

PERSONAL

Curriculum Vitae

Name: Peter Koenraad Swart
<http://mgg.rsmas.miami.edu/faculty/pswart/pswart.htm>

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Home Phone: 305 xxx-xxxx (pswart@rsmas.miami.edu)

Office Phone: 305 421 4103 (FAX 305 421 4632)

Home Address: 2418 Country Club Prado, Miami 33134

Academic Rank: Professor

Department: Marine Geology and Geophysics

Marital Status: Married, two children

Citizenship: United States/Netherlands (British Resident)

Birth Date/Place: August 18, 1954/Den Haag, Netherlands

HIGHER EDUCATION

Institutional

University of Sheffield Western Bank, Sheffield, 10, United Kingdom Natural Environmental Science with Special Honors, **B.Sc.**, 1976.

Carbonate Geochemistry, King's College, Department of Geology, University of London, W.C.2 2LR, **Ph.D.**, United Kingdom 1980.

Certification: Registered Professional Geologist, State Florida.

EXPERIENCE

Postdoctoral Fellowship, University of Cambridge	1980-1983
Postdoctoral Assistant, University of Miami	1983-1984
RSMAS, University of Miami, Research Assistant Professor	1984-1986
RSMAS, University of Miami, Assistant Professor	1986-1988
RSMAS, Marine Geology and Geophysics, Chairman	1990-1993
University of Sussex, Professor of Environmental Science	1994-1994
RSMAS, University of Miami, Associate Professor, RSMAS	1988-1995
RSMAS, Marine Geology and Geophysics, Chairman	1995-1998
RSMAS, MGG, Professor	1995-
Interim Director NCORE	1999-2000
RSMAS, Marine Geology and Geophysics, Chairman	2000-2001

Visiting Professor University of Provence	2006
RSMAS, Marine Geology and Geophysics, Chairman	2007-

Marine Experience

1986	Leg 101 Ocean Drilling Project - inorganic geochemist.
1987-1988	Submersible Dives on Bahamas escarpment.
1987	Leg 115 Ocean Drilling Project - inorganic geochemist.
1988	Black Sea Cruise RV Knorr
1990	Drilling in the Bahamas MV Southern Cross
1990-1991	Research cruises aboard RV Calanus
1990	Leg 133 Ocean Drilling Project - inorganic geochemist
1996	Leg 166 ODP- Co-Chief Scientist
1998	Leg 182 ODP- inorganic geochemist (Oct.- Dec. 1998)
2001	Chief Scientist RV Bellows (Sep.)
2002	Chief Scientist RV Bellows (Sep.)
2002	Chief Scientist RV Suncoaster (Oct-Nov)
2003	Chief Scientist RV Bellows (Oct)
2004	Chief Scientist RV Bellows (Sep)

Funded Research

\$ 5.5 M over the past five years from NSF, NOAA, EPA, and SFWMD.

Editorial Responsibilities

Associate Editor	Journal of Sedimentary Petrology	1990-1993
Associate Editor	Palaeo 3x	1988-Present
Associate Editor	Coral Reefs	1995-2000
Geological Editor	Coral Reefs	2001-2006
Editor	Sedimentology	2006-

Professional and Honorary Organizations

Fellow of the AAAS	2006- Present
Fellow of the Geological Society of London	1977-Present
Fellow of the Geological Society of America	1997-Present
Member of the SEPM	1982-Present
Member of the AGU	1988-Present
Member of the Coral Reef Society	1982-Present
Member of the Geological Society of America	1993-Present
Member of the Geochemical Society	1990-Present

Other Professional Activities

Co-Chair of the Joint Assembly Program AGU	2010-2011
Secretary Paleooceanography Focus Group AGU	2006-2008
Director of the Cooperative Ecosystem Studies Unit	2002-

