

DOUGLAS S. JONES

Curriculum Vitae

*Florida Museum of Natural History, University of Florida, P. O. Box 117800, Gainesville, FL 32611-7800
(352) 273-1902 (Office) (352) 392-8783 (Fax) dsjones@flmnh.ufl.edu (Email)*

- PERSONAL:** Born: Morristown, New Jersey, USA
- EDUCATION:** A.B. Geology (with High Honors); Rutgers University, New Brunswick, NJ; 1974
A.M. Geological and Geophysical Sciences, Princeton University, Princeton, NJ; 1976
Ph.D. Geological and Geophysical Sciences, Princeton University, Princeton, NJ; 1980
- HONORS AND OFFICES:** Phi Beta Kappa (1973); Delta Phi Alpha (1973); 1974 Vinton Gwinn Memorial Prize in Geology - Rutgers University; Sigma Xi (1976); 1983 Sigma Xi Faculty Research Award - University of Florida; 1986-87 President-Southeastern Geological Society; Series Co-Editor (with N.H. Landman) - *Topics In Geobiology*, Springer (1986-2007); Fellow - Geological Society of America (1989); *Palaios* 1990 Best Paper Award - Honorable Mention (with L. Ivany & R. Portell); 1991 Research Achievement Award, University of Florida; 1992 - Sabbatical at Dept. of Earth Sciences, University of Cambridge, UK; 1993-94 President - Southeastern Section of The Paleontological Society; 1994-95 Paleontological Society Distinguished Lecturer, Fellow 2017; Editorial Boards: *Geology* (1997-99), *Palaios* (1989-2004), *Historical Biology* (1994-2004), *Nautilus* (1998-pres.); Trustee – Bailey-Matthews Shell Museum (1998-2003; 2008-2010); Board of Directors- Florida Association of Museums & Foundation, Inc. (1998-pres.; Treasurer 2000-04; President 2006-08); Board of Directors - Natural Science Collections Alliance (2003-2009; 2019-pres); UF Foundation Board of Directors (2003-07); Sir Kirby Laing Fellow – University of Wales, UK (2004); Vice-President – Toomey Foundation for the Natural Sciences (2004 – pres.); UF Dean & Director Development Council (2004-10; Vice Chair 2006-08, Chair 2009-10); Advisory Council – Ordway Swisher Biological Station (2008-2012); Association of Science Museum Directors (Vice-Pres. 2008-10; Sec/Treas. 2011-13; President 2014-2016); American Alliance of Museums Board of Directors (2013-2020) Vice-Chair 2015-2016; Board Chair 2016-2018; *Paleobiology* Co-editor (2011-2016); NAPC 2014 Host Committee; *Specify* Collections Consortium Board (2019-pres.)
- PROFESSIONAL AFFILIATIONS:** Geological Society of America, Paleontological Society, American Geophysical Union, Sigma Xi, Southeastern Geological Society, National Shellfisheries Association, Florida Academy of Science, American Malacological Society, SEPM (Society for Sedimentary Geology), Florida Paleontological Society, American Alliance of Museums, Florida Association of Museums, Association of Science Museum Directors
- POSITIONS:**
- 1997-present: Director, Florida Museum of Natural History (FLMNH),
Professor of Biology and Geology, University of Florida (UF)
- 1996-1997: Interim Director, FLMNH
- 1994-1996: Chair, Department of Natural Sciences, FLMNH

- 1989-present: Curator and Affiliate Professor of Geology and Biology
FLMNH and UF Departments of Geology and Biology
- 1985-1989: Associate Curator and Affiliate Associate Professor of Geology
FLMNH and UF Department of Geology
- 1984-1985: Associate Professor
UF Department of Geology
- 1984 (summer): Visiting Assistant Professor,
University of Rhode Island, Graduate School of Oceanography
- 1979-1984: Assistant Professor
UF Department of Geology
- 1974-1979: Teaching and Research Assistant
Department of Geological and Geophysical Sciences
Princeton University

***COURSES
TAUGHT:***

Undergraduate Level:

Historical Geology; Paleontology, Invertebrate Paleontology; Introductory Oceanography; Exploring the Geological Sciences; Seminar in Geology; Independent Studies; Summer Field Geology Courses at Florissant, CO; Taos, NM; and Red Lodge, MT (Princeton-YBRA)

Graduate Level:

Paleoecology; Seminar in Evolution; Marine Geology; Current Topics in Paleobiology; Advanced Invertebrate Paleontology; World Museums (FSU)

PUBLICATIONS:

- 1977:** D.S. Jones and I. Thompson. Echiura from the Pennsylvanian Essex Fauna of northern Illinois. *Lethaia* 10: 317-325.
- 1979:** D.S. Jones, I. Thompson, and W.G. Ambrose. Age and growth rate determinations for the Atlantic surf clam *Spisula solidissima* based on internal growth lines in shell cross-sections. *Marine Biology* 47: 63-70.
- D.S. Jones. The nemertean, *Malacobdella grossa*, in the ocean quahog, *Arctica islandica* (Bivalvia). *Nautilus* 93: 29-30.
- D.S. Jones and I. Thompson. Nautiloid growth rhythms and lunar dynamics. *Nature* 279: 454-455.
- 1980:** I. Thompson and D.S. Jones. A possible onychophoran from the Middle Pennsylvanian Mazon Creek beds of northern Illinois. *Journal of Paleontology* 54: 588-596.
- D.S. Jones. Annual cycle of shell growth increment formation in two continental shelf bivalves and its paleobiologic significance. *Paleobiology* 6: 331-340.
- I. Thompson, D.S. Jones, and D. Dreibelbis. Annual internal growth banding and life history of the ocean quahog, *Arctica islandica* (Mollusca: Bivalvia). *Marine Biology* 57: 23-34.

- I. Thompson, D.S. Jones and J.W. Ropes. Advanced age for sexual maturity in the ocean quahog *Arctica islandica* (Mollusca: Bivalvia) *Marine Biology* 57: 35-39.
- W.G. Ambrose, D.S. Jones, and I. Thompson. Distance from shore and growth rate of the suspension feeding bivalve, *Spisula solidissima*. *Proceedings of the National Shellfisheries Association* 70: 207-215.
- 1981:** D.S. Jones. Annual growth increments in shells of *Spisula solidissima* record marine temperature variability. *Science* 211: 165-167.
- D.S. Jones. (Review of) Skeletal Growth of Aquatic Organisms, by D.C. Rhoads and R.A. Lutz. *American Scientist* 69: 333.
- D.S. Jones. Repeating layers in the molluscan shell are not always periodic. *Journal of Paleontology* 55: 1076-1082.
- D.S. Jones. The reproductive cycles of the Atlantic surf clam, *Spisula solidissima*, and the ocean quahog, *Arctica islandica*, off New Jersey. *Journal of Shellfish Research* 1: 23-32.
- 1982:** D.S. Jones and B.J. MacFadden. Induced magnetization in the monarch butterfly, *Danaus plexippus* L. (Insecta, Lepidoptera). *Journal of Experimental Biology* 96: 1-9.
- D. Nicol and D.S. Jones. *Rotularia vernoni*, an annelid worm tube from the Eocene of peninsular Florida. *Florida Scientist* 45: 139-142.
- D.F. Williams, M.A. Arthur, D.S. Jones, and N. Healy-Williams. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records. *Nature* 296: 432-434.
- K.K. Turekian, J.K. Cochran, Y. Nozaki, I. Thompson, and D.S. Jones. The determination of the shell deposition rates of *Arctica islandica* (Mollusca: Bivalvia) from the New York Bight using natural ^{228}Ra and ^{228}Th and bomb produced ^{14}C . *Limnology and Oceanography* 27: 737-741.
- D.S. Jones. Some considerations of the Late Eocene faunas of northwest peninsular Florida. *In*: D.L. Smith (ed.) *Cenozoic Vertebrate and Invertebrate Paleontology of North Florida*, pp. 14-32. Southeastern Geological Society, Guidebook No. 24, 64 p.
- 1983:** M.L. McKinney and D.S. Jones. Oligopygoid echinoids and the biostratigraphy of the Ocala Limestone of Peninsular Florida. *Southeastern Geology* 24: 21-30.
- D.S. Jones. Sclerochronology: Reading the record of the molluscan shell. *American Scientist* 71: 384-391.
- M.A. Arthur, D.F. Williams, and D.S. Jones. Seasonal temperature-salinity changes and thermocline development in the mid-Atlantic Bight as recorded by the isotopic composition of bivalves. *Geology* 11: 655-659.
- D.S. Jones, D.F. Williams and M.A. Arthur. Growth history and ecology of the Atlantic surf clam, *Spisula solidissima* (Dillwyn), as revealed by stable isotopes and annual shell increments. *Journal of Experimental Marine Biology and Ecology* 73: 225-242.
- 1984:** D. Nicol and D.S. Jones. Mode of life of *Exputens ocalensis* (Malleidae), a Florida Eocene pelecypod. *Florida Scientist* 47: 32-34.

