

## Curriculum Vitae

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### PERSONAL

**Name:** Peter Koenraad Swart  
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**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 of 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, University of Miami, Associate Professor, RSMAS	1988-1995
RSMAS, Marine Geology and Geophysics, Chairman	1990-1993
University of Sussex, Professor of Environmental Science	1994-1994
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-Present
Lewis G. Weeks Chair of Marine Geology and Geophysics	2012-

### 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
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)
2015	Exp. 359 IODP- inorganic geochemist

### Funded Research

\$ >20 M over the past 30 years from NSF, NOAA, EPA, DOE, and SFWMD.

### Editorial Responsibilities

Associate Editor	Journal of Sedimentary Petrology	1990-1993
Associate Editor	Palaeo 3x	1988-2014
Associate Editor	Coral Reefs	1995-Present
Geological Editor	Coral Reefs	2001-2006
Chief Editor	Sedimentology	2006-2012
Founding Editor	Depositional Record	2014-Present

### Professional and Honorary Organizations

Fellow of the American Geophysical Union	2016
University of Miami Award for Scholarly Productivity	2010
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
Member of the IAS	2006- Present

## Other Professional Activities

Co-Organizer of 5 <sup>th</sup> International Clumped Meeting	2015
AGU Council Member	2010-2014
Member AGU Meetings Committee	2010-2014
Co-Chair of Meeting of Americas Brazil	2010
Co-Chair of Western Pacific Geophysical Meeting	2012
Co-Chair of Meeting of Americas Mexico	2013
Chair PP Focus Group	2012-2014
Vice-Chair PP Focus Group	2010-2012
Secretary Paleoceanography Focus Group AGU	2006-2008
Director of the Cooperative Ecosystem Studies Unit	2000-
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 Planning Committee for ODP	1990
Sedimentary and Geochemical Processes Panel	1990-1994
Organizer AGU Chapman Conference	1993

## Consulting Activities

Principal of the Comparative Sedimentology Laboratory 1996-2016  
Funded by 16 Major Oil Companies

## Individual Projects

Texaco	1986	Fission Track
Shell Oil	1989-90	Ion Microprobe
	2013	Shauiba
Saudi Aramco	1996-1998, 2012	Geochemical Study of Arab-D
	1998-2000	Shayba
	2000-2004	Khuff
	2004-2005	Shayba
Kuwait Oil Company	2010-2014	Marrat

## PUBLICATIONS

### Books, Monographs and Special Issues Edited/Published

- 2009 **Swart, P.K.**, Eberli, G.P., and McKenzie, (Eds) Perspectives in Carbonate Geology: A Tribute to the Career of Robert Nathan Ginsburg, IAS Special Publication, Wiley-Blackwell, Oxford, 41, 387p.
- 2003 **Swart, P.K.** and Grottooli, A. (Eds) 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. (Eds) *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. (Eds) *Proc. ODP Init. Repts.*, 166: College Station, TX (Ocean Drilling Program).
- 1993 **Swart, P.K.**, McKenzie, J., Lohmann, K.C., and Savin S., (Eds) 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. Dissertation, University of London.

### Juried or Refereed Articles in ISI Publications and Google Scholar (Blue)

Citation Index 5537 **8733** 2/3/2017  
 H Index 41 **52** 2/3/2017

Papers in **red** contribute to the **ISI H Index**

Papers in **red and blue** contribute to the **Google Scholar H Index**.

