

CURRICULUM VITAE

RENÉ MARIE PRICE

Department of Earth & Environment, and
Southeast Environmental Research Center (SERC),
Florida International University

EDUCATION

Degree	Institution	Field	Dates
Ph.D.	University of Miami, RSMAS	Marine Geology and Geophysics	2001
M.S.	University of Virginia	Environmental Sciences	1988
B.S.	Rensselaer Polytechnic Institute	Geology	1985

FULL-TIME ACADEMIC EXPERIENCE

Institution	Rank	Department	Dates
FIU	Chair	Earth & Environment	January 2015 – present
FIU	Professor	Earth & Environment and SERC	August 2015- present
FIU	Associate Professor	Earth & Environment and SERC	2008-2015
FIU	Assistant Professor	Earth Sciences and SERC	Dec. 2001-2008

PART-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
University of Western Australia	Visiting Scholar	Oceans Institute	Jan. – July 2011
University of Miami	Research Assistant	Marine Geology	1997-2001
University of Miami	Teaching Assistant	Marine Geology	1996-1997
University of Miami	Research Assistant	Marine Geology	1995,
University of Virginia	Teaching Assistant	Environmental Sci.	1985-1987
University of Virginia	Research Assistant	Environmental Sci.	1988

NON-ACADEMIC EXPERIENCE

<u>Place of Employment</u>	<u>Title</u>	<u>Dates</u>
FIU -SERC, Miami, FL	Quality Assurance Officer	1994-1995
ERM-South, Inc. Miami, FL	Hydrogeologist	1993-1994
Harding Lawson Associates, CA	Hydrogeologist	1992
ERM, Annapolis, MD	Hydrogeologist	1988-1992
Hydrosystems, VA	Geologist	1986
Goldberg, Zoino, and Associates, MA	Geologist	1984-1985

PUBLICATIONS

Dissertation and Thesis

Price, R.M., Geochemical Investigation of Salt Water Intrusion Along the Coast of Mallorca, Spain, M.S. Thesis, University of Virginia, 186 pp, 1988.

Price, R.M., Geochemical Investigation of groundwater and surface water flow in Everglades National Park, Ph.D. Dissertation, University of Miami, 307 pp., 2001.

Peer-Reviewed Articles (*M.S. Student, †Ph.D. Student, ††Post Doc)

44. Flower, H., Rains, M., Lewis, D., Zhang, J.-Z., **Price, R.** 2017. Saltwater intrusion as potential driver of phosphorus release from limestone bedrock in a coastal aquifer, *Estuarine, Coastal and Shelf Science*, 184: 166-176.
43. *Sandoval, E, **RM Price**, D Whitman, AM Melesse. 2016. Long-term (11years) study of water balance, flushing times and water chemistry of a coastal wetland undergoing restoration, Everglades, Florida, USA. *Catena* 144, 74-83.
42. Smith, CG, **RM Price**, PW Swarzenski, JC †Stalker. 2016. The Role of Ocean Tides on Groundwater-Surface Water Exchange in a Mangrove-Dominated Estuary: Shark River Slough, Florida Coastal Everglades, USA, *Estuaries and Coasts*, 39(6):1600–1616.
41. †Sullivan, PL, **R Price**, M Ross, J Say, L Scinto, S Stoffella, T Dreschel, F Sklar, and E Cline. 2016. Trees: A powerful geomorphic agent governing the landscape evolution of a subtropical wetland. *Biogeochemistry*, 128(3), 369–384.
40. Flower, H, M Rains, D Lewis, JZ Zhang, **R Price**, 2016. Control of phosphorus concentration through adsorption and desorption in shallow groundwater of subtropical carbonate estuary, *Estuarine, Coastal and Shelf Science*, 169: 238-247.
39. Gaiser, EE, EP Anderson, E Castañeda-Moya, L Collado-Vides, JW Fourqurean, MR Heithaus, R Jaffé, D †Lagomasino, NJ Oehm, **RM Price**, VH Rivera-Monroy, RR Chowdhury, TG Troxler, 2015. New perspectives on an iconic landscape from comparative international long-term ecological research. *Ecosphere*, 6(10): 1-18.
38. †Lagomasino, D, **RM Price**, D. Whitman, A. Melesse and S. Oberbauer. 2015. Spatial and temporal variability in spectral-based surface energy evapotranspiration measured from Landsat 5TM across two mangrove ecotones, *Agricultural and Forest Meteorology*, 213: 304-316, doi:10.1016/j.agrformet.2014.11.017.
37. Troxler, TG, JG Barr, JD Fuentes, V Engel, G Anderson, C Sanchez, D †Lagomasino, **R Price**, SE Davis, 2015. Component-specific dynamics of riverine mangrove CO₂ efflux in the Florida coastal Everglades, *Agricultural and Forest Meteorology*, 213: 273–282, doi:10.1016/j.agrformet.2014.12.012, 2015.
36. Mahmoudi, M., R Garcia, E Cline, **R Price**, L Scinto, S Wdowinski, and F Miralles-Wilhelm. 2015. Fine Spatial Resolution Simulation of Two-Dimensional Modeling of Flow Pulses Discharge into Wetlands: Case Study of Loxahatchee Impoundment Landscape Assessment, the Everglades. *Journal of Hydrologic Engineering*, 10.1061/(ASCE)HE.1943-5584.0001206, 2015.
35. *Ceron, CN, AM Melesse, **R Price**, SB Dessu, HP Kandel. 2015. Operational Actual Wetland Evapotranspiration Estimation for South Florida Using MODIS Imagery, *Remote Sensing*, 7 (4), 3613-3632.
34. †Lagomasino, D, **RM Price**, J Herrera-Silveira, F Fernando Miralles-Wilhelm, G Merediz-Alonso, and Y Gomez-Hernandez. 2015. Connecting groundwater and surface water sources in groundwater dependent coastal wetlands and estuaries: Sian Káan Biosphere Reserve, Quintana Roo, Mexico. *Estuaries and Coasts*, 38 (5): 1744-1763.
33. †Lagomasino, D, **RM Price**, D Whitman, PKE Campbell, A Melesse. Estimating major ion and nutrient concentrations in two coastal mangrove estuaries using leaf and satellite reflectance. *Remote Sensing of Environment*, 154:202-218, 2014.