- N.D. Opdyke, D. Spangler, D.L. Smith, D.S. Jones, and R. Lindquist. Origin of the epeirogenic uplift of the Pliocene-Pleistocene beach ridges of Florida and development of the Florida karst. *Geology* 12: 226-228.
- D. Nicol and D.S. Jones. *Bellaxinaea*, a new subgenus of glycymeridids (Pelecypoda) from the western hemisphere. *The Nautilus* 98: 126-128.
- D.S. Jones, D.F. Williams, M.A. Arthur, and D.E. Krantz. Interpreting the paleoenvironmental, paleoclimatic, and life history records in mollusc shells, pp. 333-339. *In*: L. David and J-C. Gall (eds.). *Paleocology 1984*. Geobios Memoire Special No. 8, Lyon, 465 p.
- D.E. Krantz, D.S. Jones, and D.F. Williams. Growth rates of the sea scallop, *Placopecten magellanicus*, determined from the $^{18}O/^{16}O$ record in shell calcite. *Biological Bulletin* 167: 186-199.
- D. Nicol and D.S. Jones. Review of *Postligata*, a Late Cretaceous pelecypod. *Tulane Studies in Geology and Paleontology* 18: 67-69.
- D. Nicol and D.S. Jones. *Chione (Chione) craspedonia* Dall in the Crystal River Formation (Eocene) in peninsular Florida. *Tulane Studies in Geology and Paleontology* 18: 73-75.
- D. Nicol and D.S. Jones. The comparative size of deposit-feeding animals. *Florida Scientist* 47: 197-201.
- J.W. Ropes, D.S. Jones, S.A. Murawski, F.M. Serchuk, and A. Jearld, Jr. Documentation of annual growth lines in ocean quahogs, *Arctica islandica* Linne. *Fishery Bulletin* 82: 1-19.
- 1985:** D.S. Jones and P.F. Hasson. History and development of the marine invertebrate faunas separated by the Central American Isthmus, pp. 325-355. *In*: F.G. Stehli and S.D. Webb (eds.). *The Great American Biotic Interchange*. New York, Plenum Publishing Corp. 532 p.
- D.S. Jones. Growth increments and geochemical variations in the molluscan shell, pp. 72-87. *In*: D.J. Bottjer, C.S. Hickman and P.D. Ward (eds.). *Mollusks: Notes for a Short Course*. Knoxville, TN, University of Tennessee and The Paleontological Society. 305p.
- B.J. MacFadden and D.S. Jones. Magnetic butterflies: A case study of the Monarch (Lepidoptera, Danaidae), pp. 407-415. *In*: J.L. Kirschvink, D.S. Jones, and B.J. MacFadden (eds.). *Magnetite Biomineralization and Magnetoreception in Organisms*. New York, Plenum Publishing Corp. 704 p.
- J.L. Kirschvink, D.S. Jones, and B.J. MacFadden (editors). *Magnetite Biomineralization and Magnetoreception in Organisms: A New Biomagnetism*. New York, Plenum Publishing Corp. 704p.
- D.S. Jones. Sclerochronology, pp. 392-394. *In*: McGraw-Hill Yearbook of Science and Technology: 1986. New York, McGraw-Hill Book Company. 509 p.
- I.R. Quitmyer, H.S. Hale, and D.S. Jones. Paleoseasonality determination based on incremental shell growth in the hard clam, *Mercenaria mercenaria*, and its implications for the analysis of three southeast Georgia coastal shell middens. *Southeastern Archaeology* 4: 27-40.
- I.R. Quitmyer, H.S. Hale, and D.S. Jones. Seasonality study based on the incremental growth data from the quahog clam (*Mercenaria mercenaria*), pp. 59-71. *In*: W.H. Adams (ed.). *Aboriginal Subsistence and Settlement Archaeology of the Kings's Bay Locality; Volume 2: Zooarchaeology*. Gainesville, Florida, University of Florida, Department of Anthropology, Report of Investigations, 2.

- 1986:** D.S. Jones and D. Nicol. Origination, survivorship, and extinction of rudist taxa. *Journal of Paleontology* 60: 107-115.
- D.S. Jones, D.F. Williams, and C.S. Romanek. Life history of symbiont-bearing giant clams from stable isotope profiles. *Science* 231: 46-48.
- D. Nicol and D.S. Jones. *Litharca lithodomus* and adaptive radiation in arcacean pelecypods. *The Nautilus* 100: 105-109.
- C.M. Kussel and D.S. Jones. Depositional history of three Pleistocene bluffs in northeastern Florida. *Florida Scientist* 49: 242-254.
- 1987:** D.S. Jones, P.A. Mueller, J.R. Bryan, J.P. Dobson, J.E.T. Channell, J.C. Zachos, and M.A. Arthur. Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. *Geology* 15: 311-315.
- M.A. Arthur, J.C. Zachos, and D.S. Jones. Primary productivity and the Cretaceous/Tertiary boundary event in the oceans. *Cretaceous Research* 8: 43-54.
- D.E. Krantz, D.F. Williams, and D.S. Jones. Ecological and paleoenvironmental information using stable isotope profiles from living and fossil molluscs. *Palaeogeography, Palaeoclimatology, Palaeoecology* 58: 249-266.
- C.S. Romanek, D.S. Jones, D.F. Williams, D.E. Krantz, and R.L. Radtke. Stable isotopic investigation of physiological and environmental changes recorded in shell carbonate from the giant clam, *Tridacna maxima*. *Marine Biology* 94: 385-393.
- N.D. Opdyke, D.S. Jones, B.J. MacFadden, D.L. Smith, P.A. Mueller, and R.D. Shuster. Florida as an exotic terrane: Paleomagnetic and geochronologic investigation of lower Paleozoic rocks from the subsurface of Florida. *Geology* 15: 900-903.
- D.S. Jones. Obituary: Robert Jerry Britt, Jr., 1962-1987. *Society of Vertebrate Paleontology News Bulletin* 141: 56-58.
- 1988:** D.S. Jones and R.W. Portell. Occurrence and biogeographic significance of *Heliaster* (Echinodermata: Asteroidea) from the Pliocene of southwest Florida. *Journal of Paleontology* 62: 126-132.
- D.S. Jones and R.W. Portell. Fossil invertebrates from Brooks Sink, Bradford County, Florida, pp. 41-52. *In: F.L. Pirkle and J.G. Reynolds (eds.). Southeastern Geological Society Annual Field Trip Guidebook, No. 29, Tallahassee, Southeastern Geological Society, 76p.*
- D.S. Jones, D.F. Williams, and H.J. Spero. More light on photosymbiosis in fossil mollusks: the case of *Mercenaria "tridacnoides"*. *Palaeogeography, Palaeoclimatology, Palaeoecology* 64: 141-152.
- D.S. Jones. Sclerochronology and the size versus age problem, pp. 93-108. *In: M.L. McKinney (ed.). Heterochrony in Evolution: A Multidisciplinary Approach. New York, Plenum Publishing Corp., 348p.*
- 1989:** D.S. Jones and D. Nicol. Eocene clavagellids (Mollusca: Pelecypoda) from Florida: The first documented occurrence in the Cenozoic of the Western Hemisphere. *Journal of Paleontology* 63: 320-323.
- D.S. Jones. Growth rings and longevity in bivalves. *American Conchologist* 17(1): 12-13.

- J.R. Bryan and D.S. Jones. Fabric of the Cretaceous-Tertiary marine macrofaunal transition at Braggs, Alabama. *Palaeogeography, Palaeoclimatology, Palaeoecology* 69: 279-301.
- D.E. Krantz, D.S. Jones and D.F. Williams. Reply to "Aspects of growth deceleration in bivalves: clues to understanding the seasonal $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ record". *Palaeogeography, Palaeoclimatology, Palaeoecology* 70: 403-407.
- S.D. Webb, G.S. Morgan, R.C. Hulbert, Jr., D.S. Jones, B.J. MacFadden and P.A. Mueller. Geochronology of a rich early Pleistocene vertebrate fauna, Leisey Shell Pit, Tampa Bay, Florida. *Quaternary Research* 32: 96-110.
- F.L. Pirkle, E.C. Pirkle, W.A. Pirkle, S.E. Dicks, D.S. Jones and E.A. Mallard. Altama heavy mineral deposits in southeastern Georgia. *Economic Geology* 84: 425-433.
- D.S. Jones, M.A. Arthur and D.J. Allard. Sclerochronological records of temperature and growth from shells of *Mercenaria mercenaria* from Narragansett Bay, Rhode Island. *Marine Biology* 102: 225-234.
- D. Nicol, D.S. Jones and J.W. Hoganson. *Anatipopekten* and the *Rotularia vernoni* Zone (Late Eocene) in peninsular Florida. *Tulane Studies in Geology and Paleontology* 22: 55-59.
- D. Nicol and D.S. Jones. Aberrant individuals of *Mercenaria*: Are they hopeful monsters? *American Conchologist* 17(4): 10-11.
- 1990:** A.F. Randazzo, M. Kosters, D.S. Jones and R.W. Portell. Paleoeology of shallow-marine carbonate environments, middle Eocene of Peninsular Florida. *Sedimentary Geology* 66: 1-11.
- D.S. Jones, I.R. Quitmyer, W.S. Arnold and D.C. Marelli. Annual shell banding, age, and growth rate of hard clams (*Mercenaria* spp.) from Florida. *Journal of Shellfish Research* 9: 215-225.
- L.C. Ivany, R.W. Portell and D.S. Jones. Animal-plant relationships and paleobiogeography of an Eocene seagrass community from Florida. *Palaios* 5: 244-258.
- D.S. Jones. Geochronology of the Florida Plio-Pleistocene: An integrated stratigraphic approach, 14 p. *In*: W.D. Allmon and T.M. Scott (eds.). *Plio-Pleistocene Stratigraphy and Paleontology of South Florida*. Southeastern Geological Society Annual Field Excursion, December 7-8, 1990, Guidebook no. 31.
- 1991:** F.L. Pirkle, E.C. Pirkle, J.G. Reynolds, W.A. Pirkle, D.S. Jones, D.P. Spangler and T.A. Goodman. Cabin Bluff heavy mineral deposits of southeastern Georgia. *Economic Geology* 86: 436-443.
- W.S. Arnold, D.C. Marelli, T.M. Bert, D.S. Jones and I.R. Quitmyer. Habitat-specific growth of hard clams *Mercenaria mercenaria* (L.) from the Indian River, Florida. *Journal of Experimental Marine Biology and Ecology* 147: 245-265.
- D.S. Jones, B.J. MacFadden, S.D. Webb, P.A. Mueller, D.A. Hodell, and T.M. Cronin. Integrated geochronology of a classic Pliocene fossil site in Florida: Linking marine and terrestrial biochronologies. *Journal of Geology* 99: 637-648.
- D. Nicol and D.S. Jones. Present location of continents and oceans as related to the geographic distribution of marine bivalves. *American Conchologist* 19(3): 12-13.
- M.C. Diblin, A.F. Randazzo and D.S. Jones. *Lithoplaision ocalae*: a new trace fossil from the Ocala Limestone (Eocene), Florida. *Ichnos* 1: 255-260.