- 2017 (160) Murray, S. and **Swart, P.K.** Evaluating Formation Fluid Models and Calibrations Using Clumped Isotope Paleothermometry on Bahamian Dolomites, *Geochimica et Cosmochimica Acta*,
- (159) Klaus, J., Meeder, J. McNeill, D., Woodhead, J. and **Swart, P.K.** Expanded Florida Reef Development during the Mid Pliocene Warm Period, *Global and Planetary Change*
- (158) Arienzo, M.M., **Swart, P.K.**, Broad, K., Clement, A.C., Pourmand, A., Kakuk, B., Multi-proxy evidence of millennial scale climate variability from multiple Bahamian speleothems, *J. Quat. Sci.*
- (156) Okazaki, R.R., Towle, E., Hooidek, R., Mor, C., Winter, R., Piggot, A., Cuning, R., Baker, A., Langdon, C., **Swart, P.K.** Varying Responses of Twelve Caribbean Coral Species to Climate Change, *Global Change Biology*, 10.1111/gcb.13481.
- 2016 (157) Staudigel, P.T. and **Swart, P.K.** Isotopic behavior during the aragonite-calcite transition: implications for sample preparation and proxy interpretation, *Chem. Geol.*, 442, 130-138.
- (155) Betzler, C., Eberli, G.P., Kroon, D., Wright, J.D., **Swart, P.K.**, Nath, B.N., Alvarez-Zarikian, C.A., Alonso-García, M., Bialik, O.M., Blättler, C.L., Guo, J.A., Haffen, S., Horozal, S., Inoue, M., Jovane, L., Lanci, L., Laya, J.C., Mee, A.L.H., Lüdmann, T., Nakakuni, M., Niino, K., Petruny, L.M., Pratiwi, S.D., Reijmer, J.J.G., Reolid, J., Slagle, A.L., Sloss, C.R., Su, X., Yao, Z. and Young, J.R. The abrupt onset of the modern South Asian Monsoon winds. *Scientific Reports*, 6, 29838.
- (154) **Swart, P.K.** Cantrell, D.A., Murray, S. and Arienzo, M., Dolomitization in the Ghawar Field: An Update Based on the Clumped Isotope Technique, *Sedimentology*, 63:1739-1752.
- (155) Gothmann, A.M., J. A. Higgins, **P. K. Swart**, S. J. Giri, J. F. Adkins, J. Stolarski, C. L. Blattler, and M. L. Bender, Calcium isotopes in scleractinian fossil corals since the Mesozoic: implications for vital effects and biomineralization through time., *Earth and Planetary Science Letters*, 444, 205-214.
- (153) Murray, S., M. M. Arienzo, and **P. K. Swart**, Determining the  $\Delta_{47}$  acid fractionation for dolomites: *Geochimica et Cosmochimica Acta*, v. 174, 42-53.

