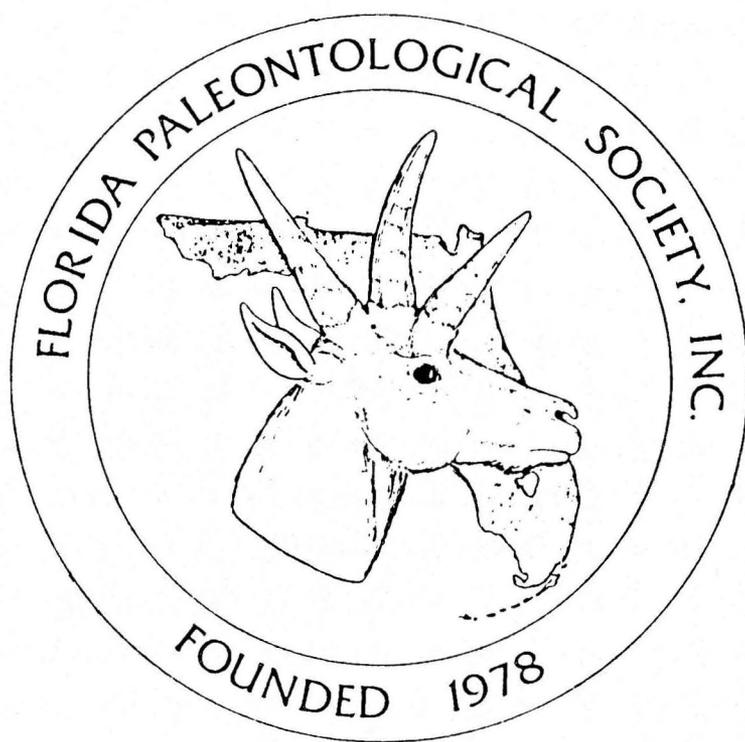


**Florida Paleontological Society, Inc.**

**Newsletter**



**Volume 3 Number 1 Spring Quarter 1986**

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FLORIDA PALEONTOLOGICAL SOCIETY

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Volume Three

Number One

Spring Quarter 1986

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A. Membership. The 1986 renewal forms are included on the last page of the Fall Newsletter. You also received renewal notices in the mail in February. As a new policy, we will publish annually a list of members in good standing. This list appears at the end of this issue.

B. New Technical Series. As mentioned in the last issue, a new technical series sponsored by FPS entitled "Papers in Florida Paleontology" will begin later this year. This will be a formal, reviewed series dealing with all aspects of Florida paleontology and related subjects. Gary Morgan has agreed to serve as editor and the first issue will contain an article by him and Brian Ridgway on a very interesting new Blancan site in the St. Petersburg area.

C. Spring Meeting Announcement. Rick Carter has revived the FPS spring meeting with a field trip to International Minerals and Chemicals (IMC) eighth miles south of Mulberry, FL on Highway 37, Saturday, May 10. Meet at 8:00 a.m. at Sparky's Amoco in Bradley Junction from which the group will go to the mining site. The field trip will be from 9:00 a.m. until 11:30 a.m. with a prepaid barbecue lunch (1/4 chicken, potato salad, baked beans and iced tea) from noon to 1:00 p.m. There will be a FPA meeting from 1:00 p.m. to 3:00 p.m.

YOU MUST PREREGISTER AND PREPAY FOR LUNCH BEFORE APRIL 30 IF YOU WANT TO ATTEND. Please complete the preregistration form inserted in this newsletter and return with \$5.00 for each person attending to FPS at the Florida State Museum, University of Florida, Gainesville, FL 32611. Make checks payable to the Florida Paleontological Society, Inc.

D. Collecting Fossil Vertebrates in Bolivia by Philip M. Whisler, FPS Vice President

On January 11, I had the great fortune to travel to Bolivia with three members of the Florida State Museum: Bruce J. MacFadden, Associate Curator of Fossil Vertebrates; Roger Portell, Collections Manager of invertebrate fossils; and Russell McCarty, Preparator. We spent what I consider to be an exciting month traveling around Bolivia exploring outcrops and collecting fossils.

