

RENÉ MARIE PRICE

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Education

1985 B.S. Geology, Rensselaer Polytechnic Institute, Troy, NY
1988 M.S. Environmental Sciences, University of Virginia, Charlottesville, VA
2001 Ph.D. Marine Geology and Geophysics, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, FL

Professional Employment

1/11 – 7/11 Visiting Scholar-Oceans Institutes-University of Western Australia
2008-Present Associate Professor-Dept. of Earth Sciences and Southeast Environmental Research Center, Florida International University
2001-2008 Assistant Professor-Dept. of Earth Sciences and Southeast Environmental Research Center, Florida International University
1995-2001 Research and Teaching Assistant, University of Miami, RSMAS, MGG
1994-1995 Quality Assurance Officer, Southeast Environmental Research Center, Florida International University, Miami, Florida
1993-1994 Hydrogeologist, ERM-South, Inc. Miami, Florida
1992 Hydrogeologist, Harding Lawson Associates, Novato, California
1988-1992 Hydrogeologist, Environmental Resources Management, Inc. Annapolis, MD
1986 Geologist, Hydrosystems, Inc. Charlottesville, Virginia
1984-1985 Geologist, Goldberg, Zoino, and Associates, Newton Upper Falls, Massachusetts

Teaching Experience: Courses Taught at FIU

Undergraduate Courses

Introduction to Hydrogeology, Applied Hydrogeology of South Florida, Oceanography

Graduate Courses

Hydrogeology (Lecture and Laboratory), Chemical Hydrogeology and Solute Transport, Advanced Topics in Hydrology, Graduate Student Seminar
Advanced Graduate Student Seminar, Water-Rock Interactions
Planet Earth: South Florida Geology and Hydrogeology

Students Supervised: 3 M.S., 4 Ph.D.

Vincent DiFrenna - M.S., Fall 2002 to Fall 2005, “Effect of scaling on hydraulic conductivity in a karst aquifer”
Jeremy Stalker - Ph.D., Fall 2004 to Dec. 2008, “Hydrological dynamics between a coastal aquifer and the adjacent estuarine system, Biscayne Bay, south Florida”
Virginia Walsh - Ph.D., Fall 2003 to Summer 2012, “Determination of Vertical and Horizontal Pathways of Injected Fresh Wastewater into a Deep Saline Aquifer using Natural Chemical Tracers”

Xavier Zapata - M.S. Fall 2007 to Fall 2009, “Groundwater-Surface Water interactions in Taylor Slough, Everglades National Park

Pamella Sullivan - Ph.D. Spring 2007 to Fall 2011, “Groundwater-surface water interactions and nutrient transport in tree islands”

David Lagomasino - Ph.D. Fall 2009 to Present, “Using satellite imagery to estimate evapotranspiration in coastal wetlands”

Estefania Sandoval – M.S. Fall 2010 to Present, “Estimating water flushing times and its effect on surface water chemistry in a coastal wetland”

Served on Graduate Student Committees: 15 M.S. and 15 Ph.D.

Undergraduate Students directly Supervised: 10

International Students Supervised: 2

Post-Docs Supervised: 3; Jean L. Jolicoeur; Jeremy Stalker; Amartya Saha, Pamela Sullivan

Honors and Awards

Invited to attend the “Land-Ocean Connectivity Workshop- a Gordon-like workshop” in Brest, France, September 2012

Invited to attend the workshop on “Developing an LTER Platform for Socio-Ecohydrological Research in North America” in Chamela Field Station, Jalisco, Mexico October 8 – 13, 2012.

Visiting Scholar, Oceans Institute, University of Western Australia, 2011

Awarded Tenure at FIU-Summer 2008

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

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

First Place in Marine Science, UM Graduate Student Research and Creativity Forum, 1999

RSMAS-MGG Graduate Student Fellowship: 1995

Department of Environmental Sciences Graduate Research Grant, University of Virginia: 1986.

Dean's Reserve Award, University of Virginia: 1986.

President of Sigma Gamma Epsilon, University of Virginia Chapter: 1986

Amoco Foundation, Inc. Scholarship, Rensselaer Polytechnic Institute: 1982-1985.

