

Florida Paleontological Society , Inc.

Newsletter



Volume 3 Number 2 Summer Quarter 1986

FLORIDA PALEONTOLOGICAL SOCIETY, INC.

OFFICERS

President Bessie G. Hall, 2408 Bay Street, Sarasota, FL 33577

President-elect Don Serbousek, 333 S. Yonge Street, Ormond Beach, FL 32074

Vice President Phil Whisler, 158 Venice East Blvd., Venice, FL 33595

Secretary Anita Brown, Rt. 3, Box 446, Live Oak, FL 32060

Treasurer Mary Poage, 257 S. Ridgewood Avenue, Ormond Beach, FL 32074
PLEASE SEND ALL DUES PAYMENTS TO MS. POAGE AT THE ABOVE ADDRESS

Editors Bruce J. MacFadden and Gary S. Morgan, Florida State Museum

FSM Representative S. David Webb

BOARD OF DIRECTORS

	Term Expires
Dr. Gordon Hubble, 150 Buttonwood DR, Key Biscayne, FL 33149	10/86
Dr. Jesse S. Robertson, Jr. 5554 Bradshore St, Jax, FL 32211	10/86
William R. (Bill) Hall, 2408 Bay St., Sarasota, FL 33577	10/87
Ray C. Robinson, 2811 38th Av N, St. Petersburg, FL 33713	10/87
Rick Carter, 613 Jamestown, Lakeland, FL 33801	10/88
Eric Kendrew, 4436 Tevalo Dr, Valrico, FL 33594	10/88
Don Lorenzo, 10010 Belleshore Circle, Jacksonville, FL 32218	10/88
Larry Martin, 3987 Queen Anne Drive, Orlando, FL 32809	10/88
Ben Waller, 3455 N.E. Place, Ocala, FL 32670	10/88
William Webster, 704 4th St. S., St. Petersburg, FL 33701	10/88

COMMITTEES

Book Fund Cliff Jeremiah
 Scholarship Fund Cliff Jeremiah
 Finance and Ways and Means Mary Poage
 By-Laws Ray Robinson, William Webster, Bill Hall,
 Mary E. (Scottie) Brown
 Historian Jesse Robertson
 Honorary Membership & Awards Phil Whisler and David Webb
 Leidy Centennial David Webb
 Nominating Committee William Webster, Chairman; Anita Knight, Jim Pendergraft

Honorary Member Margaret C. Thomas

A. The Spring Meeting was held on Saturday, 10 May, in the Bone Valley. During the morning the 90 participants collected in an IMC open-pit mine. The weather was sunny and about 75 degrees - perfect for bone hunting. Many sharks teeth and dugong ribs were found. Of the spectacular discoveries, Eric Kendrew found some horse teeth, a deer antler and miscellaneous limb bones. Thelma Jones of Jacksonville found a perfect upper molar of Nannipus minor, an extinct three-toed dwarf horse from about 5 million years ago.

After a morning of collecting, we went to the IMC hospitality center for an excellent barbeque lunch. Thereafter specimens of all kinds were brought out for identification. In the afternoon a highly productive Board of Directors meeting took place with Bessie Hall presiding.

It was nice to see the FPS stalwarts as well as many new members. We extend our sincere thanks to Rick Carter for organizing this successful meeting and Larry Isaac, customer relations manager at IMC, for his hospitality. Thanks also to the caterers for their prompt, efficient and delicious lunch.

B. Nominations for Next Year's FPS Officers: The Nominations Committee will present nominations for the following:
(See descriptions of the offices on pages 12-13.)

Two Directors of the Board (three year terms)

One Vice President (one year term)

One President-elect (one year term)

Secretary

Treasurer

Following the FPS By-Laws, any member in good standing may submit nominations to: Bill Webster, Chairman, 704 4th St., South, St. Petersburg, FL 33701. The other members of the nominating committee are Anita Knight and Jim Pendergraft.

C. Meet Peter Bennett, New Director, Florida State Museum

Imagine a new public division of the Florida State Museum, on the northwest edge of the University of Florida campus, housing changing exhibits, offices, preparation areas and two major permanent exhibits covering 60 thousand square feet, featuring Florida from prehistoric times through the present.