- 2015 (152) Arienzo, M., **Swart, P.K.**, Pourmand, A. Broad, K., Clement, A.C., Murphy, L.N., Vonhof, H.B., Kakuk B., Bahamian speleothem reveals temperature decrease associated with Heinrich stadials, *Earth and Planetary Science Letters*, 430, 377-386.
- (151) Ellis, G.S., Katz, B.J., Scholz, C. and **Swart, P.K.**, Organic sedimentation in modern lacustrine systems: A case study from Lake Malawi, East Africa, *Geological Society of America Special Papers*, 515, p. SPE515-02.
- (150) Galfond, B., Riemer, D., **Swart, P.K.**, Analysis of signal to noise ratio of  $\delta^{13}\text{C}$   $\text{CO}_2$  measurements at carbon capture utilization and storage injection sites. *International Journal of Greenhouse Gases*, 42, 307-318.
- (149) Fernandez, A., T. J. Lapen, R. Andreasen, **P. K. Swart**, C. D. White, and B. E. Rosenheim, 2015, Ventilation time scales of the North Atlantic subtropical cell revealed by coral radiocarbon from the Cape Verde Islands: *Paleoceanography*, v. 30, p. 938-948.
- (148) Pederson, C., McNeill, D., Klaus, J., and **Swart, P.K.** Deposition and diagenesis of microbial oncolites: Implications for the preservation of microbial signatures, *Journal of Sedimentary Research*, 85:1323-1333.
- (147) Sharifi, A., Pourmand, A., Canuel, E.A., Fere-Tyler, E., Peterson, L.C., Aichner, B., Feakins, S.J., Daryaee, T., Djamali, M., Beni, N., Lahijani, A.K., **Swart, P.K.** Abrupt climate change over the interior of West Asia since the last deglaciation period: The hand that rocked the Cradle of Civilization? *Quaternary Science Reviews*, 123, 215-230.
- (146) Diaz, M. **Swart, P.K.**, Eberli, G.P. and Altabet, M. Geochemical evidence of microbial activity within ooids, *Sedimentology*, 62, 2090-2112.
- (145) **Swart, P.K.** The geochemistry of carbonate diagenesis: The past, present and future, *Sedimentology*, 62:1233-1304.
- (144) Stewart, J.A., Gutjahr, M., Pearce, F., **Swart, P.K.** and Foster, G.L. Boron and meteoric diagenesis: Questioning the fidelity of Snowball Earth  $\delta^{11}\text{B}$  excursions, *Geology*, 43: 627-634.
- (143) Waite, A. and **Swart, P.K.** Inversion of aragonite to calcite during the sampling of skeletal archives: Implications for proxy interpretation, *Rapid Communication in Mass Spectrometry*, 29:955-964.
- (142) Harris, P.M., Purkis, S.J., Ellis, J., **Swart, P.K.** and Reijmer, J.J.G., Mapping water-depth and depositional facies on Great Bahama Bank, *Sedimentology*, 62: 555-589.
- (141) Mackenzie, G.J., Schaffner, F., **Swart, P.K.** The stable isotopic composition of carbonate (C & O) and the organic Matrix (C & N) in water bird eggshells from South Florida: Insights into feeding ecology, timing of egg formation, and geographic range, *Hydrobiologia*, 743: 89-108.
- 2014 (140) **Swart, P.K.**, Evans, S., Capo. T., and Altabet, M.A, The fractionation of nitrogen and oxygen isotopes in macroalgae during the assimilation of nitrate, *Biogeosciences*, 11, 6147-6157.
- (139) Straus, J., Oleinik, A., **Swart, P.K.** Stable isotope profiles from subtropical marine gastropods of the family Fasciolaridae: growth histories and relationships to local environmental conditions, *Marine Biology*, 161, 1593-1602.
- (138) Oehlert, A.M. and **Swart, P.K.**, Interpreting carbonate and organic carbon isotope covariance in the sedimentary record, *Nature Communications*, 5, 10.1038/ncomms5672.
- (137) **Swart, P.K.**, Oehlert, A., Mackenzie, GJ, Eberli, GP, and Reijmer, JJG, The fertilization of the Bahamas by Saharan dust: A trigger for carbonate precipitation? *Geology*, 42, 671-674.
- (136) Murphy, L.N., Clement, A.C., Albani, S., Mahowald, N.M., **Swart, P. K.** and Arienzo, M.M. Simulated changes in atmospheric dust in response to a Heinrich stadial. *Paleocean.* 29, 2013PA002550.

