

**UNIVERSITY OF SOUTH FLORIDA**  
Curriculum Vitae

1. **Date:** January 15, 2013

## PERSONAL

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| 2.  | <b>Name:</b>                            | Jacqueline Eaby Dixon                         |
| 3.  | <b>Home Phone:</b>                      | 727-954-4302                                  |
| 4.  | <b>Office Phone:</b>                    | 727-553-3369                                  |
| 5.  | <b>Home Address:</b>                    | 2626 Keystone Ct. N., St. Petersburg FL 33710 |
| 6.  | <b>Academic Rank:</b>                   | Dean & Professor                              |
| 7.  | <b>Dept./College:</b>                   | College of Marine Science                     |
| 8.  | <b>Secondary or Joint Appointments:</b> | None  |
| 9.  | <b>Citizenship:</b>                     | USA   |
| 10. | <b>Visa Type:</b>                       | None  |

## HIGHER EDUCATION

- |     |                           |   |
|-----|---------------------------|---|
| 11. | <b>Institutional:</b>     |   |
|     | 1992                      | Ph.D. Geochemistry California Institute of Technology |
|     | 1983                      | M.S. Geology Stanford University                      |
|     | 1981                      | B.Sc. Geology Stanford University                     |
| 12. | <b>Non-Institutional:</b> | None  |
| 13. | <b>Certification:</b>     | None  |

## EXPERIENCE

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| 14. | <b>Academic:</b>      |  |
|     | Jan. 2011 – present   | <i>Dean</i> , College of Marine Science, University of South Florida, St. Petersburg FL            |
|     | July 2009 – July 2010 | <i>Interim Dean</i> , College of Arts and Sciences, University of Miami                            |
|     | June 2006 – July 2010 | <i>Senior Associate Dean</i> , College of Arts and Sciences, University of Miami                   |
|     | June 2003 – June 2008 | <i>Director of the Undergraduate Program in Ecosystem Science and Policy</i> , University of Miami |
|     | June 2003 – present   | <i>Full Professor</i> , Division of Marine Geology and   |

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|------------------------|---|
|                        | Geophysics, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami   |
| Nov. 1998 – 2006       | <i>Joint Appointment</i> , Department of Geological Sciences, University of Miami   |
| June 1998 – 2003       | <i>Associate Professor</i> , Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami |
| Oct. 1996 - 2006       | <i>Secondary Appointment</i> , Department of Geological Sciences, University of Miami   |
| Sept. 1992 – May 1998  | <i>Assistant Professor</i> , Division of Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami |
| Feb. 1992 - Aug. 1992  | <i>Staff Scientist</i> , Division of Geological and Planetary Science, California Institute of Technology   |
| Sept. 1985 - Feb. 1992 | <i>Graduate Research Assistant</i> , Division of Geological and Planetary Sciences, California Institute of Technology                            |
| Sept. 1984 - June 1985 | <i>Graduate Research Assistant</i> , Scripps Institution of Oceanography, University of California, San Diego                                     |
15. **Non-Academic:**  
 Sept. 1981 to Aug. 1984 *Physical Science Technician and Scientific Navigator*, U.S. Geological Survey, Menlo Park, CA
16. **Military:** None

## PUBLICATIONS

17. **Books and Monographs Published:** None
18. **Juried or Refereed Journal Articles and Exhibitions:**  
 (37 articles, 2286 citations for 35 articles, h-index 23, citations as of 1/15/2013)
- 2012 Witham, F., Blundy, J. D., Dohn, S. C., Lesne, P., **Dixon, J. E.**, Churakov, S., and Botcharnikov, R., SolEx: A model for mixed COHSCl-fluid solubilities and exsolved gas compositions in basalt. Computers & Geosciences 45, 87-97. (3 citations)
- Dixon, J. E.**, 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)
- 2008 **Dixon, J. E.**, Clague, D. A., Cousens, B., Monsalve, M. L., and Uhl, J., 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 (G-cubed) 9, Q09005, doi:10.1029/2008GC002076. (18 citations)
- 2009 Dasgupta, R., and Dixon, J. E., Volatiles and volatile-bearing melts in the Earth's interior. Chemical Geology 262, 1-3. (1 citation)
- 2006 Atlas, Z., **Dixon, J. E.**, Sen, G., Finny, M., and Martin-Del Pozzo, A. L., Melt inclusions from Volcán Popocatepetl and Volcán de Colima, Mexico: Melt