If Peter Bennett, FSM's director since April, has his way, the new facilities and a renovated old museum housing the Florida State Herbarium (now in UF's Rolfs Hall) and the Allyn Museum of butterflies (now in Sarasota) will be realities by 1992, the quincentennial commemoration of Columbus' arrival in America.

And Bennett is just the person for the formidable tasks of fundraising, planning and overseeing construction of his dreams. The museum administrator stepped down as President of the Philadelphia Academy of Natural Sciences, the oldest natural history museum in this hemisphere, last December. During his 10 years there, he took an internationally famous institution which he considered at the time to be "a bit on the ropes" and turned it into a healthy academy, increasing its endowment from \$5 million to \$12 million.

The highlight of his academy tenure, however, is "Discovering Dinosaurs", the largest permanent exhibit ever undertaken there which opened this past January.

"There has been a revolution in scientific thinking about dinosaurs and this exhibition represents an extraordinary commitment by the Academy of Natural Sciences to bring new scientific findings to the public in a dramatic way," Bennett explained.

Noting that the exhibit has brought dinosaurs back into the media and public eye, he pointed out that the display has attracted more than double the anticipated visitors. Wishing to create similar successful displays at FSM, Bennett said, "I am very eager to see us have something that is absolutely spectacular."

He envisions two permanent exhibits showing the natural and ethnographic histories of Florida from the Pleistocene to the present including the Calusa Indians, Columba and post-Columbus periods. "Visitors would get an historical picture of the movement from vertebrate paleontology to contemporary issues of conservation," Bennett explained. "I also want people to enjoy themselves while at FSM."

Noting that such exhibits would entail research, curation and articulation and could utilize people from other parts of the university such as the Colleges of Education, Liberal Arts and Sciences as well as Journalism and Communications, he said "Everybody wins, it seems to me." He also foresees the new museum's staff researching and developing prototypes of software and laser disk packages for nationwide marketing. "These would be quite unique in this country," he said.

"I think we are sitting on an absolute creative gold mine of talent at UF to be involved in these projects," he added.

In addition to the new public museum, Bennett would like to see another building added near the present museum "to meet the 21st century needs of zoology, botany, anthropology, geology and archaeology."

Bennett welcomes museum visitors' suggestions about FSM's future offerings. "Amateurs were the founders and backbone of natural history museums and their role will be a continuing one," he said. "If there are things they think we should be doing, they should let us know."

A Lakeland, FL native, Bennett graduated with a bachelor's in chemistry from Florida State University and received his doctorate at Rockefeller University in New York. From 1967 to 1971 he was a biology professor at Harvard University and in 1975 became biological sciences department chairman at FSU. Before moving to the Academy of Natural Sciences in Philadelphia, he served as FSU's acting executive vice president and special assistant to the FSU president.

Bennett said the chance to become FSM's director appealed to him. "The opportunity to get involved in a university setting was attractive and intellectually stimulating to me," he said. "Everything at the Academy was in good shape and I was ready to move on professionally."

So past, present and future visitors to the Florida State Museum can look forward to bigger and better offerings when Peter Bennett fulfills his dreams for the largest natural history museum in the southeast and the tenth largest in the country. No doubt when his plans become a reality, the latter statistic will change, too.

D. Profile: Anita and Ed Brown

FPS is lucky that in 1978 Anita Brown was co-leader of a Live Oak 4-H club which wanted to study fossils. Lucky because Brown called the University of Florida and got Bruce J. MacFadden to speak to her 4-Hers. Her meeting with MacFadden led to volunteer work at the Florida State Museum and with FPS.

When he found out Anita and husband Ed were interested in fossils, inspired by a three-week Earthwatch dig at Mammoth Graveyard, Hot Springs, SD, in 1977, MacFadden suggested they might like to volunteer in the vertebrate paleontology preparation lab at the museum.

"He told Howard Converse to put us to work," Anita recalled. "we learned, with varying degrees of proficiency, to do some of the things Howard did."