- 2013 (135) Arienzo, M. M., **P. K. Swart**, and H. B. Vonhof. Measurement of  $\delta^{18}\text{O}$  and  $\delta^2\text{H}$  values of fluid inclusion water in speleothems using cavity ring-down spectroscopy compared with isotope ratio mass spectrometry. *Rapid Communication in Mass Spectrometry* 27:1-9.
- (134) **Swart, P. K.**, W. T. Anderson, M. A. Altabet, C. Drayer, and S. Bellmund. Sources of dissolved inorganic nitrogen in a coastal lagoon adjacent to a major metropolitan area, Miami Florida (USA). *Applied Geochemistry* 38:134-146.
- (133) Klaus, J.S., Murray, S., **Swart, P.K.** and McNeill, D.F. Source partitioning and paleoecology of Neogene free-living corals as determined from skeletal stable isotope composition. *Bulletin of Marine Science*, 89, 937-954.
- (132) Okazaki, R.R., **Swart, P.K.** and Langdon, C. (2013) Stress-tolerant corals of Florida Bay are vulnerable to ocean acidification. *Coral Reefs* DOI 10.1007/s00338-013-1015-3
- 2012 (131) Price, R.M., Skrzpek, G, Grierson, P.F., **Swart, P.K.** and Fourqurean, J.F. The use of stable isotopes of oxygen and hydrogen to identify different water sources in two hypersaline estuaries with different hydrologic regimes, *Marine and Freshwater Research*. 63(11), 952-966.
- (130) Cronin, T.M., Wingard, G.L., Dwyer, G.S., **Swart, P.K.**, Willard, D.A. and Albiets, J. Climate variability during the Medieval climate anomaly and Little Ice Age based on Ostracod faunas and shell geochemistry from Biscayne Bay, Florida, *Developments in Quaternary Science*, 17, 241-262.
- (129) Mateo, I, Durbin, E. G., Bengtson, D.A., Kingsley, R., **Swart, P.K.** and Durant, D. Spatial and Temporal Variation in Otolith Chemistry for Tautog (*Tautoga onitis*) along the US Northeast Coast, *Northeastern Naturalist*, 19:201-216.
- (128) Oehlert, A. Devlin, Q., Mackenzie, G.J., Lamb-Wozniak, K., **Swart, P.K.**, The Stable Carbon Isotopic Composition of Organic Material in Platform Derived Sediments: Implications for Reconstructing the Global Carbon Cycle, *Sedimentology*, 59, 319-335.
- (127) **Swart, P.K.** and Kennedy, M.J. Does the Global Stratigraphic Reproducibility of  $\delta^{13}\text{C}$  in Neoproterozoic Carbonates Require a Marine Origin? *A Plio-Pleistocene Comparison*, *Geology*, 40: 87-90.
- (126) Lamb-Wozniak, K., **Swart, P.K.** and Altabet, M. Nitrogen and Carbon Isotopic Systematics of the Florida Reef Tract, *Bull Mar Sci* , 1: 119-146.
- 2011 (125) Giebel, B.M., **Swart, P.K.**, and Riemer, D.D., New Insights to the Use of Ethanol in Automotive Fuels: A Stable Isotopic Tracer for Fossil- and Bio-Fuel Combustion Inputs to the Atmosphere: *Environmental Science & Technology*, v. 45, p. 6661-6669.
- (124) Oikawa, P.Y., Giebel, B., Sternberg, L.S.L., Li, L., Timko, M.P., **Swart, P.K.**, Riemer, D.D., Mak, J.E., Lerdau, M.T. Leaf and root pectin methylesterase activity and  $^{13}\text{C}/^{12}\text{C}$  stable isotopic ratio measurements of methanol emissions give insight into methanol production in *Lycopersicon esculentum*, *New Phytologist*,
- (123) Helmle, K., Dodge, R.E., **Swart, P.K.**, Eakin, M, and Gledhill, D. Growth rates of Florida corals from 1937 to 1996 and their relationship to climate change *Nature Communications*, 2, 215.
- 2010 (122) Giebel, B. M., **P. K. Swart**, and D. D. Riemer.  $\delta^{13}\text{C}$  stable isotope analysis of atmospheric oxygenated volatile organic compounds by gas chromatography-isotope ratio mass spectrometry. *Anal. Chem.* 82: 6797-6806.
- (121) Matteo, I, Durbin, E.G., Appeldorn, R., Adams, A., Juanes, F., Kingsley, R., **Swart, P.K.**, The role of mangroves as nurseries for French grunt *Haemulon*