Ocean Sciences Review Panel for NSF	1992,1993,2008
Program Committee Geochemical Society	2000-2004
Hydrology Planning Committee ODP	1999-2001
Alternate for PCOM	1995-1997
Member of the Planing Committee for ODP	1990
Sedimentary and Geochemical Processes Panel	1990-1994
Organizer AGU Chapman Conference	1993

Consulting Activities

Principal of the Comparative Sedimentology Laboratory 1996-2008
 Funded by 16 Major Oil Companies

Individual Projects

Texaco	1986	Fission Track
Shell Oil	1989-90	Ion Microprobe
Saudi Aramco	1996-1998	Geochemical Study of Arab-D
	1998-2000	Shayba
	2000-2004	Khuff
	2004-2005	Shayba

PUBLICATIONS

Books and Monographs Edited/Published

- 2009 **Swart, P.K.**, Eberli, G.P., and McKenzie, (Ed) *Perspectives in Carbonate Geology: A Tribute to the Career of Robert Nathan Ginsburg*, IAS Special Publication, 41.
- 2003 **Swart, P.K.** and Grottoli, A.(Ed) *Proxy indicators of climate in coral skeletons*, Special Issue of *Coral Reefs*, 22, No. 4.
- 2000 **Swart, P.K.**, Eberli, G.P., Malone, M. et al. (Ed) *Proc. ODP Sci Results.*, 166:College Station, TX (Ocean Drilling Program), 213p.
- 1999 **Swart, P.K.** Results from the Sclerosponge Workshop, Miami 1998 NOAA Workshop Report (NOAA Special Publication No. 12).
- 1997 Eberli, G.P., **Swart, P.K.**, Malone, M. et al. (Ed) *Proc. ODP Init. Repts.*, 166:College Station, TX (Ocean Drilling Program).
- 1993 **Swart, P.K.**, McKenzie, J., Lohmann, K.C., and Savin S.,(Ed) *Continental Isotopic Indicators of Climate*, *AGU Monograph:78*.American Geophysical Union.
- 1980 **Swart, P.K.**, The environmental geochemistry of scleractinian coral skeletons: an experimental study of trace element and stable isotope incorporation. Ph.D. Thesis, University of London.

Juried or Refereed Articles and Exhibitions

Citation Index 2635 (9/14/2009)

H Index 30 (9/14/2009)

G Index 47 (1/9/2009)

2009 (154) Rosenheim, R.E, **Swart, P.K.** and Willenz, P. Calibration of sclerosponges oxygen isotope records to temperature using high-resolution data, *Geochimica et Cosmochimica Acta*, 17, 5308-5319.

(153) Stalker, J., Price, R.M., and **Swart, P.K.** Determining Spatial and Temporal Inputs of Freshwater, Including Groundwater Discharge, to a Subtropical Estuary using Geochemical Tracers, Biscayne Bay, South Florida, *Estuaries*, DOI 10.1007/s12237-009-9155-y

(152) **Swart, P.K.**, Reijmer, J.J.G., Otto, R., Geochemical Facies of Great Bahama Bank, Perspective in Carbonate Geology: A Tribute to the Career of Robert Nathan Ginsburg, IAS Special Publication 41 (**Swart, P.K.** , Eberli, G.P, McKenzie, J Ed), 41: 47-60.

(151) Reijmer J.J., **Swart P.K.**, Roth S., Bauch T., Zechel S., Otto, R. A reevaluation of facies variations on Great Bahama Bank. In: **Swart PK**, Eberli GP, McKenzie JA (eds) Perspectives in Carbonate Geology: A Tribute to the Career of Robert Nathan Ginsburg, IAS Special Publication 41. Blackwell, Oxford, 41: 29-46.

(150) Gischler, E. **Swart, P.K.**, Lomando, A. Stable isotopes of carbon and oxygen in modern sediments of carbonate platforms, barrier reefs, atolls, and ramps: patterns and implications, Perspective in Carbonate Geology: A Tribute to the Career of Robert Nathan Ginsburg, IAS Special Publication 41 (**Swart, P.K.** , Eberli, G.P, McKenzie, J. Ed), 41:61-74.