"I remember preparing a complete camel jaw. I did a good job on that one," she said proudly.

While working in the lab, Ed created some mechanics to hold fossil pieces in place and a measuring board said Anita. She pointed out that he also worked out a formula to measure bones where the marrow is missing.

About the time the Browns began volunteering at the museum, FPS was formed to bring professionals and amateurs together for mutual benefits.

"We were impressed with the Plaster Jacket and the FPS purpose," said Anita. "So we helped with the FPS' original organization." Since 1978 Ed has served on the Board of Directors for three years and Anita is secretary this year.

In addition, Ed "was the big push behind the first Thomas Farm field camp," according to Anita. "We felt the camp was something the museum could do for the people of Florida."

Ed designed the pole barn and oversaw its construction. He also chose the tent site (far enough from the barn and fossil digging area so participants couldn't run back and forth between the two!). He also found the all-important swimming hole which gave campers respite from the summer heat.

"I thought Thomas Farm was a worthwhile experience for participants who gained valuable experience and for the museum which acquired fossils," said Anita. "It was a wonderful educational opportunity for people who had never collected fossils. Those who went are a definite asset to the museum now."

Although the Browns stopped working in the VP lab three years ago, they are still active in the museum. Recently Ed computerized the FPS mailing list. He also serves on the George Gaylord Simpson Library Committee. With his computer he wrote a program for the library's floor plan.

Anita helps MacFadden and David Webb with their libraries and has worked for zooarchaeology curator Elizabeth Wing. The Browns are also members of the Museum Associates and have been since 1978 when museum Director Emeritus J.C. Dickinson persuaded them to join.

Anita says the satisfactions she and Ed have received from working with FPS and the museum include the people they've met and the activities. "And it's fun to come to Gainesville," she added.

FPS is fortunate to have dedicated volunteers Anita and Ed Brown.

E. Howard Converse Honored In recognition of a decade of outstanding service to FPS, Howard Converse received a plaque from the society. Howard participated in many activities of FPS including serving as Secretary-Treasurer for ten years, working at the Thomas Farm field camp, and handling sales of FPS items such as Butvar 76 and Beach and Bank books before he stepped down last October. Howard's longstanding service is greatly appreciated and the plaque is most deserved.

F. Recent visitors to FSM:

John Waldrop, Lake Wales, to discuss Bone Valley stratigraphy with Dave Webb.

Robin Brown, Fort Myers, to photograph specimens for a book on Florida fossils which he is writing.

Dick and Thelma Jones, Jacksonville, to tour exhibits and a "behind-the scenes" look at the VP collection.

Eighteen second graders from Gainesville Country Day School.

G. FSM Invertebrate Paleontology Accessions (Roger Portell)

Several large collections will soon arrive at FSM. Included in these will be the remainder of the Muriel Hunter/Joe Banks and the Norman Weisbord collections.

Muriel Hunter and Joe Banks first donated large amounts of Plio-Pleistocene mollusks in the early 1970s. The remainder of their collections are currently housed in the Florida State University geology department. During June Dr. Doug Jones and Portell will retrieve these and the Weisbord collections from FSU.

H. FSM Invertebrate Paleontology Research in Progress (Roger Portell)

IVP Curator Doug Jones is continuing his research on changes across the Cretaceous/Tertiary boundary, photosymbiosis in fossil mollusks, growth rates and life history changes in fossil and modern bivalves, coral-boring faunas of the Florida Eocene and Mercenaria "tridacnoides" from the Pliocene of South Florida. He and Portell are investigating the identity of a fossil starfish recently discovered by Lelia and Bill Brayfield.

Graduate student Debra Cannon is completing her studies of growth rates and trace element geochemistry in Mercenaria from Georgia and Rhode Island. Her work has also extended to archaeological specimens recovered in shell middens.

Graduate student Jon Bryan is working on invertebrate fossils from the Cretaceous/Tertiary boundary in Alabama. He is comparing late Cretaceous and early Tertiary fossil assemblages, noting which

species become extinct, which are new and what the ecologic preferences may have been. He hopes to better understand possible causes of the extinction of many taxa at the end of the Cretaceous.

