, J. E.**, Volatiles in submarine nephelinitic to basanitic glasses from the North Arch volcanic field. EOS Trans. AGU 72, Winter Meeting Suppl., 563.
1. **Dixon, J. E.**, and Burnett, D. S. (1987) U volatization as a mechanism for ^{238}U - ^{230}Th disequilibrium in young volcanic rocks. IUGG XIX General Assembly, 406.

INVITED TALKS

2019 Keynote lecture at Goldschmidt Conference, Barcelona in "Subduction Zones and Associated Fluid and Mass-Transfer Processes" session 03m.
2016 Tuve Lecture, Department of Terrestrial Magnetism, Carnegie Institution of Washington
2009 ETH, Switzerland, Marie Curie Research Training Network *Crust to Core – The Fate of Subducted Material* Workshop – "The Deep Carbon Cycle"
2008 Brown University
2008 Cardiff University
2008 FIU
2006 Stanford University
2005 Fall AGU
2003 Caltech
2002 Spring AGU, Frontier talk
2001 Eleventh Annual Goldschmidt Conference
2001 Pennsylvania State University
2001 Arizona State University
2000 University of South Carolina
1999 McGill University
1998 University of South Florida
1998 USGS/Cascade Volcano Observatory
1998 Florida State University
1997 Carnegie Institute of Washington
1997 Miami Geological Society
1996 Yale University
1996 University of Rhode Island, Association of Women Geoscientists, Distinguished Lecturer
1994 & 1996 Lamont Doherty Earth Observatory
1994 University of Miami/RSMAS/Blue Planet Lecture
1994 University of Washington
1993 Duke University
1993 Harvard

RESEARCH AND INFRASTRUCTURE FUNDING

Administrative PI or Co-PI (>$49.7 M of funding over 9 years)

USF College of Marine Science/USGS Cooperative Agreement (~$17.5 M funding for facilities and graduate student support 2011-2020)

16. (2017) USGS 2500170900: Support of Facilities at the USF/USGS St. Petersburg Science Center, Dixon, J. (P.I.), $6,800,079 for 5 years (08/01/2017 – 07/31/2022). CMS/USGS Cooperative Agreement.

15. (2018) USGS 25001732: USGS Student Support for S. Shedler, Dixon, J. (P.I.), $78,038.18 for 2 years (05/01/2018 – 02/20/2020). USGS Student Support.

14. (2017) USGS 25001719: USGS Student Support for Rolf Vieten, Dixon, J. (P.I.), $7909.03 for 1 year (11/06/2017 – 04/30/2018. USGS Student Support.

13. (2015) USGS 25001632: USGS Student Support for Megan Ferguson, Dixon, J. (P.I.), $20,169.60 (03/26/2015 – 03/25/2017). USGS Student Support.

12. (2015) USGS 25001624: USGS Student Support for Shuangling Chen, Dixon, J. (P.I.), $38,945.00 for 1 year (01/02/2015 – 12/31/2015). USGS Student Support.

11. (2014) USGS 25001600: USGS Student Support for Stephanie N. Lawler, Dixon, J. (P.I.), $40,257.00 for 1 year (08/19/2014 – 08/18/2015). USGS Student Support.

10. (2014) USGS 2500158300: USGS Student Support for Cristian Haller, Dixon J. (P.I.), $50,757.43 for 2 years (08/01/2014 – 07/31/2016). USGS Student Support.

9. (2014) USGS 2500157800: USGS Student Support for Kaitlyn Lizza and Shuangling Chen, Dixon J. (P.I.), $80,838.00 for 1 year (01/02/2014 – 12/31/2014). USGS Student Support.

8. (2013) USGS 2500158400: USGS Student Support for Two (2) GIS Students, Dixon J. (P.I.), $54,636.76 for 2 years (10/01/2013 – 09/30/2015). USGS Student Support.

7. (2013) USGS 2500156300: USGS Student Support for Stephanie N. Lawler, Dixon J. (P.I.), $14,677.00 for 1 years (08/19/2013 – 08/18/2014). USGS Student Support.

6. (2013) USGS 2500153800: USGS Student Support for Dominika Wojcieszek, Dixon J. (P.I.), $7,238.11 for 1 years (02/18/2013 – 12/31/2013). USGS Student Support.

5. (2013) USGS 2500153500: USGS Student Support for Kaitlyn Lizza and Ashley Ringelsbaugh, Dixon J. (P.I.), $78,628.00 for 1 years (01/02/2013 – 12/31/2013). USGS Student Support.