2008 (149) Oleinik, A., Marincovich, L. Jr., Barinov, K.B., **Swart, P.K.**, Magnitude of Middle Miocene warming in North Pacific high latitudes: stable isotope evidence from Kaneharaia (Bivalve, Dosiniidae), *Bulletin of the Geological Survey of Japan*, 59:39-53.

(148) Price, R.M., **Swart, P.K.** and Willoughby H.E. , Seasonal and spatial variation in the stable isotopic composition (^{18}O and D) of precipitation in south Florida, *Journal of Hydrology*, 358, 193-205.

(147) **Swart, P.K.** Global Synchronous Changes in the Carbon Isotopic Composition of Carbonate Sediments Unrelated to Changes in the Global Carbon Cycle, *Proc Nat. Acad. Sci.*, 37, 13741-13745.

(146) Ehrenberg, S.N., Svana, T.A. and **Swart, P.K.** Uranium depletion across the Permian–Triassic boundary in Middle East carbonates: Signature of oceanic anoxia,

Amer. Assoc. Petrol. Bull., 92:691-707.

(145) Lamb, K. and **Swart, P.K.** The carbon and nitrogen isotopic values of particulate organic material from the Florida Keys: a temporal and spatial study, *Coral Reefs*, 27:351-362.

2007 (144) Katz, D., **Swart, P.K.**, Eberli, G.P. Carbon isotopic variation in the Madison formation Wyoming, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 256, 231-253.

(143) U. G. Wortmann, B. Chernyavsky, S. M. Bernasconi, B. Brunner, M. E. Böttcher, **Swart, P.K.** Oxygen isotope biogeochemistry of pore water sulfate in the deep biosphere: Dominance of isotope exchange reactions with ambient water during microbial sulfate reduction (ODP Site 1130), *Geochimica et Cosmochimica Acta*, 71, 4221-4232.

(142) Rosenheim, B.E., **Swart, P.K.**, Eisenhauer, A. Constraining initial ²³⁰Th activity in Incrementally Deposited Biogenic Aragonite from the Bahamas, *Geochimica et Cosmochimica Acta*, 71, 4025-4035.

(141) Price, R.M., Nuttle, W. and **Swart, P.K.** Variation in evaporation from a subtropical estuary: Florida Bay, *Estuaries*, 30, 1-10.

(140) Rosenheim, B.E. and **Swart, P.K.** Caribbean sclerosponge radiocarbon measurements re-interpreted in terms of U/Th age models, *Nuclear Instruments and Methods B*, 259, 274-278.

2006 (139) Katz, D., Eberli, G.P. **Swart, P.K.**, and L.B. Smith Jr., Tectonic-hydrothermal brecciation associated with calcite precipitation and permeability destruction in Mississippian carbonate reservoirs, Montana and Wyoming, *AAPG Bulletin*, 90, 1803-1841.

(138) Moses C.S., **Swart P.K.**, Dodge R.E. Calibration of stable oxygen isotopes in *Siderastrea radians* (Cnidaria:Scleractinia): Implications for slow-growing corals. *Geochem. Geophys. Geosys.*, 7, Q09007, doi:10.1029/2005GC001196.

(137) Andres, M., Sumner, D.Y., Reid, P., **Swart. P.K.**, Isotopic Fingerprints of Microbial Respiration in Aragonite from Bahamian Stromatolites, *Geology*, 34, 973-976.

(136) Moses, C.M., Rosenheim, B.E. and **Swart, P.K.** Evidence of Multi-decadal salinity variability in the Eastern Tropical Atlantic, *Palaeoceanography*, 21, PA3010, doi10.1029/2005PA001257.