- 1992:** W.D. Allmon, D.S. Jones and N. Vaughan. Observations on the biology of *Turritella gonostoma* Valenciennes (Prosobranchia: Turritellidae) from the Gulf of California. *Veliger* 35(1): 52-63.
- D.S. Jones and D.K. Jacobs. Photosymbiosis in *Clinocardium nuttalli*: Implications for tests of photosymbiosis in fossil molluscs. *Palaios* 7: 86-95.
- I.R. Quitmyer and D.S. Jones. Calendars of the coast: seasonal growth increment patterns in shells of modern and archaeological southern quahogs, *Mercenaria campechiensis*, from Charlotte Harbor, Florida, pp. 247-264. *In*: W.H. Marquardt (ed.). *Culture and Environment in the Domain of the Calusa*. Institute of Archaeology and Paleoenvironmental Studies, University of Florida, Gainesville, Monograph no. 1.
- D.S. Jones. Integrated stratigraphic approach to geochronology of marine - nonmarine sites in the Plio-Pleistocene of Florida, pp. 51-62. *In*: T.M. Scott and W.D. Allmon, eds., *The Plio-Pleistocene Stratigraphy and Paleontology of Southern Florida*. Florida Geological Survey Special Publication no. 36.
- 1993:** D.K. Krumm and D.S. Jones. A new coral-bivalve association (*Actinastrea* - *Lithophaga*) from the Eocene of Florida. *Journal of Paleontology* 67: 945-951.
- D.S. Jones. Review of: "Eocene-Oligocene Climatic and Biotic Evolution," D.R. Prothero and W.A. Berggren, eds., 1992, Princeton University Press, 568p. *Journal of Geology* 101(5): 684.
- D.S. Jones, P.A. Mueller, D.A. Hodell, and L.A. Stanley. $^{87}\text{Sr}/^{86}\text{Sr}$ geochronology of Oligocene and Miocene marine strata in Florida, pp. 15-26. *In*: V.A. Zullo, W.B. Harris, T.M. Scott, and R.W. Portell, eds. *The Neogene of Florida and Adjacent Regions: Proceedings of the Third Bald Head Island Conference on Coastal Plains Geology*. Florida Geological Survey Special Publication 37, 112p.
- 1994:** W.D. Allmon, D.S. Jones, R.L. Aiello, K. Gowlett-Holmes and P.K. Probert. Observations on the biology of *Maoricolpus roseus* (Quoy & Gaimard) (Prosobranchia: Turritellidae) from New Zealand and Tasmania. *The Veliger* 37: 267-279.
- 1995:** D.S. Jones, P.A. Mueller, T. Acosta and R.D. Shuster. Strontium isotopic stratigraphy and age estimates for the Leisey Shell Pit faunas, Hillsborough County, Florida. *Bulletin of the Florida Museum of Natural History* 37Pt. I(2): 93-105.
- J.D. Bryant, D.S. Jones, and P.A. Mueller. Influence of freshwater flux on $^{87}\text{Sr}/^{86}\text{Sr}$ chronostratigraphy in marginal marine environments and dating of vertebrate and invertebrate faunas. *Journal of Paleontology* 69: 1-6.
- D.S. Jones and W.D. Allmon. Records of upwelling, seasonality and growth in stable-isotope profiles of Pliocene mollusk shells from Florida. *Lethaia* 28: 61-74.
- W.D. Allmon, M.P. Spizuco, and D.S. Jones. Taphonomy and paleoenvironment of two turritellid-gastropod-rich beds, Pliocene of Florida. *Lethaia* 28: 75-83.
- 1996:** W.D. Allmon, S.D. Emslie, D.S. Jones, and G.S. Morgan. Late Neogene oceanographic change along Florida's west coast: Evidence and mechanisms. *Journal of Geology* 104: 143-162.
- D.S. Jones and I.R. Quitmyer. Marking time with bivalve shells: oxygen isotopes and season of annual increment formation. *Palaios* 11: 340-346.
- D.S. Jones. ONLINE - Playing back skeletal recordings. *Palaios* 11: 293-294.

- 1997:** A.F. Randazzo and D.S. Jones, eds. The Geology of Florida. University Press of Florida, Gainesville. 327 p.
- D.S. Jones. The marine invertebrate fossil record of Florida (Chapter 7), pp. 89-117. *In:* A.F. Randazzo and D.S. Jones, eds. The Geology of Florida. University Press of Florida, Gainesville.
- A.F. Randazzo and D.S. Jones. Preface, pp. xvii-xviii. *In:* A.F. Randazzo and D.S. Jones, eds. The Geology of Florida. University Press of Florida, Gainesville.
- C.A. McRoberts, H. Furer and D.S. Jones. Palaeoenvironmental interpretation of a Triassic-Jurassic boundary section from Western Austria based on palaeoecological and geochemical data. *Palaeogeography, Palaeoclimatology, Palaeoecology* 136: 79-95.
- I.R. Quitmyer, D.S. Jones, and W.S. Arnold. The sclerochronology of hard clams, *Mercenaria* spp., from the south-eastern U.S.A.: A method of elucidating the zooarchaeological records of seasonal resource procurement and seasonality in prehistoric shell middens. *Journal of Archaeological Science* 24: 825-840.
- 1998:** W.S. Arnold, T.M. Bert, I.R. Quitmyer, and D.S. Jones. 1998. Contemporaneous deposition of annual growth bands in *Mercenaria mercenaria* (Linnaeus), *Mercenaria campechiensis* (Gmelin), and their natural hybrid forms. *Journal of Experimental Marine Biology and Ecology* 223: 93-109.
- D.S. Jones. Isotopic determination of growth and longevity in fossil and modern invertebrates, pp. 37-67. *In:* R.D. Norris and R.M. Corfield, conveners. *Isotope Paleobiology and Paleoecology*. The Paleontological Society Papers 4, 285p.
- D.S. Jones, L.W. Ward, P.A. Mueller, and D.A. Hodell. Age of marine mollusks from the lower Miocene Pollack Farm Site, Delaware, determined by $^{87}\text{Sr}/^{86}\text{Sr}$ geochronology, pp. 21-25. *In:* R.N. Benson, ed. *Geology and Paleontology of the Lower Miocene Pollack Farm Fossil Site, Delaware*. Delaware Geological Survey, Special Publication 21, 191p.
- 1999:** D.S. Jones and S.J. Gould. Direct measurement of age in fossil *Gryphaea*: the solution to a classic problem in heterochrony. *Paleobiology* 25(2): 158-187.
- D.S. Jones and W.D. Allmon. Pliocene marine temperatures on the west coast of Florida: Estimates from mollusk shell stable isotopes, pp. 243-250. *In:* J.H. Wrenn, J.-P. Suc and S.A.G. Leroy, eds. *The Pliocene: Time of Change*. American Association of Stratigraphic Palynologists Foundation, Dallas.
- 2000:** I.R. Quitmyer and D.S. Jones. The over-exploitation of hard clams (*Mercenaria* spp.) from five archaeological sites in the southeastern United States. *The Florida Anthropologist* 53(2-3): 160-168.
- S. Lidgard and D.S. Jones. Appendix II -- Results of the institutional survey of invertebrate paleontology collections, pp. 121-132. *In:* R.D. White and W.D. Allmon, eds. *Guidelines for the Management and Curation of Invertebrate Fossil Collections including a Data Model and Standards for Computerization*. The Paleontological Society Special Publications 10, 260p.
- 2001:** N.H. Landman, D.S. Jones, and R.A. Davis. Hatching depth of *Nautilus pompilius* in Fiji. *The Veliger* 44(4): 333-339.
- 2002:** K.P. Teusch, D.S. Jones, and W.D. Allmon. Morphological variation in turritellid gastropods from the Pleistocene to Recent of Chile: Association with upwelling intensity. *Palaios* 17(4): 366-377.

