

Florida Paleontological Society , Inc.

Newsletter



Volume 9 Number 3 Fall Quarter 1992

FLORIDA PALEONTOLOGICAL SOCIETY, INC.

OFFICERS

President:	Jim Pendergraft, 17 Jeff Road Jacksonville, Florida 32544
President-Elect:	Frank Rupert, Florida Geological Survey 903 W. Tennessee, Tallahassee, Florida 32304
Past President:	Bill Webster, 12457 Condor Drive Jacksonville, Florida 32223
Vice President:	Rudi Johnson, 4218 Barcelona St. Tampa, Florida 33629
Secretary:	Eric Taylor, P.O. Box 3506 Lake City, Florida 32056
Treasurer:	Kevin Schindler, Florida Museum of Natural History Gainesville, Florida 32611

BOARD OF DIRECTORS

Tim Cassady, Marianna, 1993	Don Crissinger, Nichols, 1992
Gordon Hubbell, Miami, 1992	Clifford Jeremiah, Jacksonville, 1992
Roger Portell, Gainesville, 1994	Warren Allmon, Tampa, 1994
Sue Pendergraft, Largo, 1994	Marilyn Whetzel, Boca Raton, 1993
Phil Whisler, Casselberry, 1992	Bruce MacFadden, Gainesville, 1993
Ray Robinson, St. Petersburg, 1993	

COMMITTEES AND APPOINTMENTS

M. C. Thomas Book:	B. MacFadden, R. Portell, K. Schindler
Nominations:	S. Pendergraft, K. Schindler, Bill Webster
Finance:	K. Schindler, R. Portell, B. MacFadden
Spring Meeting:	S. Pendergraft, J. Latvis, J. Pendergraft
Fall Meeting:	S. Pendergraft, D. Crissinger, A. Brown, T. Ahern
Membership:	Bob Marsh, A. Brown, B. MacFadden
By-Laws:	A. Brown, Eric Taylor, Robyn Miller
Honorary Members and Awards:	D. Webb, J. Pendergraft, C. Jeremiah
Historical:	B. Waller, C. Jeremiah
Board of Editors:	Gary Morgan, Frank Rupert
Museum Representative (appointed):	Doug Jones
Resident Agent:	S. David Webb

HONORARY MEMBERS

Margaret C. Thomas, Ben Waller, Anita Brown

INFORMATION, MEMBERSHIP, AND PUBLICATION INFORMATION

Please Address: Secretary, Florida Paleontological Society, Inc.
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611

The fossil illustrations scattered throughout this issue were drawn by the late Andrew Janson. They were originally prepared for the Florida Geological Survey's Special Publication number 6, "Fossil Mammals of Florida", by Stanley Olsen, published in 1959. Unless otherwise noted, the fossils are shown about one-quarter true size.

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**Florida Paleontological
Society**

Fall Meeting

Bartow, Florida

Saturday, October 17th

and

Sunday October 18th, 1992

Featuring:

Annual Business Meeting

Guest Speakers

Buffet Dinner

Paleontology Auction

Collecting trip to phosphate mine

(COLLECTING TRIP LIMITED TO THE FIRST 100 REGISTRANTS)

See pages 10-11 inside for details and registration form

From the President

Dear Fellow Paleontological Advocates:

Senate bill #3107 was introduced in the United States Congress on July 30, 1992 by Senator Max Baucus (Montana). This bill would make all fossil collecting on public lands illegal. Fossils salvaged from the destructive power of nature and legal mining operations would be impossible to collect. Hundreds of new species and scientifically valuable specimens which could be discovered by amateur and commercial collectors will be lost forever. The professionals simply don't have the resources (time and money) to spend in the field. Professionals and advocational paleontologists need to work together to preserve history rather than let it vanish!

Please don't be complacent. This legislation is the result of few radical professionals and is not completely supported by the Society of Vertebrate Paleontology. In fact Dr. Clayton Ray, curator of V.P. at the Smithsonian resigned in protest. Many professionals have publically spoken against the bill, including Dr. Robert Bakker, Dr. John Ostrom, and Dr. Donald Wolberg.

This legislation would also prohibit school groups and clubs from collecting even the most unscientifically valuable fossils on beaches or in rivers.

Everyone must act now!!

First call 1-202-224-3121 (U.S. Senate switchboard) and ask for your Senator's office.

Second, inform them you are a voter from your state.

Third, state your protest to Senate Bill #S3107. Tell them that this bill will have an adverse effect on your hobby, recreational activities, business, etc.

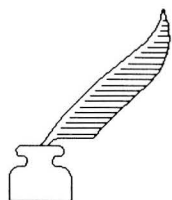
Fourth, a follow-up letter will have double the impact of your phone call.

These views are my own, and do not necessarily reflect those of the entire board or members of the Florida Paleontological Society.

Jim Pendergraft
President, FPS



F.P.S. Happenings



From the Secretary

We currently list 459 members of the FPS, including courtesy and honorary. Of these, 146 have not paid their 1992 dues! If your mailing label doesn't have a '92 under "Paid For:", you are now almost 9 months overdue. Please submit your dues payments to:

Eric Taylor
Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL, 32611

Member Notes...

News about our membership, including new members, changes in address, awards and decorations, published material, etc. Please send information appropriate to this column to either Eric G. Taylor, Secretary or Frank Rupert, Newsletter editor.

Our database has only recently been modified to allow us to post a code to show a new member or a change of address. If we missed you, we're sorry! Blame the computer!

In Memorium: Long time member Bernard L. Smeltzer of Windsor, PA died on May 3rd, 1992. He was 61. His father, H.O. Smeltzer sent us the sad news.

New Members:

Harold D. Dyer
5612 Arthur Street, Apt. 1
Hollywood, FL 33021
(305) 962-9555

Ronald Aldine Feagle, Jr.
Rt. 3, Box 120
Lake City, FL 32055
(904) 752-8561

Kent Eugene Hardin
411 Palmetto Rd.
Bellair, FL 34616
(813) 585-1661

Richard M. Klein
1820 Hawthorn Rd.
Wilmington, NC 28403
(919) 343-1506

Derek R. Hillman
1542 King Arthur Rd.
Jacksonville, FL 32211
(904) 745-1729

Andy Shuerger
8067 Sweetgum Loop
Orlando, FL 32835
(407) 299-1064

Denise and Ryan Ellis
8156 Creedmore Drive
Jacksonville, FL 32244
(904) 778-3105

Gardner A. Finley
2455 Korraime Ct. S.
Ponte Vedra Beach, FL 32082
(904) 285-3727

Address Changes:

Karl Ohlrich
1819 Butch Cassidy Tr.
Wimauma, FL 33538

John Waldrop
1599 Cypress Lake Rd.
Lake Wales, FL 33853

Joseph H. Welch
4411 S. McIntosh Rd.
Sarasota, FL 34233

Kenneth Delventhal
9430 E. Golf Links Rd., #302
Tucson, AZ 85730

Craig C. Taylor
2218 Anita Vista Ave.
Austin, TX 78704

Jim Ranson
10214 Connechuset Rd.
Tampa, FL 33617

COMING SOON-A NEW FPS PUBLICATION!

The Brayfield's book on fossil shells has been turned over to the Florida Museum of Natural History. It will be edited, re-titled, recovered, and re-published by the FPS. Watch for details!

Also, a new issue of *Papers in Florida Paleontology* will be distributed with this newsletter. Authored by Richard Hulbert, it is titled *A Checklist of the Fossil Vertebrates of Florida*. This is an outstanding publication...thanks Richard!