- evolution due to vapor-saturated crystallization during ascent. Journal of Volcanology and Geothermal Research 153, 221-240. (19 citations)
- Rüpke, L., Morgan, J. P., and **Dixon, J. E.**, Impl23ations 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. (5 citations)
- Hauri, E. H., Shaw, A. M., Wang, J., **Dixon, J. E.**, King, P. L., and Mandeville, C., Matrix effects in hydrogen isotope analysis of silicate glasses by SIMS. Chemical Geology 235, 352-365. (14 citations)
- 2004 Asimow, P., **Dixon, J. E.**, and Langmuir, C., A hydrous melting and fractionation model for mid-ocean ridge basalts: Application to the Mid-Atlantic Ridge near the Azores. Geochemistry, Geophysics, Geosystems (G-cubed) 5, Q01E16, doi: 10.1029/2003GC000568. (23 citations)
- Cushman B., Sinton, J., Ito, G., and **Dixon, J. E.**, Glass compositions, plume-ridge interaction, and hydrous melting along the Galápagos Spreading Center, 90.5°W to 98°W. Geochemistry, Geophysics, Geosystems (G-cubed) 5, Q08E17, doi:10.1029/2004GC000709. (23 citations)
- Dixon, J. E.**, Dixon, T. H., Bell, D. R., and Malservisi, R., Lateral variation in mantle viscosity: Role of water. Earth and Planetary Science Letters 222, 451-467. (101 citations)
- 2003 Clague, D. A., Davis, A. S., and **Dixon, J. E.**, 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. (22 citations)
- 2002 **Dixon, J. E.**, Leist, L., Langmuir, C., and Schilling, J.-G., Recycled dehydrated lithosphere observed in plume-influenced mid-ocean ridge basalt. Nature 420, 385-389. (140 citations)
- 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., Correlated geophysical, geochemical and volcanological manifestations of plume-ridge interaction along the Galápagos Spreading Center. Geochemistry, Geophysics, Geosystems (G-cubed) 3, doi 10.1029/2002GC000350. (43 citations)
- Hauri, E., Wang, J., **Dixon, J. E.**, King, P. L., Mandeville, C., and Newman, S., SIMS analysis of volatiles in silicate glasses 1. Calibration, matrix effects and comparisons to FTIR. Chemical Geology 183, 99-114. (92 citations)
- Kingsley, R. H., Schilling, J.-G., **Dixon, J. E.**, Swart, P., Poreda, R., and Simons, K., 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 (G-cubed) 3, doi:10.1029/2001GC000199. (6 citations)
- Simons, K., **Dixon, J. E.**, Schilling J.-G., Kingsley, R., and Poreda, R., 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 (G-cubed) 3, doi:10.1029/2001GC000173. (31 citations)
- Dixon, J. E.**, Filiberto, J. R., Moore, J. G., Hickson, C. J., 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, 255-271. (15 citations)
- 2001 **Dixon, J. E.**, and Clague, D. A., Volatiles in basaltic glasses from Loihi Seamount, Hawaii: Evidence for a relatively dry plume component. Journal of Petrology 42, 627-654. (109 citations)