32. Haigh, I, T Wahl, E Rohling, **R Price**, C Pattiaratchi, F Calafat, and S Dangendorf. Timescales for detecting a significant acceleration in sea-level rise. *Nature Communications*, 5:3635, doi:10.1038/ncomms4635. 2014.
31. †Stalker JC, **Price, RM**, Rivera-Monroy, VH, Herrera-Silveira, J, Morales, S, Benitez, JA, Alonzo-Parra, D. Hydrologic Dynamics of a Subtropical Estuary Using Geochemical Tracers, Celestún, Yucatán, Mexico. *Estuaries and Coasts*, 1-12. 10.1007/s12237-014-9778-5. 2014.
30. Troxler, TG, C Coronado-Molina, DN Rondeau, S Krupa, S Newman, **RM Price**, FH Sklar. Interactions of local climatic, biotic and hydrogeochemical processes facilitate phosphorus dynamics along an Everglades forest-marsh gradient. *Biogeosciences*, 11:899-914, 2014.
29. †Sullivan, PL, **RM Price**, F Miralles-Willhelm, MS Ross, L Scinto, T Dreschel, FH Sklar, and E Cline. The role of recharge and evapotranspiration as hydraulic drivers of ion concentrations in shallow groundwater on Everglades tree islands, Florida (USA), *Hydrological Processes*, 28(2): 293-304. DOI:10.1002/hyp.9575, 2014.
28. †Sullivan, PL, **RM Price**, JL Schedlbauer, A ††Saha, EE. Gaiser. The influence of hydrologic restoration on groundwater-surface water interactions in a karst wetland, the Everglades (FL, USA). *Wetlands*, 34 (1 Supplement): 23-35, 2014.
27. Blanco, RI, GM Naja, R Rivero and **RM Price**. Spatial and temporal changes in groundwater salinity in south Florida. *Applied Geochemistry*, 38:48-58, 2013.
26. †Sullivan, PL, **RM Price**, V Engel, and MS Ross. The influence of vegetation on the hydrodynamics and geomorphology of a tree island in Everglades National Park (Florida, USA). *Ecohydrology*, DOI: 10.1002/eco.1394, 2013.
25. **Price, RM**, G Skrzypek, PF Grierson, PK Swart, and JW Fourqurean. The use of stable isotopes of oxygen and hydrogen to identify water sources in two hypersaline estuaries with different hydrologic regimes, *Marine & Freshwater Research*, 63:952-966, 2012.
24. *Zapata-Rios, X. and **RM Price**. Estimates of groundwater discharge to a coastal wetland using multiple techniques: Taylor Slough, Everglades National Park. *Hydrogeology Journal*, 20:1651-1668, 2012.
23. ††Saha, AK, CS Moses, **RM Price**, V Engel, TJ Smith III, and G Anderson. A Hydrological Budget (2002-2008) for a Large Subtropical Wetland Ecosystem Indicates Marine Groundwater Discharge Accompanies Diminished Freshwater Flow. *Estuaries and Coasts* 35(2):459-474, 2012.
22. †Koch, GR, DL Childers, PA Staehr, **RM Price**, SE Davis, and EE Gaiser. Hydrological conditions control P loading and aquatic metabolism in an oligotrophic, subtropical estuary. *Estuaries and Coasts* 35(1):292-300, 2012.
21. ††Saha, AK, S Saha, J Sadle, J Jiang, MS Ross, **RM Price**, LSLO Sternberg, KS Wendelberger. Sea level rise and South Florida coastal forests. *Climate Change* 107(1-2):81-108, 2011.
20. Wetzler, PR, Sklar FH, Coronado CA, Troxler TG, Krupa SL, †Sullivan PL, Ewe S, **Price RM**, Newman S, Orem WH. 2011. Biogeochemical Processes on Tree Islands in the Greater Everglades: Initiating a New Paradigm. *Critical Reviews in Environmental Science and Technology* 41:670 – 701, 2011.
19. Rivera-Monroy, VH, RR Twilley, SE Davis III, DL Childers, M Simard, R Chambers, R

- Jaffe, JN Boyer, DT Rudnick, K Zhang, E Castaneda-Moy, S Ewe, **RM Price**, C Coronado-Molina, M Ross, TJ Smith III, B Mechat, E Meselhe, W Nuttle, TG Troxler, GB Noe. The role of the Everglades Mangrove Ecotone Region (EMER) in regulating nutrient cycling and wetland productivity in south Florida. *Critical Reviews in Environmental Science and Technology*, 41(6):633-669, 2011.
18. †Sullivan, PL, **RM Price**, MS Ross, LJ Scinto, SL Stoffella, E Cline, TW Dreschel, FH Sklar. Hydrologic processes on tree islands in the Everglades (Florida, USA): tracking the effects of tree establishment and growth, *Hydrogeology Journal*, 19:367-378, 2011.
 17. Stoffella, SL, MS Ross, JP Sah, **RM Price**, PL †Sullivan, EA Cline & LJ Scinto. Survival and growth responses of eight Everglades tree species along an experimental hydrological gradient on two tree island types. *Applied Vegetation Science*, 13:439-449, 2010.
 16. **Price, RM**, MR Savabi, JL ††Jolicoeur, S Roy. Adsorption and desorption of phosphate on limestone in experiments simulating seawater intrusion, *Applied Geochemistry*, 25:1085-1091, 2010.
 15. †Chen, M, **RM Price**, Y Yamashita, R Jaffé. Comparative study of dissolved organic matter from groundwater and surface water in the Florida coastal Everglades using multi-dimensional spectrofluorometry combined with multivariate statistics, *Applied Geochemistry*, 25:872-880, 2010.
 14. †Walsh, V. and **RM Price**. Determination of vertical and horizontal pathways of injected fresh wastewater into a deep saline aquifer (Florida, USA) using natural chemical tracers, *Hydrogeology Journal*, 18(4):1027-1042, 2010.
 13. *Stiefel, JM, AM Melesse, ME McClain, **RM Price**, EP Anderson, and NK Chauhan, Effects of rainwater harvesting induced artificial recharge on the groundwater of wells in Rajasthan, India, *Hydrogeology Journal*, 17(8):2061-2073, 2009.
 12. †Stalker, JC, **RM Price**, PK Swart, Determining Spatial and Temporal Inputs of Freshwater, Including Groundwater Discharge, to a Subtropical Estuary Using Geochemical Tracers, Biscayne Bay, South Florida. *Estuaries and Coasts*, 32(4):694-708, 2009.
 11. Chin, DA, **RM Price**, and VJ *DiFrenna, Nonlinear Flow in Karst Formations, *Ground Water*, 47(5):669-674, 2009.
 10. **Price, RM**, PK Swart, and HE Willoughby, Seasonal and spatial variation in the stable isotopic composition ($\delta^{18}\text{O}$ and δD) of precipitation in south Florida. *Journal of Hydrology*, 358:193-205. doi:10.1016/j.jhydrol.2008.06.003. 2008.
 9. *DiFrenna, VJ, **RM Price**, and MR Savabi, Identification of a hydrodynamic threshold in karst rocks from the Biscayne Aquifer, south Florida, USA, *Hydrogeology Journal*. 16(1):31-42. DOI 10.1007/s10040-007-0219-4. 2008.
 8. **Price, RM**, Nuttle, WK, BJ Cosby, and PK Swart. Variation and Uncertainty in Evaporation from a Subtropical Estuary: Florida Bay, *Estuaries and Coasts*. 30(3):497-506, 2007.
 7. **Price, RM**, and P. Swart, Geochemical indicators of groundwater recharge in the Surficial Aquifer System, Everglades National Park, Florida, USA, in Harmon, R.S., and Wicks, C., eds., *Perspectives on karst geomorphology, hydrology, and geochemistry—A tribute volume to Derek C. Ford and William B. White: Geological*