Professional Affiliations and Accreditations

Florida Professional Geologist, American Geophysical Union, Geological Society of America

International Association of Hydrogeologists, International Association of Geochemistry,

Coastal and Estuarine Research Federation

Professional Service

Associate Editor of Applied Geochemistry Journal 2005-Present

Reviewed Proposals for NSF, Seagrant, National Institutes for Water Resources, Israel Science Foundation

Reviewed Papers for Geological Society of America, Journal of Hydrology, Hydrogeology Journal, Geophysical Research Letters, Hydrobiologia, Journal of Sedimentology, Bulletin of Marine Science, Water Resources Research, Ground Water, Estuaries and Coasts, Ecohydrology, Applied Geochemistry

Moderated a special session entitled “Self-organized Landscapes: Coastal Wetlands” at the 9th INTECOL International Wetlands Conference; June 3-8, 2012. Orlando, Florida.

Co-Organizer of a special session entitled: “Groundwater-Surface water Exchange of Water and Constituents along Coastlines” at the Coastal Estuarine Research Federation (CERF)

Societies, Estuaries and Coasts: Adapting to Change 6-10 November 2011 Ocean Center •
Daytona Beach, Florida.

Co-Organizer of the Symposium: “Anchialine Ecosystems: Reflection and Prospects”. Mallorca,
Spain, Nov. 2009.

American Geophysical Unitions (AGU) Spring Meeting 2008 convener of session entitled:
“Advances in Understanding Groundwater Flow in Karst Systems”.

Geological Society of America (GSAA Annual Meeting 2005 convener of session entitled:
“Interactions of Groundwater and surface water at the Land-Sea Margin”.

Funding

Funding while at FIU: My portion; \$3.6M of \$19.9M as a Co-PI

LILA (Loxahatchee Impoundment Landscape Assessment) Tree Island, Ridge and Slough
Studies, PIs, Scinto, Price, Ross, Oct. 2012-Sept 2013, \$49,961.84, My portion: **\$14,301.**
NSF-FCE-LTER Supplement, PIs, Gaiser, Price, Heithaus, Ogden, Jaffee, \$79,999, My Portion:
\$5,000.

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.**

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: **\$5,000.**

National Park Service (NPS)-Hydrologic Data Collection and Analysis in and near Everglades
National Park, Sept. 2004 – Sept. 2013, **\$1,845,455**

South Florida Water Management District (SFWMD)-Loxahatchee Impoundment Landscape
Assessment (LILA) Tree Island, Ridge, Slough Studies and Site Management. PIs. Scinto,
Ross and Price. June 1, 2009 – Dec. 23, 2012. \$699,999, my portion: **\$179,000**

SFWMD – Characterization and Identification of waters from FPL’s Turkey Point Cooling
Canals in surrounding groundwater and surface water: Mar. 09 – Sept. 09: **\$21,307.**

NASA-WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space. PIs.
Miralles-Wilhelm, DeAngelis, Fuentes, Fuller, Garcia, Melesse, Price, Potts, Rodriguez-
Iturbe, Wdowski. Oct. 2008-Sept. 2013. Project Budget: \$5M, my portion: **\$512,957**

SFWMD) – A geochemical investigation of groundwater-surface water interactions at LILA, Oct.
1, 2007 – Oct. 1-2008: **\$19,279**; Oct. 2008 – Sept. 2009: **\$24,000**

SFWMD – Determining Nutrient Concentrations in Groundwater Along the Mangrove Ecotone
Region of Shark River Slough-Aug. 2007-Dec. 2007: **\$17,219**

SFWMD- Determining Nutrient Concentrations in Groundwater Beneath Florida Bay- June 2007
– June. 2008, **\$45,650**

SFWMD – A physical investigation of groundwater-surface water interactions at Loxahatchee
Impoundment Landscape Assessment (LILA), Jul. 2007-Jul. 2009, **\$49,944**

NSF- Long Term Ecological Research-Florida Coastal Everglades II- PIs, Gaiser, **Price,**
Heithaus, Ogden, Jaffee, Jan. 2007 – Nov. 2012, \$4,920,000. My portion: **\$360,000**

Southeast Environmental Research Center (SERC) Foundation Grant - Phosphorus
concentrations in Limestone from the Biscayne Aquifer. Dec. 2006 – Dec. 2007, **\$5,000.**

Miami-Dade Water and Sewer Authority-Geochemical Study of the South District Wastewater
Treatment Plant, October 2005-December 2006: **\$16,855**

NPS-Biscayne National Park-Investigation of groundwater flow into Biscayne National Park,
subcontract to Univ. of Miami, October 2005-September 2006: **\$18,525**