- Newman, A. V., Dixon, T. H., Ofoegbu, G., and **Dixon, J. E.**, Geodetic and seismic constraints on recent activity at Long Valley Caldera, California: Evidence for viscoelastic rheology. Journal of Volcanology and Geothermal Research 105, 183-206. (57 citations)
- 2000 Clague, D. A., Davis, A., Bischoff, J., **Dixon, J. E.**, and Geyer, R., Lava bubble-wall fragments formed by submarine hydrovolcanic explosions on Loihi Seamount and Kilauea Volcano. Bulletin of Volcanology 61, 437-449. (39 citations)
- Clague, D. A., and **Dixon, J. E.**, Extrinsic controls on the evolution of Hawaiian ocean island volcanoes. Geochemistry, Geophysics, Geosystems (G-cubed) 1, 1010, doi:10.1029/1999GC000023. (6 citations)
- Dixon, J. E.**, Simons, K., Leist, L., Eck, C., Ricisak, J., Gifford, J., and Ryan, J., Provenance of stone celts from the Miami Circle Archeological Site, Miami, Florida. Florida Anthropologist 53, 328-341. (not included in database)
- Sinton, J., Detrick, R., Ito, G., Canales, J. P., Cushman, B., Behn, M., Blacic, T., **Dixon, J. E.**, Graham, D., Lin, J., Mahoney, J., and the Shipboard Scientific Party, Seismic and petrologic investigation of the effects of plume-ridge interaction at the Galápagos Spreading Centre. InterRidge News 9, 41-45.
- 1997 **Dixon, J. E.**, Degassing of alkalic basalts. American Mineralogist 82, 368-378. (121 citations)
- Dixon, J. E.**, Clague, D. A., Wallace, P., and Poreda, R., Volatiles in alkalic basalts from the North Arch volcanic field, Hawaii: extensive degassing of deep submarine-erupted alkalic series lavas. Journal of Petrology 38, 911-939. (129 citations)
- 1995 **Dixon, J. E.**, Stolper, E. M., and Holloway, J. R., 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, 1607-1631. (293 citations)
- Dixon, J. E.**, and Stolper, E. M., 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, 1633-1646. (161 citations)
- Dixon, J. E.**, and Pan, V., Determination of the molar absorptivity of dissolved carbonate in basaltic glass. American Mineralogist 80, 1339-1442. (53 citations)
- Clague, D. A., Moore, J. G., **Dixon, J. E.**, and Friesen, W. B., Petrology of submarine lavas from Kilauea's Puna Ridge, Hawaii. Journal of Petrology, 36, 299-349. (132 citations)
- 1992 Holloway, J. R., **Dixon, J. E.**, and Pawley, A. R., An internally-heated, rapid-quench vessel, American Mineralogist 77, 643-646. (23 citations)
- 1991 Clague, D. A., Weber, W. S., and **Dixon, J. E.**, Picritic glasses from Hawaii. Nature 353, 553-555. (91 citations)
- Dixon, J. E.**, Clague, D. A., and Stolper, E., Degassing history of water, sulfur, and carbon in submarine lavas from Kilauea Volcano, Hawaii. Journal of