Graduate student Jerry Britt, a National Science Foundation Graduate Fellow, is working toward a Ph.D. His research interests center on evolutionary and extinction patterns of Neogene mollusks with special interest in the Pliocene and Pleistocene of the Southeastern U.S. These studies interlace with his interests in biostratigraphy using both invertebrates and vertebrates. Other interests include upper Cretaceous mollusk and vertebrate assemblages and a Blancan rodent from marine sediments in North Carolina.

I. Editor Goofed Some of you may have noticed that the member list published in the last newsletter omitted the "M's". An update was sent out about one week later. If there are any problems with your membership status, contact Treasurer Mary Poage, 257 S. Ridgewood Avenue, Ormond Beach, FL 32074.

J. FPS member Dwayne Stone, Department of Geology, Marietta College, Marietta, OH, spent one week at Pigeon Key in the Florida Keys, with 12 geology students. En route home they visited Bill and Bessie Hall in Sarasota and spent an enjoyable day collecting at the Newburn Pit of APAC-Florida. They took many nice specimens of shells back to Ohio. (Bessie Hall)

K. Many thanks and appreciation to Ed Brown for his development of a computer program for the FPS mailing list.

L. Back Issues of the Plaster Jacket, published by FPS, are still available. Cost is \$2.00 each and orders should be sent to Secretary Anita Brown at the Florida State Museum. Available issues are:

- No. 30 -- Fossil Rhinoceroses of Florida, Bruce J. MacFadden
- No. 31 -- Paleoecology: Ancient Communities and Environments, Ronald Wolff
- No. 32 -- Saber-toothed Carnivores, Jon Baskin
- No. 33 -- The Beginning of the Age of Mammals in Florida, David Fraley
- No. 34 -- Collecting Fossil Mammals in the Greater Antilles: An Immense Journey, Charles A. Woods
- No. 35 -- Fiberglass Molding Techniques in Paleontology, Clifford J. Jeremiah
- No. 36 -- Fossil Wolves, Coyotes, and Dogs of Florida, Analisa Berta
- No. 37 -- The Thomas Farm Fossil Site, S. David Webb
- No. 38 -- Collecting Fossil Mammals in Bolivia: The Southern Connection, Bruce J. MacFadden
- No. 39 -- Fossil Camels of the Gulf Coastal Plain, S. David Webb
- No. 40 -- Out of print.

- No. 41 -- The 1982 Thomas Farm Fossil Dig, Bruce J. MacFadden
No. 42 -- Out of print
No. 43 -- Recent Discoveries of Late Tertiary Marine Mammals in Florida, Gary Morgan and Ann Pratt
No. 44 -- A History of Fossil Amphibians and Reptiles in Florida, Peter A. Meylan
No. 45 -- A History of Ruminants: Part I, S. David Webb
No. 46 -- A History of Ruminants: Part II, S. David Webb

M. Minutes of the FPS Spring Meeting

The Florida Paleontological Society, Inc. Board of Directors meeting was held May 10, 1986, at the IMC. Welcome Center, Bradley, FL.

President Bessie Hall opened the meeting at 1:10 p.m. Anita Wright, secretary pro tem, and a quorum of members were present.

Minutes of the October 5, 1985 meeting were read and approved as corrected. Committee chairmen gave reports. Editors Bruce MacFadden and Gary Morgan stressed the need for more articles from members. The new series "Papers in Florida Paleontology" was discussed, particularly the availability of financing. Ray Robinson was recognized as "unofficial photographer" and thanked for supplying pictures for the newsletters.

Ray Robinson, By-Laws, reported no meeting but several suggestions were made for possible changes.

Bruce MacFadden, Florida Fossil, reported the FPS' choice has been given to Frank Garcia who was to confer with Representative Pat Frank, Hillsborough County, about sponsoring the bill.

Rick Carter, Spring Meeting, thanked Lary W. Isaac, IMC customer relations manager, for his company's hospitality in permitting members and guests to hunt fossils and for the use of the Welcome Center for our lunch and meeting. Our thanks to Rick, and IMC and to Fat Boys Bar-B-Que of Lakeland for providing our lunch.

