

Meeting Date
October 18, 2016



AGENDA	
Section	UNFINISHED BUSINESS
Item No.	<i>1.A.</i>

AGENDA REPORT
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

SUBJECT:	Ranking and Appointment of volunteer applicants to the Environmentally Endangered Lands Program Selection and Management Committee (SMC) – All Districts There is no fiscal impact as a result of this action.
DEPT/OFFICE:	Community Services Group / Parks and Recreation Department

Requested Action:

It is requested the Board of County Commissioners:

- review and rank applicants for the SMC
- appoint highest ranking applicant to the SMC
- appoint the second highest ranking applicant as the alternate on the SMC

Summary Explanation & Background:

At a regular meeting of the Board of County Commissioners on July 26, 2016, the Board authorized staff to advertise and initiate procedures contained in the Environmentally Endangered Lands (EEL) Program Land Acquisition Manual (LAM) for filling a vacant seat on the EEL Program SMC. Currently there is one (1) vacancy due to the resignation of Dr. Mark B. Bush. The current term of the remaining members will expire on December 31, 2016.

Applicants were asked to submit their qualifications directly to the EEL Program office and were provided a link to the LAM section on the EEL Program Web Site that clarifies the qualifications required for appointments to the SMC. The procedure and qualifications for the appointment of SMC members, as outlined in the LAM, are attached.

The list of all applicants was presented to the Qualifying Committee (QC) on September 23, 2016, for review and initial ranking based on their level of experience and education. The QC determined that three (3) of the six (6) applicants were qualified. On September 30 2016, the Procedures Committee (PC) verified the three (3) applicants ranked by the QC. In addition, the QC determined an additional applicant was qualified and voted to submit the list of four (4) applicants for final ranking by the Board.

Qualified applicant's names and initial ranking points by the QC are as follows:

Tammy E. Foster, Ph.D.	122 – qualified	Randall W. Parkinson, Ph.D., P.G.	122 - qualified
Oli Johnson	117 – qualified	Brooke Wheeler	106 - qualified

The Board is requested to rank each applicant with a score from 1-3, with 3 being the highest. Staff will tabulate the ranking scores. The applicant with the highest score will be appointed to the SMC; the applicant with the second highest score will be appointed as an alternate. In cases of tied scores, the Chairman to the Board of County Commissioners will choose by drawing names of those with tied scores from a box.

Fiscal Impacts:

There are no fiscal impacts to General Revenue Funds or EEL Program funds in FY 15/16 or FY 16/17.

Contact: Mike Knight, EEL Program Manager, Phone: 321-255-4466, mike.knight@brevardfl.gov

Clerk to the Board Instructions:

Exhibits Attached: LAM Procedure, Qualified Applicant's information, Qualified Applicant's Ranking Sheets, Overall Ranking Sheet (5)

Contract /Agreement (If attached): Reviewed by County Attorney		Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	PR	<input type="checkbox"/>
County Manager		Assistant County Manager,		Jack Masson, Parks & Recreation Department Director jack.masson@brevardparks.com ; 633-2046			
Stockton Whitten		Assistant County Manager, Venetta Valdengo					



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

October 19, 2016

Robert 'Oli' Johnson
2514 Ruffner Road
Melbourne, FL 32901

Dear Mr. Johnson:

Re: Appointment to Environmentally Endangered Lands Selection and Management Committee

The Board of County Commissioners, in regular session on October 18, 2016, unanimously appointed you to the Environmentally Endangered Lands Selection and Management Committee. Said term of appointment expires December 31, 2018. Enclosed are memorandums explaining the "Sunshine Law" and 2016 changes to Voting Conflict Law for your information.

Your willingness to serve the citizens of Brevard County in this capacity is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe, Deputy Clerk

Encls. (2)

cc: Each Commissioner
EEL Program Manager
Parks and Recreation Director



County Attorney's Office
2725 Judge Fran Jamieson Way
Building C, Room 308
Viera, Florida 32940

BOARD OF COUNTY COMMISSIONERS

TO: Members of the Brevard County Clerk of Courts
FROM: Becky Behl-Hill, Assistant County Attorney
SUBJ: Government in the Sunshine/Florida's Public Meetings Law
DATE: January 12, 2016

Florida's Government-in-the Sunshine Law provides a right of access to governmental proceedings. The public policy behind the Sunshine Law is to have all deliberations by a public body conducted in public meetings of which the public and the media have received advance notice.