From a personal standpoint the trip was very successful because it was my first abroad. Everyone worked very hard, but during my free time I was the typical tourist, a "shutterbug" second to none. I tried to sightsee as much as possible. I even went to a Bolivian basketball game. I was exposed to new sights and experiences that I may never see or feel again.

I enjoyed La Paz so much that I hope some day to take my wife, Mary, there to see the Aymara women in their native dress, shop in the "mercado" (a true experience), and dine in the Plaza Hotel (delicious and reasonably priced). I found La Paz an interesting and exciting city.

Tarija, on the other hand, is quiet and peaceful, offering a beautiful badland landscape with more fossils than you can shake a stick at ... and not just scraps of bone and broken teeth but nearly complete glyptodont carapaces, complete sloth and elephant limb bones, and even skulls and jaws. We were like "kids in a candy shop" and it was simply impossible to collect everything there.

All of these things were exciting and memorable, but only because I met my main trip objective to work with professionals. Dr. MacFadden, under sometimes frustrating circumstances, did everything possible to make the trip as enjoyable and comfortable as possible for all of us and he, Roger and Russ treated me as an equal (which made me feel good). Although the work was hard, usually hot and always dirty and dusty, comraderie was high and we tolerated each others' idiosyncrasies. This made for very pleasant working conditions and many good times in and out of the field. I also believe that a big plus for all of us was getting to know Federico Anaya, paleontologist for the Geological Survey of La Paz. Federico became a true friend and an important member of our party. I look forward to seeing him again.

In many ways the trip was very good and profitable. I would like to thank Dr. MacFadden and the Florida State Museum for an experience that I shall never forget ... and for memories I shall always cherish.

#### E. Invertebrate Fossil News by Roger Portell and Jon Bryan

In 1958 Dr. H.K. Brooks, UF Department of Geology, began a collection of invertebrate fossils and soon others such as Dr. R.A. Edwards and Dr. Dave Nicol added to the collection. Dr. Edwards contributed a large sample of microfossils and Dr. Nicol gave many Florida Eocene fossils. These collections were housed in the Department of Geology (Floyd Hall) until 1970 when they were transferred to the present Florida State Museum building. Dr. Graig D. Shaak was hired in 1972 as the first curator of invertebrate paleontology and later became Associate Director of the museum. The collection went without a curator for several years although generous donations continued. One of these was from the Coastal Petroleum Company, Mrs. Muriel Hunter and Joseph E. Banks, composed primarily of Plio-Pleistocene fossils from South Florida. In 1985 Dr. Douglas Jones became the curator of IVP and is concentrating his efforts on the growth, curation and computerization of the collection.

The purpose of the invertebrate paleontology collection is the curation, storage and retrieval of important fossil invertebrates for use by paleontologists, geologists, graduate students and amateurs. The collection is divided into three parts:

The Type Collection includes specimens used in the description of new species. There are many kinds of type specimens, the most

important being the Holotype and the Paratype. The holotype is the individual specimen upon which a species is based. The paratypes are additional specimens of the species used to supplement the holotype. The Type Collection houses 34 holotypes and 86 lots of paratypes.

The Taxonomic Collection organizes specimens according to their systematic classification. The most common fossil invertebrate phyla are: Protista (microfossils), Porifera (sponges), Coelenterata (corals), Bryozoa ("moss animals"), Brachiopoda ("lamp shells"), Annelida (worm tubes), Arthropoda (crabs, barnacles), and Echinodermata (see urchins, sand dollars). The Taxonomic Collection houses 6,000 specimens.