- Society of America Special Paper 404:251-266. doi: 10.1130/2006.2404(21). 2006.
6. **Price, RM**, PK Swart, and J.W. Fourqurean, Coastal groundwater discharge-an additional source of phosphorus for the oligotrophic wetlands of the Everglades, *Hydrobiologia*, 569:23-36. doi:10.1007/s10750-006-0120-5. 2006.
 5. **Price, RM**, JD Happell, Z Top, and PK Swart. Use of tritium and helium to define groundwater flow conditions in Everglades National Park. *Water Resources Research*, 39(9), doi:10.1029/2002WR001929. 2003.
 4. Happell, JD, **RM Price**, Z Top, and PK Swart. Evidence for the removal of CFC-11, CFC-12, and CFC-113 at the ground water-surface water interface in the Everglades. *Journal of Hydrology*, 279:94-105. 2003.
 3. Swart, PK and **RM Price**. Origin of Salinity Variations in Florida Bay. *Limnology and Oceanography*, 47(4):1234-1241. 2002.
 2. Swart, PK, **RM Price**, and L.Greer. The relationship between stable isotopic variations (O, H, and C) and salinity in waters and corals from environments in South Florida: Implications for reading the paleoenvironmental record. *Bulletins of American Paleontology*, 361:17-29, 2001.
 1. **Price, RM** and JS Herman. Geochemical Investigation of Salt Water Intrusion into a Coastal Carbonate Aquifer: Mallorca, Spain. *Geological Society of America Bulletin*, 103(10): 1270-1279, 1991.

Chapters in Books

1. Sklar, F, A McDonald, T Dreschel and **R Price**, Chapter 6: Everglades Research and Evaluation, in *Hydrologic Patterns For Water Year 2013*, Edited by Fred Sklar and Thomas Dreschel, 2014 South Florida Environmental Report, published by the Florida Department of Environmental Protection and the South Florida Water Management District, 80 pp.

Proceedings

4. Guvanasen, V, X Wei, D Huang, D Shinde, and **RM Price**, Application of MODHMS to Simulate Integrated Water Flow and Phosphorous Transport in a Highly Interactive Surface Water Groundwater System along the Eastern Boundary of the Everglades National Park, Florida. MODFLOW conference at Colorado School of Mines June 6-8, 2011 in Golden Colorado. 2011.
3. Guvanasen, V, V Bedekar, D Shinde, and **RM Price**, Development of a Flow and Transport Model in a highly Interactive Surface Water Groundwater System Near Everglades National Park in South Florida, USA, The 7th Annual International Symposium on Managed Aquifer Recharge (Ismar) Abu Dhabi, October 9-13, 2010.
2. JM Stiefel, AM Melesse, M McClain, **RM Price**, EP Anderson, and NK Chauhan, Effects of rainwater harvesting induced artificial recharge on the groundwater of wells in Rajasthan, India, Groundwater conference proceedings, Rajasthan, India, March 2008.
1. J.M. Stiefel, A. M. Melesse, M. McClain, **RM Price**, Surface and Groundwater Dynamics of Rainwater Harvesting in Rajasthan, India: A GIS and Tracer Approach, Conference Proceedings, 13th International Rainwater Catchment Systems Conference, Sydney, Australia, August 2007.

Government Reports since 2008

1. Saiers, J., CF Harvey, W. Hopkins, KW Potter, RM Price, RDG Pyne, L Robinson, EJ Scream, RR Trussell. Review of the Everglades Aquifer Storage and Recovery Regional Study (2015), National Research Council, 72 pages, ISBN: 978-0-309-37209-1.
2. Miralles-Wilhelm, F, H Fuentes, R Garcia, A Melesse, **R Price**. WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space, Annual Report, Submitted to NASA, July 2013.
3. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price**. FCE III Year One Annual Report for NSF Award DEB-1237517, Florida Coastal Everglades LTER, Florida International University, submitted to NSF, Sept. 2013, 51pp.
4. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price**. FCE II Year Six Annual Report for NSF Award DBI-0620409 Florida Coastal Everglades LTER, Florida International University, submitted to NSF Nov. 2012, 49 pp.
5. Miralles-Wilhelm, F, H Fuentes, R Garcia, A Melesse, **R Price**. WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space, Annual Report, Submitted to NASA, July 2012, 110pp.
6. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price** FCE II Year Five Annual Report for NSF Award DBI – 0620409 Florida Coastal Everglades LTER, Florida International University, submitted to NSF Sept. 2011, 129 pp.
7. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price**. FCE II Year Four Annual Report for NSF Award DBI – 0620409 Florida Coastal Everglades LTER, Florida International University, submitted to NSF Sept. 2010, 120 pp.
8. Gaiser, E, **RM Price**, LJ Scinto, and J Trexler. Comprehensive Final Report to Everglades National Park, CA H5297-02-0106, Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park & CA H5000-06-5040, TA J5297-08-0001, Modeling of Phosphorus Retention and Sub-Surface Movement through the S-332 Detention Basins on the Eastern Boundary of Everglades National Park (Phase-II), June 30, 2010, 370pp.
9. Miralles-Wilhelm, F, H Fuentes, R Garcia, A Melesse, **R Price**. WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space, Second Annual Report, Submitted to NASA, Aug 2010, 131pp.
10. ††Stalker, JC, A Macfarlane, **RM Price**. Geochemical Investigation of the surface water and groundwater in the immediate vicinity of Florida Power and Light Turkey Point Cooling Canals. Submitted to SFWMD, July 30, 2009, 42pp.
11. **Price R** and P †Sullivan. Identifying the connection between groundwater nutrients and stable isotopes in the ridge-slough-tree island community at Loxahatchee Impoundment Landscape Assessment (LILA), Final Report, Submitted to SFWMD, by, Nov. 29, 2009, 56pp.
12. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price**. Florida Coastal Everglades LTER Mid-Term Review Report Prepared for the National Science Foundation Site Review Team, Oct. 2009, 99pp.

13. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price**. FCE II Year Three Annual Report for NSF AWARD DBI – 0620409 Florida Coastal Everglades LTER, Florida International University, submitted to NSF Sept. 2009, 103pp.
14. Contributing author to the 2009 South Florida Environmental Report (2009 SFER) Volume I: The South Florida Environment, Prepared by the South Florida Water Management District for the State of Florida
15. Scinto JL, **RM Price** and M Ross. Loaxahatchee Impoundment Landscape Assessment (LILA): Tree Island Experiments and Management- May 1, 2005 to September 4, 2009, Final Report submitted to SFWMD, Aug 17, 2009, 118pp.
16. **Price, RM** and P †Sullivan. A physical investigation of groundwater-surfacewater interaction at Loaxahatchee Impound Landscape Assessment (LILA), Final Report submitted to SFWMD, July 30, 2009, 36pp.
17. Miralles-Wilhelm,F, H Fuentes, R Garcia, A Melesse, **R Price**. WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space, First Annual Report, Submitted to NASA, July 2009, 88pp.
18. **Price, RM** and P †Sullivan. A geochemical investigation of groundwater-surface water interactions at LILA- Final Report Submitted to SFWMD, by, Sept. 20, 2008, 33pp.
19. **Price, RM**. Determining Nutrient concentrations in Groundwater beneath Florida Bay, Final Report Submitted to SFWMD, by, Dec. 16, 2008, 24pp
20. **Price, RM** and P †Sullivan. A physical investigation of groundwater-surface water interaction at Loaxahatchee Impound Landscape Assessment (LILA), Annual Report Submitted to SFWMD, by, Dec. 16, 2008, 21pp.
21. Scinto, L, **R Price** and M Ross. Loaxahatchee Impoundment Landscape Assessment (LILA): Tree Island Experiments and Management, Fourth Annual Report, Leonard J., Dec. 19, 2008, 67 pp.
22. Gaiser, E, **R Price**, L Scinto and J Trexler. Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park, Year 3 Final Report to Everglades National Park November 7, 2008, by, 102 pp.
23. Gaiser, E, M Heithaus, R Jaffé, L Ogden, **R Price** FCE II Year Two Annual Report for NSF Award DBI – 0620409 Florida Coastal Everglades LTER, Florida International University, submitted to NSF Sept. 2008, 51 pp.