1. What are the requirements of the Sunshine Law?

The Florida Government in the Sunshine Law, Section 286.011, Florida Statutes, contains three basic requirements:

- a) meetings of public boards or commissions must be open to the public;
- b) reasonable notice of such meetings must be given; and
- c) minutes of the meeting must be taken.

2. Who does it apply to?

All boards or commissions of Brevard County are subject to the Sunshine Law. The law is equally applicable to advisory boards such as this Committee.

3. What is a "meeting" which is subject to the Sunshine Law?

Florida courts have repeatedly stated that it is the entire decision-making process to which the Sunshine Law applies and not merely to a formal assemblage of a public body at which voting to ratify an official decision is carried out. Thus, the statute extends to "discussions and deliberations" as well as to formal action taken by a public body. Therefore, the law is generally applicable to any gathering where two or more members of a public board or commission discuss some matter on which foreseeable action will be taken by the board, commission or committee. The term "meeting" has been found to include briefing sessions, workshop meetings, informal discussion and other meetings of the public body where no formal vote is taken.

4. Public Meetings

- (a) Notice and Recording:

In addition to abstaining from the vote, if the member intends to "participate" in the decision prior to the meeting, the appointed board member should file a memo stating the conflict prior to the meeting. Section 112.3143(4). "Participate" means "any attempt to influence the decision by oral or written communication, whether made by the officer or at his direction." The memo shall be incorporated into the minutes of the meeting and read publicly at the meeting. If the member is only participating in the discussion at the meeting, then the conflict should be disclosed orally at the meeting before participating, and a memo should be filed within 15 days after the vote. No member may participate (attempt to influence the vote) without making this disclosure prior to the discussion on the issue.

(d) Public Participation:

This committee is required to allow for public comment to assist in the decision-making process in accordance with Section 2-214, Brevard County Code of Ordinances. This body shall establish procedures for taking public comment at all committee meetings. Two kinds of public comment shall be taken:

1. Relevant comment when the committee discusses a particular issue or takes a final vote on any given issue; and
2. Comment which brings new business or issues before the committee.

Each speaker shall be given at least three minutes to speak, with provision for an extension of time by the chairman or majority vote of the committee. Speakers may be required to give their names and addresses for the record, however, social security numbers shall not be required.

While the County has these provisions in effect, there are some local entities that have not provided for public comment. The State legislature has implemented a new law, effective October 1, 2013, that provides for the public to be heard at public meetings which are not specifically exempted by the statute. This new law requires that members of the public be given a reasonable opportunity to be heard on a proposition before a board or commission. The opportunity to comment does not have to occur at the same meeting at which official action is taken if the opportunity:

1. Occurs at a meeting that is during the decision-making process; and
2. Is within reasonable proximity in time before the meeting at which the board or commission takes official action.

Given the County Code requires the opportunity for comment at all committee meetings, you should provide for public comment at all your meetings.

Office. If you know of a particular factual situation that may constitute a conflict of interest and some doubt exists whether the conflict exists, an advisory opinion from the Commission on Ethics can be obtained.

Reference: A valuable source in this area is the Government in the Sunshine Manual - 2013 Edition.

2016 FLORIDA STATUTES

112.3143 Voting conflicts.—

(1) As used in this section:

(a) “Principal by whom retained” means an individual or entity, other than an agency as defined in s. 112.312(2), that for compensation, salary, pay, consideration, or similar thing of value, has permitted or directed another to act for the individual or entity, and includes, but is not limited to, one’s client, employer, or the parent, subsidiary, or sibling organization of one’s client or employer.

(b) “Public officer” includes any person elected or appointed to hold office in any agency, including any person serving on an advisory body.

(c) “Relative” means any father, mother, son, daughter, husband, wife, brother, sister, father-in-law, mother-in-law, son-in-law, or daughter-in-law.