The Stratigraphic Collection includes a variety of specimens from important fossil localities. The abundance of invertebrate fossils in the rock record makes them very useful for correlation and age determination of geologic formations. In fact, the entire geologic time scale is largely based on the distribution of fossil invertebrates. The Stratigraphic Collection primarily consists of fossils from Cenozoic deposits of Florida and the Southeast. The collection houses approximately 35,000 specimens.

The IVP range staff invites FPS members to visit the collections and bring specimens for identification. We also welcome contributions. As with any scientifically useful fossil, we need to have a precise record of where the fossil was collected. In subsequent issues of the Newsletter, we will be featuring articles to assist FPS members in obtaining and using topographic maps, describing the geology of collection localities, collecting invertebrate fossils, identifying invertebrate fossils, and understanding the stratigraphic importance of these fossils.

F. Paleontologist Profile: Roger Portell, Collections Manager of Invertebrate Fossils, Florida State Museum  
by Susan W. Williams, Editor

Little did 11-year-old Roger Portell realize when he was blissfully collecting sea shells on Okinawa beaches years ago that one day his hobby would turn into a profession.

Belonging to a military family, Portell lived all over the United States and the Far East where he indulged in his bug and shell collecting hobby. While working on a business administration degree at Auburn University, he acquired fossils in Alabama and Tennessee. He also took some geology courses and belonged to Auburn's geology club.

After graduation from Auburn in 1980, Portell moved to Orlando, Florida where he worked in a restaurant and then joined Sun Bank there. Recalling that he worked in the research department where he settled customer's disputes over financial statements, he said this job "wasn't something I could see myself doing for 30 years." Of course, in his free time he was collecting fossils.

"Florida has such a wealth of fossils, I went crazy," said Portell who, after six months with the bank, decided to get a degree in geology at the University of Florida.

From September 1982 to January 1983, he worked as a student assistant under Doug Jones curating the UF geology department's invertebrate collections which were in disarray. While still in school, he took a fulltime technician job in February 1984 working for FSM Curator Fred Thompson in the malacology range.

"This afforded me the opportunity to learn about living specimens," said Portell. In addition, he spent six weeks collecting live snails, reptiles and amphibians for FSM mammalogist Charles Woods in Haiti during May and June 1984. After graduating from UF in August 1985, Portell collected vertebrate fossils for FSM Curator Bruce J. MacFadden and snails for Thompson in Bolivia. This past January he also collected vertebrate fossils and looked for new localities with MacFadden in Bolivia.

Before he became manager of the FSM invertebrate collections, Portell said he voluntarily began curating them. Now he oversees the day-to-day maintenance and operation of the collections including collecting in the field; cleaning, preparing and cataloguing specimens, filling loan requests, identifying fossils and recent specimens for amateurs, and handling FSM specimen requests for exhibits. He also assists graduate students and visiting scientists.

Long interested in crabs and mollusks, Portell has donated over 200 fossils to the FSM vertebrate paleontology range and about 800 to the invertebrate collections. Two of his prize donations are a partial archeocete whale skeleton (one of the oldest vertebrate fossils in Florida) and undescribed species of Eocene crabs, all found in a Mayo, FL limerock pit.

"Gary Morgan <FSM vertebrate fossil collections manager> and I are identifying the fossils from the Mayo pit," he said.

"The invertebrate collection could use more specimens from other Florida shell pits," he added. "I will be happy to identify fossils and talk to amateurs about their sites. I am also interested in learning about new localities." He emphasized that he welcomes FPS members' inquiries.

Looking to the future, Portell will be computerizing the invertebrate collections. And for himself, he will be working on a geology master's degree concentrating on Eocene mollusks.

G. Invertebrate Paleontology Accessions at the Florida State Museum by Roger Portell

Brian Ridgway has donated a large sample of invertebrate fossils over the last two years. His most notable donations are the stone crabs Menippe mercenaria from the Pleistocene of Pinellas County. Fossil crab remains, compared to other invertebrate fossils such as molluscs, are rare. The carapaces are thin, fragile and easily destroyed. Brian has donated several complete specimens and numerous partial specimens. Other donations by Brian include a large assemblage of fossil freshwater and land snails also from Pinellas County.