PRESENTED PAPERS AND LECTURES

Invited Presentations since 2008

1. Affects of Sealevel Rise on South Florida's Coastal Resources, Florida Gulf Coast University, Nov. 18, 2014.
2. Groundwater to Biscayne Bay, Biscayne Bay Regional Restoration Coordination Team (BBRRCT) April 24, 2013.
3. Sustainability of Coastal Resources: Sealevel Rise and Coastal Forests, 2012 LTER Science Council Meeting, H.J. Andrews Forest, May 16-17, 2012.
4. Quantifying groundwater-surface water interactions in estuaries and their catchments and the potential ecological significance of those interactions. Oceans Institute, University of Western Australia, June 15, 2011.

5. Quantifying groundwater-surface water interactions in estuaries and their catchments and the potential ecological significance of those interactions. Western Australia Department of Water & Swan River Trust, June 29, 2011.
6. The use of H and O stable isotopes to identify sources of water in hypersaline estuaries, SERC Seminar, FIU, Sept. 14, 2011.
7. Identifying the sources of water in hypersaline estuaries: examples from Western Australia, Environmental Studies Seminar, FIU, Oct. 19, 2011.
8. Methods to determine groundwater discharge to coastlines, Jacksonville University, Nov. 3, 2011.
9. Methods of determining groundwater discharge to coastlines, Northwestern University, Jan. 5, 2011.
10. Ecohydrological processes and their effects on groundwater and surface water chemistry in a subtropical wetland, Advances in Hydrology, FIU BBC, Jan. 10, 2011.
11. An overview of the Florida Coastal Everglades, University of Western Australia, Perth, Australia, March 2, 2011.
12. A summary of hydrochemical techniques used to quantify groundwater discharge along coastlines, Skidaway Institute of Oceanography, Georgia, April 14, 2010.
13. The geochemistry of nutrients (N, P, C) in seawater mixing zones in carbonate aquifers, Anchialine Ecosystems: Reflection and Prospects. Mallorca, Spain, Nov. 18, 2009.

Presented Papers and Abstracts since 2008 (*undergraduate student, **M.S. student, †Ph.D. Student, †† Post Doc)

- 2016 **Price, R.M.** Release and Delivery of Phosphorus from a carbonate aquifer affected by seawater intrusion to adjacent coastal areas. Universities Council on Water Resources/National Institutes of Water Resources Annual Conference, Pensacola Beach, FL. June 21-23.
- 2016 **Price, R.M.** and †J. M. Allen. Hydrologic and Nutrient Conditions in West and Seven Palm Drainages in the Florida Everglades, NCER 2016 National Conference on Ecosystem Restoration, Coral Springs, FL. April 18-22.
- 2016 †Allen, J., D. Whitman, and **R.Price**. Hydrologic monitoring and water balance modelling in West and Seven Palm Lake Drainages in the Florida Everglades. Universities Council on Water Resources/National Institutes of Water Resources Annual Conference, Pensacola Beach, FL. June 21-23, 2016.
- 2016 Madden, C.J., F Troxler, M. Koch, **R. Price**, P. Glibert, Y. Shangguan, A. McDonald, S. Kelly, J. Stachelek. Ecological and Hydrological response of Florida Bay to the C-111 Spreader Canal Western Project. NCER 2016 National Conference on Ecosystem Restoration, Coral Springs, FL. April 18-22.
- 2016 **Price, R.M.**, **E. Linden, D. Whitman, W.T. Anderson. Controls on groundwater discharge in Taylor Slough/C-111 Basin of Everglades National Park. NCER 2016 National Conference on Ecosystem Restoration, Coral Springs, FL. April 18-22.
- 2016 **Price, R.M.**, **A.E. Prieto Estrada, L.J. Scinto, T. Dreschel, and F. Sklar. Evapotranspiration effects of the accumulation of carbonate minerals in recreated Everglades Tree Islands. NCER 2016 National Conference on Ecosystem

- Restoration, Coral Springs, FL. April 18-22.
- 2016 Whitman, D., **R.M. Price**, T.A. Frankovich. Electromagnetic surveying in the mangrove lakes region of Everglades National Park. NCER 2016 National Conference on Ecosystem Restoration, Coral Springs, FL. April 18-22.
- 2015 **Price, RM**, Phosphorus Release from the Biscayne Aquifer with Sea Level Rise. Greater Everglades Ecosystem Restoration Conference 2015. Coral Springs, FL April.
- 2015 **Linden, EI, **RM Price**. Hydrologic Controls of Coastal Groundwater Discharge in Taylor Slough, Everglades National Park, FL, USA. Greater Everglades Ecosystem Restoration Conference 2015. Coral Springs, FL April.
- 2015 Flower, HD, M Rains, D Lewis, JZ Zhang, and **R Price**. Control of Phosphate Concentrations through Adsorption and Desorption Processes in Shallow Groundwater of Coastal Everglades. Greater Everglades Ecosystem Restoration Conference 2015. Coral Springs, FL April.
- 2015 †Sullivan, PL, **RM Price**, L Sternberg, J Sah, L Scinto, MS Ross, E Cline, T Dreschel, and F Sklar. Hydrochemical Response of Experimental Everglades Tree Islands (Florida, USA): Identifying Feedback Mechanisms Associated with Early Tree Growth and Differing Geologic Materials. Greater Everglades Ecosystem Restoration Conference 2015. Coral Springs, FL April.
- 2014 **Price, R**, Swart P, †Stalker J, Grierson P. Identifying Water Sources, including groundwater discharge, to estuaries using stable isotopes of oxygen and hydrogen and strontium. Goldschmidt California 2014, Sacramento, CA, June 8-13.
- 2014 †Lagomasino, D. TE Fatoyinbo, **R Price**. Measuring surface energy and evapotranspiration across Caribbean mangrove forests. AGU Fall 2014 meeting, San Francisco, CA, Dec. 15-19.
- 2013 Scinto, LJ, A Serna, M Ross, **R Price**, F Sklar, T Dreschel, and E Cline. Soil, water, and vegetation interactions in tree island development at LILA: a physical model of the Everglades. Water, Food, Energy & Innovation for a Sustainable World, the Soil Science Society of America International Annual Meetings, Tampa, FL, Nov.
- 2013 Anderson, GH, J Dijkwel, D †Lagomasino, WK Nuttle, **RM. Price**, VH Rivera-Monroy, TJ Smith III and T Vlaar. Review of surface and groundwater dynamics from Land-Margin Ecosystem study from 1996 through 2012, Everglades National Park, USA. Coastal Estuarine Research Federation Conference, November.
- 2013 **RM Price**, **X Zapata-Rios, †GR Koch. Groundwater-surface water interactions and their effects on ecosystem metabolism in a coastal wetland: example from the Florida Everglades. American Geophysical Union Meeting of the Americas, Cancun, Mexico, May.
- 2013 **Sandoval, E, **RM Price**, AM Melesse, D Whitman. Effects of Hydrologic Restoration on the Residence Times and Water Quality of a Coastal Wetland in the Florida Everglades. American Geophysical Union Meeting of the Americas, Cancun, Mexico, May.
- 2013 †Lagomasino, D, **RM Price**. Tracing coastal and estuarine groundwater discharge sources in a complex faulted and fractured karst aquifer system. American Geophysical Union Meeting of the Americas, Cancun, Mexico, May.
- 2012 **Price, RM**, **Zapata-Rios, X, †Koch, G. Ecohydrology of Groundwater-Surface Water