(d) “Special private gain or loss” means an economic benefit or harm that would inure to the officer, his or her relative, business associate, or principal, unless the measure affects a class that includes the officer, his or her relative, business associate, or principal, in which case, at least the following factors must be considered when determining whether a special private gain or loss exists:

1. The size of the class affected by the vote.
2. The nature of the interests involved.
3. The degree to which the interests of all members of the class are affected by the vote.
4. The degree to which the officer, his or her relative, business associate, or principal receives a greater benefit or harm when compared to other members of the class.

The degree to which there is uncertainty at the time of the vote as to whether there would be any economic benefit or harm to the public officer, his or her relative, business associate, or principal and, if so, the nature or degree of the economic benefit or harm must also be considered.

(2)(a) A state public officer may not vote on any matter that the officer knows would inure to his or her special private gain or loss. Any state public officer who abstains from voting in an official capacity upon any measure that the officer knows would inure to the officer’s special private gain or loss, or who votes in an official capacity on a measure that he or she knows would inure to the special private gain or loss of any principal by whom the officer is retained or to the parent organization or subsidiary of a corporate principal by which the officer is retained other than an agency as defined in s. 112.312(2); or which the officer knows would inure to the special private gain or loss of a relative or business associate of the public officer, shall make every reasonable effort to disclose the nature of his or her interest as a public record in a memorandum filed with the person responsible for recording the minutes of the meeting, who shall incorporate the memorandum in the minutes. If it is not possible for the state public officer to file a memorandum before the vote, the memorandum must be filed with the person responsible for recording the minutes of the meeting no later than 15 days after the vote.

(b) A member of the Legislature may satisfy the disclosure requirements of this section by filing a disclosure form created pursuant to the rules of the member's respective house if the member discloses the information required by this subsection.

(3)(a) No county, municipal, or other local public officer shall vote in an official capacity upon any measure which would inure to his or her special private gain or loss; which he or she knows would inure to the special private gain or loss of any principal by whom he or she is retained or to the parent organization or subsidiary of a corporate principal by which he or she is retained, other than an agency as defined in s. 112.312(2); or which he or she knows would inure to the special private gain or loss of a relative or business associate of the public officer. Such public officer shall, prior to the vote being taken, publicly state to the assembly the nature of the officer's interest in the matter from which he or she is abstaining from voting and, within 15 days after the vote occurs, disclose the nature of his or her interest as a public record in a memorandum filed with the person responsible for recording the minutes of the meeting, who shall incorporate the memorandum in the minutes.

(b) However, a commissioner of a community redevelopment agency created or designated pursuant to s. 163.356 or s. 163.357, or an officer of an independent special tax district elected on a one-acre, one-vote basis, is not prohibited from voting, when voting in said capacity.

(4) No appointed public officer shall participate in any matter which would inure to the officer's special private gain or loss; which the officer knows would inure to the special private gain or loss of any principal by whom he or she is retained or to the parent organization or subsidiary of a corporate principal by which he or she is retained; or which he or she knows would inure to the special private gain or loss of a relative or business associate of the public officer, without first disclosing the nature of his or her interest in the matter.

(a) Such disclosure, indicating the nature of the conflict, shall be made in a written memorandum filed with the person responsible for recording the minutes of the meeting, prior to the meeting in which consideration of the matter will take place, and shall be incorporated into the minutes. Any such memorandum shall become a public record upon filing, shall immediately be provided to the other members of the agency, and shall be read publicly at the next meeting held subsequent to the filing of this written memorandum.

(b) In the event that disclosure has not been made prior to the meeting or that any conflict is unknown prior to the meeting, the disclosure shall be made orally at the meeting when it becomes known that a conflict exists. A written memorandum disclosing the nature of the conflict shall then be filed within 15 days after the oral disclosure with the person responsible for recording the minutes of the meeting and shall be incorporated into the minutes of the meeting at which the oral disclosure was made. Any such memorandum shall become a public record upon filing, shall immediately be provided to the other members of the agency, and shall be read publicly at the next meeting held subsequent to the filing of this written memorandum.