4. (2012) USGS 2500151000: Support of Facilities at the USF/USGS St. Petersburg Science Center and Research Support for Seminar Series, Dixon, J. (P.I.), $6,898,860 for 5 years (08/01/2012 – 07.31/2017). CMS/USGS Cooperative Agreement.

3. (2011) USGS 2500150100: USGS Student Support at CMS, Dixon J. (P.I.), $39,301.89 for 1 years (12/01/2011 – 12/31/2012). USGS Student Support.

2. (2011) USGS 2500148600: USGS Student Support at CMS, Dixon J. (P.I.), $41,196.00 for 1 years (12/01/2011 – 11/30/2012). USGS Student Support.

1. (2009) USGS-25001352: Support of Research and Facilities at the USF/CMS/USGS Centre for Coastal and Watershed Studies, Dixon, J. (P.I.), $3,202,491 for 5 years (05/01/2009 – 07/31/2012). CMS/USGS Cooperative Agreement.

Construction / Renovation / Interdisciplinary Centers / Diversity / Education and Outreach Funding (~$49.7 M over 12 years)

6. (2012) **NOAA-NA12NMF4630051:** "Tampa Bay Coastal Watershed Inquiries, Stewardship and Education Provides Sustained Teacher Professional Development", Greely, T (P.I.), **Dixon, J. (Co-P.I.),** $100,000 for 1 year (7/1/12 – 11/30/14). Funding for teacher training through our Education and Outreach program.

5. (2011) **Gulf of Mexico Research Initiative-SA12-10/GoMRI-0:** "Center for Integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE), Murawski, S. (P.I.), Dixon, J. + many others (**Co-P.I.**s), $11,002,000 total for 5 years; Dixon portion ~$165K/yr (09/1/11 – 9/17/15). Originally the P.I., I was an active participant in interdisciplinary-team building and proposal writing. After funding, the P.I. role was assumed by S. Murawski.

4. (2011) **Florida SUS/Board of Governors/USF Scholar Boost Award-1001101243:** "CMS Interdisciplinary Research Grants (IRG), **Dixon, J. (P.I.),** $150,000 for 1 year (11/17/10 – 6/30/12). Start-up funding from the state used for interdisciplinary research seed grants to foster research ties between the College of Marine Science, other USF colleges, and local state and federal partners.

3. (2011) **NSF/OCE-0963392:** "Renovation of research laboratories in the College of Marine Science – MSL Building", **Dixon, J. (P.I. status assumed after becoming Dean**), $1,898,232 for 2 years (8/15/10 -- 7/31/13). I supervised completion of the project after joining USF.

2. (2009) **NIH ARRA grant:** "Construction of a Neuroscience Health Annex" Provost T. Leblanc, PI (application rules required University of Miami's chief financial officer to be PI), written by K. Tosney, L. Glaser, D. Wellens, P. McCabe, J. Dixon, $18,000,000 with $5,000,000 cost share from UM, 2009- 2013. I brought together a team of biologists, neuroscientists, and psychologists to create a new interdisciplinary center in response to stimulus funding opportunities. We designed the building and wrote the proposal on a tight schedule. The construction was completed on time and on budget.

1. (2008) **NSF ADVANCE:** "SEEDS at the University of Miami" (#0820128, K. Tosney, PI; I originally served on the SEEDS Steering Committee and then served as Co-PI from 2009 to 2010 after I became Interim Dean of A&S) $1,101,951 2008-2013. I was actively involved in implementation of SEEDS activities at the University of Miami.

Research PI or Co-PI (~$1.5 M over 14 yrs)

12. (2004) **NSF/OCE-0351149**: "Collaborative Research: Temporal evolution of mantle water: Quantifying the effects of recycling efficiently dehydrated lithosphere into the deep mantle", joint project with University of Rhode Island, UM portion $289,885 for 3 years (2/04 – 2/07, + two year no cost extentison), 1 month/year for J. Dixon.

11. (2000) **NASA:** Volcano plume monitoring using unmanned aerial vehicles, joint project with the Southwest Research Institute, UM PIs – Dixon, T., Dixon, J., and Milne, P., UM portion $257,553 for 3 years **(1/00 – 1/03),** avg 1 month /year for J. Dixon.

10. (2000) **NSF/OCE:** "A seismic and petrologic investigation of the effects of plume-ridge interaction along the Galapagos Spreading Center", joint project with University of

Hawaii and Woods Hole Institution of Oceanography, UM portion $51,850 for 3 years (1/15/00 – 1/14/03), 1 month/year for 3 years for J. Dixon.