- Geology 99, 371-394. (134 citations)
- 1989 **Dixon, J. E.**, and Dixon, T. H., Vesicles, amygdales and similar structures in fault generated pseudotachylites – Comment. Lithos 23, 225-229. (6 citations)
- 1988 **Dixon, J. E.**, Stolper, E., and Delaney, J. R., Infrared spectroscopic measurements of H<sub>2</sub>O and CO<sub>2</sub> contents in Juan de Fuca Ridge basaltic glasses. Earth and Planetary Science Letters 90, 87-104. (252 citations)
- 1986 **Dixon, J. E.**, Clague, D. A., and Eissen, J. -P., Gabbroic xenoliths and host ferrobasalt from the southern Juan de Fuca Ridge. Journal of Geophysical Research 91, 3795-3820. (51 citations)
- 1985 Clague, A., Frankel, C. S., and **Eaby, J. S.**, The age and origin of felsic intrusions of the Thetford Mines Ophiolite, Quebec. Canadian Journal of Earth Sciences 22, 1257-1261. (9 citations)
- 1984 **Eaby, J. S.**, Clague, D. A., and Delaney, J. R., Sr isotopic variations along the Juan de Fuca Ridge. Journal of Geophysical Research 89, 7883-7890. (61 citations)

#### 19. Other Works and Publications:

##### Abstracts

- 2012 **Dixon, J. E.**, Simons, K., Kingsley, R., le Rous, P., and Ryan, J., 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.
- 2009 **Dixon, J.**, Clague, D., and Cousens, B., Carbonatite and Silicate Melt Metasomatism of Depleted Mantle Surrounding the Hawaiian Plume: Origin of Rejuvenated-Stage Lavas. 19<sup>th</sup> Annual Goldschmidt Conference, Davos, Switzerland, Abstract 2752.
- Atlas, Z., and **Dixon, J.**, Multi-stage degassing at Masaya Volcano, Nicaragua. GSA Abstracts with Programs 41, Southeastern Section, Abstract 154829.
- 2008 **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L., Volatiles and trace elements in rejuvenated-stage lavas from Niihau, Hawaii: Evidence for carbonatite metasomatism. 18<sup>th</sup> Annual Goldschmidt Conference, Vancouver, BC, Canada, Abstract A220.
- 2007 **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L., 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.
- Rau, C., Monsalve, M.L., **Dixon, J.**, Kingsley, R., and Schilling, J.-G., 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.
- Ferreira, P., Murton, B., **Dixon, J.**, and Boulter, C., Melt supply and magmatic evolution at a large central MOR volcano located in the Lucky Strike segment. 17<sup>th</sup> Annual Goldschmidt Conf., Cologne, Germany, Abstract A275.
- 2006 **Dixon, J. E.**, Water in the mantle sources of oceanic basalts. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V54A-04.
- Kingsley, R. H., **Dixon, J. E.**, Swart, P., Eiler, J., and Schilling, J.-G., 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.
- Rüpke, L. H., Phipps Morgan, J., and **Dixon, J.**, Implications of subduction rehydration for Earth's deep water cycle. EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V54A-01.
- Atlas, Z. D., and **Dixon, J. E.**, 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.
- 2005 **Dixon, J.**, Clague, D., Cousens, B., and Monsalve, M. L., 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.
- Dixon, J.**, Deep earth water cycle: Efficient dehydration of subducted lithosphere. EOS Trans. AGU 86, Fall Meet. Suppl., Abstract V52A-05.
- LeRoux, P. J., **Dixon, J. E.**, Shirey, S. B., and Hauri, E. H., Boron isotope compositions of South Atlantic MORB and mantle sources. Goldschmidt Conference Abstracts, A94.
- 2004 **Dixon, J.**, Water in mantle-derived melts: Constraints on the mantle water cycle. EOS Trans. AGU 85, 947, Fall Meet. Suppl., Abstract T31F-08.
- Dixon, T. H., **Dixon, J. E.**, Malservisi, R., Bell, D. R., Lateral variation in upper mantle viscosity: Role of water. EOS Trans. AGU 85, Joint Assembly Suppl., Abstract U54A-03, JA20.
- Monsalve, M., Cousens, B., **Dixon, J.**, Clague, D., Volatiles in basaltic glasses from Ni'ihau and Kauai, Hawai'i. EOS Trans. AGU 85, West. Pac. Geophys. Meet. Suppl., Abstract V41A-41.
- 2003 Clague, D. A., Cousens, B. L., Davis, A. S., **Dixon, J. E.**, Hon, K., and Moore, J. G., Submarine rejuvenated-stage lavas offshore Molokai, Oahu, Kauai, and Niihau, Hawaii. EOS Trans. AGU 84, Fall Meeting Suppl., Abstract V11B-01, F1468.
- Dixon, J. E.**, Dixon, T. H., Malservisi, R., and Bell, D., Lateral variation in upper mantle viscosity: role of water. EOS Trans. AGU 84, Fall Meeting Suppl., Abstract T31B-07, F1381.
- 2003 **Dixon, J. E.**, 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.
- 2002 **Dixon, J. E.**, Wet versus damp plumes: Evidence for efficient dehydration of recycled crust and sediments. EOS Trans. AGU 83, Spring Meeting Suppl., S383.
- 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., Plume-ridge interaction along the Galápagos Spreading Center. EOS Trans. AGU 83, Spring Meeting Suppl., S345.
- 2001 **Dixon, J. E.**, 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)