(c) For purposes of this subsection, the term “participate” means any attempt to influence the decision by oral or written communication, whether made by the officer or at the officer’s direction.

(5) If disclosure of specific information would violate confidentiality or privilege pursuant to law or rules governing attorneys, a public officer, who is also an attorney, may comply with the disclosure requirements of this section by disclosing the nature of the interest in such a way as to provide the public with notice of the conflict.

(6) Whenever a public officer or former public officer is being considered for appointment or reappointment to public office, the appointing body shall consider the number and nature of the memoranda of conflict previously filed under this section by said officer.

History.—s. 6, ch. 75-208; s. 2, ch. 84-318; s. 1, ch. 84-357; s. 2, ch. 86-148; s. 5, ch. 91-85; s. 3, ch. 94-277; s. 1408, ch. 95-147; s. 43, ch. 99-2; s. 6, ch. 2013-36.



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

October 19, 2016

Randall Parkinson, Ph.D., P.G.
322 Coral Drive
Melbourne, FL 32935

Dear Mr. Parkinson:

Re: Appointment to Environmentally Endangered Lands Selection and Management Committee

The Board of County Commissioners, in regular session on October 18, 2016, unanimously appointed you as alternate to the Environmentally Endangered Lands Selection and Management Committee. Said term of appointment expires December 31, 2018. Enclosed are memorandums explaining the "Sunshine Law" and 2016 changes to Voting Conflict Law for your information.

Your willingness to serve the citizens of Brevard County in this capacity is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe, Deputy Clerk

Encls. (2)

cc: Each Commissioner
EEL Program Manager
Parks and Recreation Director



County Attorney's Office
2725 Judge Fran Jamieson Way
Building C, Room 308
Viera, Florida 32940

BOARD OF COUNTY COMMISSIONERS

TO: Members of the Brevard County Clerk of Courts
FROM: Becky Behl-Hill, Assistant County Attorney
SUBJ: Government in the Sunshine/Florida's Public Meetings Law
DATE: January 12, 2016

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(6) Whenever a public officer or former public officer is being considered for appointment or reappointment to public office, the appointing body shall consider the number and nature of the memoranda of conflict previously filed under this section by said officer.

History.—s. 6, ch. 75-208; s. 2, ch. 84-318; s. 1, ch. 84-357; s. 2, ch. 86-148; s. 5, ch. 91-85; s. 3, ch. 94-277; s. 1408, ch. 95-147; s. 43, ch. 99-2; s. 6, ch. 2013-36.

Information on the Selection and Management Committee Appointment Process is found on pages 12 – 14 of the EEL Program's Land Acquisition Manual (LAM)

EEL Selection and Management Committee

Membership shall consist of eight (8) members appointed by the Board for a minimum term of two (2) years. The Board of County Commissioners shall strive to maintain a committee membership that possesses a diversity of demonstrated expertise or experience to enhance the land acquisition and management goals of the EEL Program. The Board may appoint members that do not reside in the respective Commissioner's District.

All EEL Selection and Management Committee members shall:

1. Have a willingness to serve in a voluntary capacity.
2. Be willing to make a long-term commitment to the EEL Selection and Management Committee.
3. Have a graduate academic degree in biological or environmental sciences, OR, demonstrated professional expertise (minimum six (6) years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design.
4. Have demonstrated knowledge of Brevard County ecosystems and specific knowledge of the habitat types and conservation land management techniques.

The procedure for this appointment to the EEL Selection and Management Committee shall be:

The qualifications of all applicants/nominees (applicants) responding to a call by the County Commissioners for EEL Selection and Management Committee volunteers shall be reviewed by a Qualifying Committee consisting of the EEL Program Manager, the Chairman of the Procedures Committee (or their designee), and the Director of Human Resources (or their designee). Staff will present the list of all applicants to the Qualifying Committee for review and an initial ranking based on their level of experience and education. Qualifications for EEL Selection and Management Committee members are outlined in the LAM on pages 13 & 14.