UPCOMING EVENTS

- Oct. 2-4** **Ninth Annual Bone Valley Fossil Fair.** Winter Haven Complex Gym, 210 Cypress Gardens Blvd. & U.S. 17. Call (813) 681-4350 for info.
- Nov. 14-15** **Florida Fossil Hunters Fair,** National Guard Armory, 2809 Fern Creek Ave., Orlando, FL.
- Sept. 5-7** **Aquaventures Unlimited's Labor Day Campout,** in Arcadia, for members and guests. Contact Bob Morgan (305) 221-1783.

BOOK NEWS

The June, 1992 Fossil Club of Miami Newsletter recommends two books as a must for fossil enthusiasts:

Mammalian Osteology, by B. Miles Gilbert, gives information and illustrations of hundreds of bones found in various archeological sites in North America. Available through the Tampa Bay Fossil Club.

Osteology for the Archeologist, by Stanley J. Olsen, illustrates mastodon, mammoth, and fossil bird bones. A good reference book. (Probably can be located through your local bookstore).



VOL. VI NUMBER 1 JULY 1992

at Page/Ladson site

Macrobotanical research updated

Lee Newsom
Florida Museum of Natural History

Archaeobotanical analysis of the Page/Ladson Site was initiated in 1985 when I began identifying plant remains from level B at Page/Ladson, as well as other sites on the Aucilla River and off-shore. A lot of material has since been identified from what is unquestionably a rich and diverse assemblage of well-preserved plant materials.

At Page/Ladson, thirty samples of put and degraded wood have been completely analyzed and six additional samples are in various stages of sample processing and analysis. This work has resulted in 1530 individual plant identifications, representative of 56 separate species.

The macrobotanical evidence from seeds, cones, wood, leaves, tubers, rhizoms, and similarly large-stemmed plant parts has recorded 34 species that are not identified in Barbara Hansen's pollen analyses from the Page/Ladson Site.

Considered together, with their respective fabrics and growth characteristics, the macrobotanical identifications reveal a lot of detail about the type of vegetation and environmental conditions that existed at various times around Page/Ladson, from the Late Pleistocene to the early-middle Holocene.

This picture will be broadened and fine-tuned when the results of my analyses are blended with Hansen's pollen studies. Between six-13 taxa have been identified, including 50 trees or shrubs, pollen, seeds, and wood of hemicland and half-dwelling trees dominate the record; shallow water aquatic species are also frequently represented. Bald cypress (*Liquidambar styraciflua*) seeds and analyses.

→ Please see page 7

October, 1992 Project on Little River

James Dunbar
Field Supervisor

Based on historical research (reporture of Vice Lieutenant J. H. Dunbar) and the diverse archaeological and paleontological investigations involved in this project work as acknowledge the essential support of the Division of Historical Resources, and its Historic Preservation Advisory Council.

→ Please see page 4

Molluscan remains abundant in Aucilla

Irvy R. Quimbyer
Zooarchaeology Laboratory Florida Museum of Natural History University of Florida - Gainesville, Florida 32611

The early participants in the research that has occurred along the Aucilla River have seen the project's focus change in unimagineable ways over the years. Interest in the Late Pleistocene fauna and the associated Paleolithic artifacts has moved to include specialists from several scientific disciplines. Interperposed among these specialists have been

Fig. 1 (above) Close view of 100 concentration units (CU). A block level of CU0023.0022 can be seen on the left side of the right margin and the one below the CU scale. Two singular (isolated) units of separate material appear in the lower center area at 70 with some rounded (trapped) units. The unit is more than 12,500 years old based on carbon dates from an adjacent unit measured in 1988.

Fig. 2 (left) Close up photo of Aucilla, page recovered on July 4, October 1991. (Photo by Ed Green)

SCIENTIFIC OBJECTIVES OF 1991 SEASON

S. David Webb

A major landmark in the history of the Aucilla River Project was our formation of the Aucilla Advisory Council, a multidisciplinary group of scholars who came together in Gainesville in May of 1991 to review our progress and to help us chart our course. Quite clearly, our efforts in the following October's field season were profoundly influenced by the council's collective wisdom. Perhaps the greatest detective was the following item: **At Gainesville: "Your research depends on getting to-phase samples from the bottom of the Aucilla River."**

→ Please see page 7

FLORIDA PREHISTORIC SITE DESCRIBED IN HALF-MILE RISE TIMES

Sporting a newly-revised newspaper format, the *Half-Mile Rise Times* is a newsletter of interest to Florida fossil enthusiasts, archeology fans, or anyone interested in prehistoric Florida. The paper's primary purpose is to provide updates on current research and new discoveries associated with the on-going Half-Mile Rise archeological/paleontological/geological project.

Half-Mile Rise is an emergent stretch of the Aucilla River, between Jefferson and Taylor Counties, Florida. It has yielded numerous fossil clues to Pleistocene life in Florida. Staffed largely by volunteers, the Half-Mile Rise Project is a cooperative venture between the Florida Museum of Natural History and the Department of State's Bureau of Archeological Research. Project divers have recovered a fascinating array of paleoindian artifacts and fossil faunal remains, which should give insight into what Florida was like at the end of the last Ice Age.

Subscriptions are available, and proceeds will go towards continuing and expanding this interesting paper. To subscribe, send \$2.00 with your name and address to:

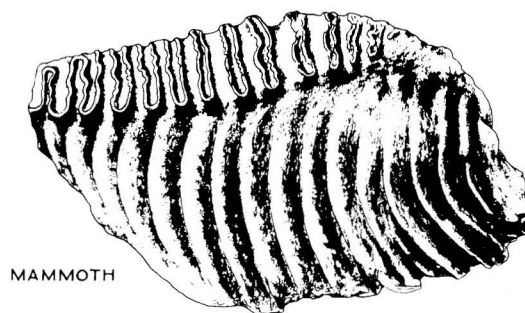
Half-Mile Rise Times
c/o Dr. David Webb
Florida Museum of Natural History
Gainesville, FL 32611

MINUTES
FLORIDA PALEONTOLOGICAL SOCIETY
BOARD OF DIRECTOR'S MEETING
AUGUST 22, 1992

The Board was called to order at 10:00 AM 8/22/92 at the public meeting room at Mobile Mining and Chemical's Nichols, Florida Plant.

Attending were:

President Jim Pendergraft
Vice President Rudi Johnson
Secretary Eric Taylor
Treasurer Kevin Schindler
Past President Bill Webster
Board Member Susan Pendergraft
Board Member Bruce MacFadden
Board Member Gordon Hubble
Board Member Roger Portell
Board Member and meeting host Don Crissinger
Board Member Marilyn Whetzel
Fall Meeting Committee Member Tom Ahern
FPS Member Mrs. William Webster
FPS Member Gary Morgan
Guest Craig Oyen



The first item discussed was the fall meeting. Kevin Schindler presented the Fall Meeting information. He announced that the dates of the meeting would be October 16-18, 1992. The meeting will feature presentations by ex-Florida Museum of Natural History student Richard Hulbert on fossil horses of the Bone Valley, Steve Emslie will present information on his "Bird Site" discovery, and Howard University staff member (and FPS member) Daryl Domning will present information on fossil sireneans from the bone valley. At least two field trips to area phosphate mines are planned, along with the General Membership meeting, a banquet, and (perhaps) a fossil auction.

After discussion, it was decided to charge \$10.00-\$15.00 for the banquet and \$10.00 for the mine field trips. At this point it appears that the field trip will have to be limited to 100 people. Consequently, only the first 100 FPS Members to reserve a place by paying the fees and submitting reservation forms will be able to go. Don Crissinger was directed to locate the meeting and banquet locations, obtain information on motels and restaurants, and provide this information to the newsletter editor in time to have it included in the next newsletter. At least one of the mines will not allow private vehicles in the mine. Therefore, a bus will be arranged to take people to the mine. The bus will be included in the \$10.00 fee. Exact details of the meeting should be available in time to make the next newsletter.

Kevin Schindler gave an abbreviated Treasurer's report that indicated approximately \$30,000 in net assets, including publications. The Thomas book was again our biggest moneymaker.