(135) Eakin, M., C., **Swart, P.K.**, Quinn, T.M., Helmle, K.P., Smith, J.P. and Dodge, R.E., Application of palaeoclimatology to coral reef monitoring and management, *Proceedings of the 10th International Coral Reef Symposium*, Okinawa, 588-596.

(134) Moses, C. S. and **Swart, P. K.**, Stable isotope and growth records in corals from the island of Tobago, Not simply a record of the Orinoco, *Proceedings of the 10th*

International Coral Reef Symposium, Okinawa, 508-587.

(133) **Swart, P.K.** Citation for presentation of the 2004 F.W. Clarke award to Andrea Grottoli, *Geochimica Comochimica Acta*,

(132) Price, R. M., **Swart, P. K.** & Fourqurean, J. W., Coastal groundwater discharge - an additional source of phosphorus for the oligotrophic wetlands of the Everglades, In: Interaction of hydrology and nutrients in controlling ecosystem function in oligotrophic coastal environments of South Florida, Ed: Joel C. Trexler, Evelyn E. Gaiser, & Daniel L. Childers, *Hydrobiologia*, 569, 23-36.

(131) Price, R. M., **Swart, P. K.** Geochemical Indicators of Groundwater Recharge in the Surficial Aquifer System: Everglades National Park, Florida, USA, *Geological Society of America Bulletin Special Paper*, 404, 251-266.

(130) Greer, L. and **Swart, P. K.** Decadal Cyclicity of Regional Mid-Holocene Precipitation: Evidence from Dominican Coral Proxies, *Paleoceanography*, 21, PA2020, doi:10.1029/2005PA001166, 2006

2005 (129) Rosenheim, B. E., **P. K. Swart**, et al. Minor and trace elements in sclerosponge *Ceratoporella nicholsoni*: Biogenic aragonite near the inorganic end member *Palaeogeography, Palaeoclimatology, Palaeoecology*, 228, 109-129.

(128) Alvarez Zarikian, C.A., **Swart, P. K.**, Gifford, J. A. and Blackwelder, P.L. Holocene Paleohydrology of Little Salt Spring, Florida, based on ostracod assemblages and stable isotopes. *Palaeogeography, Palaeoecology, Palaeoclimatology*, 225, 134-156.

(127) **Swart, P.K.**, Lamb, K. and Saeid, A., Temporal and Spatial Variation in the ¹⁵N and ¹³C of coral tissue and zooxanthellae in *Montastraea faveolata* collected from the Florida reef tract, *Limnology and Oceanography*, 50, 1049-1058.

(126) **Swart, P.K.** and Eberli, G.P. The Nature of the ¹³C of Periplatform Sediments: Implications for stratigraphy and the global carbon cycle, *Sedimentary Geology*, 175: 115-129.

(125) **Swart, P.K.**, Cantrell, D. Westphall, H., Handford, R. and Kendall, C. Origin of dolomite in the Arab-D reservoir from the Ghawar field, Saudi Arabia: evidence from petrographic and geochemical constraints, *Journal of Sedimentary Research*, 75: 476-491.

(124) Reuning L., Reijmer, J.J.G., Betzler, C., **Swart, P.K.**, and Bauch, T. The use of paleoceanographic proxies in carbonate periplatform settings-opportunities and pitfalls, *Sedimentary Geology*, 175:13-152.

(123) Betzler, C., Saxena, S., **Swart, P.K.** Isern, A. James, N.P. Cool-water carbonate sedimentology and eustacy; Pleistocene upper slope environments, *Sedimentary Geology*, 175: 169-188.