- Interactions in a Coastal Wetland With an Extremely Low Hydraulic Gradient, Geological Society of America Annual Meeting and Exposition, Charlotte, NC. Nov. 2.
- 2012 **Sandoval, E, **Price, RM**, Whitman, D, Melesse, A. Ten Year Study On Restoration Projects And Their Effects On Flushing Times, Water Quality, Water Chemistry, And Water Sources In The Coastal Everglades, Geological Society of America Annual Meeting and Exposition, Charlotte, NC. Nov.
- 2012 †Lagomasino, D., **Price, RM**, Campbell, PKE 2012. Seasonal water chemistry and spectral reflectance in coastal mangroves. 9th INTECOL International Wetlands Conference. Orlando, FL. June.
- 2012 ††Saha, A, Sullivan, P, Lagomasino, D, **Price, RM**, Barr, J, Schedlbauer, J, Wang, X, Villalobos, R, and Engel, V. Estimating evapotranspiration in a larger subtropical wetland ecosystem at multiple spatial scales. 9th INTECOL International Wetlands Conference. Orlando, FL. June.
- 2012 †Sandoval, E. **Price, RM**, Whitman, D, Melesse, A. 2012. Water residence time and water quality in Taylor Slough-Everglades National Park, FL, USA. 9th INTECOL International Wetlands Conference. Orlando, FL. June.
- 2012 †Sullivan, P, **Price, RM**, Engel, V and Ross, MS. 2012. Transpiration as a hydrologic driver of ion and mineral accumulation on tree islands. 9th INTECOL International Wetlands Conference. Orlando, FL. June.
- 2012 **Price, RM**, PL †Sullivan, MS. Ross, L J Scinto, E Cline, T Dreschel, and F Sklar, 2012. The Role of Groundwater Flow in Everglades Landscape Restoration. . 9th INTECOL International Wetlands Conference. Orlando, FL. June.
- 2011 †Lagomasino, D, Campbell, PKE, and **Price, RM**. 2011. Monitoring hydrogeochemical interactions in coastal mangroves in Everglades National Park using field spectroscopy and remote sensing. American Geophysical Union. San Francisco, CA. December.
- 2011 **Price, RM**, X. **Zapata-Rios, G †Koch. Discharge of phosphorus laden brackish groundwater to a coastal wetland and its influence on ecosystem metabolism: An example from the Florida Everglades, USA. IUGG 2011 General Assembly Earth on the Edge: Science for a Sustainable Planet, Melbourne, Australia, 28 June - 7 July.
- 2011 **Price RM**, G †Koch; X **Zapata-Rios, Brackish groundwater discharge to the coastal wetlands of the Florida Everglades and its influence on surface water chemistry and ecosystem metabolism, Coastal Estuarine Research Federation (CERF) Societies, Estuaries and Coasts: Adapting to Change, Ocean Center • Daytona Beach, FL, November 6-10.
- 2011 †Stalker, J, **RPrice**, V Rivera-Monroy, J Herrera-Silveira, S Morales. Hydrologic dynamics of a subtropical estuary, using geochemical tracers, Celestun, Yucatan, Mexico, Coastal Estuarine Research Federation (CERF) Societies, Estuaries and Coasts: Adapting to Change, Ocean Center • Daytona Beach, FL, November 6-10.
- 2010 **Price, RM**, PL †Sullivan, X **Zapata-Rios, The effects of hydro-biogeochemical processes on groundwater chemistry including nutrient concentrations in an oligotrophic wetland: Examples from the Florida Everglades. AGU Meeting of The Americas, Foz do Iguaçu, Brazil, August, 8-12.

- 2010 *Neira, N, FA *Matthews, D †Lagomasino, **RM. Price**, Major ion Chemistry of Shark River Slough, Everglades National Park AGU 2010 Fall Meeting in San Francisco, Dec.
- 2010 †Sullivan, PL, **RM Price**, FR Miralles-Wilhelm, MS Ross, LJ Scinto, E Cline, TW Dreschel, and FH Sklar, Precipitation and groundwater evapotranspiration as hydraulic drivers of nutrient and ion accumulation in Everglades' tree islands, Florida. AGU 2010 Fall Meeting in San Francisco, Dec.
- 2010 †Lagomasino, D, P Campbell, and **RM Price**, Seasonal spectral dynamics and carbon fluxes at core EOS sites using EO-1 Hyperion images. AGU 2010 Fall Meeting in San Francisco, Dec.
- 2010 ††Saha, AK, **RM Price**, H Fitz, and V Engel, A 2002-2008 hydrological budget and phosphorus residence times for Shark River Slough, ENP. AGU 2010 Fall Meeting in San Francisco, Dec.
- 2010 **Price, RM**, and X **Zapata-Ríos, Groundwater-Surface Water Interactions in Taylor Slough – Everglades National Park, Greater Everglades Ecosystem and Restoration (GEER) 2010 Conference, Naples, FL July 12-16.
- 2010 Jaffé, R, Y Yamashita, M Chen, N Maie, L Scinto, J Boyer and **RM Price** Characterizing the Dynamics of Dissolved Organic Matter (DOM) in the Greater Everglades Ecosystem: Assessment of Spatial and Temporal Variability and Reactivity, Greater Everglades Ecosystem and Restoration (GEER) 2010 Conference, Naples, FL July 12-16.
- 2010 ††Saha, A, **RM Price**, and V Engel. Development of a Hydrological Budget for Shark River Slough, Everglades National Park for the Period 2002-2008, Greater Everglades Ecosystem and Restoration (GEER) 2010 Conference, Naples, FL July 12-16.
- 2010 Guvanasen, V, XWei1, D Huang, D Shinde and **R Price**, Simulation of Water Flow and Phosphorous Transport in a Highly Interactive Surface Water Groundwater System in the Series of S-332 Detention Basins Upstream of Taylor Slough, Everglades National Park, Greater Everglades Ecosystem and Restoration (GEER) 2010 Conference, Naples, FL July 12-16.
- 2010 †Sullivan, PL and **RM. Price**, Hydrodynamics of Recently Planted Tree Islands: Implications for Shallow Groundwater Nutrient and Ion Concentrations, Greater Everglades Ecosystem and Restoration (GEER) 2010 Conference, Naples, FL July 12-16.
- 2009 Smith, CG, Swarzenski, PW, **Price, RM**, and †Stalker, JC. Behavior of select trace elements and nutrients across a large carbonate dispersive mixing zone. GSA Annual Meeting, Portland, October 18-21.
- 2009 †Stalker, JC, **RM Price**, Rivera, VH, Silvia-Herrera, J and Morales, S. Determining hydrological inputs to a subtropical estuary using geochemical tracers, Celestún, Yucatán, Mexico, GSA Annual Meeting, Portland, October 18-21.
- 2008 †Sullivan, P and **Price, R** Seasonal Variations in Tree Island Hydrology at Loxahatchee Impound Landscape Assessment (LILA), GEER 2008 Conference and Abstracts.
- 2008 **Price, RM**, ††Jolicoeur, JL, †Stalker, JC, Geochemistry of phosphorus in a carbonate aquifer affected by seawater intrusion. 20th SWIM, Naples, FL., June 24.