Treasurer's Report. Mary Poage reported receipts and disbursements from records she has but has not yet received past records she needs for the current year so she can prepare a detailed budget. In discussion, suggestions were: 1. put a notice in the newsletter that dues payments be sent to the treasurer's home address; 2. treasurer will mail membership card which will also be a receipt; 3. treasurer will notify secretary of paid members for her mailing list. (This will require change in By-Laws); 4. orders for supplies, Thomas book, newsletters and back issues, Butvar and patches will continue to go to the museum. Listing of supplies will be in newsletters.

As supply of membership cards is low, Mary Poage made a motion the cards be printed on a postal card; there was a second. Discussion - cards would serve as a receipt, are cheaper to mail than letters, can be cut to size desired by member. Motion passed. Mary was instructed to see about cost and report back.

Unfinished business - Howard Converse served as Secretary-Treasurer during and after formation of FPS. He stepped down last October. As a token of FPS' grateful appreciation of all that he has done, the society presented a plaque to him. Many, many thanks, Howard. You are missed.

New Business - A part-time employee to aid the Secretary was approved two years ago to assist with the newsletter production. A need to have a job description and salary approved on file was noted. This will be submitted for Board approval.

A tentative date for the Fall Meeting is October 18. Moved by Dr. Webb; seconded and approved.

Dave Webb moved a committee entitled "Florida Leidy Centennial" be established. There was a second and discussion; motion passed. Webb was appointed chairman and authorized to select other committee members. Information on this will be published later.

Nominating Committee was appointed as follows: Chairman - William (Bill) Webster, 704 4th St., S, St. Petersburg, FL 33701; Anita Knight, c/o 2216 4th St., N, St. Petersburg, FL 33704; James L. Pendergraft, 17 Jeff Road, Largo, FL 33540. Send nominations (or volunteer yourself) for president-elect, vice president, secretary, treasurer and two directors. (Retiring are Hubble and Robertson.) If a director still in office is nominated for higher office, a replacement should be nominated. Consent and brief biological sketch should be sent.

Election Process

Before July 1 - Nominating Committee reports nominees to Secretary
Before July 31 - Secretary distributes names of nominees to all voting members

Before September 1 - Additional nominations sent to Secretary by members; NO NOMINATIONS ACCEPTED FROM FLOOR

45 days before Annual Meeting (Sept. 4) - Ballots mailed to voting members.

9:00 a.m., October 18 -- Sealed ballot, signature and "ballot" written outside envelope in hands of Secretary.

Motion made by Gary Morgan that letters be sent to IMC, Rick Carter and Fat Boys Bar-B-Que expressing our thanks and appreciation; seconded and passed.

Dave Webb made motion to adjourn which was seconded and passed.

N. The Sarasota Shell Pit, known as 17 Street, Warren Brothers, MacAsphalt, is now the Newburn Pit of Apac, Florida. The pit has been the only one open to collectors on Monday, Thursday and sometimes Saturday. (Cost, \$2.00; hard hat required, No Minors allowed.) In June the pit will be open THURSDAY ONLY, will be CLOSED in JULY (except Monday, July 21st) and AUGUST (except for Saturday, August 23rd). Beginning in September, the pit will be open ONLY SATURDAYS (cost - \$3.00, hard required, NO Minors). It is reported a two-year supply of shell is available. We greatly appreciate the kindness of owners through the years in maintaining and opening the area to collectors. It has been a paradise for invertebrate animals as well as those rare vertebrate finds-- walrus, mastodon, mammoth, shark, alligator, etc. (Bessie Hall)

O. Congratulations to the Brayfields for Bill's publication of "A Guide for Identifying Fossil Shells and Corals in Florida". Amateurs will welcome this one. The book costs \$5.95 plus \$1.05 for postage and handling from Brayfield Research Lab, 4140 Wood Duck Road, Fort Charlotte, FL 33953. And to Lelia for her super marvelous find of Sunburst Starfishes. The Brayfields brought the smaller slab to the Southwest Florida Fossil Club meeting May 10, my first viewing, and it is truly outstanding. (Bessie Hall)