Roger Portell reported that the Brayfield's had donated their book on fossil shells to the Invertebrate Paleontology Department of the Florida Museum of Natural History. He stated that the museum staff planned to re-edit the book, design a new cover, and update some of the scientific information. He proposed that the FPS provide a sum of approximately \$500 to pay for this work. The Museum would then turn publishing and copyrights over to the FPS. He believes that the wholesale cost would be less than \$10.00. Discussion revealed enthusiastic support and Eric Taylor moved to accept Roger's proposal. The motion passed unanimously.

Board Meeting Minutes, continued

Discussion of the Florida Fossils book was then held. The Board was advised of the status of the book by Gary Morgan. Bruce MacFadden offered to approach Cambridge University Press to see if they might be interested in publishing. Rudi Johnson moved that he be authorized to do so. Susan Pendergraft seconded and the motion carried. Eric Taylor was directed to contact Richard Hulbert about coordinating with Bruce.

Roger Portell reported that the Museum wished to have an exhibit box built to be used first at a Geological Society of America meeting in Tallahassee this fall. Following that meeting, the box would be moved to the museum and have an exhibit installed. It was suggested that the FPS be given credit for the box and that information about our honorary members be placed on the wall by the exhibit. Cost of the box is about \$800. The motion to support this project passed.

The nominating committee gave their report. In addition to President Frank Rupert and Past President Jim Pendergraft, Susan Pendergraft was nominated for President-Elect, Gordon Hubbell for Vice President, Eric Taylor for Secretary, and Phillip Whisler for Treasurer. Because of these changes and the resignation of Warren Allmon, six new board members are needed. Rudi Johnson nominated Tom Ahern and Helen Cozzini. Eric Taylor nominated Robyn Miller and Don Crissinger. Susan Pendergraft nominated Rudi Johnson, and Bruce MacFadden nominated Dr. Steven Manchester.

President Pendergraft appointed a standing committee to handle the Brayfield book project. Members are Roger Portell, chairman, Doug Jones, and Kevin Schindler.

A new *Papers in Florida Paleontology* was passed out. Titled *A checklist of fossil vertebrates from Florida*, it was authored by Richard Hulbert as part of his book project. An outstanding resource, it will be priced at \$5.00 after the membership copies are distributed. Roger Portell moved that authors of "papers" be supplied with 50 free copies. Passed.

The Bylaws Committee had its proposed changes presented by Eric Taylor. The proposed changes were adopted and are highlighted by a change to a two-year office for officers, a change in dues and increased numbers of dues categories. In addition, language was adopted clarifying the correct way to handle checks drawn on FPS accounts. A copy of the revised bylaws will be included with the next newsletter. Bill Webster moved to accept the changes. Susan Pendergraft seconded and the motion carried.

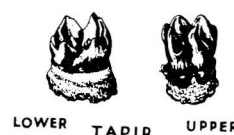
Bruce MacFadden moved that a committee be established to study the idea of student scholarships and grants. Following discussion, it was decided to work on two areas. The first would be to study University Research Grants and the other grants to high school or junior high school or junior college students. President Pendergraft appointed two standing committees. The Scholarship Committee (to work on University level projects) was Bruce MacFadden, Bill Webster, Roger Portell, and Rudi Johnson. The Education Committee is Susan Pendergraft, Tom Ahern, and Marilyn Whetzel.

Kevin Schindler discussed abuses in Butvar ordering and minimums for books. Following discussion, it was decided to limit Butvar sales to FPS members and to a maximum of 5 pounds. The Thomas Book will have a ten book minimum instead of the current 24. Eric Taylor moved acceptance, and Don Crissinger seconded. Motion passed.

There being no further business, the meeting was adjourned at 12:25 PM.

Respectfully submitted,

Eric G. Taylor
Secretary



Proposed Bylaw Changes

The following proposed changes to the Florida Paleontological Society Bylaws have been reviewed by the Board of Directors, and will be voted on at the Fall Meeting:

ARTICLE I - NAME AND TITLE:

Line 3Florida State Museum.....to read:
.....Florida Museum of Natural History.....

Note: Florida State Museum shall be changed throughout the rest of this document and shall read: Florida Museum of Natural History.

ARTICLE III - DUES: (page 2)

SECTION 1:

Line 1shall be
Line 2ten (\$10.00).....to read:
Line 2fifteen(\$15.00).....



Oxyrhina



Notidanus

S H A R K



Galeocerdo



Hemipristis

ARTICLE IV - MEETINGS: (page 2)

SECTION 5: (page 3)

Add paragraph: "A form designating the vacancies on the Board of Directors will be submitted to the members in the Spring Newsletter prior to the Annual Meeting. Such form may be used to send nominations for any vacancies to the nominating committee or to the Secretary of the Corporation."

ARTICLE IV - MEETINGS:

SECTION 6: (page 3)

Add paragraph: "Ballots will be held by the Secretary for 30 days following the Annual Meeting and then destroyed."

ARTICLE V - OFFICERS: (page 5)

SECTION 1.

Commencing with the first Annual Meeting of the Members, the officers of the Corporation shall be: President, President-Elect, Vice President, Secretary, and Treasurer, all of whom (except as herein provided) shall be elected by the Members from among themselves at each Annual Meeting. After the first Annual Meeting the President-Elect shall automatically assume the office of President for the ensuing year and there shall be no election for the office of President.

Shall be changed to read:

SECTION 1.

Commencing with the first Annual Meeting of the Members, the officers of the Corporation shall be:.....at each Annual Meeting held in even numbered years. After the first Annual Meeting the President-Elect shall automatically assume the office of President at the next election.....

ARTICLE V - OFFICERS: (Page 5)

SECTION 2.

Each Officer shall assume office immediately upon election and shall hold such office until the next Annual.....

Shall be changed to read:

SECTION 2.

Each Officer shall assume office immediately upon election and shall hold such office for a term of two years until the Annual Meeting of the Members or until a successor has been duly elected or appointed.

ARTICLE VIII - CONTRACTS, CHECKS, DEPOSITS, FUNDS: (page 7)

SECTION 2.

.....Vice-President, and Treasurer.

Shall be changed to read:

SECTION 2.

.....Vice-President, or Treasurer.



RHINOCEROS

REVISED BY-LAWS

FLORIDA PALEONTOLOGICAL SOCIETY, INC.

By-Laws

(NOVEMBER 1978 REVISED OCTOBER 1985; October 1992)

ARTICLE I

NAME AND TITLE

The name and title of this corporation shall be the FLORIDA PALEONTOLOGICAL SOCIETY, INC., and shall be located at the Florida Museum of Natural History, University of Florida, Gainesville, Florida 32611. The Corporation may have such other offices as the Board of Directors may determine, or as the affairs of the Corporation may require.

ARTICLE II

MEMBERSHIP

Section 1. Any natural person who has attained the age of 18 years may apply for Membership in the Corporation by submitting a completed Membership Application to the Secretary of the Corporation. The Board of Directors shall ascertain whether the applicant is qualified for Membership under Article IV of the Articles of Incorporation, and upon so finding shall declare such applicant elected. Regular Members may hold office in the Corporation and may exercise all voting rights, and shall enjoy all other benefits conferred upon regular Members by the By-Laws.

Section 2. Any person who has not yet attained the age of 18 years may apply for an Associate Membership in the Corporation by submitting completed Associate Membership application to the secretary. The Board of Directors shall ascertain whether the applicant is qualified for Membership and upon so finding shall declare such applicant elected. The Secretary shall promptly notify new Associate Members of their election. Associate Members shall have all the benefits of Regular Membership, except the right to vote and the right to hold office.