- flavolineatum* and schoolmaster *Lutjanus apodus* assessed by otolith elemental fingerprints, Marine Ecology Progress Series, doi: 10.3354/meps08445.
- (120) Matteo, I, Durbin, E.G., Bengston, D.A., Kingsley, R., **Swart, P.K.**, Durant, D., Spatial and temporal variation in otolith chemistry of tautog (*Tautoga onitis*), Fisheries Bulletin, 108; 155-161.
- (119) **Swart, P.K.**, Greer, L., Rosenheim, B.E., Moses, C., Winter, A., Helmle, K., and Dodge, R.E. <sup>13</sup>C Suess effect in scleractinian corals mirror changes in the anthropogenic CO<sub>2</sub> inventory of the surface oceans, Geophysical Res. Letts.
- 2009 (118) **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.
- (117) 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.
- (116) 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.
- (115) 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.
- (114) Stalker, J., Price, R.M., and **Swart, P.K.** Determining Spatial and Temporal Inputs of Freshwater, Including Groundwater Discharge, to a Sub-Tropical Estuary using Geochemical Tracers, Biscayne Bay, South Florida, *Estuaries*, DOI 10.1007/s12237-009-9155-y
- 2008 (113) 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.
- (112) Price, R.M., **Swart, P.K.** and Willoughby H.E. , Seasonal and spatial variation in the stable isotopic composition ( $\delta^{18}\text{O}$  and  $\delta\text{D}$ ) of precipitation in south Florida, *Journal of Hydrology*, 358, 193-205.
- (111) **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.
- (110) 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.
- (109) 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 (108) Katz, D., **Swart, P .K.**, Eberli, G.P. Carbon isotopic variation in the Madison formation Wyoming, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 256, 231-253.
- (107) 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.
- (106) Rosenheim, B.E., **Swart, P.K.**, Eisenhauer, A. Constraining initial  $^{230}\text{Th}$  activity in Incrementally Deposited Biogenic Aragonite from the Bahamas, *Geochimica et Cosmochimica Acta*, 71, 4025-4035.
- (105) Price, R.M., Nuttle, W. and **Swart, P.K.** Variation in evaporation from a subtropical estuary: Florida Bay, *Estuaries*, 30, 1-10.
- (104) 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 (103) 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.
- (102) 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.
- (101) Andres, M., Sumner, D.Y., Reid, P., **Swart. P.K.**, Isotopic Fingerprints of Microbial Respiration in Aragonite from Bahamian Stromatolites, *Geology*, 34, 973-976.
- (100) 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.
- (99) Price, R. M., **Swart , P. K.** & Fourqrean, 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.
- (98) 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.
- (97) 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 (96) 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.
- (95) 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.
- (94) **Swart, P.K.**, Lamb, K. and Saeid, A., Temporal and Spatial Variation in the  $\delta^{15}\text{N}$  and  $\delta^{13}\text{C}$  of coral tissue and zooxanthellae in *Montastraea faveolata* collected from the Florida reef tract, *Limnology and Oceanography*, 50, 1049-1058.
- (93) **Swart, P.K.** and Eberli, G.P. The Nature of the  $\delta^{13}\text{C}$  of Periplatform Sediments: Implications for stratigraphy and the global carbon cycle, *Sedimentary Geology*, 175: 115-129.
- (92) **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.



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- (90) 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.
- (89) 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.
- (88) **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 (87) 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
- (86) 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, C10.1029/2000JC001734, 2004.
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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	Tools in Environmental Decision Making
INSTAR*	Teaching Secondary Education Teachers about Science

\* This is an outreach teaching program originally funded by NSF and by Miami-Dade County.