P. Letter from Margaret C. Thomas on next page.

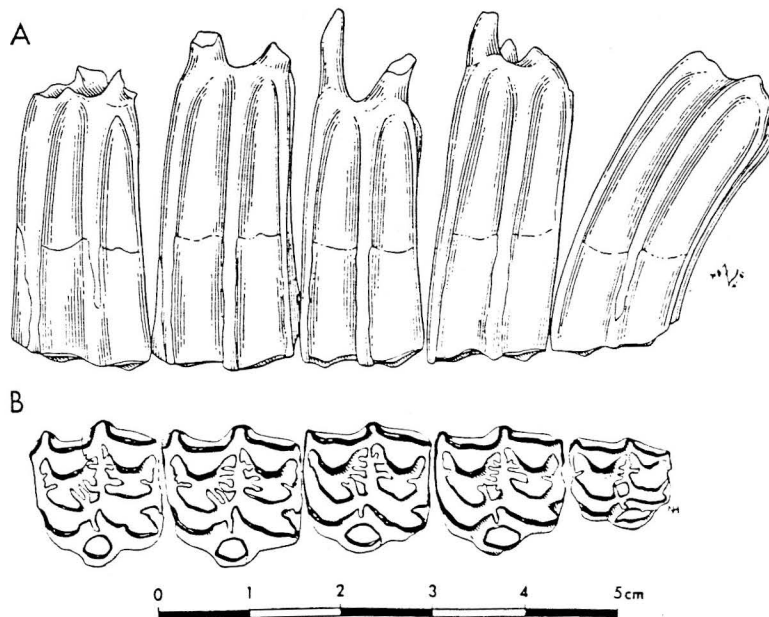


FIG. 93. *Nannippus minor*, UF 17570, neotype, left P³-M³, from Palmetto Mine, upper Bone Valley Formation, late Hemphillian of Polk County, central Florida. A. Lateral view. B. Occlusal view. The remainder of the neotype, which consists of the right M² and M³, is not illustrated here.

From Systematics and Phylogeny of Hipparion, Neohipparion, Nannippus and Cormohipparion (Mammalia, Equidae) from the Miocene and Pliocene of the New World by Bruce J. MacFadden. Bulletin of the American Museum of Natural History. Volume 179: Article 1. New York: 1984



22 Lark Spur
Hendersonville, NC 28739
December 9, 1985

Mrs. William R. Hall
2408 Bay Street
Sarasota, FL 33577

Dear Mrs. Hall & Members of the Florida Paleo. Society:

Your kind letter and the plaque have come.

I hasten to extend to you my most sincere gratitude for both. Since my son and I started hunting fossils for Clayton Ray at The Old Museum (The Seagle Bldg.) in 1958, friends of fossils and fossils of friends have become parcel of my life.

It is not within my powers to express properly to "you-all" what such an honor means to me.

With it, the memories of the past years, come crowding in. The times that men from Yale asked to (please) only find elephant teeth, and when the professor from Kent State showed me that he'd bought bags into which to put all the rattlesnakes he could collect while he was being shown where to find sloth material. Then there was the lady who told S. David that she'd found a 16' turtle. He sent me to see. Well, she did have turtle shell showing 16' feet from other turtle shell - Obviously the turtle stretched in between!

Bless Howard for his year of taking pictures for me, long before his association with Florida State Museum became a fact. Bless Bess Hall for getting lost with me and then, much later, found! Bless S. David for putting up with me for more than a generation and bless all of you for continuing your active interest in the past that you are so wise as to know helps to explain the future.