9. (1999) Participant in **U.S. Dept. of Education** Grant "Project SUCCEED: School University Community Coalition for Excellence in Education"

8. (1997) **NSF/OCE-9702795:** "Early Career Award: Origin and Evolution of Volatiles in Submarine and Subglacial Alkalic Magmas", Dixon (P.I.), 5 yrs., $409,318 (April 15, 1997-2002 + 1 year no cost extension), 2 months/year for J. Dixon.

7. (1996) **NSF/EAR-9600029:** "Collaborative Research: Temporal and Spatial Variations of Magmatic Volatiles and Trace Elements in Glass Fragments and Phenocryst Inclusions in Pyroclastic Rocks....", Smith (P.I., University of Puerto Rico), Mattioli (Co-P.I., University of Puerto Rico), and Dixon (Co-P.I., University of Miami), 3 years, $88,900.

6. (1995) **NSF/OCE-9530373:** "Collaborative Research: Volatiles in Mantle Plumes: Implications for Geochemical Cycling of Volatile Elements", Dixon (P.I.), and Schilling (Co-P.I., Univ. of Rhode Island), 3 years, $190,491.

5. (1995) **University of Miami**, Instructional Advancement Grant - "Upgrade of Igneous Petrology Laboratory"; Dixon (P.I.), 1 year, $1015.

4. (1994) **NSF/OCE-9416692:** Acquisition of an infrared microscope; Dixon (P.I.), 1 year, $12,400.

3. (1994) **NSF/EAR-9417949:** Acquisition of an infrared microscope; Dixon (P.I.), 1 year, $12,400.

2. (1993) **NSF/OCE-9302574:** The Effect of Water on the Degree of Mantle Melting in the Petrogenesis of Midoceanic Ridge Basalt, **J. Dixon (P.I.)** and C. Langmuir (co-P.I., Lamont-Doherty), 3 years; $221,473.

1. (1993) **University of Miami**, General Research Support Award, Dixon (P.I.), 1 year, $5000.

TEACHING

Advanced Modeling in Igneous Petrology, USF GLY4930 & GLY6739**,** 3 lectures
Climate Change (Honor's College, USF IDH 3350)
Introduction to Ecosystem Science and Policy (UM ECS 111)
Volcanoes and Society (UM GSC 131)
Field Study of Volcanoes (UM GSC 311)
Environmental Geochemistry (UM GSC 410)
Igneous and Metamorphic Petrology (UM GSC 440)
Introduction to Geochemistry (UM/RSMAS MGG 513)
Active Margins (UM/RSMAS MGG 584)
Submarine Volcanism (UM/RSMAS MGG 677)
"Volcanoes and Society" Module for SECME (SE Conference for Minorities in Education) Teacher Training Institute

THESIS AND DISSERTATION ADVISING

Michael Lutz (UM), MS Committee Member (graduated 8/97)
Michael Finny (UM), MS Committee Chair (graduated 8/00)
Kyla Simons (UM), MS Committee Chair (graduated 8/00)
Loretta Leist (UM), MA Committee Chair (graduated 5/04)
Buffy Cushman (UH), external M.S. Committee Member
Zachary Atlas (FIU), external M.C. Committee Member
Peter LaFemina (UM), Ph.D. Committee Member (graduated 5/06)
Zachary Atlas (UM), Ph.D. Committee Chair (graduated 2008)
Arum Sumdersan (UM), Ph.D. Committee Member (graduated 2008)
Jhonny Orbulescu (UM), Ph.D. Committee Member (graduated summer 2010)
Katie Inderbitzen (UM), Ph.D. Committee (graduated summer 2012)
Scott Baker (UM), Ph.D. Committee (graduated summer 2012)
Candice Simmons (USF), Ph.D. Committee Member (graduated fall 2013)
William Abbott (USF), MS Committee Member (graduated fall 2015)
Molly Anderson (University of Florida), Ph.D. Committee Member

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

2014 - present	The Oceanography Society
2011 - present	American Association for the Advancement of Science
1982 - present	American Geophysical Union
1992 - 2007	International Association of Volcanology and Chemistry of the Earth's Interior
1992 - 2007	Mineralogical Society of America
1998 induction	Phi Kappa Phi
1990 - present	The Geochemical Society