Section 3. The Board of Directors, by affirmative vote of two-thirds of its Members, may, after an appropriate hearing, suspend or expel a Member or Associate Member for cause. "Cause" is here defined as open and notorious conduct which may be associated in the mind of the public with the Florida Paleontological Society and which can reasonably be expected to injure the reputation of the Society.

Section 4. Any Member or Associate Member may resign by filing a written resignation with the Secretary, but such resignation shall not relieve the Member or Associate Member so resigning of the obligation to pay any dues theretofore accrued and unpaid.

Any member, so resigning, may rejoin under the provisions of Article II, Section 1 & Section 2.

Section 5. Honorary Membership may be awarded by the Board of Directors to a person who has rendered eminent service to the Society, or to the cause of paleontology. Honorary Membership bears the privileges of individual Membership (except voting privileges) without the payment of dues. Nominations for Honorary Membership may be made by any member of the Society to the Board of Directors at least 30 days prior to the Annual meeting.

ARTICLE III

DUES

Section 1. Annual dues, for the calendar year shall be ten (\$10.00) dollars for Members and five (\$5.00) dollars for Associate Members. All dues shall be payable in advance of the first day of January of each year.

Section 2. Notice of payment of Dues shall be printed in the Society's publication (Plaster Jacket, Newsletter, etc). arrears in payment of dues beyond the month of January in any year shall be construed as resignation from the Corporation. A list of paid Members shall be published in the first yearly issue of the Society's publication; new Members to be published in subsequent issues.

Section 3. A Member shall not be entitled to vote on any issue or matter until such time as said dues are paid current.

Section 4. Any institution wishing to receive the Corporation's publications may subscribe at the same rate as a Member's annual dues, but shall not be eligible to hold office or have voting rights.

ARTICLE IV

MEETINGS

Section 1. An Annual meeting of the Members shall be held on a Saturday in the month of October of each year, beginning with the year 1979, at which meeting the Members shall elect the Directors and Officers for the coming year, and for the transaction of such other business as may come before the meeting. The hour and date of said meeting shall be fixed by the Board of Directors.

Section 2. Special Meetings of the Members may be called by the President, the Board of Directors, or by not less than one-tenth of the Members having voting rights.

Section 3. The Board of Directors may designate any place within the State of Florida as the location for any Annual or Special Meeting called by the Board of Directors. If no designation is made, or if a Special Meeting be called other than by the Board of Directors, the place of meeting shall be at the principle office of the Corporation in the State of Florida.

Section 4. Written or printed notice stating time, place and purpose for any Special Meeting of the Members shall be delivered to each member either personally or by mail, by the Secretary of the Corporation, not less than thirty nor more than sixty days prior to the date of such meeting. If mailed, such notice shall be deemed to be delivered when deposited in the United States mail, with postage paid thereon, addressed to a Member at such Member's address appearing on the records of the Corporation.

Section 5. Nominations of candidates for office, in addition to those presented by the Nominating Committee, may be submitted to the Secretary in writing no later than September 1, of each year, and any such nominations received shall be voted on at the Annual Meeting. Nominations from the floor shall not be permitted and shall be ruled out of order by the President.

A form designating the vacancies on the Board of Directors will be submitted to the members in the Spring Newsletter prior to the Annual Meeting. Such form may be used to send nominations for any vacancies to the Nominating Committee or to the Secretary of the Corporation.

Section 6. Election of Officers and Directors shall be by sealed ballots at the Annual Meeting of the Corporation, which ballots shall be counted by the Election Committee, and the election results announced at the Annual Meeting.

Ballots will be mailed to all eligible Members with an enclosed self-addressed envelope marked "Ballot" forty-five (45) days prior to the Annual Meeting. All ballots must be in the hands of the Secretary prior to 9:00 AM on the day of the Annual Meeting with the signature and return address of the member in the upper left hand corner of the ballot envelope in order to be counted.

Ballots will be held by the Secretary for 30 days following the annual meeting and then destroyed.

Section 7. One-tenth (1/10) of the Corporation's Membership shall constitute a quorum at any meeting of the Membership. If a quorum is not present, a majority of the Members present may adjourn the meeting without further notice.

Section 8. A majority of the votes of the Members at any meeting where a quorum is present shall be necessary for the adoption of any matters coming before them, unless a greater proportion is required by law, the Articles of Incorporation, or these By-Laws.

Section 9(a). Matters which require urgency and approval by the general Membership may be noted upon by the Membership through the mail, provided each eligible member is mailed a copy of the items to be noted upon and a ballot for voting such items. A deadline of at least one month shall be set for the return of said ballots.

9(b). Matters which require urgency and approval by the Board of Directors may be voted upon by the Members of the Board of Directors through the mail, provided each eligible member is mailed a copy of the items to be voted upon and a ballot for voting such items. A deadline of at least one month shall be set for the return of said ballots.

Section 10. The Board of Directors shall hold two regular meetings annually. One regular Annual Meeting shall be held without notice other than this By-Law, on the same day and at the same place as the Annual Membership Meeting. The Board of Directors may provide by resolution the time and place for the additional regular Annual Meeting of the Board without other notice being necessary.

Section 11. Notice of any Special Meeting of the Board shall be given at least thirty days prior thereto by written notice delivered personally or by mail or telegram to each Director at the address shown on the records of the Corporation.

Section 12. A majority of the Board of Directors shall constitute a quorum for transaction of business at any meeting of the Board; but if less than a quorum is present at said meeting, a majority of the Directors present may adjourn the meeting without further notice.

Section 13. The act of a majority of the Directors present at a meeting and whereby a quorum is present, shall be the act of the Board of Directors, unless the act of a greater number is required by law, the Articles of Incorporation, or these By-Laws.

Section 14. All meetings of the Members and of the Board of Directors of the Corporation shall be conducted in accordance with Roberts' Rules of Order, Newly Revised.

ARTICLE V

BOARD OF DIRECTORS

Section 1. The affairs of the Corporation shall be managed by its Board of Directors. To be eligible for election, Directors must be Members of the Corporation in good standing.

Section 2. Commencing with the first Annual Meeting of the Members, the Board of Directors shall consist of not less than ten nor more than seventeen persons.

Section 3. The Board of Directors shall consist of the President, President-Elect, Vice-President, Secretary, Treasurer, Immediate Past-President, and a current Curator of the Florida Museum of Natural History (appointed by the Director of the Museum). Additionally, there shall be not less than three (3) nor more than ten (10) other directors who shall serve staggered three year terms. An Election to fill expiring terms of Members of the Board of Directors shall be held annually as set forth in these by-laws.

Section 4. No salary shall be received by the Members of the Board of Directors for their services in such capacity. However, by resolution of the Board of Directors, expenses of attendance, if any, may be allowed for each Regular or Special Meeting of the Board.

Section 5. Any vacancy occurring on the Board of Directors may be filled by the affirmative vote of a majority of the Board of Directors though less than a quorum of the Board. A Director elected to fill a vacancy shall be elected for the unexpired term of his predecessor in office or until his or her successor is duly elected.

ARTICLE VI

OFFICERS

Section 1. Commencing with the first Annual Meeting of the Members, the Officers of the Corporation shall be: President, President-Elect, Vice-President, Secretary, and Treasurer, all of whom (except as herein provided) shall be elected by the Members from among themselves at each Annual Meeting held in even

REVISED BY-LAWS, Continued

numbered years. After the first Annual Meeting the President-Elect shall automatically assume the office of President at the next election of Officers and there shall be no election for the office of President.

Section 2. Each Officer shall assume office immediately upon election and shall hold such office for a term of two years until the Annual Meeting of the Members or until a successor has been duly elected or appointed.

Section 3. A vacancy in any office because of death, resignation, removal or otherwise may be filled by the Board of Directors for the unexpired portion of the term.