NPS-Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park. PIs, Gaiser, **Price**, Scinto, and Trexler, August 2005-July 2008: \$420,000. My Portion: **\$103,000**

SFWMD- Loxahatchee Impoundment Landscape assessment (LILA_ tree island experiments and site management, PIs, Scinto, **Price**, and Ross, May 1, 2005 - Sept. 1, 2008: \$460,000. My portion: **\$61,500**

Florida Seagrant-Using Natural Chemical Tracers to Evaluate Point-Source and Non-Point Sources of Freshwater Inputs to Biscayne Bay. Feb. 1, 2004- Jan. 31, 2006. PIs **Price** and Swart; \$150,000. My portion: **\$90,000**

FIU Foundation, Inc. Measuring Nutrient Concentrations in Groundwater Discharge to the Southern Everglades, Summer 2003. **\$5,000**

FIU College of Arts & Sciences, Summer Research Program. Measuring Nutrient Concentrations in Groundwater Discharge to the Southern Everglades, Summer 2003. **\$4,000**

NOAA-South Florida Ecosystem Restoration, Prediction, and Modeling Program. SFERPM 2000 Estimating Evaporation Rates in Florida Bay. **\$18,000**

Publications in Review (*Denotes my Student)

- *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). Wetlands.
- *Stalker, JC, D Whitman, and **RM Price**. Case Study: Direct Current Resistivity Imaging of Saltwater Intrusion in the Karstic Biscayne Aquifer, Miami-Dade County, Florida, USA. Groundwater.
- *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.
- Blanco, RI, GM Naja, R Rivero and RM Price. Spatial and temporal changes in groundwater salinity in south Florida. Applied Geochemistry.
- Haigh ID, C. Pattiaratchi, T. Wahl, and RM Price. Timescales for detecting a significant acceleration in sea-level rise. Nature Climate Change.

Publications in Press and Published (*Denotes my Student; **Denotes my Post Doc)

- 2012 **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, In Press.
- 2012 *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, DOI:10.1002/hyp.95752102
- 2012 *Zapata-Rios, X. and **RM Price**. Estimates of groundwater discharge to a coastal wetland using multiple techniques: Taylor Slough, Everglades National Park. Hydrogeology Journal, 10.1007/s10040-012-0907-6.
- 2012 **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 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): 292-30.
- 2011 **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 Wetzel, 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 River-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 Mehot, 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 *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.
- 2010 Stoffella, SL, MS Ross, JP Sah, **RM Price**, PL Sullivan, EA Cline & LJ Scinto. 2010. *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 **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 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 *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): 1027-1042.2009
- 2009 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 *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 Chin, DA, **RM Price**, and VJ DiFrenna, *Nonlinear Flow in Karst Formations*, *Ground Water*, 47(5): 669-674.
- 2008 **Price, RM**, PK Swart, and HE Willoughby, *Seasonal and spatial variation in the stable isotopic composition ($\delta^{18}O$ and δD) of precipitation in south Florida*. *Journal of Hydrology*, 358: 193-205. doi:10.1016/j.jhydrol.2008.06.003.

- 2008 *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. *Corresponding author.
- 2007 **Price, RM**, WK Nuttle, BJ Cosby, and PK Swart. *Variation and Uncertainty in Evaporation from a Subtropical Estuary: Florida Bay*, *Estuaries and Coasts*. 30(3):497-506.
- 2006 **Price, RM**, and PK 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 **Price, RM**, PK Swart, and JW 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.
- 2003 **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 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.
- 2002 PK Swart and **RM Price**. *Origin of Salinity Variations in Florida Bay*. *Limnology and Oceanography*, 47(4):1234-1241.
- 2001 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.
- 1991 **Price, RM** and JS Herman. *Geochemical Investigation of Salt Water Intrusion into a Coastal Carbonate Aquifer: Mallorca, Spain*. *Geological Society of America Bulletin*, Vol. 103: No. 10, pp. 1270-1279.

Publications in Conference Proceedings

- 2011 Varut Guvanassen, Xinyu Wei, Deyang Huang, Dilip Shinde, and René M. 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.
- 2010 Guvanassen, 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.
- 2008 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.
- 2007 JM Stiefel, AM 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.