Howard Converse donated four beautiful specimens of Pleistocene stone crabs collected from a drainage canal in Venice, Florida in 1966. We are currently preparing them.

Steve Butler donated one specimen of Menippe sp. from the Anastasia Formation of Flagler County.

Ernest and Evelyn Bradley of Bradenton are actively involved with collection and identification of Florida fossil molluscs in collaboration with the Florida State Museum. They acquired and donated a collection of fossil molluscs which include several rare specimens and many that were not represented in the museum collection.

Mr. and Mrs. Shriner of LaBelle have donated their entire collection of fossil shells from Florida. This includes a large specimen cabinet with many of their best shells. For many years the Shriners have collected from the shell pits of South Florida several of which are no longer accessible. Their fossil shell collections contribute greatly to the understanding of Florida's paleo-environments and evolution of its fossils.

#### H. Dinosaur Lecture Series at the Orlando Science Center

New Theories on Dinosaur Extinction by Dr. Richard Muller (University of California, Berkeley), Saturday, April 12, 2:00 & 7:30 p.m. - a growing body of evidence supports the theory that the dinosaurs were affected by a catastrophic event ... Muller will review several ideas including his theory that the earth collided with comet clouds generated by the close approach of a "death star" orbiting our sun ... Muller is widely known and was the subject of recent articles in Reader's Digest, Time and television specials.

Pre-Historic Life in Florida by Dr. Bruce J. MacFadden, Saturday, April 19, 2:00 & 7:00 p.m. Although there were no dinosaurs in Florida, there was not a shortage of unique life forms. MacFadden will take the audience on a pre-historic tour of our peninsula, complete with giant mastodons, woolly mammoths, one ton armadillos, giant ground sloths and more!

Hot & Cold Running Dinosaurs! by Dr. Robert Bakker (University of Colorado), Saturday, April 26, 2:00 & 7:30 p.m. Dr. Bakker will examine recent fossil evidence that is changing the way we think about dinosaurs. Some examples: dinosaur footprints support the contention that the dinosaurs were warm blooded; Brontosaurus probably lived far from water; the "second brain" in the tail of Stegosaurus was probably a sugar producing gland which helped this armored giant move faster. Bakker's work has recently been featured in Science 85, Scientific American and TV specials.

Seating for the lectures is limited and advanced registration is required. Cost is \$1.50 per lecture for Orlando Science Center members and \$3.00 for non-members. Please note that non-members must also pay general admission. Call (305) 896-7151 for reservations. Address of the Center: 810 East Rollins Street, Orlando, FL 32803-1291.

OSC also features a "moving" dinosaur exhibit from March 10 through May 31. The exhibit consists of four one-half scale replicas of dinosaurs and a two-thirds scale replica of a pre-historic bird. Included are Tyrannosaurus, Triceratops, Stegosaurus, Apatosaurus and the prehistoric "terror bird" Diatryma. Made by Dinamation International, each creature is controlled by a computer driven compressed air system that enables the dinosaurs to move their heads, tails and legs. The creatures even have individual voices, actually growling and shrieking. The exhibit is free to OSC members, \$4.00 for non-members, \$3.00 for children, \$10 per family.

I. Handbook of Paleo-Preparation Techniques by Howard Converse available at \$10.00 each from the author at the Florida State Museum. Includes 125 pp. including 55 illustrations; 8 1/2" by 11" softbound. Topics include laboratory management, basic field collecting, record keeping, mechanical and chemical preparation, exhibit construction, and casting techniques.