- 2003:** L.C. Ivany, B.H. Wilkinson and D.S. Jones. Using stable isotopic data to resolve rate and duration of growth throughout ontogeny: An example from the surf clam, *Spisula solidissima*. *Palaios* 18(2): 126-137.
- 2004:** B.J. MacFadden, J. Labs-Hochstein, I. Quitmyer and D.S. Jones. Incremental growth and diagenesis of skeletal parts of the lamnoid shark *Otodus obliquus* from the early Eocene (Ypresian) of Morocco. *Palaeogeography, Palaeoclimatology, Palaeoecology* 206: 179-192.
- B.J. MacFadden, P. Higgins, M.T. Clements and D.S. Jones. Diets, habitat preferences, and niche differentiation of Cenozoic sirenians from Florida: Evidence from stable isotopes. *Paleobiology* 30(2): 297-324.
- D.S. Jones, I.R. Quitmyer and C. Fred T. Andrus. Seasonal shell growth and longevity in *Donax variabilis* from northeastern Florida: Evidence from oxygen isotopes. *Journal of Shellfish Research* 23(3): 707-714.
- 2005:** D.S. Jones, I.R. Quitmyer and C. Fred T. Andrus. Oxygen isotopic evidence for greater seasonality in Holocene shells of *Donax variabilis* from Florida. *Palaeogeography, Palaeoclimatology, Palaeoecology* 228: 96-108.
- I.R. Quitmyer, D.S. Jones and C. Fred T. Andrus. Seasonal collection of coquina clams (*Donax variabilis* Say, 1822) during the Archaic and St. Johns Periods in coastal northeast Florida, pp. 18-28. *In: D.E. Bar-Yosef Mayer, ed. Archaeomalacology: Molluscs in Former Environments of Human Behaviour. Oxbow Books, Oxford, UK.*
- 2006:** K. Auffenberg, I.R. Quitmyer, J.D. Williams and D.S. Jones. Non-marine Mollusca, pp. 247-261. *In: S.D. Webb, ed. First Floridians and Last Mastodons: The Page-Ladson Site in the Aucilla River. Springer, Dordrecht, The Netherlands.*
- 2007:** M.X. Kirby, D.S. Jones and S.P. Ávila. Neogene shallow-marine paleoenvironments and preliminary strontium isotope chronostratigraphy of Santa Maria Island, Azores, pp. 112-125. *In: Ávila, S.P. and A.M. de Frias Martins, eds. Proceedings of the 3rd Workshop "Paleontology in Atlantic Islands", Ponta Delgada, 12-14 June 2006. Açoreana, suplemento 5.*
- 2008:** M.X. Kirby, D.S. Jones and B.J. MacFadden. Lower Miocene stratigraphy along the Panama Canal and its bearing on the Central American Peninsula. *PLoS ONE* 3(7): e2791. doi:10.1371/journal.pone.0002791.
- 2012:** D.S. Jones, I.R. Quitmyer and C.B. DePratter. Validation of annual increments and shifting population dynamics in modern and zooarchaeological hard clams (*Mercenaria mercenaria*) from the Litchfield Beach region, South Carolina, pp. 149-164. *In: E.J. Reitz, I.R. Quitmyer and D.H. Thomas, eds. Seasonality and Human Mobility along the Georgia Bight. American Museum of Natural History Anthropological Papers, Number 97, 236p.*
- I.R. Quitmyer and D.S. Jones. Annual incremental shell growth patterns in hard clams (*Mercenaria* spp.) from St. Catherines Island, Georgia: A record of seasonal and anthropogenic impact on zooarchaeological resources, pp. 135-148. *In: E.J. Reitz, I.R. Quitmyer and D.H. Thomas, eds. Seasonality and Human Mobility along the Georgia Bight. American Museum of Natural History Anthropological Papers, Number 97, 236p.*
- D.J. Ehret, B.J. MacFadden, D.S. Jones, T.J. De Vries, D.A. Foster and R. Salas-Gismondi. Origin of the white shark, *Carcharodon* (Lamniformes: Lamnidae), based on recalibration of the Upper Neogene Pisco Formation of Peru. *Palaeontology* 55: 1139-1153. Doi: 10.1111/j.1475-4983.2012.01201.x

- 2015:** F. Moreno, A.J.W. Hendy, L. Quiroz, N. Hoyos, D.S. Jones, V. Zapata, S. Zapata, G. A. Ballen, E. Cadena, A. L. Cardenas, J.D. Carrillo-Briceño, J.D. Carrillo, D. Delgado-Sierra, J. Escobar, J.I. Martinez, C. Martinez, C. Montes, J. Moreno, N. Perez, R. Sanchez, C. Suarez, M.C. Vallejo-Pareja and C. Jaramillo. Revised stratigraphy of Neogene strata in the Cocinetas Basin, La Guajira, Colombia. *Swiss Journal of Palaeontology* 134(1): 5-43. Doi: 10.1007/s13358-015-0071-4.
- A.J.W. Hendy, D.S. Jones, F. Moreno, V. Zapata and C. Jaramillo. Neogene molluscs, shallow marine paleoenvironments, and chronostratigraphy of the Guajira Peninsula, Colombia. *Swiss Journal of Palaeontology* 134(1): 45-75. Doi: 10.1007/s13358-015-0074-1.
- B.J. MacFadden, G.S. Morgan, A.F. Rincon and D.S. Jones. Gomphothere proboscidean (*Gomphotherium*) from the late Miocene of Panama. *Journal of Paleontology* 89:360-365.
- 2016:** J.I. Bloch, E.D. Woodruff, A.R. Wood, A.F. Rincon, A.R. Harrington, G.S. Morgan, D.A. Foster, C. Montes, C.A. Jaramillo, N.A. Jud, D.S. Jones and B.J. MacFadden. First Central American fossil primate and early Miocene tropical biotic interchange. *Nature* 533: 243-246.
- 2021:** Jorge D. Carrillo-Briceño; Rodolfo Sánchez; Torsten M. Scheyer; Juan D. Carrillo; Massimo Delfino; Georgios L. Georgalis; Leonardo Kerber; Damián Ruiz-Ramoni; José L.O. Birindelli; Edwin Alberto Cadena; Aldo F. Rincón; Martin Chavez-Hoffmeister; Alfredo A. Carlini; Mónica R. Carvalho; Raúl Trejos-Tamayo; Felipe Vallejo; Carlos Jaramillo; Douglas S. Jones; and Marcelo R. Sánchez-Villagra. A Pliocene–Pleistocene continental biota from Venezuela. *Swiss Journal of Palaeontology* (2021) 140:9, pp. 1-76. <https://doi.org/10.1186/s13358-020-00216-6>
- D.K. Moss, L.C. Ivany and D.S. Jones. Fossil bivalves and the sclerochronological reawakening. *Paleobiology* 2021, pp. 1-23. DOI: 10.1017 / pab.2021.16

PUBLISHED ABSTRACTS:

- 1977:** I. Thompson and D.S. Jones. Aging shelf bivalves using internal annual banding. North Amer. Paleo. Conv. II, Lawrence, Kansas, August 1977.
- I. Thompson and D.S. Jones. The ocean quahog, *Arctica islandica*, "tree" of the North Atlantic Shelf. G.S.A. Ann. Mtg. Abstr. with Prog. 9: 1199.
- 1980:** D.S. Jones. Origin and paleobiologic implications of annual shell layers in continental shelf bivalves. G.S.A., S.E. Sect. 12(4): 180-181.
- D.S. Jones. Reproductive cycles of the ocean quahog, *Arctica islandica*, and the Atlantic surf clam, *Spisula solidissima*, off New Jersey. Nat'l. Shellfish. Assoc. Ann. Mtg. Tech. Abstr., p. 13.
- D.S. Jones. Marine temperature variability recorded in annual shell growth increments of bivalve molluscs. G.S.A. Ann. Mtg. Abstr. with Prog. 12(7): 456-457.
- D.S. Jones. Annual cycle of shell growth and reproduction in the bivalves *Spisula solidissima* and *Arctica islandica*. Diss. Abstr. Int'l. 41(3): 868-B.
- 1981:** D.S. Jones, D.F. Williams, and M.A. Arthur. Historical development of the thermocline on the Mid-Atlantic Bight as recorded in the isotopic composition of bivalves. EOS, Trans. Amer. Geophys. Un. 62: 296.
- D.S. Jones, D.F. Williams, and M.A. Arthur. Stable isotopic and growth studies of *Spisula solidissima*: potential paleohydrographic indicator on temperate continental shelves. G.S.A. Ann. Mtg. Abstr. with Prog. 13(7): 481.
- D.S. Jones and B.J. MacFadden. Induced magnetization in the monarch butterfly, *Danaus plexippus* L. (Insecta, Lepidoptera). EOS, Trans. Amer. Geophys. Un. 62: 850.
- D.S. Jones. Reproductive cycles of the ocean quahog, *Arctica islandica*, and the Atlantic surf clam, *Spisula solidissima*, off New Jersey. J. of Shellfish Res. 1: 117.
- 1982:** D.K. Krumm and D.S. Jones. Paleoeologic significance of coral-boring bivalves from the Ocala Group of peninsular Florida. Florida Scientist 45 (Suppl. 1): 45.
- M.L. McKinney and D.S. Jones. Ontogeny and phylogeny of Eocene oligopygoids from the Ocala Limestone of peninsular Florida. Florida Scientist 45 (Suppl. 1.): 45.
- D.E. Krantz, D.S. Jones and D.F. Williams and M.A. Arthur. Neogene paleoceanography of the Mid-Atlantic Bight as recorded in the isotopic composition of molluscs. EOS, Trans. Amer. Geophys. Un. 63: 360.
- D.E. Krantz, D.S. Jones and D.F. Williams. Paleoenvironmental interpretations using stable isotopes and sclerochronology in molluscs. G.S.A. Ann. Mtg. Abstr. with Prog. 14(7): 535.
- M.L. McKinney and D.S. Jones. Ontogenetic and phylogenetic factors in the echinoid biozonation of the Ocala Limestone of Florida. G.S.A. Ann. Mtg. Abstr. with Prog. 14(7): 562.
- N.D. Opdyke, D.P. Spangler, D.L. Smith, D.S. Jones, and R.C. Lindquist. The origin of the epeirogenic uplift of the Plio-Pleistocene beach ridges and the development of the Florida karst. EOS, Trans. Amer. Geophys. Un. 63: 1122-1123.