Section 4. The President shall be the principal executive officer of the Corporation and shall in general supervise and control the business and affairs of the Corporation. He shall preside at all meetings of the Members, and of the Board of Directors. At each Annual Meeting of the Members, the President shall render a report of his activities and those of the Board of Directors during his tenure in office. He may sign, with the Secretary or any other proper Officer of the Corporation authorized by the Board of Directors, any instrument which the Board of Directors has authorized to be executed, except when the signing and execution thereof shall be expressly delegated by the Board of Directors or by these By-Laws or by Statute to some other Officer or Agent of the Corporation. The President shall establish needed committees and appoint chairpersons thereof; and, in general, perform all duties incident to the office of President and such other duties prescribed by the Board of Directors.

Section 5. The Vice-President, in the absence of the President or in the event of the President's inability or refusal to act, shall perform the duties of the President, and when so acting shall have all the powers of and be subject to all the restrictions upon the President. The Vice-President shall perform such other duties as may be assigned to him by the President or the Board of Directors.

Section 6. The President-Elect shall assist the President in any fashion as the President may deem necessary, and in the absence of both the President and the Vice-President, or in the event of their inability or refusal to act, the President-Elect shall assume all the privileges and perform all the duties of the President, and when so acting shall have all the powers of and be subject to all the restrictions upon the President.

Section 7. The Secretary shall keep the Minutes of the meetings of the Members and the Board of Directors in one or more books provided for that purpose; maintain the Minutes of Committee Meetings when those Minutes are submitted by committees; see that all notices are duly given in accordance with the provisions of these By-Laws or as required by law; prepare and mail notices of meetings, Minutes, proxy forms, ballots and all other correspondence of the Corporation, act as custodian of the Corporate records and seal of the Corporation and see that the seal of the Corporation is affixed to all documents as authorized by the provisions of these By-Laws; issue Membership cards as approved by the Board of Directors, keep a register of the mailing address of each Member; maintain files on all Corporation activities, and in general perform all duties incident to the office of Secretary and such other duties assigned by the President or Board of Directors. The Board may authorize hiring the services of a competent person, who need not be a Member of the Corporation, to assist the Secretary.

Section 8. The Treasurer shall have charge and custody of and be responsible for all funds and securities of the Corporation; receive and give receipts for moneys due or paid to the Corporation from whatever source; deposit such funds in the name of the Corporation in such banks, trust companies or other depositories as shall be selected in accordance with the provisions of Article VII of these By-Laws; disburse Corporation funds in accordance with the Corporation's budget or as directed by the Board of Directors; keep full and accurate fiscal accounts; submit a complete annual financial statement at the Annual Meeting of the Members of the Corporation; prepare, at the direction of the Board of Directors, an annual budget for the Corporation; issue dues notices and collect all dues and financial contributions to the Corporation; and, in general, perform all duties incident to the office of Treasurer or such other duties assigned to him by the President or Board of Directors. If required by the Board, the Treasurer shall give bond for the faithful discharge of his duties in such sum and with surety or sureties as determined by the Board, cost of which surety shall be paid by the Corporation.

Some or all of the duties of the Treasurer may, upon recommendation of the Board, be contracted out to a Certified Public Accountant or appropriate agency.

ARTICLE VII

COMMITTEES

Section 1. The President shall appoint all committees and designate their chairpersons.

Section 2. The President shall appoint a Publications Committee and a chairperson who shall be designated as Editor. The Editor shall be responsible for the publications of the Corporation, subject to the direction of the Board of Directors.

Section 3. The President shall appoint a Historical Committee and a chairperson who shall be designated as the Historian of the Corporation. He shall maintain the Corporation's Archives and shall correspond with its Members and others on matters of Paleontological significance.

Section 4. The President, at least two months prior to the Annual Meeting shall appoint an Auditing Committee to consist of three Members of the Corporation, none of whom shall be an Officer or Member of the Board of Directors of the Corporation for the current year. The Auditing Committee shall carefully examine the Corporation's financial records and submit a report to the Members at the Annual Meeting.

Section 5. The President, prior to June 1 of each year, shall appoint a Nominating Committee to consist of the most recent Past-President of the Corporation, as chairperson, and two

Members, which Committee shall, prior to July 1 of each year, submit to the Secretary of the Corporation a list of the Committee's nominees. The Secretary, not later than July 31 of each year, shall publish and distribute to all Members the names of the Nominating Committee's nominees, with a brief biographical sketch of each nominee.

Section 6. The President shall appoint an Election Committee of at least three (3) Members present at the Annual Meeting for the purpose of counting election ballots. No member who has been nominated for office in that election will be a member of this committee

ARTICLE VIII

CONTRACTS, CHECKS, DEPOSITS, FUNDS

Section 1. The Board of Directors may authorize the President of the Corporation to enter into any contract, or execute and deliver any instrument, in the name of and on behalf of the Corporation.

Section 2. All checks, drafts or orders for the payment of money issued in the name of the Corporation shall require any two (2) signatures of the following officers: President, Vice-President, or Treasurer.

Section 3. The Board of Directors may accept on behalf of the Corporation any contribution, gift, bequest or devise for the general or special purposes of the Corporation.

Section 4. The fiscal year of the Corporation shall begin on the first day of January and end on the last day of December, in each year.

ARTICLE IX

CODE OF ETHICS

Section 1. A Member of the Florida Paleontological Society is expected to strive to increase his own knowledge of paleontology, particularly to Florida prehistory.

Section 2. A Member is expected to share his knowledge with fellow Members and with the public to encourage the study of paleontology.

Section 3. A Member is expected to share significant information with professional paleontologist so that important data is not lost to science.

Section 4. A Member is expected to make fossil material available for examination, under reasonable terms and conditions, by professional and non-professional Members in order to further the study of paleontology.

Section 5. A Member who is a professional paleontologist is expected to deal with non-professional Members in a helpful supportive manner.

Section 6. A Member is expected to be sensitive to ecological concerns when doing field work.

Section 7. A Member is expected to conduct his paleontological activities in such a manner that the Florida Paleontological Society will not be brought into disrepute.

ARTICLE X

AMENDMENT OF BY-LAWS

Section 1. Prior to the annual Meeting of the Members in 1979, these By-Laws may be amended, rescinded, altered or added to by a majority vote of the Board of Directors. The By-Laws adopted by the Members at the first Annual Meeting of the Corporation in the year 1979 may thereafter be amended, rescinded, altered or added to by a majority of the Members at any meeting where a quorum is present, and when written notice of such intended action has been given to all Members in advance of such meeting, in accordance with the By-Laws.

ARTICLE XI

CHAPTERS OF THE SOCIETY

Section 1. Status as a chapter of the Florida Paleontological Society is open to any group of at least ten (10) person who:

a) As individuals meet the qualifications for Membership in the Society;

b) Band together for establishment of a local (city, county, or area) organization to pursue the objectives of the Society, as well as for the purpose of their own, so long as such purposes are not contrary to the Constitution of the Society.

c) Request formal recognition by the Society as a chapter.

d) Adopt a Constitution and By-Laws (not in conflict with the Society's Constitution and By-Laws) to provide efficient operation of the chapter.

e) Agree that all Members of the chapter shall maintain Membership in the Florida Paleontological Society, Inc.

Section 2. Application for chapter status shall be made by the interested group to the Board of Directors of the Society. Upon majority vote of approval, the Board of Directors shall instruct the Secretary to issue formal recognition to the chapter.

These By-Laws were adopted by the initial Board of Directors of the Corporation on November 20, 1978. Last amended: October 5, 1985. October 17, 1992.

Florida Paleontological Society
Fall Meeting Information and Schedule
October 17-18, 1992

Accommodations: The Davis Brothers Motor Lodge, 1035 N. Broadway, Bartow, FL, 33830, is the meeting headquarters. Rooms are available at corporate rate for FPS members, but you must specify this when you make reservations. The corporate rates are: *Single Rm. - \$29.00 plus tax; Double Rm. - \$35.00 plus tax per night.* The Davis Brothers phone number is (800) 424-0711 or (813) 533-0711.