- (122) Rosenheim, B.E. **Swart, P.K.**, Thorrold, S.R., Eisenhauer, A., Willenz, P. Salinity change in the Subtropical Atlantic: Secular increase and teleconnections to the North Atlantic Oscillation, *Geophysical Research Letters*, L02603, doi:10.1029/2004GL021499,2005.
- (121) **Swart, P. K.**, A. Szmant, J. Porter, R. E. Dodge , J. Tougas and J. Southam, The Isotopic Composition of Respired Carbon Dioxide in Scleractinian Corals: Implications for Cycling of Organic Carbon in Corals, *Geochimica et Cosmochimica Acta*, 69: 1495-1509.
- 2004 (120) Melim, L.A., **Swart, P.K.** and Eberli, G.P. Mixing-zone diagenesis in the subsurface of Florida and The Bahamas, *Journal of Sedimentary Research*, 74, 904-913
- (119) Kadko, D. and **Swart, P. K.** The source of high heat and freshwater content of the upper ocean at the SHEBA site in the Beaufort Sea in 1997, *Jour. Geophys. Res.*, 109, C10.1029/200JC001,734, 2004.
- (118) Rosenheim, B.E., **Swart, P. K.** Thorrold, S.R., Willenz, P., Berry, L., Latkoczy, C., High-resolution Sr/Ca records in sclerosponges calibrated to temperature *in situ*, *Geology*,32, 145-148.
- (117) Cantrell, D., **Swart, P.K.**, and Hagerty, R.M., Genesis and characterization of dolomite Arab-D reservoir, Ghawar Field Saudi Arabia, *GeoArabia*, 9:1-26.
- 2003 (116) **Swart, P.K.** and Grottoli, A. Proxy indicators of climate in coral skeletons: a perspective, *Coral Reefs*, 22: 313-315
- (115) Happell, J. D., Price, R. M., Top, Z. & **Swart, P. K.** Evidence for the removal of CFC-11, CFC-12, and CFC-113 at the groundwater-surface water interface in the Everglades. *Journal of Hydrology* 279(1-4), 94-105.
- (114) Moses, C.S., Helmle, K. **Swart, P. K.**, Dodge, R.E. and Merino, S.E., Pavements of *Siderastrea radians* on Cape Verde reefs , *Coral Reefs* 22, 506.
- (113) Scholz, C.A, King, J.W., Ellis, G.S., **Swart, P. K.**, Stager, J.C., Colman, S.M. Paleolimnology of Lake Tanganyika, East Africa over the past 100 K yr, *Jour. Paleolimnology*, 30, 139-150.
- (112) Kramer, M., Sollins, P. Sletten, R.S., **Swart, P. K.** N isotope fractionation and measures of organic matter alteration during decomposition, *Ecology*,84:2021-2025.
- (111) Price, R.M., Top, Z., Happell, J.D., **Swart, P .K.** Use of tritium and helium to define groundwater flow conditions in Everglades National Park, *Water Resources Research*, 39: 1267, doi:10.1029/2002WR001929,2003.
- 2002 (110) **Swart, P.K.**, Thorrold, S., Eisenhauer, A., Rosenheim, B., Harrison, C.G.A., Grammer, M., and Latkoczy, C., Intra-annual variation in the stable oxygen and carbon