- 2008 †Walsh, VM, and **Price, RM** Tracing vertical and horizontal migration of injected fresh wastewater into a deep saline aquifer using natural chemical tracers, 20th SWIM, Naples, FL., June 23.
- 2008 Swart, PK, **Price, RM**, Fifteen Years of Stable Oxygen, Hydrogen, and Carbon Isotopic Data from the Surface Waters in South Florida, AGU 2008 Joint Assembly, Ft. Lauderdale, FL, May 29.
- 2008 *DiFrenna, V J, **RM Price**, MR Savabi Identification of a Hydrodynamic Threshold in Karst Rocks from the Biscayne Aquifer, South Florida, USA, AGU 2008 Joint Assembly, Ft. Lauderdale, FL, May 28.
- 2008 †W Virginia, **R Price**, Geochemical Differentiation of Injected Freshwater Vertical and Horizontal Flow Through Deep Saline Water Karst Aquifers AGU 2008 Joint Assembly, Ft. Lauderdale, FL, May 28.
- 2008 †Sullivan, PL, **Price, R M**, Seasonally Driven Groundwater Recharge by Everglades Surface Water as Indicated by Temperature, AGU 2008 Joint Assembly, Ft. Lauderdale, FL, May 28.
- 2008 †Sullivan, P.L., **Price, RM**, Scinto, LJ, Ross, MS, Cline, E, Dreschel., TW, Sklar, F. Groundwater –surface water interactions in tree islands at Loxahatchee impound landscape assessment (LILA), Florida ASLO/AGU/TOS/ERF 2008 Ocean Sciences Meeting, Orlando FL, March 3.
- 2008 **Price, RM**, †Stalker, JC, ††Jolicoeur, JL, Smith III, TJ, Anderson, GH, Engel, V, Rudnick, DT, Newman, JM, Groundwater inputs of nutrients to coastal zones of south Florida, ASLO/AGU/TOS/ERF 2008 Ocean Sciences Meeting, Orlando FL, March 3.
- 2008 †Stalker, JC, **Price, RM**, Swart, PK. Spatial and temporal inputs of freshwater and submarine groundwater discharge to a subtropical estuary using geochemical tracers, Biscayne Bay, South Florida, ASLO/AGU/TOS/ERF 2008 Ocean Sciences Meeting, Orlando FL, March 3.
- 2008 ††Jolicoeur, JL, **Price, RM**, Savabi, RM, Adsorption/desorption of phosphorus on limestone from the Biscayne Aquifer under freshwater and seawater conditions, ASLO/AGU/TOS/ERF 2008 Ocean Sciences Meeting, Orlando FL, March 3.
- 2008 **Price, RM**. and V Engel. FCE Hydrology Working Group, FCE LTER All Scientists Meeting, Fairchild Tropical Botanic Garden, Coral Gables, FL March 18.
- 2008 Chen, M., **Price, R**, Jaffé, R. Assessing the Sources and Transformations of Dissolved Organic Matter in the Florida Coastal Everglades, FCE LTER All Scientists Meeting, Fairchild Tropical Botanic Garden, Coral Gables, FL March 18.
- 2008 * Màrquez, T, **R Price**, †J Jolicoeur. Phosphorus Content of the Biscayne Aquifer Limestone. FCE LTER All Scientists Meeting, Fairchild Tropical Botanic Garden, Coral Gables, FL March 18.

GRANT PROPOSALS

Funded Research: Funding while at FIU: Lead PI: \$2.7M; Co-PI: \$26.3M

1. Crowl, Jaffe, **Price**, Chen, Kramer. Center for Aquatic Chemistry and the Environment (CREST), NSF. April 15, 2016 to March-31, 2021. **\$5,000,000.**
2. **Price**, Fourqurean, Whitman, Frankovich. ENP Eco Hydrology Monitoring, SFMWD, May 6 2016 – Dec.31, 2016. **\$89,367.**

3. Scinto, **Price**, Thomas, Fugate. Settling and entrainment properties of STA particulates, SFWMD. 3-67-16 to 10-30-2017. **\$235,000.**
4. **Price**, Assessment of water and constituent transport in the L31N canal following two hydraulic alterations to flow within and to the Everglades National Park, Oct. 1, 2014– Sept. 30, 2016. **\$100,000.**
5. **Price**, Whitman, Fourqurean, and Frankovich. Hydrological Conditions of Mangrove Lakes Region of Everglades National Park. SFWWMD. July 1, 2013 – Sept. 30, 2016. **\$325,425.**
6. Co-PIs, Scinto, **Price**, Ross Loxahatchee Impoundment Landscape Assessment (LILA) Tree Island, Ridge, Slough Studies and Site Management. SFWMD. Oct 1, 2013 – Sept. 30, 2016. **\$510,000**, my portion: \$170,000.
7. Co-PIs, Scinto, **Price**, Ross. LILA (Loxahatchee Impoundment Landscape Assessment) Tree Island, Ridge and Slough Studies, South Florida Water Management District (SFWMD) Oct. 2012-Sept 2013, **\$49,961.84**, My portion: \$14,301.
8. Co-PIs, Gaiser, **Price**, Heithaus, Ogden, Jaffee. NSF-FCE-LTER Supplement, **\$79,999**, My Portion: \$5,000.
9. Co-PIs, Gaiser, **Price**, Heithaus, Ogden, Jaffee NSF- Long Term Ecological Research- Florida Coastal Everglades III- PIs, Gaiser, Price, Heithaus, Ogden, Jaffee, Jan. 2013 – Nov. 2019, **\$5,879,998**. My portion: \$210,746.
10. Co-PIs, Hollandar, Odgen, Ross, National Science Foundation (NSF) ULTRA-EX: Double Exposures: Socio-ecological Vulnerabilities in the Miami-Dade Urban Region, Nov. 2009 – Nov. 2011, **\$221,042**, my portion as a collaborator: \$5,000.
11. **Price**, Hydrologic Data Collection and Analysis in and near Everglades National Park, National Park Service (NPS) Sept. 2004 – Sept. 2013, **\$1,845,455.**
12. Co-PIs, Scinto, **Price**, Ross Loxahatchee Impoundment Landscape Assessment (LILA) Tree Island, Ridge, Slough Studies and Site Management. SFWMD. June 1, 2009 – Dec. 23, 2012. **\$699,999**, my portion: \$179,000.
13. **Price**, Stalker, MacFarlane, Characterization and Identification of waters from FPL's Turkey Point Cooling Canals in surrounding groundwater and surface water: SFWMD Mar.– Sept. 2009: **\$21,307.**
14. Co-PIs. Miralles-Wilhelm, DeAngelis, Fuentes, Fuller, Garcia, Melesse, **Price**, Potts, Rodriguez-Iturbe, Wdowinski. WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space. NASA. Oct. 2008-Sept. 2014. Project Budget: **\$5M**, my portion: \$512,957.
15. **Price**, A geochemical investigation of groundwater-surface water interactions at LILA, SFWMD. Oct. 1, 2007 – Oct. 1-2008: **\$19,279**; Oct. 2008 – Sept. 2009: **\$24,000.**
16. **Price**, Smith, Engle, Determining Nutrient Concentrations in Groundwater Along the Mangrove Ecotone Region of Shark River Slough, SFWMD, Aug. 07- Dec. 07, **\$17,220.**
17. **Price**, Determining Nutrient Concentrations in Groundwater Beneath Florida Bay, South Florida Water Management District (SFWMD), June 2007 – Feb. 2008, **\$45,650.**
18. **Price**, A physical investigation of groundwater-surface water interactions at Loxahatchee Impoundment Landscape Assessment (LILA), SFWMD, Jul. 2007-Jul. 2009, **\$49,944.**