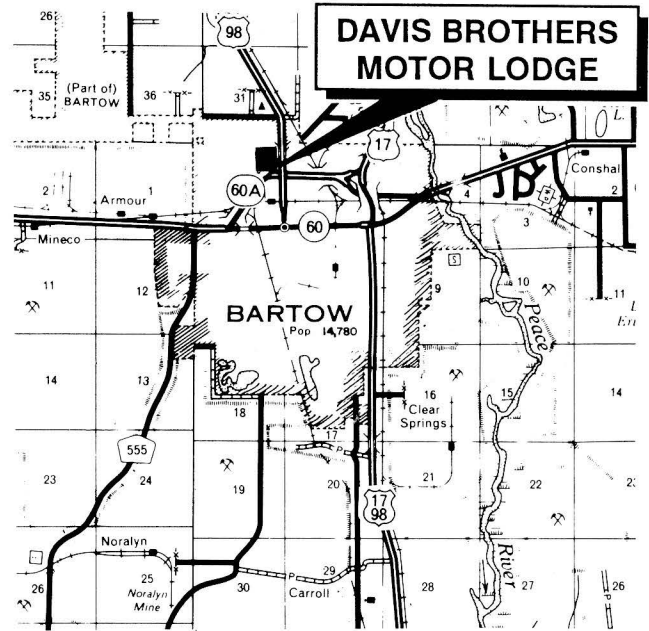
Registration: Persons *must be FPS Members to register and attend trips.* Registration fees are as follow (use form at right):

Adults - \$12.00

Children under 6 - \$6.00

The registration fee includes the general meeting, talks, auction, and a Shrimp Boil Buffet Dinner Saturday night, consisting of *boiled and fried shrimp, catfish, mackerel, roast beef, salad bar, vegetables, and beverage (including beer).* Pick up meal ticket when you register. The field trip fee is additional (see below).

Field Trip: You **must** be an FPS Member *and* register for meeting to attend the field trip. The field trip fee is **\$8.00 per person, and will be limited to the first 100 registrants.** Please specify number attending on form at right. The meeting group will be split into two groups, each collecting at different nearby phosphate mines. Refreshments will be provided. Directions to the mines will be provided at registration. ***Hard hats and safety glasses are mandatory in order to enter the mines...bring your own!***



Meeting Schedule

Saturday, October 17:

- | | |
|----------------------|--|
| 10:30-11:30 A.M. | Registration , coffee and donuts - lobby of Davis Brothers Motor Lodge. |
| 11:30 A.M.-1:00 P.M. | Business Meeting , meeting room of Davis Brothers Motor Lodge. Will include a report by Richard Hulbert on the progress of his book, presentation of Howard Converse Award, induction of new officers, etc. |
| 1:00-2:00 P.M. | Lunch (on your own at Davis Brothers restaurant or a local restaurant). An FPS Board meeting will be held at the Davis Brothers restaurant during lunch...all members welcome to attend. |

Talks in the Davis Brothers Motor Lodge Meeting Room (2:30-4:20 P.M.):

- | | |
|----------------|---|
| 2:30-2:55 P.M. | Dr. Steve Emslie will discuss the Fossil Bird Site at Quality Aggregates, Sarasota County. |
| 2:55-3:20 P.M. | Dr. Richard Hulbert will present a talk on the Fossil Horses of the Bone Valley. |
| 3:20-3:30 P.M. | Break |
| 3:30-3:55 P.M. | Dr. Gordon Hubbell will present Fossil Collecting in Peru. |
| 3:55-4:20 P.M. | Dr. Daryl Domning will discuss the Fossil Sirenia of the Bone Valley. |
| 4:20-6:00 P.M. | Happy Hour(s) in motor lodge lounge (cash bar). |
| 6:00-7:30 P.M. | Dinner in motel dining room. |
| 7:30 - ? P.M. | Auction - Bring your donations! (fossils, casts, publications, etc.) |

Sunday, October 18:

- | | |
|-----------------|---|
| 9:00 A.M.-12:00 | Fossil Collecting in local phosphate mines (details in registration packet). |
|-----------------|---|

Florida Paleontological Society
FALL MEETING
October 17 and 18, 1992
Bartow, Florida

Registration Form:

Name _____

Address _____

_____ Phone _____

Persons must be FPS members to register and attend field trips.

Meeting Registration:

Number of adults attending _____ X \$12.00 = _____

Number of children under 6 _____ X \$ 6.00 = _____

Registration Total: _____

Field Trip Registration (persons must register for meeting to attend trips):

Number of people attending _____ X \$ 8.00 = _____

Grand Total Enclosed = _____

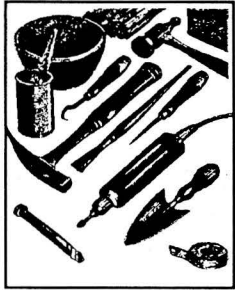
*Make checks payable to: Florida Paleontological Society,
and return by **October 9, 1992.***

Mail completed registration form with check to:

Kevin Schindler
Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611

(cut out and return form)





Prep Talk

by *Russ McCarty*

Greetings from the bone lab here in Gainesville, home of the "Fighting Gators". I must admit, however, that being a rabid Notre Dame fan I was forced to root for the Irish in last year's Sugar Bowl. Oh well, I hope your favorite team wins. Now, down to more mundane topics...fossils: how to remove them, how to prepare them, and how to conserve, mount, and cast them.

In the last bulletin, we made a protective jacket for our fossil and removed it from the site. Jackets are not normally prepared in the field, but are taken to a better equipped area such as the lab, or home workshop where a more careful and professional job of preparation can be performed. Preparation of fossil specimens should be undertaken with a commitment towards producing the best possible result. The best result will of course be dependent, not only on the skill of the preparator, but also, on the condition of the specimen. If specimens are found free of matrix, such as fossils recovered from a river bottom, preparation consists of drying, cleaning, gluing broken pieces, using filler material if needed, and hardening the finished specimen with a consolidant such as Butvar. However, many specimens the collector recovers will be embedded in various kinds of hard and soft matrix, and successful preparation of these specimens is the result of correct decisions made before and during the course of preparation.

One of the first decisions is choosing the right tool for the job. Specimens embedded in soft, friable matrices such as

sand, clay, shell-beds, and some dust and ash tuffs, can be worked out with dental picks, pin-vises, soft brushes, and other hand tools. Those specimens in hard matrices will require different tools. Hand tools such as hammers and chisels, large pin-vises, and brushes will do the job, but there are available mechanical devices such as the Gravermeister, AirScribe, and etching tools which can prepare specimens in a fraction of the time required of hand methods. Regardless of the tools used, preparation should proceed carefully and the condition of the specimen should be constantly monitored. As portions of the specimen are exposed, they should be cleaned, glued, and hardened.

When one is preparing fossils from a soft matrix such as sand or clay, a dental pick, a brush, and a water spray bottle are the tools of choice. The water is to keep the matrix moist, thus making it easier to remove. If you have a specimen in a clay matrix, it is best (although not always possible) to keep the jacket and matrix moist so that the clay will not dry out, crack, and damage your specimen.

The only consideration when using water is to remember to try not to wet the specimen itself, since Butvar and some other hardeners will not work on wet specimens. As the matrix is carefully removed with dental pick and brush, the specimen, if damaged, can be hardened, or even some pieces glued together. At this stage, it is important to not lose the contacts between the pieces. Let's say you have uncovered a small skull, which, although complete, is broken in many pieces. If you start pulling the pieces out and setting them on a work table, it is easy to lose the orientation of the pieces and end up with an unsolvable three-dimensional jig saw puzzle. That original orientation of the specimen's parts, no matter how crushed, is one of your best clues to what the reconstructed specimen should look like...Don't lose it! Take a photograph and enlarge it and number the pieces, or lay a piece of clear plastic (a plastic

bag, e.g.) over the specimen and trace it with a soft felt-tip marker. If the fragments are large enough, and have good contacts, you might at this point want to remove them and place them on top of your tracing or your enlarged photograph and then glue them together piece by piece using the photo or drawing as a guide to reconstruction.