PROFESSIONAL SERVICE

2019-present	Member, Smithsonian Institution National Museum of Natural History Advisory Board
04/2017 – 10/2017	Member, NSF Earth Sciences Committee of Visitors
2015 - 2019	Chair, Consortium for Ocean Leadership Executive Board
2014 - 2020	Member of the Ocean Exploration Advisory Board for the National Oceanic and Atmospheric Administration (NOAA)
2014 - 2020	Member, College of Science Visiting Committee, Nanyang Technological University, Singapore
2013 - 2019	Consortium for Ocean Leadership (COL) Executive Board
2014 - 2017	Chair, Florida Institute of Oceanography Advisory Board
2011 - 2020	Southern Association of Marine Laboratories (SAML) USF/CMS representative
2011 - 2020	Gulf of Mexico Coastal Ocean Observing System (GCOOS) USF/CMS representative)
2012 - 2013	AAAS review panel on University of North Carolina System marine activities
2012 - 2020	Cooperative Institute for Marine Atmospheric Studies (CIMAS) Executive Advisory Board
2011 - 2020	Florida Institute of Oceanography Council Member
2010 - 2014	University of Florida Department of Geological Sciences Advisory Board
2011 - 2020	Consortium for Ocean Leadership (COL) Member Representative

2008 - 2009	HERS Institute at Wellesley College (intensive residential professional development experiences for women in mid- and senior-level positions in higher education administration)
2008 - 2009	Member of Planning Committee – Goldschmidt Conference
2003 - 2007	U.S. National Committee for Geodesy and Geophysics
1999 - present	Member of the Steering Committee, Geochemical Earth Reference Model Initiative
1999	Invited Participant, NSF Workshop on RIDGE-Iceland Collaboration
1996 - 1997	Macelwane Award Committee, American Geophysical Union
1996	Invited Participant, NSF Workshop on the Future of Marine Science, Oregon
1994	Invited participant, Workshop on SAR Interferometry and Change Detection, Boulder, Colorado
1994	Invited participant, RIDGE Workshop on Global Impact of Hydrothermal Circulation, Boulder, Colorado
1993 - 1995; 1999; 2007	NSF Panel Member, Ocean Sciences Division, Marine Geology and Geophysics Program

PROFESSIONAL SERVICE - EDITORIAL

2002-2008	*Associate Editor:*	Geochemistry, Geophysics, Geosystems
2008-2009	*Guest Editor:*	Chemical Geology Special Volume on "Volatiles and Melts in the Earth's Interior"
1990-present	*Manuscript Reviewer:*	American Mineralogist AGU Monographs Bulletin of Volcanology Canadian Journal of Earth Science Earth and Planetary Science Letters Earth Science Reviews Geology Geochemica et Cosmochimica Acta Nature Science
1990-present	*Proposal Reviewer:*	NSF-OCE/MGG and EAR Programs

UNIVERSITY SERVICE

University of South Florida

2019 - 2020	Chair, Search Committee for Director of the Florida Institution of Oceanography
2014 - 2015	Chair, Search Committee for Director of the Florida Institution of Oceanography
2013 - 2014	Chair, Search Committee for Dean of the College of Engineering
2013 - 2017	Member, USF Budget Reengineering Committee
2011 - 2020	Campus Leadership Council
2011 - 2020	Council of Deans
2012	USF System Academic Affairs Retreat
2012-2017	Budget Re-engineering/Requirement Development Committee
2012	USF Student Showcase, London and Birmingham and University of Exeter MOU

University of Miami

2007 - 2008	First-Year Seminar Planning Committee
2007	ADVANCE Grant Committee
2007 - 2008	SACS-QEP Implementation Committee
2006 - 2007	SACS-QEP Planning Committee
2006	Environmental Mineralogist Search Committee Chair
2003 - 2010	Abess Center for Ecosystem Science and Policy Advisory Committee
1997 - 1998	UM Research Council
1997 - 1998	Geological Sciences Curriculum Revision Committee
1994 - 2004	Division of Marine Geology and Geophysics Academic Committee
1993 - 1994	Radiogenic Isotope Oceanographer Search Committee

COMMUNITY SERVICE

St. Petersburg

2018-2020	Member, St. Petersburg Innovation District Board
2014 - 2019	Member, Board of Governors, St. Petersburg Chamber of Commerce
2014	Member, St. Petersburg Chamber of Commerce Community Economic Development Strategy Group
2014	Member, St. Petersburg Pier Working Group
2013 - 2014	USF St. Petersburg Strategic Planning Committee
2013 - 2018	Pier Aquarium/Secrets of the Sea Marine Exploration Center Board Member
2011 - 2020	St. Petersburg Ocean Team Member