With love,

Margaret C. Thomas

Q. Additions and Corrections on FPS Membership List

Angell, Jon 226 Palmyra Drive Orlando, FL 32807	British Museum (Nat. Hist.) Gen. Lib. Lib.-Serials Dept. Cromwell Road London, England SW7 5BD	Bryan, Jonathan R. Box 411 McIntosh, FL 32664
Bureau of Geology Miss. Dept. Nat. Res. P.O. Box 5348 Jackson, MS 39216	Churcher, C.S. Dept. of Zoology Univ. of Toronto Ontario, Canada M5S 1A1	Clough, David H. III 3116 45th St, East Bradenton, FL 33508
Clough, David H. 3116 45 St., East Bradenton, FL 35508	Cobb, Delbert J. 333 Seymour Street Syracuse, NY 13204	Danielson, Larry 130 Fernwood Lane Oildale, CA 93308
Gregory, Richard 2301 McGregor Court Vienna, VA 22180-5235	Groves, Grant 1036 Delaney Ave. Orlando, FL 32806	Kern, W.W. P.O. Box 172 Sumterville, FL 33585
Klein, Richard 9265 91st St. North Largo, FL 33543	Knight, Anita 3016 23 St North St. Petersburg, FL 33713	Kromback, Caroline 1005 5th Street North St. Petersburg, FL 33701
Lien, Paul 11506 N. Rome Avenue Tampa, FL 33612	Lipps, Lewis Biology & Earth Sci. Shorter College Rome, GA 30161	Long, Russell 675 Alma Street Beaumont, TX 77705
Lorenzo, Don 10010 Belleshore Dr. Jacksonville, FL 32218	Loucks, Harvey L. 1330 Forbes Street N. Tonawanda, NY 14120	Lutz, Albert G. 1940 Hunterfield Road Maitland, FL 32751
Lyons, W.R. 4365 S.W. 117 Avenue Miami, FL 33175	Matthieson, Diana G. 4102 N.W. 30 Terr. Gainesville, FL 32605	McCarthy, M.A. 376 Genesee Street Oneida, NY 14321
McDaniel, Rita 519 7th Avenue South Surfside Beach, SC 29577	Miami Public Library Serials Division 1 Biscayne Blvd. Miami, FL 33732	Muehle, Gerhard 745 Calle Casquilla Tucson, AZ 85704
McCollum, Vance 600 Brailsford Blvd. Summerville, SC 29483	McDugald, Dr. M.L. 1626 Sentinel Pt. Rd. Sebring, FL 33870	Poyer, Arthur 7213 S.W. 44th Place Gainesville, FL 32608

Princeton University Library - Ser. Div. Princeton, NJ 08544	Robertson, Jesse S. 5554 Bradshaw Drive Jacksonville, FL 32211	Rudolph, Raymond 5409 Ferrol Avenue Winter Park, FL 32792
Schinker, Margaret 7137 36th Ave., North St. Petersburg, FL 33710	Schmelz, Gary W. Conservancy Nature Center 1450 Merrihue Drive Naples, FL 33942	Schwomeyer, Robert 603 Queens Loop North Lakeland, FL 33803
Scott, Steven 9748 Old Anapolis Rd. Ellicott City, MD 21043	Serbousek, Don 333 S. Yonge Street Ormond Beach, FL 32074	Seymour, Kevin Royal Ontario Museum 100 Queens Park Toronto, Canada M5S 2C6
Shuey, Alan G. 1923 16 Ave. Dr. West Bradenton, FL 33505	Skipper, Jan L. 2340 6th Avenue West Bradenton, FL 33505	Smith, Warren A. 303 Laurel Lane Roswell, GA 30076
South Fla. Water Mgmt District - Ref. Ctr. P.O. Box V Palm Beach, FL 33402-4238	Swanson, C. Gail Route 1 Box 189 Marathon, FL 33050	Sykes, Dellicina Route 2 Box 439 Webster, FL 33597
U.S. Geological Surv. Library National Center - 950 Reston, VA 22092	Waller, Ben 3455 N.E. Place Ocala, FL 32670	Weber, Eric P. 5401 S. Lagoon Panama City Beach, FL 32407

R. Descriptions of FPS Officers' Duties:

Board of Directors 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."

Vice President "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 Board of Directors."

President-elect "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 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."

Secretary "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."

Treasurer "The Treasurer shall have charge and custody of and be responsible for all funds and securities of the Corporation; receive and give receipts for monies 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."