19. Co-PIs, Childers, Gaiser, Heithaus, Jaffe, **Price**. Long Term Ecological Research (LTER) Florida Coastal Everglades (FCE) II, National Science Foundation (NSF), Jan. 2007 – Nov. 2012, Total: **\$4,920,000**, My portion: \$360,000.
20. **Price**, Phosphorus concentrations in Limestone from the Biscayne Aquifer, Southeast Environmental Research Center (SERC) Foundation Grant, Dec. 2006 – Dec. 2007, **\$5,000**.
21. **Price**, Geochemical Study of the South District Wastewater Treatment Plant, Miami-Dade Water and Sewer Authority-October 2005-December 2006, **\$16,885**.
22. **Price**, Investigation of groundwater flow into Biscayne National Park, Biscayne National Park subcontract through University of Miami with funding from the National Park Service, Biscayne National Park, October 2005-September 2006: **\$18,525**.
23. Co-PIs, Gaiser, **Price**, Scinto, and Trexler, Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park. National Park Service, August 2005-July 2008, Total: **\$418,380**, My Portion: \$103,036.
24. Co-PIs, Scinto, **Price**, and Ross. Loxahatchee Impoundment Landscape assessment (LILA) tree island experiments and site management, SFWMD, May 1, 2005 - Sept. 1, 2008, Total: **\$460,000**, My portion: \$61,452.
25. Co-PIs **Price** and Swart, Using Natural Chemical Tracers to Evaluate Point-Source and Non-Point Sources of Freshwater Inputs to Biscayne Bay. Florida Seagrant- Feb. 1, 2004- Jan. 31, 2006. Total: **\$150,000**, My portion: \$90,000.
26. **Price**, Measuring Nutrient Concentrations in Groundwater Discharge to the Southern Everglades, FIU Foundation, Inc, Summer 2003, **\$5,000**.
27. **Price**, Measuring Nutrient Concentrations in Groundwater Discharge to the Southern Everglades, FIU College of Arts & Sciences, Summer Research Program., Summer 2003, **\$4,000**.
28. **Price**, SFERPM 2000 Estimating Evaporation Rates in Florida Bay. Subcontract with University of Miami with funding from NOAA-South Florida Ecosystem Restoration, Prediction, and Modeling Program. Summer 2002, **\$18,217**.

PROFESSIONAL HONORS

FIU Top Scholar for Significant Publication 2015

Visiting Scholar of the Oceans Institute of The University of Western Australia 2011

Awarded Sabbatical leave from FIU in Spring 2011

Awarded the Smith Prize for outstanding dissertation completed at UM-RSMAS in 2001

Outstanding Student Paper Award, Hydrology Section, American Geophysical Union,
Spring 2000

Offices Held In Professional Societies

Associate Editor of Applied Geochemistry Journal 2005-2015

Review Editor for Frontiers in Marine Biogeochemistry 2014-Present

Convener and Organizer of Special Sessions at the following Scientific Meetings:

1. AGU Meeting of Americas, in Cancun, Mexico May 14-17, 2013. "*Wetland Dynamics and Ecohydrology*"

2. 9th INTECOL International Wetlands Conference: June 3-8, 2012. Orlando, Florida. *"Self-organized Landscapes: Coastal Wetlands"*
3. Coastal and Estuarine Research Federation (CERF) Conference, Nov. 2011 in Daytona, FL. *"Groundwater-Surface Water Exchange of Water and Constituents along Coastlines"*
4. Karst Waters Institute, Palma de Mallorca, Spain, Nov. 17-20, 2009. *"Anchialine ecosystems: Reflection and prospects"*
5. AGU 2008 Joint Assembly, Ft. Lauderdale, FL, 27-30 May 2008. "Advances in Understanding Groundwater Flow in Karst Systems"
6. 20th Salt Water Intrusion Meeting (SWIM), Naples, FL, June 22-27, 2008. Organized a field trip to the Everglades.
7. GSA Annual Meeting 2005. "Interactions of Groundwater and surface water at the Land-Sea Margin".

Member of Advisory Boards/Workshops:

1. Member of the National Research Council (NRC) Water Science and Technology Board, tasked to review and evaluate the Corps of Engineers' Aquifer Storage and Recovery (ASR) Regional Study Technical Data Report (TDR) prepared in cooperation with the South Florida Water Management District (SFWMD).
2. "Recommendations for Everglades Restoration under a Future Climate Scenario"--A USGS, CES and Florida Sea Grant sponsored event held at Florida Atlantic University, Ft. Lauderdale, FL April 28-29, 2014.
3. "Carbon Workshop"- sponsored by the Florida Coastal Everglades-LTER, Miami, FL, March 12, 2014.
4. "Regional Evapotranspiration in the Everglades" FIU main campus, June 27, 2013.
5. "Land-Ocean Connectivity Workshop"- a Gordon-like workshop in Brest, France, September 2012.
6. "Developing an LTER Platform for Socio-Ecohydrological Research in North America" held at the Chamela Field Station, Jalisco, Mexico October 8 - 13, 2012.
7. "Developing a Sea Level Rise Vulnerability Framework for South Florida: Indicators, Metrics and Models." Joint FAU/FIU/USGS Workshop. June 2, 2010.
8. "Everglades National Park's Tamiami Trail Modifications: Next Steps Project", sponsored by Everglades National Park, June 24, 2010.
9. "Biscayne Bay Water Chemistry and Modeling" workshop on January 14, 2010 Sponsored by Biscayne Bay National Park and FIU.
10. "Ghost-Tree Island" workshop in June 2009 sponsored by the SFWMD
11. "Global Climate Change on Everglades Ecosystem" at SFWMD on Oct. 30, 2009

Professional Affiliations and Accreditations

Florida Professional Geologist
 American Geophysical Union
 Geological Society of America
 National Ground Water Association
 International Association of Geochemistry
 International Association of Hydrogeologists