Thesis and Dissertation

- Price, RM, *Geochemical Investigation of Salt Water Intrusion Along the Coast of Mallorca, Spain*, M.S. Thesis, University of Virginia, 186 pp, 1988.
- Price, RM, *Geochemical Investigation of groundwater and surface water flow in Everglades National Park*, Ph.D. Dissertation, University of Miami, 307 pp., 2001.

Government Reports

- 2010 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.
- 2009 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 René Price and Pamela Sullivan, Nov. 29, 2009, 56pp.
- 2009 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
- 2009 Loaxahatchee Impoundment Landscape Assessment (LILA): Tree Island Experiments and Management- May 1, 2005 to September 4, 2009, Final Report, Leonard J. Scinto, René M. Price and Mike Ross, Aug 17, 2009, 117 pp.
- 2009 A physical investigation of groundwater-surface water interaction at Loxahatchee Impound Landscape Assessment (LILA), Final Report, René M. Price, and Pamela Sullivan, July 30, 2009, 36 pp.
- 2008 A geochemical investigation of groundwater-surface water interactions at LILA- Final Report Submitted to SFWMD, by René Price and Pamela Sullivan, Sept. 20, 2008, 33pp.
- 2008 Determining Nutrient concentrations in Groundwater beneath Florida Bay, Final Report Submitted to SFWMD, by René Price, Dec. 16, 2008, 24pp
- 2008 A physical investigation of groundwater-surface water interaction at Loxahatchee Impound Landscape Assessment (LILA), Annual Report Submitted to SFWMD, by René Price and Pamela Sullivan, Dec. 16, 2008, 21pp.
- 2008 Loxahatchee Impoundment Landscape Assessment (LILA):Tree Island Experiments and Management, Fourth Annual Report, Leonard J. Scinto René Price and Mike Ross, Dec. 19, 2008, 67 pp.
- 2008 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 Evelyn Gaiser René Price, Leonard Scinto and Joel Trexler, 102 pp.
- 2007 Stalker, J.C., RM Price, Investigation of Groundwater Flow into Biscayne National Park, Report compiled for the United States Department of the Interior, Biscayne National Park and South Florida/Caribbean CESU.
- 2006 Stalker, J.C., RM Price, and, P. K. Swart, Using Natural Chemical Tracers to Evaluate

- Point and non-Point sources of freshwater inputs into Biscayne Bay, Final Report Florida Seagrass project No. R/C-E-51.
- 2004 Swart, P.K. and RM Price. *C-15877, Biscayne Bay Paleoecological Salinity Study*, submitted by University of Miami/RSMAS to South Florida Water Management District.
- 2000 Price, RM and P.K. Swart. *Geochemical Determinations of Groundwater Flow in Everglades National Park. Draft-Annual Status Report No. 2*. Submitted by University of Miami/RSMAS to the South Florida Water Management District.
- 1998 Price, RM and P.K. Swart. *Geochemical Determinations of Groundwater Flow in Everglades National Park. Final-Annual Status Report No. 1*. Submitted by University of Miami/RSMAS to the South Florida Water Management District.
- 1993 Price, RM, R.W. Keating, R.P. Morgan II. *First Annual Post-liming Monitoring Report for the Western Maryland Watershed Liming Pilot Study*. Prepared by ERM, Inc. and University of Maryland Appalachian Environmental Laboratory for the Maryland Department of Natural Resources Tidewater Administration, Chesapeake Bay Research and Monitoring Division. CBRM-AD-93-9.
- 1991 Price, RM and R.W. Keating. *Assessment of Water Quality Impacts from the Faulkner Fly Ash Facility*. Prepared by ERM, Inc. for the Maryland Department of Natural Resources Power Plant and Environmental Review Division. PPER-MP-59.
- 1989 Bartoshesky, J., RM Price, and J. DeMuro. *Mitigation of Acid Deposition: Liming of Surface Waters*. Prepared by ERM, Inc. for the Maryland Department of Natural Resources Power Plant and Environmental Review Division. AD-89-4.
- 1989 Price, RM and D. Collins. *Potential Effects of Herbicide Use on Ground Water Quality Along Maryland's Transmission Line Corridors*. Prepared by ERM, Inc. for the Maryland Department of Natural Resources Power Plant and Environmental Review Division.