Another possible (but wise) decision at this point, especially if the specimen is badly crushed, is to make a plaster cap (mini-jacket) over the exposed specimen while it is still in the original plaster jacket. You can then safely remove the rest of the matrix in the big jacket and cut away excess jacket material. Then, if you flip the two jackets over, the specimen will now be resting in the new jacket (plaster cap) and the remnants of the original jacket will be on top. When you remove the top, you will be facing the reverse side of your specimen. The process of removing matrix and hardening can begin on this side now and when finished the specimen will have been prepared on both sides. The decision at this time is: Can this specimen be reconstructed, or is it so badly crushed that all I can do is harden it in place and leave it to be displayed in a protective cradle of plaster? If your decision is the latter one, here is a quick technique for making plaster cradles in which to rest your specimens. Use a paper or cardboard box a closed, one piece bottom (so the plaster won't run out) whose dimensions are such that your specimen will lay in the box. Cut the height of the box down to 1 or 2 inches (or more depending on how strong a cradle you need). Fill the box with plaster. Now, lay 3 or 4 thicknesses of cheesecloth onto the plaster and gently pat the cheesecloth down to the surface of the plaster. Test the plaster to determine when it is just beginning to set, but is still liquid enough that you can depress it by touch. Set your specimen onto the cheesecloth and press it down into the plaster until you leave an impression of the specimen in the plaster. Remove the specimen and let the plaster cure. Tear the

box away from the plaster, trim the excess cheesecloth, and harden the surface of the cradle with Butvar (or other hardener). Your specimen should fit securely in the impression. For large, or irregularly shaped specimens, you can construct a form out of wood, clay, or whatever material is handy. For extra strength, you can put rods, or metal screen in the plaster.

In the next issue of the Bulletin, I will talk about reconstruction techniques and materials. If you have questions please write to me in care of FPS or the Florida Museum of Natural History. I will close with a short bibliography of books about preparation and fossil collecting.

Fossil Animal Remains: Their Preparation and Conservation. 1976. A.E. Rixon. Athlone Press, Univ. of London.

Handbook of Paleo-Preparation Techniques. 1989. Converse/McCarty. Florida Paleontological Society.

Fossils for Amateurs: A Handbook for Collectors. 1971. Russell P. MacFall. Van Nostrand Reinhold Company, New York.

Handbook of Paleontological Techniques. Kummel and Raup, Ed., 1965. W.H. Freeman and Co., San Francisco.

Send your preparation questions to:

Russ McCarty
VP Prep Lab
Florida Museum of Natural History
University of Florida Campus
Gainesville, FL 32611



Fossils Are Where You Find Them!

Ancient Animals in Your Backyard!

This newsletter marks the first of what we hope will be a long running series of articles for and about the amateur paleontologist. We invite individuals who have had a unusual or humorous experiences happen to them while fossil hunting take a few moments and jot them down for posterity. Of special interest are stories from those who were involved in the early years of amateur paleontology in our state. Such individuals could provide tales of fossil lore that represent an important part of Florida's amateur fossil hunting heritage.

The stories don't have to be fancy, involve monumental discoveries, or be long-winded. Our purpose is to provide interesting or helpful stories to our membership, especially newcomers, and to emphasize that one does not have to be an expert to find fossils. Much fossil hunting success stems simply from careful observation and, in many cases, pure luck!

*Everyone is invited to participate. If you know individuals who should contribute, please encourage them to do so. Due to being a quarterly newsletter, it may be a while before your article can be published, especially if the response to our invitation is favorable. Don't worry about your style or spelling...these are easily fixed. Just let us know about that time you were walking down a dirt road and **THERE IT WAS!***

Vertebrates are where you find them!

A True Encounter

by Eric G. Taylor

The members who read my description of my unforgettable (and painful) participation in the Spring 1991 meeting held at the Desoto Shell Pit will recall that I am no great fan of invertebrate fossils. I have nothing against those who are, but I am simply not interested. So what was I doing in a limerock mine?

One of my teenaged son's friends had brought over a sharks tooth and a dugong rib that he had found on a ledge under the water in the bottom of a limerock mine in southwestern Columbia County, Florida. The shark tooth was a gorgeous *Otodus* (mackerel shark) from the Eocene and the dugong rib was from a tiny Eocene species. I had been in the mine once before and had found nothing except shelled creatures, but my interest was piqued by his discoveries.

Several months later, at the height of the summer heat, my son and I had attempted to go diving in the Santa Fe River, only to find it high, muddy, and not diveable. We had spare time, so on my way back home we decided to check out the mine where my son's friend had found the material.

It was as hot as it can get in the summer before the afternoon thunderstorm. The glare from the almost pure white piles of limestone was nearly blinding. The dog looked miserable at the lack of shade. Remains of "crunchies and squishies" (my name for shells) were everywhere, all of them broken. The rest of the shark's dentition and the dugong skeleton were nowhere to be seen. Looking at each other in disgust, my son and I agreed we were both out of our minds and headed back towards the car.

We both noticed the bone fragments at the same time. Our initial reaction was that someone had crushed a dry stick under the tires of a big truck and imbedded the splinters in the roadbed. The further up the road we walked, the more bone pieces we found, until we finally located several

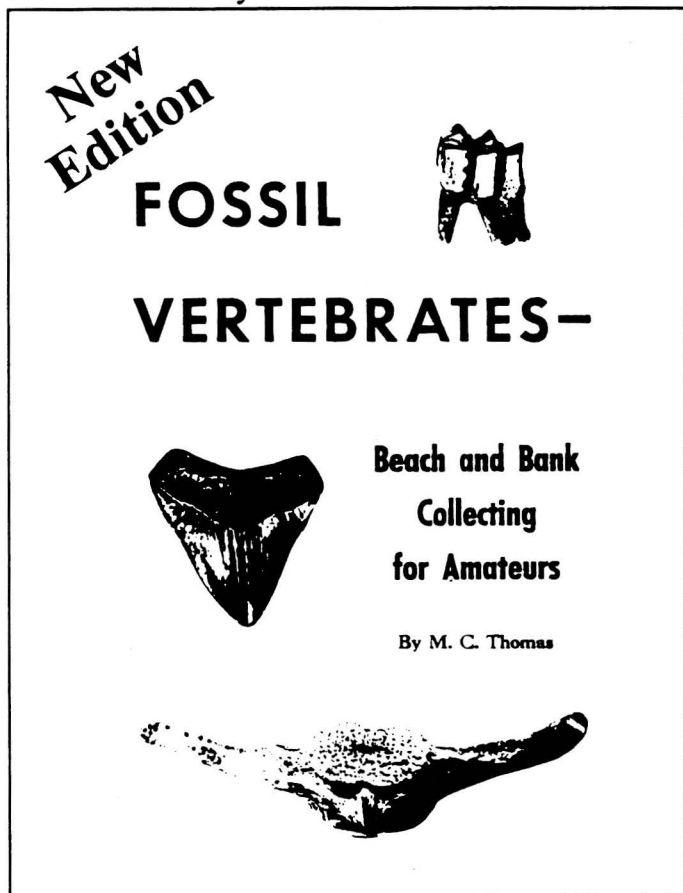
large chunks that obviously fit together. Our find was clearly a limb bone from a land mammal. We were ecstatic! Could this possibly be part of the remains of some ancient Eocene Epoch creature that we had never heard of? It certainly looked as though it had come from the depths of the mine. It was white, covered with limestone debris, and the pieces were so hard they rang like chimes when tapped together. We searched frantically for more remains until incipient heat stroke forced us to leave!