- D.S. Jones, D.F. Williams, and M.A. Arthur. Growth history of *Spisula solidissima* Dillwyn as revealed by oxygen isotopes and sclerochronology. *J. of Shellfish Res.* 2(1): 99.
- 1983:** D.K. Krumm and D.S. Jones. Coral-boring bivalves from the Eocene of Florida. *G.S.A. S.E. Sect.* 15(2): 53.
- N.D. Opdyke, D.P. Spangler, D.L. Smith, D.S. Jones, and R.C. Lindquist. Origin of the epeirogenic uplift of the Plio-Pleistocene beach ridges in Florida and development of the Florida karst. *G.S.A. S.E. Sect.* 15(2): 55-56.
- D.K. Krumm and D.S. Jones. The paleogeographic distribution of the endolithic bivalve, *Lithophaga*, through the Cenozoic. *Florida Scientist* 46 (Suppl. 1): 38.
- N.D. Opdyke, D.P. Spangler, D.L. Smith, D.S. Jones, and R.C. Lindquist. Origin of the epeirogenic uplift of Plio-Pleistocene beach ridges in Florida and development of the Florida karst. *Florida Scientist* 46 (Suppl. 1): 39.
- D.S. Jones, D.F. Williams, and D.E. Krantz. Continental shelf paleoceanography based upon stable isotope and growth increment analysis of bivalve molluscs. First International Conference on Paleoceanography; Zurich, Switzerland; July 1983. Abstracts: 33.
- D.S. Jones, D.F. Williams, M.A. Arthur, and D.E. Krantz. Paleoenvironmental, paleoclimatic, and life history records in mollusc shells interpreted using combined growth increment and stable isotope studies. First International Congress on Paleoecology; Lyon, France, July 1983. Abstracts: 86.
- D.S. Jones, D.F. Williams, and D.E. Krantz. Combined stable isotope-growth increment sclerochronology in modern and fossil bivalve molluscs. *G.S.A. Ann. Mtg. Abstr. with Prog.* 15 (6): 605.
- D.S. Jones, B.J. MacFadden, N.D. Opdyke, and D.L. Smith. Paleomagnetism of lower Paleozoic rocks of the Florida basement. *EOS, Trans. Amer. Geophys. Un.* 64: 690.
- J.W. Ropes, D.S. Jones, S.A. Murawski, F.M. Serchuk, and A. Jearld, Jr. Documentation of annual growth lines in the ocean quahog, *Arctica islandica* Linne. *J. of Shellfish Res.* 3(1): 100.
- 1984:** D.E. Krantz, D.F. Williams, and D.S. Jones. Stable isotope profiles from continental shelf bivalve molluscs. *G.S.A. Ann. Mtg. Abstr. with Prog.* 16(6): 565.
- D.S. Jones. Paleoseasonality determination based upon marine molluscs shells: methods and madness. Southeastern Archaeological Conference (41st Meeting) *Bull.* 27: 15.
- I.R. Quitmyer, H.S. Hale, and D.S. Jones. Paleoseasonality study based on incremental shell growth data from the northern quahog (*Mercenaria mercenaria*) and its implications for the analysis of three southeast Georgia coastal shell middens. Southeastern Archaeological Conference (41st Meeting) *Bull.* 27: 22-23.
- 1985:** C.S. Romanek and D.S. Jones. Shell growth in the small giant clam, *Tridacna maxima*, revealed by stable isotopes. *Florida Scientist* 48 (Suppl. 1): 30.
- D.S. Jones. Short period geophysical cycles in fossil accretionary skeletons. Special Symposium in honor of F.B. Van Houten and A. G. Fischer, Princeton University, May 8-9. "Cycles and Periodicity in Geologic Events, Evolution and Stratigraphy"; p. 19.

- C.S. Romanek, D.S. Jones, D.F. Williams, D.E. Krantz, and R.L. Radtke. Paleobiological implications of stable isotope records from the giant clam, *Tridacna maxima*. G.S.A. Ann. Mtg. Abstr. with Prog. 17: 702.
- D.S. Jones, P.A. Mueller, J.E.T. Channell, J.P. Dobson, and J.R. Bryan. Faunal, geochemical and paleomagnetic changes across the Cretaceous-Tertiary boundary at Braggs, Alabama. G.S.A. Ann. Mtg. Abstr. with Prog. 17: 621.
- D.E. Krantz, D.F. Williams, and D.S. Jones. Physiological and environmental factors related to carbon isotopic variations in mollusc shell carbonate. G.S.A. Ann. Mtg. Abstr. with Prog. 17: 634.
- I.R. Quitmyer, S.H. Hale, and D.S. Jones. Seasonality and intensity of shellfish use. Lower Appalachian Mississippian Archaeological Research (LAMAR) Briefs 6: 16-17.
- C.S. Romanek, D.S. Jones, and D.F. Williams. Stable isotopic variations in Pacific giant clams record seasonal cycles and reflect influence of photosymbionts. EOS, Trans. Amer. Geophys. Un. 66: 917.
- 1986:** J.R. Bryan and D.S. Jones. Macrofaunal changes across the Cretaceous-Tertiary (K-T) boundary, Braggs, Alabama. North Amer. Paleo. Conv. IV: A7.
- C.S. Romanek, E.L. Grossman, and D.S. Jones. The effect of metabolism on shell deposition in the giant clam, *Tridacna maxima*, preserved in stable isotopic profiles. Fifth Int'l Symp. on Biomineralization, Arlington, TX; May 19-23.
- D.S. Jones. Sclerochronology and the size versus time problem in heterochronic analysis. G.S.A. Ann. Mtg. Abstr. with Prog. 18: 649.
- P.A. Mueller, D.S. Jones, M.A. Arthur, and J. C. Zachos. Sr, C, and O isotopic systematics of fossil invertebrates and their suitability for Sr isotopic stratigraphy: A case study across the K/T boundary. EOS, Trans. Amer. Geophys. Un. 67: 1064.
- D.J. Allard, M.A. Arthur, and D.S. Jones. Stable isotopic analyses of growth increments in Narragansett Bay molluscs. EOS, Trans. Amer. Geophys. Un. 67: 989.
- 1987:** D.S. Jones. Stable isotopic and sclerochronologic records in modern and fossil photosymbiotic mollusks. G.S.A. S.E. Sect. Abstracts with Prog. 19(2): 92.
- D.S. Jones and R.W. Portell. Fossil multi-rayed starfish (Family Heliasteridae) from southwest Florida. Florida Scientist 50(Suppl.): 25.
- M.C. Diblin, A.F. Randazzo, and D.S. Jones. Description, occurrence, and origin of an enigmatic sedimentary structure from the Ocala Limestone, Florida. S.E.P.M. Ann. Midyear Mtg. IV: 20.
- D.S. Jones, R.W. Portell, and G.A. Bishop. Occurrence and biogeographic significance of multi-rayed starfish (*Heliaster*) with commensal crabs from the Pliocene of southwest Florida. G.S.A. Ann. Mtg. Abstracts with Prog. 19(7): 720.
- 1988:** J.R. Bryan and D.S. Jones. Shallow marine Cretaceous-Tertiary macrofaunal transition in central Alabama. G.S.A. S.E. Section, Abstracts with Prog. 20(4): 255.
- D.S. Jones and P.A. Mueller. Strontium isotopic stratigraphy and age estimates for the Leisey Shell Pit faunas, Hillsborough County, Florida. Florida Scientist 51(Supplement 1): 45.