- and trace element composition of sclerosponges, *Paleoceanography* 17(3), 1029/2000PA000622.
- (109) Melim, L.A, Westphal, H., **Swart, P.K.**, Eberli, G.P. and Munnecke, A. Questioning carbonate diagenetic paradigms: Evidence from the Neogene in the Bahamas, *Marine Geology*, 185, 27-53.
- (108) **Swart, P.K.**, Elderfield, H., and Greaves, M.J., A high-resolution calibration of Sr/Ca thermometry using the Caribbean coral *Montastraea annularis*, *G-cubed*, 3,11, 8402, doi:10.1029/2002GC000306.
- (107) **Swart, P.K.** James, N.J. Mallinson, D., Malone, M.J. Matsuda, H. and Simo, T. Data report: Carbonate mineralogy of sites drilled during Leg 182, Hine, A.C., Feary, D.A., and Malone, M.J. (Eds.) Proceedings of the Ocean Drilling Program, Scientific Results Volume 182.
- (106) Nelsen, T.A., Wanless, H.R., Trefry J.H., Alvarez-Zarikian, C., Hood, T., Blackwelder, **P. K. Swart**, P. Tedesco, L., Kang, W-J, Metz, S., Garte, G., Fetherstone, C., Souch, C, Pachut, J.F., O'Neal, M., Ellis, G. Linkages between the South Florida peninsula and coastal zone: A sediment-based history of natural and anthropogenic influences, In: *The Everglades, Florida Bay. And Coral Reefs of the Florida Keys: An Ecosystem Sourcebook*, Ed: Porter, J.W. and K.G. Porter, CRC Press, 415-449.
- (105) Kingsley, R., Schilling G., Dixon, J. **Swart, P.K.**, R. Poreda, and K. Simmons, 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? *G-cubed*, 3, NO. 4, 10.1029/2001GC000199.<http://g-cubed.org/gc2002/2001GC000199/index.html>
- (104) **Swart, P.K.** and Price, R. Origin of salinity variations in Florida Bay, *Limnology Oceanography*, 47:1234-1241.
- 2001 (103) Alvarez, Zarikian, C.A., **Swart, P.K.**, Hood, T., Blackwelder, P.L., Nelsen, T.A., and Featherstone, C., A Century of environmental variability in Oyster Bay using ecological and isotopic data as paleoenvironmental tools, *Bulletin of American Paleontology*, 361:133-144.
- (102) **Swart, P.K.** Price, R., and Greer, L. The relationship between stable isotopic variations (O,H, and C) and salinity in water and corals from environments in South Florida: Implications for reading the paleoenvironmental record, *Bulletin of American Paleontology*, 361:17-29.
- (101) Mitterer, R. M., Malone, M.I.J., Goodfriend, G.I. A., **Swart, P.K.**, Wortmann, U.G., Logan, G.A., Feary, D.A. Hine, A.C. 2001 Co-Generation of hydrogen sulfide and methane in marine carbonate sediments *Geophysical Research Letters*, 28: 3931 (2001GL013320)
- (100) Thorrold, S., LatKoczy, C., **Swart, P.K.**, and Jones, C. Natal homing in marine

fish population, *Science*, 291:297-299.

(99) Cantrell, D.L., **Swart, P.K.**, Handford, R.C., Kendall, C.G., and Westphall, H. Geology and production significance of dolomite, Arab-D reservoir, Ghawar Field, Saudi Arabia, *Geoarabia*, 6: 45-60.

(98) **Swart, P.K.** H. Elderfield and G. Ostlund. The geochemistry of pore fluids from bore holes in the Great Bahama Bank: Evidence of Carbonate Diagenesis and Fluid Flow, Subsurface Geology of a prograding carbonate platform: Results of the Bahamas Drilling Project . Ed: R.N. Ginsburg, *SEPM Spec. Publ 70*, 163-174

(97) **Swart, P.K.**, H. Elderfield, and K. Beets, The $^{87}\text{Sr}/^{86}\text{Sr}$ ratios of carbonates, phosphorites, and fluids collected during the Bahama drilling project cores Clino and Unda: implications for dating and diagenesis. Subsurface Geology of a prograding carbonate platform: Results of the Bahamas Drilling Project . Ed: R.N. Ginsburg, *SEPM Spec. Publ 70*, 175-186.

(96) Kenter, J.A.M., Ginsburg, R.N., Eberli, G.P., McNeill, D.F., **Swart, P.K.**, Lidz, B.H., Bralower, T.J., Troelstra, S.R. and Beets, K.J., Chronostratigraphy of a prograding carbonate platform margin: A record of dynamic slope sedimentation, Western Great Bahama Bank. Ed: R.N. Ginsburg, *SEPM Spec. Publ 70*, 101-136.

(95) Melim, L.A., **Swart, P.K.** and Maliva Meteoric and marine burial diagenesis, *SEPM Spec. Publ.* The Bahama Drilling Project Subsurface Geology of a prograding carbonate platform: Results of the Bahamas Drilling Project . Ed: R.N. Ginsburg, *SEPM Spec. Publ 70*, 137-162.