At home we found that we could re-assemble about three quarters of the lower limb bone of an animal. It looked familiar somehow, but not enough for us to identify. It was clear that there was enough of the bone present to allow an expert to tell us what it was. Still largely convinced of its Eocene origin, we looked forward to our next visit to the Florida Museum of Natural History with great anticipation!

I am sorry to say that Gary Morgan, the museum's Vertebrate Paleontology Collection manager, squashed our high hopes when presented with our carefully re-assembled remains. The bone was actually a front leg bone from Florida's early Pleistocene horse. Apparently somewhere in the overburden of the mine, a Pleistocene deposit of some sort had been dug through and our leg bone had fallen onto the road.

Although we were disappointed that our find was not the rarest of all creatures in Florida's fossil past, the Eocene land animal, it showed us once again that good fossils are indeed where you find them (even someplace where you suspect there is nothing but invertebrate fossils)!

— Newly Revised Edition —



Take It With You!

- Use this guide to help you get started as an amateur collecting fossils on the coastal beaches or on spoil bank deposits.
- Attractively presented 72 page book explains the exciting **Where, When, How and Why** of beginning this hobby and of understanding the ancient past.
- High quality photographic illustrations for comparison.

Available by the single copy in many bookstores, shell and fossil shops, and museum shops. Dealers may order in quantity from:

**The Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611**

DIRECTIONS FOR MIXING AND USING BUTVAR B76

The following details the proper mixing and use procedures for Butvar, an excellent preservative, hardener, and glue for fossil material. Butvar is available by the pound from the FPS at the Museum address.

Butvar, Monsanto's trade name for polyvinyl butyral, is a white crystalline plastic. B76, the grade of Butvar sold by the FPS, can be dissolved in acetone or *ethyl* alcohol (not isopropyl, methyl, or any other type of solvent). Acetone is the preferred solvent for most uses because it allows the glue or preservative made from Butvar to dry more quickly than that made using ethyl alcohol. If a vat of preservative is needed to soak large specimens, health considerations might call for using the less toxic solvent, ethyl alcohol. In its dry state, Butvar poses no known health hazards (as long as you don't eat it). It is often more convenient for the user to mix the Butvar first as a glue, and store this as stock solution in a jar. When preservative is required, the glue is mixed 50/50 with acetone in another jar.

- 1) To make Butvar into a glue, fill an empty wide-mouth jar about 3/4 full with acetone. In the Prep Lab at the Florida Museum of Natural History, Russ McCarty uses a gallon jar like those in which restaurants get pickles. The 1 lb. bag of Butvar sold by FPS will make about a gallon of preservative.
- 2) While stirring constantly, add the Butvar powder until a viscous consistency is achieved (like model airplane cement). For mixing a gallon of glue, a variable speed drill on a low setting and a mixing paddle (hardware and paint stores sell them for mixing paint) can be used. It will take 30 or 40 minutes of mixing to dissolve most of the Butvar. At that point, the glue will not look clear, and there may be little clumps that have not dissolved; however, if you let it set overnight, the Butvar will completely dissolve.
- 3) To use as a glue, brush Butvar on both dry surfaces to be glued and blow on them or allow to air dry for 30 seconds. Press the pieces together firmly and hold for a minute or two. A sand box or a piece of tape will hold pieces together while drying. Butvar is good for small repairs; however, for large specimens where strength is required, or smaller specimens with poor contacts, a stronger glue such as epoxy is needed.
- 4) To use as a preservative or hardener, the user must first determine that the specimen is dry. When applied to wet specimens, Butvar forms a white film on the surface of the specimen and does not act as a preservative. Brush several coats of preservative onto the specimen. An alternative method is to make a wire mesh cradle and dip the specimens into a container of Butvar.
- 5) Butvar stored as a glue or preservative will become thicker as the acetone in it evaporates. It is necessary to periodically replace the lost acetone so that the desired consistency is maintained. To remove Butvar, apply pure acetone.

FLORIDA PALEONTOLOGICAL SOCIETY, INC

1992-1993

FOLLOWING IS THE REPORT OF THE NOMINATING COMMITTEE. SPACE HAS BEEN PROVIDED WITH EACH OFFICIAL NAME FOR A WRITE IN CANDIDATE.

VICE PRESIDENT: GORDON HUBBELL, MIAMI, FLORIDA

PRESIDENT ELECT: SUSAN PENDERGRAFAT, LARGO, FLORIDA

SECRETARY: ERIC TAYLOR, LAKE CITY, FLORIDA

TREASURER: PHIL WHISLER, GAINESVILLE, FLORIDA

BOARD MEMBERS: TERMS EXPIRING IN 1995

COMMITTEE REPORT:

WRITE IN VOTE:

DON CRISSINGER, MULBERRY, FLA

STEVE MANCHESTER, GAINESVILLE, FLA

ROBYN MILLER, JACKSONVILLE, FLA

TOM AHERN, TAMPA, FLA

BOARD MEMBERS: TERMS EXPIRING IN 1994:

HELEN COZZINI, TAMPA, FLA

RUDI JOHNSON, TAMPA, FLA

IN ORDER FOR THIS BALLOT TO BE COUNTED:

- 1) USE THE OFFICIAL ENVELOPE WHICH IS ENCLOSED
- 2) SIGN YOUR NAME ON THE OUTSIDE OF THE ENVELOPE
- 3) HAVE IN THE HANDS OF THE SECRETARY NO LATER THAN
9:00 A.M., SATURDAY, OCTOBER 18, 1992

PLEASE DO NOT ENCLOSE OTHER CORRESPONDENCE WITH YOUR BALLOT.

(cut out and return form)



FLORIDA PALEONTOLOGICAL SOCIETY, INC.

As stated in the Articles of Incorporation, "The purposes of this Corporation shall be to advance the science of Paleontology, especially in Florida, to disseminate knowledge of this subject and to facilitate cooperation of all persons concerned with the history, stratigraphy, evolution, ecology, anatomy, and taxonomy of Florida's past fauna and flora. The Corporation shall also be concerned with the collection and preservation of Florida fossils." (Article III, Section 1).

CODE OF ETHICS

ARTICLE IX

- Section 1. Members of the Florida Paleontological Society, Inc., are expected to respect all private and public properties.
- Section 2. No member shall collect without appropriate permission on private or public properties.
- Section 3. Members should make a sincere effort to keep themselves informed of laws, regulations, and rules on collecting on private or public properties.
- Section 4. Members shall not use firearms, blasting equipment, or dredging apparatuses without appropriate licenses and permits.
- Section 5. Members shall dispose of litter properly.
- Section 6. Members shall report to proper state offices any seemingly important paleontological and archaeological sites.
- Section 7. Members shall respect and cooperate with field trip leaders or designated authorities in all collecting areas.
- Section 8. Members shall appreciate and protect our heritage of natural resources.
- Section 9. Members shall conduct themselves in a manner that best represents the Florida Paleontological Society, Inc.

ANNUAL DUES for the FPS are \$5.00 for Associate Membership (persons under age 18) and \$10.00 for Full Membership (persons over age 18) and Institutional Subscriptions. Persons interested in FPS membership need only send their names, addresses, and appropriate dues to the Secretary, Florida Paleontological Society, Inc., at the address inside the front cover. Please make checks payable to the FPS. Members receive a membership card, the FPS newsletter, the Papers in Florida Paleontology, and other random publications entitled to members.

NEWSLETTER POLICY: All worthy news items, art work, and photographs related to paleontology and various clubs in Florida are welcome. The editors reserve the right not to publish submissions and to edit those which are published. Please address submissions to the Editors, Florida Paleontological Society, Inc. Newsletter, at the address inside the front cover.