- D.S. Jones, S.D. Webb and P.A. Mueller. Geochronologic calibration of marine/non-marine faunas from Florida using strontium isotope stratigraphy. *J. Vert. Paleo.* 8(Suppl. to no.3): 19A.
- D.S. Jones, B.J. MacFadden and P.A. Mueller. Geochronology of Plio-Pleistocene marine/non-marine faunas from Florida based on strontium isotope stratigraphy and magnetostratigraphy. *G.S.A. Ann. Mtg. Abstracts with Program* 20(7): A381.
- S.D. Webb, D.S. Jones, B.J. MacFadden and P.A. Mueller. Marine/non-marine stratigraphy in the Late Pliocene and Early Pleistocene of southwest Florida. *G.S.A. Ann. Mtg. Abstracts with Program* 20(7): A381.
- I.R. Quitmyer and D.S. Jones. Calendars of the coast: seasonal growth increment patterns in the shells of modern and archaeological southern quahogs, *Mercenaria campechiensis*, from Charlotte Harbor, Florida. *Southeastern Archaeological Conference Bulletin* 31(Program and Abstracts): 37.
- D.A. Hodell, D.S. Jones, P.A. Mueller, J.P. Kennett, B. Flowers and D.F. Williams. $^{87}\text{Sr}/^{86}\text{Sr}$ increase found in the last deglacial meltwater spike in the Orca Basin, Gulf of Mexico. *EOS, Trans. Amer. Geophys. Un.* 69: 1229.
- 1989:** D.S. Jones. Strontium isotope stratigraphy: application to fossil vertebrate geochronology. *J. Vert. Paleo.* 9(Suppl. to no. 3): 27A-28A.
- D.K. Jacobs and D.S. Jones. Photosymbiosis in *Clinocardium nuttalli*: A model for isotopic "vital effects" with implications for the fossil record of symbiosis. *G.S.A. Annual Meeting Abstracts with Programs* 21(6): A77.
- L.C. Ivany, R.W. Portell and D.S. Jones. Biogeographic, paleoecologic, and evolutionary significance of an Eocene seagrass community: Avon Park Formation, peninsular Florida. *G.S.A. Annual Meeting Abstracts with Programs* 21(6): A112.
- D.S. Jones, P.A. Mueller, D.A. Hodell and K.A. D'Arcy. Plio-Pleistocene strontium stratigraphy in Florida: Linking terrestrial, nearshore, and deep-sea biochronologies. *G.S.A. Annual Meeting Abstracts with Programs* 21(6): A133.
- J.D. Bryant and D.S. Jones. Limits of $^{87}\text{Sr}/^{86}\text{Sr}$ chronostratigraphy in hyposaline environments. *EOS, Trans. Amer. Geophys. Un.* 70: 1147.
- 1990:** L.C. Ivany, R.W. Portell and D.S. Jones. Animal-plant interactions in a fossil seagrass community from the Eocene of Florida. *G.S.A., S.E. Section, Abstracts with Programs* 22(4): A19-20.
- I. Quitmyer, D.S. Jones and N. Borremans. Annual incremental shell formation in the southern quahog, *Mercenaria campechiensis*, from Suwannee Reef, Florida, and its use in determining the paleoseasonality of archaeological shell middens. *Florida Scientist* 53(Suppl. 1): 7.
- D.S. Jones and J.D. Bryant. Modeling $^{87}\text{Sr}/^{86}\text{Sr}$ in marginal marine settings: Can strontium isotope chronostratigraphy be applied to hyposaline paleoenvironments? *G.S.A. Annual Meeting Abstracts with Programs* 22(7): A49.
- I.R. Quitmyer, D.S. Jones and W. Arnold. The periodicity of incremental shell growth in the hard clam *Mercenaria* spp. and archeological site paleoseasonality in the southern part of its range. *International Council for Archaeozoology, Sixth International Conference, May 21-25, Washington, D.C.*

- 1991:** I.R. Quitmyer, D.S. Jones and W. Arnold. Incremental shell formation in the hard clam *Mercenaria* spp. and its use in determining the paleoseasonality of coastal shell middens. Society for American Archaeology, Abstracts of Annual Meeting 56:134.
- D.S. Jones and W.D. Allmon. Paleobiology and paleoecology of modern and Neogene turritelline gastropods from stable isotope profiles of shell carbonate. G.S.A. Annual Meeting Abstracts with Programs 23(5): A162-A163.
- D.K. Krumm and D.S. Jones. A new species of *Lithophaga* (Mollusca: Bivalvia) from the Florida Eocene: Evolutionary and paleobiogeographic implications for the genus. G.S.A. Annual Meeting Abstracts with Programs 23(5): A168.
- L. Stanley, P. Mueller, D. Jones, D. Hodell, J. Garrido and D. Bryant. Sr isotope chronology of the Miocene of Florida: Implications for biochronologies and phosphorite deposition. G.S.A. Annual Meeting Abstracts with Programs 23(5): A295.
- 1992:** D.S. Jones. Annual cycles of temperature and growth in shells of *Mercenaria*: Inverse patterns in northern versus southern populations. American Malacological Union, Program and Abstracts for Annual Meeting 58: 31.
- 1993:** D.S. Jones. Pliocene marine climates in southwestern Florida: Just as seasonal but cooler than today. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 25(4): A25.
- D.S. Jones, P.A. Mueller, D.A. Hodell and L.A. Stanley. Strontium isotope geochronology of selected intervals within the Florida Neogene. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 25(4): A25.
- D.S. Jones. Seasonal cycles in molluscan stable isotope profiles: A key to unlocking records of ontogenetic, environmental, and evolutionary change. G.S.A. Annual Meeting Abstracts with Programs 25(6): A-131.
- 1994:** D.S. Jones and W.D. Allmon. Coastal upwelling in the Florida Pliocene: Evidence from carbon and oxygen isotopic profiles of mollusks. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 26(4): A-22.
- W.D. Allmon, S.D. Emslie, D.S. Jones and G.S. Morgan. The rise and fall of late Neogene upwelling along Florida's west coast: Significance, evidence, and mechanisms. G.S.A. Annual Meeting Abstracts with Programs 26(7): A-170.
- D.K. Jacobs, J.B. Bennington and D.S. Jones. Allometric analysis and isotopic variation in the shell indicates that *Mercenaria tridacnoides* from the Yorktown were epifaunal and suggests photosymbiosis. G.S.A. Annual Meeting Abstracts with Programs 26(7): A-375.
- 1995:** D.S. Jones and R.W. Portell. Pliocene and Pleistocene shelly sequences in Florida: Influence and temporal calibration of disturbance events. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 27(2): A-65.
- D.S. Jones, L.W. Ward, P.A. Mueller and D.A. Hodell. Correlation and temporal calibration of Miocene fossiliferous deposits in Florida, Maryland and Delaware using strontium isotopes. G.S.A. Annual Meeting Abstracts with Programs 27(6): A382.
- 1996:** D.S. Jones, R.W. Portell, L.W. Ward, and P.A. Mueller. Temporal calibration and correlation of fossiliferous Neogene strata in Florida, Maryland and Delaware using strontium isotopes. Sixth North American Paleontological Convention Abstracts of Papers, J.E. Repetski, ed. The Paleontological Society Special Publication No. 8: 201.

- D.S. Jones. Increments and isotopes in mollusks: Tools for interpreting the shell records of ontogenetic, environmental, and evolutionary change. American Malacological Union, 62nd Annual Meeting - Program & Abstracts, p. 41.
- D.S. Jones and S.J. Gould. Cutting the Devil's Toenails: Ontogenetic age determination in *Gryphaea* from the British Jurassic - solution to a classic problem in heterochrony. G.S.A., Annual Meeting Abstracts with Programs 28(7): A-430.
- W.D. Allmon, D.S. Jones, S.D. Emslie, and G.S. Morgan. A major decline in productivity in the western North Atlantic in the Late Pliocene: Evidence and possible mechanisms. EOS, Transactions of the American Geophysical Union 77(46-supplement): F300.
- 1997:** E.A. Nemeth and D.S. Jones. Stable isotopes and the enigma of turritellid-dominated assemblages. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 29(3): 61.
- W.D. Allmon, D.S. Jones, and K. Polizzotto. Evolution and environment in a time of global change: *Turritella cingulata - cingulatiformis* (Gastropoda), Pliocene-Recent of Chile. G.S.A., Annual Meeting Abstracts with Programs 29(6): A-405.
- W.D. Allmon and D.S. Jones. Evolutionary consequences of the formation of the Central American Isthmus: nutrient decline, disturbance, speciation, and extinction. EOS, Transactions of the American Geophysical Union 78(46): F56.
- 1998:** D.S. Jones and S.J. Gould. Ontogenetic age determination in Jurassic *Gryphaea*: solution to a classic problem in heterochrony. World Congress of Malacology, Washington, D.C., Abstracts: 169.
- 1999:** J.F. Wehmiller, D.S. Jones and L.L. York. Optional aminochronologic age estimates for Pleistocene marginal marine units of the Southeastern U.S.: Implications of results from Leisey Pit, Ruskin, Florida. Cenozoic Paleobiology: A Symposium in Honor of Drs. Harold and Emily Vokes, Florida Museum of Natural History, Gainesville, FL, Abstracts and Program: 20.
- J.G. Agnew, R.W. Portell and D.S. Jones. Occurrence and significance of an Early Pleistocene decapod crustacean fauna from southern Florida. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 31(3): A-1.
- J.F. Wehmiller, L.L. York, D.S. Jones and R.W. Portell. Racemization isochrons for the United States Atlantic Coastal Plain Quaternary: Independent calibration and geochemical implications of results from marginal marine units, central Florida. Ninth Annual V.M. Goldschmidt Conference, August 22-27, 1999, Harvard University, Cambridge, MA.
- D.S. Jones. Ontogenetic age determination and evolutionary patterns in *Gryphaea* from the British Jurassic. Biology & Evolution of the Bivalvia, a special symposium of the Malacological Society of London, September 14-17, 1999, Cambridge, UK, Paper and Poster Abstracts: 26-27.
- N.H. Landman, D.S. Jones and R.A. Davis. Hatching depth of *Nautilus pompilius* in Fiji. G.S.A., Annual Meeting Abstracts with Programs 31(7): A-44.
- J.G. Agnew, R.W. Portell and D.S. Jones. Can cuticular fragments greatly enhance the fossil record of decapod crustaceans? G.S.A., Annual Meeting Abstracts with Programs 31(7): A-420.
- R.W. Portell and D.S. Jones. Eocene endolithic and nestling bivalves from Florida: special reference to clavagellids and first report of Eocene clavagellids from Alabama and North Carolina. G.S.A., Annual Meeting Abstracts with Programs 31(7): A-470.