2000 (94) **Swart, P.K.**, Wortman, U., Mitterer, R., Smart, P.L., Feary, D.A., Hine, A.C. Hydrogen sulfide-rich hydrates and saline fluids in the continental margin of South Australia, *Geology*, 28:1039-1042.

(93) Kramer, P.A., **Swart, P.K.**, De Carlo, E., Schovsbo, N.H. Overview of Leg 166 Interstitial Fluid and Sediment Geochemistry, Sites 1003-1007 (Bahamas Transect), In: Swart, P.K., Eberli, G.P. and Malone, M., *Proc. Sci. Res.* 166. 179-198.

(92) **Swart, P.K.** and Melim, L.A. The Origin of Dolomites in Tertiary Sediments from the Margin of Great Bahama Bank, *Journal of Sedimentary Research* 70, 738-748.

(91) **Swart, P.K.** The Oxygen Isotopic Composition of Interstitial Waters: Evidence for Fluid Flow and Recrystallization in the Margin of Great Bahama Bank, *Sci. Results* 166, ODP, 91-98.

1999 (90) **Swart, P.K.** Healy, G., Greer, L., Lutz, M., Saied, A. Anderegg, D., Dodge, R.A. and Rudnick. D., The use of proxy chemical records in coral skeletons to ascertain past environmental conditions in Florida Bay, *Estuaries*, 22: 384-397.

1998 (89) **Swart, P.K.** White, K., Enfield, D., Dodge, R.A., Milne, P. Corals from the Gulf of Guinea as Indicators of Periods of Extreme Precipitation Conditions, *Journal of*

Geophysical Research, 103:27885-27891.

(88) Thorrold, S., Jones, C.M., **Swart, P.K.** and Targett, T.E. Accurate classification of juvenile weakfish (*Cynoscion regalis*) to estuarine nursery areas based on chemical signatures in otoliths. *Marine Ecology Progress Series*, 173: 253-265.

(87) **Swart, P.K.**, Moore, M.D. Charles, and Böhm, F. 1998. Sclerosponges may hold new keys to marine climate EOS, 79: 633-636.

1997 (86) **Swart, P.K.** and Kramer, P.A., Geology of mud islands in Florida Bay, In: Vacher and Quinn, *The Hydrology of Carbonate Islands*, 249-274, Elsevier.

(85) Anderegg, D., Dodge, R.E., **Swart, P.K.**, and Fisher, L. Barium chronologies from south Florida corals-environmental implications, *8th Int. Coral Reef Symp. Panama*, 2:1725-1730.

(84) Juster, T., Kramer, P. A., Vacher, H. L., **Swart, P. K.** & Stewart, M. Groundwater flow beneath a hypersaline pond, Cluett Key, Florida Bay, Florida. *Journal of Hydrology* 197(1-4), 339-369.

(83) Eberli, G.P., **Swart, P.K.** McNeill, D.F., Kenter, J.A.M., Anselmetti, F.S., Melim, L.A. and Ginsburg, R.N., A synopsis of the Bahamas Drilling Project: results from two deep core borings drilled on Great Bahama Bank, In: Eberli, G.P., **Swart, P.K.**, Malone, M. et al. *Proc. ODP Init. Repts.*, 166:College Station, TX (Ocean Drilling Program).

(82) Thorrold, S.R., Campana, S.E., Jones, C.M. and **Swart, P.K.** Factors determining ¹³C and ¹⁸O fractionation in aragonitic otoliths of marine fish, *Geochimica et Cosmochimica Acta*, 61:2909-2920.

1996 (81) **Swart, P.K.**, Dodge, R.E. and Hudson, H.J. A 240-year stable oxygen and carbon isotopic record in a coral from South Florida: Implications for the prediction of precipitation in southern Florida, *Palaios*, 11:362-375.