- Leist, L., **Dixon, J.**, and Schilling, J-G., 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.
- Dixon, J. E.**, and Langmuir, C., 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.
- Simons, K., **Dixon, J. E.**, Schilling J-G., Kingsley, R., and Poreda, R., 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.
- Sinton, J., Detrick, R. S., Canales, J. P., Ito, G., Behn, M., Blacic, T., Cushman, B., and **Dixon, J. E.**, 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.
- Cushman, B. J., **Dixon, J. E.**, Graham, D., and Sinton, J. M., 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.
- Reynolds, J. R., Clague, D. A., Hon, K., **Dixon, J. E.**, and Cousens, B., Observations on the origin of submarine volcanic cone morphologies in Hawaii. EOS Trans. AGU 82, Fall Meeting Suppl., F1281.
- 2000 **Dixon, J. E.**, Filiberto, J., Moore, J. M., and Hickson, C. J., 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.
- 1999 Simons, K. K., **Dixon, J. E.**, Devey, C. W., Volatile contents of basaltic glasses from the Foundation Seamount Chain. EOS Trans. AGU 80, Fall Meeting Suppl., F1091.
- Dixon, J. E.**, and Clague, D. A., Volatiles in basaltic glasses from Hawaiian submarine lavas: Evidence for a relatively dry plume component. EOS Trans. AGU 80, Fall Meeting Suppl., F1198.
- 1998 Simons, K. K., **Dixon, J. E.**, and Reynolds, J. R., Volatile contents of Austral Island glasses. IAVCEI meeting, Cape Town, South Africa.
- Dixon, J. E.**, Engel, H., Moore, J. M., and Hickson, C. J., 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.
- Dixon, J. E.**, and Clague, D. A., Volatiles in basaltic glasses from Loihi Seamount, Hawaii: Evidence for a relatively dry plume component. EOS Trans. AGU 79, Fall Meeting Suppl., F939.
- Batiza, R., Coleman, T., White, J. D. L., Pan, Y., and **Dixon, J. E.**, Deep sea hyaloclastites: Evidence for high flow velocity. EOS Trans. AGU 79, Fall Meeting Suppl., F956.
- 1997 **Dixon, J. E.**, and Clague, D. A., Evolving volcanoes and degassing styles in Hawaii. Geol. Soc. Am. Annual Meeting A-191.
- Dixon, J. E.**, Kingsley, R., Schilling, J. -G., and Poreda, R., Water and CO<sub>2</sub> 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.

- Clague, D. A., Davis, A. S., and **Dixon, J. E.**, Formation of bubble-wall fragments during submarine eruptions on Loihi Seamount and Kilauea Volcano. EOS Trans. AGU 78, Fall Meeting Suppl., F792.
- Poreda, R. J., Kingsley, R., Schilling, J. -G., **Dixon, J. E.**, and Swart, P., Plume-Ridge Interactions along the Easter Seamount Chain (ESC): Mixing and degassing of volatiles. EOS Trans. AGU 78, Fall Meeting Suppl., F688.
- 1996 **Dixon, J. E.**, Langmuir, C., and Horan, S., 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.
- 1995 C. J. Hickson, Moore, J. G., and **Dixon, J. E.**, Subglacial volcanoes of northern British Columbia, Canada. EOS Trans. AGU 76, Fall Meeting Suppl., F199.
- 1994 **Dixon, J. E.**, and Clague, D. A., Volatiles in alkali basalts from the North Arch volcanic field, Hawaii: Degassing or mantle metasomatism. EOS Trans. AGU 75, Fall Meeting Suppl., 718.
- 1993 Clague, D. A., and **Dixon, J. E.**, Volatiles in Hawaiian magmas. International Workshop on Interplate Volcanism. Polynesian Plume Province, Papeete/Tahiti.
- 1992 **Dixon, J. E.**, Stolper, E., and Holloway, J. R., Solubilities of water and carbon dioxide in basaltic magmas. EOS Trans. AGU 73, Spring Meeting Suppl., 348.
- 1991 **Dixon, J. E.**, Stolper, E. M., and Holloway, J. R., 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.
- 1987 **Dixon, J. E.**, and Burnett, D. S., U volatilization as a mechanism for  $^{238}\text{U}$  -  $^{230}\text{Th}$  disequilibrium in young volcanic rocks. IUGG XIX General Assembly, 406.