Presentations

Invited Presentations

- 2012 Sustainability of Coastal Resources: Sealevel Rise and Coastal Forests, 2012 LTER Science Council Meeting, H.J. Andrews Forest, May 16-17.
- 2011 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 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 The use of H and O stable isotopes to identify sources of water in hypersaline estuaries, SERC Seminar, FIU, Sept. 14.
- 2011 Identifying the sources of water in hypersaline estuaries: examples from Western Australia, Environmental Studies Seminar, FIU, Oct. 19.
- 2011 Methods to determine groundwater discharge to coastlines, Jacksonville University, Nov. 3.
- 2011 Methods of determining groundwater discharge to coastlines, Northwestern University, Jan. 5.
- 2011 Ecohydrological processes and their effects on groundwater and surface water chemistry in a subtropical wetland, Advances in Hydrology, FIU BBC, Jan. 10.

- 2011 An overview of the Florida Coastal Everglades, University of Western Australia, Perth, Australia, March 2.
- 2009 The geochemistry of nutrients (N, P, C) in seawater mixing zones in carbonate aquifers, Anchialine Ecosystems: Reflection and Prospects. Mallorca, Spain, Nov. 18.
- 2007 *Stable isotopic content of precipitation in south Florida*, Southeast Environmental Research Center, FIU, May 9.
- 2007 *Groundwater Discharge of Phosphorus to Coastal Zones in south Florida*, USGS Center for Coastal & Watershed Studies, St. Petersburg, Florida, March 29.
- 2007 *Groundwater Discharge of Phosphorus to Coastal Zones in south Florida*, Geotopics, RSMAS-MGG, University of Miami, February 26.
- 2006 *Groundwater Discharge of Phosphorus to Coastal Zones in south Florida*, Dept. of Earth Sciences, Seminar Series, FIU, Nov. 3.
- 2005 *Geochemical Investigation of a Coastal Aquifer in South Florida: Constraining the Water Budget*, Department of Geology, William & Mary Geology Department of Geology, February 10.
- 2005 *Nutrient Concentrations in Groundwater Discharge to the Southern Everglades and Florida Bay*, FIU Board of Directors, January 26.
- 2004 *Using geochemistry to determine sources of fresh water to coastal zones*, FIU Environmental Studies Departmental Seminar, Sept. 22.
- 2003 *Groundwater-surface water interactions and seawater intrusion into the southern Everglades*, USGS National Research Program, Water Resources Discipline Research Seminar, Reston, VA, June 11.
- 2000 *Geochemical Investigation of groundwater flow in Everglades National Park*. Oceanography: The Making of a Science: People, Institutions and Discovery. University of Miami-Florida State University, RSMAS Auditorium, Miami, FL. January 20-21.
- 2000 *Investigating groundwater flow in Everglades National Park: A geochemical approach*. FIU, Department of Geology, Miami, FL. March 17.
- 2000 *Investigating groundwater flow in Everglades National Park: A geochemical approach*. Miami Geological Society, University of Miami, Coral Gables, FL. Oct.18.

Other Presentations

- 2012 Price, R.M., 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. 2012.
- 2012 Sandoval, E., Price, R.M., 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.
- 2012 Lagomasino, D., Price, R.M., Campbell, P.K.E. 2012. Seasonal water chemistry and spectral reflectance in coastal mangroves. 9th INTECOL International Wetlands Conference. Orlando, FL. June 2012.
- 2012 Saha, A., Sullivan, P., Lagomasino, D., Price, R.M., 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.

- 2012 Sandoval, E. Price, R.M., 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.
- 2012 Sullivan, P., Price, R.M., Engel, V. and Ross, M.S. 2012. Transpiration as a hydrologic driver of ion and mineral accumulation on tree islands. . 9th INTECOL International Wetlands Conference. Orlando, FL. June 2012.
- 2012 Price, R.M., Pamela L. Sullivan, Michael S. Ross, Leonard J. Scinto, Eric Cline, Thomas Dreschel, and Fred Sklar, 2012. The Role of Groundwater Flow in Everglades Landscape Restoration. . 9th INTECOL International Wetlands Conference. Orlando, FL. June 2012.
- 2011 Lagomasino, D., Campbell, P.K.E., and Price, R.M. 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.
- 2011 Price, R.M, 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 28 June - 7 July 2011, Melbourne, Australia.
- 2011 R. Price, 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 6-10 November 2011 Ocean Center • Daytona Beach, Florida.
- 2011 Stalker, J. R.Price, 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 6-10 November 2011 Ocean Center • Daytona Beach, Florida.
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