### Thesis (Only persons for which I have acted as the Principal advisor are listed)

- 1- 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.**
- 2- Harrison, S. 1987, M.S. The control of uranium concentrations in Pleistocene planktonic foraminifera.
- 3- Chung G. 1988 Ph.D. Application of nuclear fission track mapping to the study of diagenesis in carbonate rocks.
- 4- Vahrenkamp, V.C., 1988. Constraints on the formation of platform dolomites: A geochemical study of Late-Tertiary dolomite from Little Bahamas Bank, Bahamas, (Unpublished Ph.D. thesis) University of Miami, 434p. **Awardee of best Ph.D. thesis 1988**
- 5- Meyers, J. 1989. M.S. The oxygen and hydrogen isotopic hydrology of the surficial aquifers of Southern Florida
- 6- McClain, M. 1990. M.S. A geochemical study of early meteoric diagenesis at Ocean Bight, Great Exuma Island, Bahamas. **Awardee of best M.S. thesis 1990**
- 7- White, K. 1995. M.S. Proxy indicators of climate in coral skeletons used to identify correlations between climate variations in Gulf of Guinea and sub-Saharan Drought, **Awardee of best M.S. thesis 1996**
- 8- Healy, G., 1996. M.S. A decadal-scale perspective of South Florida water quality and climate using stable carbon and oxygen isotopes of two Florida Bay corals
- 9- Jim Leder, 1996. Controls on the stable isotopic composition of corals, ABD.
- 10- Kramer, P. 1996. Ph.D. Controls of salinity and diagenesis in Florida Bay mud-islands
- 11- Lutz, M. 1998. M.S. The controls of organic material in Florida Bay, **Awardee of best M.S. thesis 1998**
- 12- Greer, L. (2001) Ph.D. The history of climate from a Holocene reef in the Dominican Republic
- 13- Price, R. (2001) Ph.D. The hydrology of Taylor Slough **Awardee of best Ph.D. thesis 2002**
- 14- Ellis, G. (2005) Ph.D. Depositional Controls on Lacustrine Sedimentary Organic Geochemistry
- 15- Brad Rosenheim (2005) Ph.D. The use of sclerosponges for paleoclimatic purposes
- 16- Christopher Moses (2005) Ph.D. Climate variation in the Atlantic using coral skeletons from Cape Verde and the Gulf of Guinea
- 17- Kathryn Lamb (2006) Ph.D. Nitrogen Isotopic systematics in a modern coral reef
- 18- David Katz (2006) Ph.D. Early and Late Diagenetic processes of Mississippian Carbonates Northern U.S. Rockies.

- 19- Angela Rosenberg (2011) MS. Geochemistry of Deep-Sea Coral from the Straits of Florida
- 20- Amanda Waite (2011) PhD Geochemical insight into multi-decadal climate variability: proxy reconstructions from long-lived Atlantic corals and sclerosponges
- 21- Yula Hernawati (2012) MS. Meteoric diagenesis of Plio-Pleistocene reef terraces in the Southern Dominican Republic.
- 22- Remy Okazaki (2012) PhD. Control of calcification by pCO<sub>2</sub>
- 23- Amanda M. Oehlert (2014) PhD. The Role of Diagenesis and Source in Controlling the Correlation between the Carbon Isotopic Composition of Inorganic and Organic Components.
- 24- Monica Arienzo (2014) PhD. Climate Records in Speleothems from the Bahamas  
**Awardee of best Ph.D. thesis 2015**
- 25- Deniz Atasoy (2015) MS. Clumped isotope signals of biogenic and non-biogenic carbonates
- 26- Quinn Devlin (2015) PhD Nutrient Dynamics in the Coral-Algal Symbiosis: Developing Insight from Biogeochemical Techniques
- 27- Ben Galfond (2015) PhD Development and Application of Cavity Ring-down Spectroscopy for the Monitoring of δ<sup>13</sup>CO<sub>2</sub> at Carbon Capture, Utilization, and Storage Sites.
- 28- Sean Murray (2016) PhD The Application of Clumped Isotopes to Dolomites.
- 29- Caitlin Augustin (2016) PhD Carbon Capture and Storage: Modeling of storage and Underground Consequences

### **Current Students**

- 1- *Sevag Mehterian (Speleothems)*
- 2- *Sharmila Giri (Corals)*
- 3- *Philip Staudigel (Clumping)*
- 4- *Sean Ahearn (Stromatolites)*