Coastal and Estuarine Research Federation
Florida Climate Institute

Proposal Reviews

National Science Foundation, Puerto Rico Seagrant, Louisiana Seagrant, North Carolina Seagrant, National Institutes for Water Resources, German Israel Foundation for Scientific Research and Development, Israel Science Foundation, American Chemical Society Petroleum Research Fund

Reviews for Journal Manuscripts

Geological Society of America, Geology, Journal of Hydrology, Hydrogeology Journal Water Resources Research, Geophysical Research Letters, Hydrobiologia Journal of Sedimentology, Bulletin of Marine Science, Ground Water Journal Environmental Science & Technology, Estuaries and Coasts, Wetlands

Public Service since 2008

- Member of the FIU & City of Miami Beach Sea Level Rise Partnership
- Invited to the Earth Day Hearing on Climate Change, Sea Level Rise, and Florida hosted by U.S. Senator Bill Nelson- Tue, Apr 22, 2014.
- Science Advisor to the Loxahatchee Impound Landscape Assessment Coordination Committee 2006-present
- Science Advisor to the Biscayne Bay Regional Restoration Coordination Team (BBRRCT) 2013.
- Interviewed for WPBT2 ISSUES: King Tide: FIU Students Study Sea Level Rise
- Interviewed for an article on the Florida Bay Lakes Hydrology Project in the Keys Florida Keys Newspaper: The Citizen. Title: "Study to look at improved water flow" published: 09/18/2013
- Interviewed for an article published in the Key Biscayne Times. Title: "Raise a Glass to the River of Grass" published 02/05/2014.
- Expert witness for the SFWMD on the FPL-Turkey point cooling canals

Service to University since 2008

- Sabbatical Leave Committee (2013-2014)
- Faculty Senator (Spring 2012, Spring 2013, 2013-2015)
- Alternate Faculty Senator (Fall 2011, Fall 2012)
- Faculty Senate Research, Scholarship, Creative Activities, and Engagement Committee 2014-2015
- Special Presenter to FIU Board of Trustees on Sea Level Rise, June 3, 2014
- Panelist for the 4th Annual FIU Women Faculty Leadership Institute. May 6, 2014.
- Participated in the FIU Mentor/Mentee Summer Planning Workshop, April 23, 2014
- Invited by Mark B. Rosenberg, president of FIU, to attend a reception and discussion with John Englander, to discuss his book, High Tide on Main Street, April 17, 2014.
- Member of FIU's Florida Coastal Resilience and Adaptation Group
- Member of "Eyes on the Rise" Advisory Panel

- Participated in the FIU Community Leaders Summit hosted by President Rosenberg on the MMC campus on Oct. 5, 2010.

Service to College/Department since 2008

- Chair (August 2016-Present)
- Interim Chair (Jan – August 2015)
- Member of SERC Advisory Committee (2012-2014)
- Member of College of Arts & Sciences, Faculty Development Committee
- Faculty Mentor to Assistant Faculty in the Departments of Earth and Environment (E&E), Psychology, Biology and History
- Advisor to College of Arts and Sciences Faculty Mentoring Advisory Board (2011-2012)
- E&E Recruitment Committee for Environmental Policy Hire (2011-2012)
- E&E Graduate Committee (2008-2012; 2013-2014)
- E&E Undergraduate Committee (2007-2008)

TEACHING ACTIVITIES AT FIU

Graduate courses

GLY 5827: Hydrogeology	2002, 2004, 2005, 2008, 2009, 2014
GLY 6061: Geoscience Systems	2014, 2016 (co-taught)
GLY 6896: Advanced Topics in Hydrology	2003, 2005, 2013
GLY 5931: Graduate Student Seminar	2002, 2012, 2013
GLY 6931: Advanced Graduate Student Seminar	2003, 2012, 2013
GLY 5245: Water-Rock Interactions	2005, 2007, 2009, 2010, 2013
GLY 5159: Planet Earth: South Florida	2005- 2010, 2012, 2014
GLY 5786: Advanced Geology Field Excursion	2013 (co-taught)
GLY 6910: Supervised Research	2002-2014
GLY 7980: Ph.D. Dissertation	2004-2014
GLY 6971: Thesis	2003-2013

Undergraduate courses

GLY 4822: Introduction to Hydrogeology	2003, 2004, 2010, 2012, 2014
GLY 3820: Applied Hydrogeology	2004, 2005, 2006
OCE 3014 Oceanography	2006, 2007
GLY 4910: Undergraduate Research	2002, 2003, 2005, 2006, 2010-2013
GLY 3782: Geology Field Excursion	2013, 2017 (co-taught)

Graduate Student Advising as Major Advisor

1. Vincent Difrenna, M.S. Geosciences, 2002-2005, "Effect of scaling on hydraulic conductivity in a karst aquifer".
2. Xavier Zapata-Rios, M.S. Geosciences, 2007- 2009, "*Groundwater/Surface water Interactions in Taylor Slough-Everglades National Park*".
3. Estefania Sandoval, M.S. Geosciences, 2010-2013, "Ten year study of water flushing times and water quality in Southern Taylor Slough, Everglades National Park, FL, USA".

4. Edward Linden, M.S. Geosciences, 2013 – present, Hydrologic controls of coastal groundwater discharge in Taylor Slough, Everglades National Park”.
5. Virginia Walsh, Ph.D. Geosciences, 2003-2012, “Geochemical determination of the fate and transport of injected fresh wastewater into a deep saline aquifer”.
6. Jeremy Stalker, Ph.D. Geosciences, 2004-2008, “Groundwater Dynamics in a coastal aquifer an adjacent marine estuary, Biscayne Bay, South FL”.
7. Pamela Sullivan, Ph.D. Geosciences, 2007-2011, “Investigation of groundwater-surface water interactions in tree islands at Loxahatchee Impound Landscape Assessment (LILA) and the natural Everglades”.
8. David Lagomasino, Ph.D. Geosciences, 2009-2014, “Ecohydrology, Evapotranspiration and Hydrogeochemistry of Carbonate Mangrove Wetlands”.
9. Joshua Allen, Ph.D. Geosciences, 2014-present, “Evidence of Groundwater Discharge to Surface Waters Across Everglades National Park”
10. Andres Prieto, M.S. Geosciences, 2014-present, “Investigating the Potential Accumulation of Carbonate Minerals Induced by Evapotranspiration in Recreated Everglades Tree Islands”.
11. Dillon Reio, M.S. Environmental Studies, 2015-present, “Hydrologic Investigation of the Hole-in-the-Donut Restoration in Everglades National Park”.
12. Kalli Unthank, Ph.D. Geosciences, 2015-present, “Saltwater intrusion along coastal zones”.

As Co-Major Advisor

11. Cristobal Ceron, M.S. Geosciences, 2014, “Operational Actual Wetland Evapotranspiration Estimation for South Florida Using MODIS Imagery”

As Committee Member: 29 Students within FIU; 2 outside FIU

Undergraduate Student Advising: 14 Students

Advised 5 Post Doctoral Researchers: Jeremy Stalker, Jean Jolicoeur, Amartya Saha, Pamela Sullivan, Shimelis Dessu.