

BIOGRAPHICAL SKETCH

HERNAN SANTOS

CURRENT Associate Professor, Department of Geology, University of Puerto Rico
Mayagüez Campus, Mayagüez, P.R. 00681, - August 2002
GeM-Geology Museum Coordinator, - August 2000
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EDUCATION:

UNIVERSITY OF COLORADO, BOULDER

Ph.D., Carbonate Stratigraphy and Paleontology, 1999.

Dissertation: Stratigraphy and Depositional History of the Upper Cretaceous Strata in the Cabo Rojo-San Germán Structural Block, Southwestern Puerto Rico.

Dr. David Budd, Advisor.

UNIVERSITY OF COLORADO, BOULDER

M.S. Carbonate Stratigraphy and Paleontology, 1990.

Thesis: The Stratigraphy, Paleoenvironments, and Biofacies of the Cotui Limestone: Cretaceous of Southwestern Puerto Rico.

Dr. Erle G. Kauffman, Advisor.

UNIVERSITY OF PUERTO RICO, MAYAGÜEZ

B.S. Geology, 1986.

Senior Thesis: The Geology of the Rosario Area, Southwestern Puerto Rico.

Dr. James Joyce, Advisor.

HONORS & AWARDS:

- 2005 Outstanding Geology Professor - Student Geological Society, UPRM.
- 2000 Outstanding Geology Professor - Student Geological Society, UPRM.
- 1999 University of Colorado Texaco Minority Students Award.
- 1995 Outstanding Geology Professor - Student Geological Society, UPRM.
- 1993 Society of Economic Paleontologist and Mineralogist (S.E.P.M.) Student Excellence and Develop Award 1993.

SPECIAL COMMITTEES

- 2005 Member of the NASA-Earth Science Education Community Meeting, Orlando Florida.
- 2005 Member of the organizing Committee, congress Field Trip Coordinator, and Field Trip Leader for the 17th Caribbean Geological Conference. Field Trip title: Geology of Puerto Rico.
- 2004 Member of the NASA-Earth Science Education Community Meeting, Monterey, California.
- 2003 Member of the Organizing Committee, congress Field Trip Coordinator, and Field Trip Leader for the Seismological Society of America National Meeting, Caribe Hilton, San Juan, Puerto Rico April 29 to May 4, 2003. Field Trip title: Recent Tectonics and Paleoseismology in Western Puerto Rico.

Recent Publications:

Santos, H. and Ortega, D., 2007. Geología de Puerto Rico, una Guía para el Maestro (Geology of Puerto Rico, a Teachers Guide), AFAMaC Publications, Department of Education and the University of Puerto Rico at Mayagüez, Puerto Rico, pp. 36.

Schweitzer, C. E., Vélez-Juarbe, J., Martínez, M., Collmar Hull, A., Feldmann, R. M. and **Santos, H., in press**, New Cretaceous and Cenozoic decapoda (Crustacea: Thalassinidea, Brachyura) from Puerto Rico, United States Territory. Bulletin of the Mizunami Fossil Museum.

Vélez-Juarbe, J., Brochu, C. A. and **Santos, H., 2007**, A gharial from the Oligocene of Puerto Rico: transoceanic dispersal in the history of a nonmarine reptile. Proceedings of the Royal Society Bulletin, doi:10.1098/rspb.2006.0455, Published online.

Vélez-Juarbe, J. and **Santos, H., 2007**, Fossil Echinodermata from Puerto Rico. In Ausich, W. I. and Webster G. D. (eds.), Echinoderm Paleobiology. Indiana University Press.

Brochu, C. A., Nieves-Rivera, A. M., Vélez-Juarbe, J., Daza-Vaca, J. D. and **Santos, H., 2007**, Tertiary crocodylians from Puerto Rico: evidence for late Tertiary endemic crocodylians in the West Indies? Geobios, v. 40, p. 51-59.

Pisera, A.; Martínez, M.; and **Santos, H.** 2006. Late Cretaceous siliceous sponges from El Rayo Formation, Puerto Rico. Journal of Paleontology, 80(3): p. 594-600.

Current Educational Initiative:

Graduate and Undergraduate Students Enhancing Science and Technology (GUEST K-12) Co-PI. This initiative takes graduate students to school to offer talks, they serve as role models and at the same time become a bridge between the k-12 students and the university. Schoolteachers are offered workshops and materials that result in continuous education and a better class.

AFAMaC (Translate into: Alliance for the Strengthening of the Math and Sciences). In charge of supervision of Earth Sciences school teachers, developing of workshops, field trips and supply of materials to improve their knowledge in the field.

Recent Workshops offered to School Teachers at the University of Puerto Rico, Mayagüez:

Bowen Reaction Series and the Formation of Igneous Rocks, AFAMaC (Alliance for the strengthening of Math and Science), 2007.

The Metamorphic Rocks, AFAMaC, 2007.

Sedimentary Rocks and the sedimentary Structures, AFAMaC, 2007.

Living at the Edge of a Plate Boundary, AFAMaC, 2007.

Global Warming: True or Mith, AFAMaC, 2007.

Geology of Puerto Rico and Caribbean Tectonics, 2006.

The Rocks of Puerto Rico: A View of Puerto Rico Trough Time, AFAMaC, 2006.

Climate Trough Time, AFAMaC, 2006.

Earthquakes and Tsunamis: Living in a Tectonic Plate Margin, AFAMaC, 2006.

Using DLESE as a Teaching Instrument, AFAMaC, 2006.

Paleontology and the Preservation of Organism, AFAMaC, 2006.

Minerals Classification and their Properties: AFAMaC, 2006, 2005.

Graduate Students Enhancing Science and Technology in K-12 (GUEST K 12), 2005.

The Rocks: Igneous, Sedimentary and Metamorphic. AFAMaC, 2006, 2005.

What is Geology?, Graduate Students Enhancing Science and Technology in K-12 (GUEST K-12), 2005.

Ground Water and Hydrology: A workshop for Earth Sciences teachers: AFAMaC, 2005.

The Origin of the Caribbean, a Biogeographic Review: A workshop for Earth Sciences teachers: AFAMaC, UPRM, 2005.

Understanding Topographic and Geologic Maps: A workshop for Earth Sciences teachers: AFAMaC, UPRM, 2005.

Minerals Classification and Properties of Minerals: A workshop for Earth Sciences teachers: AFAMaC, (2005), Graduate Students Enhancing Science and Technology in K-12 (GUEST K-12), 2005.