- 2000:** J.G. Agnew, R.W. Portell and D.S. Jones. Concentrated decapod fragments from a Plio-Pleistocene molluscan sequence of northern Okeechobee County, Florida. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 32(2): A-2.
- R.Z. Kehayias, R.W. Portell and D.S. Jones. Paleocology and predation of an unusual concentration of *Turbo* (Mollusca: Gastropoda) from the Plio-Pleistocene of southern Florida. G.S.A., S.E. Section, Annual Meeting Abstracts with Programs 32(2): A-29.
- L.L. York, D.S. Jones, E.E. Martin, R.W. Portell and J.F. Wehmiller. Comparison of strontium isotope and amino acid age estimates for Plio-Pleistocene mollusks, central Florida. G.S.A., Annual Meeting Abstracts with Programs 32(7): A-20.
- 2001:** D.S. Jones. Sclerochronology: Interpreting skeletal records of ontogeny, ecology, and evolution. *J. Vert. Paleo.* 21(3): 66A.
- B.J. MacFadden, D.S. Jones, and I.R. Quitmyer. Stable isotopic determination of growth rates and ontogenetic age in fossil sharks. *J. Vert. Paleo.* 21(3): 75A.
- J.G. Agnew, R.W. Portell, D.S. Jones, and C.M. Tang. The significance of highly variable concentrations of decapod fingers: A comparison of the paleoecology, taphonomy, and sedimentology of several American Neogene deposits. NAPC 2001. *PaleoBios* 21(2 suppl.): 21.
- L.C. Ivany, D.S. Jones, and B.H. Wilkinson. Using stable isotopic data to resolve variation in rate and duration of seasonal growth throughout ontogeny. NAPC 2001. *PaleoBios* 21(2 suppl.): 72.
- D.S. Jones. Biogeochemical variations in a sclerochronologic context: deciphering skeletal records of ontogeny, environment, and evolution. G.S.A., Annual Meeting Abstracts with Programs 33(6): A-112.
- 2002:** B.J. MacFadden, M. Clementz, and D.S. Jones. Ancient diets and ecology of Cenozoic sirenians from Florida: Evidence from stable isotopes. *J. Vert. Paleo.* 22(3): 81A.
- 2003:** D.S. Jones, I.R. Quitmyer, and C. Fred T. Andrus. Seasonal collection of archaeological coquina clams from Florida: Evidence from shell growth and oxygen isotopes. G.S.A., Annual Meeting Abstracts with Programs 35(6): 399.
- D.S. Jones, I.R. Quitmyer, and C. Fred T. Andrus. Stable isotope evidence of middle to late Holocene seasonality and temperature change in archaeological coquina clam shells from Florida. *EOS, Transactions of the American Geophysical Union* 84(52), Ocean Sciences Meeting Supplement, Abstract OS51I-08.
- 2004:** D.S. Jones. Molluscan sclerochronology: practice, pitfalls and potential. Quaternary Research Association and the Geological Society, Annually-Banded Records in the Quaternary, University of Wales, Bangor, p. 32.
- 2005:** D.S. Jones and I.R. Quitmyer. How long does a coquina live? *Donax* most malacologists. Conchologists of America, Annual Meeting, program, p. 6.
- 2006:** I.R. Quitmyer, D.S. Jones and C.B. DePratter. The sclerochronology of modern and archaeological hard clams (*Mercenaria mercenaria*): Evidence for the season of resource procurement and overexploitation during the Pre-Columbian Period in the Litchfield-Pawley's Island Estuary, South Carolina. Southeastern Archaeological Conference (Little Rock, AR), Bulletin 49:40.

- M.X. Kirby, D.S. Jones, and S.P. Ávila. Neogene shallow-marine paleoenvironments of Santa Maria Island, Azores, Portugal. *Atlantic Islands Neogene, Internacional Congress*, Ponta Delgada, Azores, Portugal: 12-14 Junho: 16.
- 2007:** D.S. Jones and I.R. Quitmyer. Isotopic evidence for variable climate and longevity in modern and archaeological coquina clams, *Donax variabilis*, from Northeast Florida. First International Sclerochronology Conference (July 17-21, St. Petersburg, FL), Program and Abstract Book, p. 58.
- A. Booth, M. Savarese, R.W. Portell, D.S. Jones and I.R. Quitmyer. Paleoenvironmental and sclerochronologic reconstruction of large oyster-bearing Pliocene reefs from Curacao. First International Sclerochronology Conference (July 17-21, St. Petersburg, FL), Program and Abstract Book, p. 8.
- M.X. Kirby, D.S. Jones and B.J. MacFadden. Revised Miocene stratigraphy of the Panama Canal Basin and its bearing on the peninsula of Panama. *G.S.A., Annual Meeting Abstracts with Programs* 39(6): 338.
- 2008:** D.S. Jones and I.R. Quitmyer. Sclerochronology of hard clams (*Mercenaria* spp.) as a model for season of exploitation and anthropogenic change in shell middens from the southeastern USA. *G.S.A., Joint Annual Meeting Abstracts with Programs* 40(6): 523.
- K.W. Rich, C.F.T. Andrus, I.R. Quitmyer and D.S. Jones. A growth increment analysis of *Donax variabilis*: comparison between diurnal and semidiurnal tidal habitats. *G.S.A., Joint Annual Meeting Abstracts with Programs* 40(6): 441.
- 2009:** D.S. Jones and I.R. Quitmyer. Prehistoric over-exploitation of *Mercenaria* spp. In the Southeastern USA. *Natl. Shellfish. Assoc. 101st Annual Meeting Program and Abstracts* 101: 60.
- I.R. Quitmyer and D.S. Jones. Shell middens as archives of paleobiological and paleoenvironmental data. *Natl. Shellfish. Assoc. 101st Annual Meeting Program and Abstracts* 101: 76.
- 2012:** J.D. Carrillo, M.C. Vallejo-Pareja, A.L. Cardenas, J.W. Moreno-Bernal, C. Jaramillo, A.J.W. Hendy and D.S. Jones. The neotropical fossil record and the Great American Biotic Interchange. *G.S.A. Annual Meeting and Exposition, Abstracts with Programs* 44(7): 163.
- A.J.W. Hendy, D.S. Jones, L.I. Quiroz, C. Montes and C. Jaramillo. Macroinvertebrate paleontology and chronostratigraphy of Miocene-Pleistocene successions in the Guajira Peninsula of northern Colombia. *G.S.A. Annual Meeting and Exposition, Abstracts with Programs* 44(7): 268.
- 2014:** C. Jaramillo, B.J. MacFadden, J. Bloch, D.S. Jones and G. Morgan. Expansion of the Panama Canal and the rise of the Isthmus. *10th North American Paleontological Convention* 2014: 132-133.
- D.S. Jones, I.R. Quitmyer and C.B. DePratter. Annual shell increments reveal shifting baselines and anthropogenic influences on ancient and modern hard clam populations. *10th North American Paleontological Convention* 2014: 176-177.

GRANTS:

- NSF, Doctoral Dissertation Improvement: Origin and Implications of Annual Growth Banding in Neritic Bivalves; 1977-1979; \$1900.
- Sigma Xi, Grant-in-Aid of Research; Origin and Interpretation of Growth Banding in Arctica islandica and Spisula solidissima with Ecologic and Paleoecologic Implications; 1978-1979; \$200.
- Division of Sponsored Research, University of Florida; Establishment of Marine Paleobiology Laboratory; 1979-1980; \$13,150.
- Division of Sponsored Research, University of Florida; Faculty Research Award; 1980; \$5763.
- Division of Sponsored Research, University of Florida; Fossil Worms of the Bear Gulch Limestone; 1980-1981; \$2500.
- NIH, Biomedical Research Support Grant through Division of Sponsored Research; Monarchs, Magnets, and Migration: The Use of the Earth's Magnetic Field in the Navigation of Butterflies; 1980-1981; \$4900; Co-PI with B.J. MacFadden.
- Graduate School, University of Florida; Travel to AGU Fall Meeting, San Francisco, CA; 1981; \$800.
- NIH, Biomedical Research Support Grant through Division of Sponsored Research; Magnetization in the Monarch Butterfly and the Distribution of Magnetic Material in Migratory and Non-Migratory Butterflies; 1982-1983; \$2,500; Co-PI with B.J. MacFadden.
- NSF, Paleomagnetism of Paleozoic Rocks in Northern Florida and the Southern Appalachians, and Regional Tectonic Implications; 1982-1983; \$30,000; Co-PI with N.D. Opdyke, D.L. Smith, and B.J. MacFadden.
- Division of Sponsored Research, University of Florida; Reading the Environmental Record of Mollusc Shells Using Sclerochronology and Stable Isotopes; 1982-1983; \$11,228.
- NSF, Stable Isotopic and Sclerochronologic Analyses of the Surf Clam, Spisula solidissima: Potential Paleoclimatic and Paleoceanographic Indicator on Temperate Continental Shelves; 1982-1983; \$36,300.
- University of Florida, College of Liberal Arts and Sciences; Travel Grant; To Attend: First International Paleoecology Congress, Lyon, France; July 1983; \$400.
- Division of Sponsored Research, University of Florida; Travel to NSF, Washington, D.C.; August 1983; \$450.
- Division of Sponsored Research, University of Florida; Graduate Assistantship Award for C. Romanek; Summer 1984; \$1725.
- University of Rhode Island, Graduate School of Oceanography; Visiting Assistant Professor; Summer 1984; \$3056.
- University of Rhode Island, Sea Grant Program; Environmental Variability in Narragansett Bay Interpreted from the Shells of Molluscs; 1984-1985; \$16,365; Co-PI with M.A. Arthur.
- University of Florida, College of Liberal Arts and Sciences; Travel Grant; To Attend: Princeton Symposium on Cyclic Phenomena in Earth History; May 1985; \$100.