J. Recent Accessions to the Vertebrate Paleontology Collection at the Florida State Museum by Gary Morgan

The museum has received a number of important donations of vertebrate fossils during the past year. John Shimmfessel contributed a large collection of late Miocene vertebrates from a horse farm near Ocala. These fossils, collected by FSM staff and students, included skulls, jaws and a number of partially articulated skeletons of a huge shovel-tusked gomphothere, a long-limbed rhino, six species of horses, a three-horned giraffe-like ruminant, alligators and turtles. Jon Bryan donated a partially articulated glyptodont carapace, several bison teeth and other associated fossils from a late Pleistocene site in Pinellas County. Roger Portell contributed a series of Eocene whale and shark teeth from the bottom of the Suwannee River and a large sample of Pleistocene microvertebrates from the Haile Quarries. Elizabeth Stone donated a beautiful complete skeleton of a fossil fish from the Cretaceous of Brazil. One of the more interesting accessions in 1985 came from the Sea Grant Program in St. Augustine (actually donated by Bertha Reese of Fernandina Beach) and included a mastodon tooth, several giant sloth bones (Eremotherium), a bison toe and a giant tortoise, all of which were caught in a shrimp net in Nassau Sound, north of Jacksonville.

Rick Carter and Jim Pendergraft discovered and generously donated an important sample of middle Miocene (Barstovian) fossils from the Bone Valley region. Some of the most notable fossils from this collection are a nice series of teeth and other bones of a small primitive rhino (Teleoceras), a sample of teeth of both primitive and advanced species of the three-toed horse Merychippus, teeth of the small badger-like carnivore Leptarctus, a tooth of the unusual horned-ruminant Procranioceras, and a partial skeleton of a small snake. Don Crissinger also discovered an important new middle Miocene (late Hemingfordian or early Barstovian) fossil site in the Bone Valley area. This site is also rich in rhinos, Merychippus horses and small ruminant artiodactyls, and has also produced a tremendous sample of microvertebrates including hedgehogs, squirrels, small cricetid rodents, etc.

Susan King contributed a metatarsal (foot bone) of the large Bone Valley seal Callophoca. Danny Bryant donated a nice series of Pleistocene birds, rodents and other bones from the Ichetucknee River and several Pleistocene sites in the Bone Valley area. Tony Estevez donated a sample of scutes of a new species of miniature glyptodont from Apollo Beach, several Pliocene bird bones from Sarasota County, and bones from the Leisey Shell Pit, including a pampathere femur, jaws of a juvenile mylodont ground sloth, mastodon, two species of peccaries and the carnassial tooth of an extinct coyote. Chet Oscarson contributed a dinosaur limb bone from Montana. Eric Kendrew donated two whale skulls, a dolphin beak and other vertebrate fossils from the Bone Valley area, and an interesting sample of fossils from a new Hemphillian site in Hillsborough County. Earlene Mitchell contributed additional fossils from her Lockwood Meadows locality in Sarasota. Phil Whisler donated several important bird fossils from the Haile Quarries. Tom Cardinale has continued to collect and donate fossils from a mixed Miocene and Pleistocene site located in 60 feet of water in the Gulf of Mexico west of St. Petersburg. Some of his most interesting finds have been a large seal toe, a Florida panther limb bone, horse teeth and a marlin beak. Brian Ridgway has donated a large sample of early Pleistocene bones from a shell pit in Pinellas County, including an important sample of small mammals, reptiles and snakes.

Jim Dunbar, an underwater archaeologist with the Division of Archives in Tallahassee, and Dave Webb and Dan Cring from the University of Florida, along with a group of dedicated amateur paleontologists, have been scuba diving for fossils in the Aucilla and Wacissa Rivers for several years. They have recovered a large collection of late Pleistocene fossils, many of which appear to be associated with paleoindian artifacts. We would like to thank amateur paleontologists such as Roger Alexon, Don Serbousek, Bob Gingery, Bill Matten, Lou Hill and Mike Stallings who have generously contributed fossils from the Wacissa and Aucilla Rivers.

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