20. **a. Other Works Accepted for Publication:**

PROFESSIONAL

21. **a. Administrative Experience**

**Dean, College of Marine Science (USF), January 3, 2011 – present**

- Oversight of 29 full time faculty, 44 research associates, 40 technical associates, 22 staff, ~100 graduate students
- Annual budget of ~\$21M, ~\$15M in sponsored research funding

**Interim Dean, College of Arts & Sciences (UMiami), July 1, 2009-June 30, 2010**

- 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

**Senior Associate Dean for Life and Physical Sciences, College of Arts & Sciences (UMiami), June 1, 2006 – June 30, 2010**

- 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

21. **b. Funded Research Performed:**

- 2012 **USGS-G12AC20223:** “Support of Research and Facilities at the USFCMS/USGS St. Petersburg Center and Research Support for Seminar Series”, Dixon, J. (P.I.), \$1,042,670 for Year One (08/1/12 – 7/31/17).
- 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 – 11/30/13).
- 2011 **USGS-G12PA00014-G12PD-39C:** “USGS Student Support for CMS”, Dixon, J. (P.I.), \$41,196 for 1 year (12/1/11 – 12/31/12).
- 2011 **USGS-G12PA00014-G12PD.386:** “USGS Student Support for CMS”, Dixon, J. (P.I.), \$41,196 for 1 year (12/1/11 – 12/31/12).
- 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).
- 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).
- 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).
- 2011 **USGS:** “Support of Research and Facilities at the USFCMS/USGS St. Petersburg Science Center, Year 3 of a 5 Year Renewal” (G04AC00003), Dixon, J. (P.I.), \$2,741,971 for 1 year (5/1/11 – 4/30/12).
- 2009 **USGS:** “Support of Research and Facilities at the USFCMS/USGS Center for Coastal and Watershed Studies Year 1 of 5 Years” (05ERAG0038/G05AC000), Dixon, J. (P.I. status assumed after becoming Dean), \$3,202,491 for 1 year (5/1/09 – 7/31/12).

- 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 extension), 1 month/year for J. Dixon.
- 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.
- 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.
- 1999 Participant in U.S. Dept. of Education Grant “Project SUCCEED: School University Community Coalition for Excellence in Education”
- 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.
- 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.
- 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.
- University of Miami**, Instructional Advancement Grant - “Upgrade of Igneous Petrology Laboratory”; Dixon (P.I.), 1 yr., \$1015.
- 1994 **NSF/OCE-9416692:** Acquisition of an infrared microscope; Dixon (P.I.), 1 year, \$12,400.
- NSF/EAR-9417949:** Acquisition of an infrared microscope; Dixon (P.I.), 1 year, \$12,400.
- 1993 **NSF/OCE-9302574:** The Effect of Water on the Degree of Mantle Melting in the Petrogenesis of Mid-oceanic Ridge Basalt, Dixon (P.I.) and Langmuir (co-P.I., Lamont-Doherty), 3 years; \$221,473.
- University of Miami**, General Research Support Award, Dixon (P.I.), 1 year,

\$5000.

22. **Editorial Responsibilities:**

Associate Editor: Geochemistry, Geophysics, Geosystems  
Guest Editor: Chemical Geology Special Volume on “Volatiles and  
Melts in the Earth’s Interior”  
Manuscript Reviewer: American Mineralogist  
Bulletin of Volcanology  
Canadian Journal of Earth Science  
Earth and Planetary Science Letters  
Earth Science Reviews  
Geochemica et Cosmochimica Acta  
Nature  
Proposal Reviewer: NSF-OCE/MGG and EAR Programs

23. **Professional and Honorary Organizations:**

Phi Kappa Phi  
American Geophysical Union  
International Association of Volcanology and Chemistry of the Earth’s Interior  
Mineralogical Society of America  
The Geochemical Society

24. **Honors and Awards:**

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

25. **Post-Doctoral Fellowships:** None

26. **Other Professional Activities:**

Florida Institute of Oceanography Council Member  
University of Florida Department of Geological Sciences Advisory Board  
Cooperative Institute for Marine Atmospheric Studies (CIMAS) Executive  
Advisory Board  
Consortium for Ocean Leadership (COL) Member  
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 (2008-2009)  
U.S. National Committee for Geodesy and Geophysics (2003-2007)  
Member of the Steering Committee, Geochemical Earth Reference Model  
Initiative  
Invited Participant, NSF Workshop on RIDGE-Iceland Collaboration (1999)  
Macelwane Award Committee, American Geophysical Union (1996-1997)  
Invited Participant, NSF Workshop on the Future of Marine Science, Oregon  
(December, 1996)  
Invited participant, Workshop on SAR Interferometry and Change Detection,