- University of Rhode Island, Sea Grant Program; Variations in Growth and Shell Chemistry of Mercenaria mercenaria from Narragansett Bay Using Archeological, Modern, and Experimentally-Reared Specimens; 1985-1986; \$22,408; Co-PI with M.A. Arthur. Renewed for 1986-1987; \$23,319.
- University of Florida, Division of Sponsored Research, Graduate Assistantship Award for J.R. Bryan; Fall 1986; \$2574.
- University of Florida, Division of Sponsored Research, Travel to NSF, Washington, D.C.; August 1986; \$470.
- NSF, Marine / non-marine stratigraphy and environments in the Plio-Pleistocene of Florida; 1987-1989; \$64,758; Co-PI with S.D. Webb and P.A. Mueller.
- NSF, Curation and revitalization of the invertebrate paleontology collection; Biological Research Resources Program - collection improvement grant; 1987-1990; \$97,857.
- University of Florida, Florida State Museum Associates, Sclerochronologic and dendrochronologic studies at Cedar Key, Florida; 1988-1989. \$2,000.
- NSF, Improvement of stable isotopic research facilities at the University of Florida; Earth Sciences - Instrumentation and Facilities Program; 1990-1991; \$40,876 (\$41,729 match from UF); Co-PI with D.A. Hodell, K.K. Ellins, C.L. Schelske, and W.F. Keegan.
- NSF, Invertebrate paleontology improvements and integration of orphaned collections: Florida Museum of Natural History; DEB - Biological Research Resources Program - collection improvement grant; 1990-1994; \$324,292.
- University of Florida, Division of Sponsored Research, Graduate Assistantship Award for C.W. Oyen; Fall 1992; \$4,752.
- NSF, The role of ontogenetic variation in evolutionary trends: Size vs. age in the evolution of Jurassic Gryphaea; EAR - Geology & Paleontology Program; 1994-1997; \$97,173.
- University of Florida, Division of Sponsored Research, Research Development Award, Testing the potential application of Sr/Ca ratios in the aragonitic shells of mollusks as a paleothermometer; 1995-1996; \$25,000; Co-PI with D.A. Hodell.
- NSF, Curation and integration of orphaned collections of fossil invertebrates: Florida Museum of Natural History; DEB - Research Collections in Systematics and Ecology Program - collection improvement grant; 1995-1999; \$201,424.
- NSF, A workshop: Management guidelines and computerization standards for invertebrate paleontology; DEB - Research Collections in Systematics and Ecology Program - workshop at NAPC meeting; 1996; \$35,992; Co-PI with W.D. Allmon (PI/PD), S. Lidgard, and N.C. Hughes.
- NSF, Supplement for Museum Internships to: Curation and integration of orphaned collections of fossil invertebrates: Florida Museum of Natural History; DEB - Research Collections in Systematics and Ecology Program - REU; 1997-1998; \$10,000.
- NSF, US-Panama: Planning visit to Panama; \$9845; Office of International Science and Engineering; 2006-2007; Co-PI with B.J. MacFadden (PI/PD) and X.M. Kirby.
- NSF, Computerization and integration of exceptional invertebrate fossil research collections: Florida Museum of Natural History; DBI - Biological Research Collections Program; 2007-2010; \$281,865; PI/PD with R. Portell Co-PI.

University of Florida, Research & Graduate Programs, Research Opportunity Award, Development of an in situ laser system for isotope microsampling of archaeological, paleontological, and geological materials; 2008; \$86,643; Co-PI with J. Krigbaum (PI/PD), J. Bloch, B. MacFadden, R. Secord, J. Curtis and D. Hodell.

University of Florida, Research Opportunity Seed Fund, Integrating optical emission and isotope ratio measurements during laser ablation; 2010; \$85,066; Co-PI with P. Mueller (PI/PD), D. Foster, J. Krigbaum, B. MacFadden, W. Keegan, W. Marquardt, K. Walker, K. Bjorndahl, E. Martin, M. Perfit.

NSF, PIRE – Ancient biodiversity and global change in the New World Tropics: A once-in-a-century opportunity along the Panama Canal; 2010-2015; \$3.8 million; Co-PI with B. MacFadden (PI/PD), J. Bloch, C. Jaramillo, G. Morgan.

National Park Service, Aanalysis of the oxygen and carbon isotopes in shells of the variable coquina clam (*Donax variabilis*) from Canaveral National Seashore: Sea surface temperatures during the occupations of Turtle Mound, Ross Hammock, Seminole Rest and Castle Windy; 2011-2014; \$16,392; I.R. Quitmyer, Co-PI.

University of Florida, Research Foundation, Inc. Explore Research: Multimedia Exhibits Showcasing UF Research; 2011-2015; \$158,050; PI/PD with Betty Dunckel, Co-PI.

NSF, Computerization, Integration and On-line Accessibility of Exceptional Invertebrate Fossil Collections: Florida Museum of Natural History; DBI-Biological Research Collections Program; \$129,190; 2011-2014; PI/PD with Roger Portell Co-PI.

NSF, CSBR: Natural History Collections: Curation, Digitization, Integration, and On-Line Access of Two Exceptional Invertebrate Fossil Resarch Collections; \$184,557; 2015-2018; Co-PI with Michal Kowalewski and Roger Portell.

NSF, Collaborative Research: Comparative Taphonomy and Time-Averaging of Mollusk-Echinoid Assemblages using High-Performance Radiocarbon Dating System; \$393,552; 2021-2024; PI/PD with Co-PI Roger Portell.

THESES SUPERVISED OR UNDER SUPERVISION:

A Paleocological Analysis of the Plio-Pleistocene Formations from Lake Waccamaw to Old Dock, North Carolina - R.G. Lytton III, M.S. (1981).

Ontogeny and Phylogeny of the Oligopygoid Echinoids of the Ocala Limestone - M.L. McKinney, M.S. (1982).

Paleontology and Sedimentary History of Post-Hawthorn Formation Deposition in the Lake Apopka Basin, Florida - L.P. Meyer, M.S. (1983).

Environmental and Growth Information from Stable Isotope Records in the Sea Scallop, Placopecten magellanicus - D.E. Krantz, M.S. (1983, Univ. of So. Carolina).

Depositional History of Three Pleistocene Bluffs in Northeastern Florida - C. Kussel, M.S. (1984).

Shell Growth in the Small Giant Clam, Tridacna maxima, Revealed by Microstructural and Stable Isotopic Variations - C.S. Romanek, M.S. (1985).

- A New Species of *Lithophaga* (Bivalvia) and Its Paleoecologic Implications for the Florida Eocene - D. Dudley, M.S. (1986).
- Macrofaunal Changes Across the Cretaceous - Tertiary Boundary, Braggs, Lowndes County, Alabama - J.R. Bryan, M.S. (1987).
- Correlation Between Marine and Terrestrial Chronologies Along the Cape Hatteras Axis and the Evolution of Southeastern United States Faunal Provinces - R. Jerry Britt, Jr., Ph.D. (Awarded posthumously, 1988).
- Animal-Plant Relationships and Paleobiogeography of an Eocene Seagrass Community: Avon Park Formation, Peninsular Florida - Linda C. Ivany, M.S. (1990).
- New Techniques for Teaching Earth System Sciences in Secondary Schools - Margaret Chai, M.S.T. (1998, co-chair with David Hodell).
- Effects of Environmental Change on Species: *Marvacrassatella* Lineage and the Plio-Pleistocene Record of Sea Level Change – Amy E. Tobias, M.S. (1998, V.P.I. & S.U.)
- Taxonomy, Taphonomy, and Paleoecology of the Plio-Pleistocene Shell Beds at 101 Ranch Pit, Okeechobee County, Florida – Jeffrey G. Agnew, M.S. (2001).
- Biostratigraphy and Diversity Patterns of Cenozoic Echinoderms from Florida - Craig W. Oyen, Ph.D. (2001).
- Records of Paleoenvironment and Growth in Stable Isotope Profiles of Turritellid Shells from the Aquia Formation (Paleocene) of Virginia and Maryland - Elizabeth A. Nemeth, M.S. (2001).
- Systematics, Paleobiology and Paleoecology of Late Miocene Sharks from Panama: Integration of Research and Education – Catalina Pimiento, M.S. (2010, co-chair with B.J. MacFadden).
- Paleobiology and Taxonomy of Extinct Lamnid and Otodontid Sharks (Chondrichthyes, Elasmobranchii, Lamniformes) – Dana J. Ehret, Ph.D. (2010, co-chair with B.J. MacFadden).
- Paleobiology of Mio-Pliocene Sharks, with Emphasis on the Extinct Apex Predator *Carcharolces megalodon*: A Non-Traditional Dissertation Including an Education and Outreach Component – Catalina Pimiento, Ph.D. (2015, co-chair with B.J. MacFadden).