(80) **Swart, P.K.** and Leder, J.J. The utility of the stable isotopic signature in coral skeletons, In: Paleobiology and biology of corals, Ed: G.D. Stanley Jr., The paleontological society papers, 1:249-291.

(79) Leder, J.J., **Swart, P.K.**, Szmant, A and Dodge, R.E. The origin of variations in the isotopic record of Scleractinian corals: I Oxygen, *Geochimica et Cosmochimica Acta*, 60:2857-2870.

(78) **Swart, P.K.**, Leder, J.J. Szmant, A and Dodge, R.E. The origin of variations in the isotopic record of Scleractinian corals: II Carbon, *Geochimica et Cosmochimica Acta*, 60:2871-2886.

(77) **Swart, P.K.** , Healy,G., Dodge, R. Kramer, P., Hudson, H., Halley R., & M. Robblee The Stable Oxygen and Carbon Isotopic Record from a Coral Growing in Florida Bay: A 160 Year Record of Climatic and Anthropogenic Influence,

Palaeogeography, Palaeoclimatology, Palaeoecology, 123:219-238.

(76) **Swart, P.K.** and Leder, J.J., Corals, paleotemperature records and the aragonite-calcite transformation: Comment *Geology*. 23:755-758.

1995 (75) Stanley, G.D. Jr., and **Swart, P.K.**, Evolution of the coral-zooxanthellae symbiosis during the Triassic: A geochemical approach, *Paleobiology*, 21:179-199.

(74) Melim, L.A., **Swart, P.K.** and Maliva, R.G. Meteoric-like fabrics forming in marine waters: Implications for the use of petrography to identify diagenetic environments, *Geology*, 23:755-758.

(73) Ortner, PB, Lee, TN, Milne PJ, Zidka, RG, Clarke, ME, Podesta, GP, **Swart, P.K.**, Testa, PA, Atkinson, LP, & Johnson, WR, Mississippi river flood waters reached the Gulf Stream, *J. Geophys. Res*, 100:13,595-13,601.

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TEACHING

Teaching Specialization

MGG 674	Carbonate Diagenesis
MGG 650	Stable Isotopes in geological and biological processes
MSC 101	Introductory Oceanography
MGG 513	Introductory Geochemistry
ECS 301	Techniques in Ecosystem and Policy
INSTAR*	Teaching Secondary Education Teachers about Science

* This is an outreach teaching program originally funded by NSF and now by Miami-Dade County. It has been operating since 1998 and is in it's 9th year.

Thesis (Only persons for which I have acted as committee chair are listed)

Guzikowski, M.- 1987, M.S. Evolution of pore fluid chemistry during the recrystallization of periplatform carbonates, Bahamas- **Awardee of the best M.S. thesis 1987.**

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Greer, L. (2001) Ph.D. The history of climate from a Holocene reef in the Dominican Republic

Price, R. (2001) Ph.D. The hydrology of Taylor Slough **Awardee of best Ph.D. thesis 2002**

Ellis, G. (2005) Ph. D The origin and control of organic production in Florida Bay

Brad Rosenheim (2005) Ph.D. The use of sclerosponges for paleoclimatic purposes

Christopher Moses (2005) Ph.D. Climate variation in the Atlantic using coral skeletons from Cape Verde and the Gulf of Guinea

Kathryn Lamb (2006) Ph.D. Nitrogen Isotopic systematics in a modern coral reef

David Katz (2006) Ph.D. Diagenesis of the Madison Formation, Wyoming

Robert Otto (Current M.S.) Facies in the Bahamas

Amanda Waite (Current Ph.D) Climate records in corals

Courtney Drayer (Current M.S.) Nitrogen isotopes in Biscayne Bay

Remy Okazaki (Current Ph.D.) Control of calcification by pCO_2

Angela Rosenberg (Current MS)

Monica Arienzo

Quinn Devlin

Amanda Oehlert