Boulder, Colorado (February 1994)  
Invited participant, RIDGE Workshop on Global Impact of Hydrothermal Circulation, Boulder, Colorado (September 1994)  
NSF Panel Member, Ocean Sciences Division, Marine Geology and Geophysics Program (1993 – 1995; 1999, 2007)

Invited Talks:

ETH, Switzerland, Marie Curie Research Training Network *Crust to Core – The Fate of Subducted Material* Workshop – “The Deep Carbon Cycle” (June, 2009)  
Brown University (Nov. 2008)  
Cardiff University (Oct. 2008)  
FIU (Sept. 2008)  
Stanford University (Feb. 2006)  
Fall AGU, (Dec. 2005)  
Caltech (October, 2003)  
Spring AGU, Frontier talk (May, 2002)  
Eleventh Annual Goldschmidt Conf. (May, 2001)  
Pennsylvania State University (April, 2001)  
Arizona State University (March, 2001)  
University of South Carolina (September, 2000)  
McGill University (November, 1999)  
University of South Florida (November 1998)  
USGS/Cascade Volcano Observatory (March 1998)  
Florida State University (May 1998)  
Carnegie Institute of Washington (April 1997)  
Miami Geological Society (March 1997)  
Yale University (February 1996)  
University of Rhode Island, Association of Women Geoscientists, Distinguished Lecturer (February 1996)  
Lamont Doherty Earth Observatory (March 1994, February 1996)  
University of Miami/RSMAS/Blue Planet Lecture (November 1994)  
University of Washington (February 1994)  
Duke University (November 1993)  
Harvard (November 1993)

27. **Teaching Awards:** NONE

28. **Teaching Specialization** (courses taught):  
Volcanoes and Society (GSC 131)  
Field Study of Volcanoes (GSC 311)  
Environmental Geochemistry (GSC 410)  
Igneous and Metamorphic Petrology (GSC 440)  
Introduction to Geochemistry (MGG 513)  
Active Margins (MGG 584)  
Submarine Volcanism (MGG 677)  
“Volcanoes and Society” Module for SECME (SE Conference for Minorities in Education) Teacher Training Institute

29. **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 (current)

SERVICE

30. **University Committee and Administrative Responsibilities:**

*University of South Florida*

Campus Leadership Council (2011-present)  
Council of Deans (2011-present)  
SF System Academic Affairs Retreat (2012)  
Requirement Development Committee (2012-present)  
USF Student Showcase, London and Birmingham and University of Exeter,  
November 2012

*University of Miami*

First-Year Seminar Planning Committee (2007-2008)  
ADVANCE Grant Committee (2007)  
SACS-QEP Implementation Committee (2007-2008)  
SACS-QEP Planning Committee (2006-2007)  
Senior Associate Dean, College of Arts and Sciences (June 2006 – 2010)  
Director – Undergraduate Program in Ecosystem Science and Policy (2003-2008)  
Environmental Mineralogist Search Committee Chair (2006)  
Abess Center for Ecosystem Science and Policy Advisory Committee (2003-2010)  
UM Research Council  
Geological Sciences Curriculum Revision Committee (1997-1998)  
MGG Academic Committee (1994-2004)  
Radiogenic Isotope Oceanographer Search Committee (1993-1994)

31. **Community Activities:**

*St. Petersburg*

St. Petersburg Ocean Team Member (2011-present)  
ARCS Foundation Member (2011-present)  
The Figures Conference, April 14, 2011, at the Castle of Sant Ferran. Topic of talk presented at conference: The future of Water in Our Cities and to Continue Strengthening the St. Petersburg-Figueraes Sister-City.  
City of St. Petersburg's International Relations Committee, August 22, 2011

Presentation to City on the Figures Conference  
Pier Aquarium Board Member

*Miami*

Advisor for MAST Academy Senior Intern Program  
Earth Day speaker at Riviera Middle School (April 22, 1994)  
Guest lecturer in RSMAS High School Teachers Cont. Education Prog.  
Guest speaker for Admirals of South Florida  
Guest speaker at Coral Reef Elementary School  
Guest speaker at Howard Elementary School

32.    **References:** Confidential references are immediately available on request.