The method of the initial ranking by the Qualifying Committee is as follows:

1. All applicants who meet the minimum qualifications as approved by the Qualifying Committee will be assigned one hundred (100) points.
2. Five (5) additional points are assigned for each graduate degree (Masters or Doctorate) in ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural areas sanctuary design.
3. And/or two (2) additional points for each year up to six (6) years for demonstrated professional expertise in biological or environmental sciences, or a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design.

The Qualifying Committee will provide the list of all applicants to the Procedures Committee including identification of those applicants/nominees that have been determined by the Qualifying Committee to be qualified. The qualified applicants will be identified by their initial ranking.

The Procedures Committee will review the list of applicants presented by the Qualifying Committee and will verify the final list of qualified applicants through a majority vote. County EEL staff will provide the list of the qualified applicants in ranked order from highest to lowest to the Board for review and final ranking.

The Board shall review the qualifications of the qualified nominees and give each applicant a ranking score from 1-3. The Assistant County Administrator (or designated county staff) shall tabulate the ranking scores. The applicant with the highest score shall be appointed to the EEL Selection and Management Committee, the applicant with the second highest score shall be appointed as an alternate to the Committee. In the case of tied scores, the Board Chairperson will choose members or alternates by drawing names of those with tied scores from a box.

Brevard County

Environmentally Endangered Lands (EEL) Program

Selection and Management Committee Volunteer Application

Due Date: September 9, 2016

Name:

Mailing Address:

City: State:

Zip:

Phone: Cell Phone: [Click here to enter text.](#)

Email:

The EEL Selection and Management Committee serves as an expert scientific advisory committee to the County Commission on all issues involving the acquisition and management of environmentally endangered lands within the EEL Program protected area network in Brevard County.

Please **complete the following information AND include your resume as an attachment** when submitting this application for consideration.

1. Please confirm your willingness to serve on the Committee for a minimum term of two (2) years.

2. Please provide a brief overview AND resume of your background and expertise related to the following committee member requirements:

- Graduate academic degree in biological or environmental sciences OR demonstrated professional expertise (minimum of 6 years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design.

A major threat to terrestrial communities on MINWR/KSC is sea level rise. I am working with a group of colleagues on modeling the effects of sea level rise on the vegetation communities at MINWR/KSC.

3. Please provide a brief overview of your background and knowledge of Brevard County ecosystems, habitat types and conservation land management techniques.

The majority of my research and work experience has been focused on Florida scrub, scrubby flatwoods and flatwoods and the response of vegetation in these ecosystems to prescribed burning and mechanical treatment. The primary land management techniques for these habitats used on the Merritt Island Wildlife Refuge/Kennedy Space Center (MINWR/KSC) are prescribed burning along with mechanical treatment when necessary. We also monitor two long-term restoration sites of citrus groves; one site was planted with scrub species while the other site was not. Other habitats that I have worked in include wetlands, created wetlands, impoundments, and sand dunes. Each of these projects have included pre- and post-treatment monitoring of vegetation to identify how the management treatment impacted vegetation.

[Click here to enter text.](#)

For Staff Use Only:

Date application received: _____

By: _____ **Via:** **Email** **Fax** **In-Person** **Mail**

TAMMY E. FOSTER

EDUCATION:

Ph.D, Integrative Biology, University of South Florida, Tampa, FL, 2014
M.S., Botany, University of South Florida, Tampa, FL, 2002
B.S., Biology, Eastern College, St. David's, PA, 1996

PROFESSIONAL TRAINING:

Introduction to ArcView GIS, ESRI, 2000
Learning ArcGIS, ESRI, 2002
Migration from ArcView 3.x to ArcView 8, ESRI, 2002
Primer-E Multivariate Statistics Workshop, St. Petersburg FL, 2002
Grass and Sedge ID Workshop, Sarasota SWCD, 2002
Freshwater Wetland and Upland Restoration in the Southeastern Coastal Plain, University of Maine, 2005
Introduction to R, Coursera, 2015
Eddy Covariance Training, LiCor, 2015

AWARDS:

NASA Earth System Science Fellowship, 1998-2000
NASA Causeway Seawall Replacement Project: In recognition of your continued support of the KSC Environmental and /or Energy Program. Team Member, 2009

SUMMARY OF EXPERTISE:

Experience in conducting vegetation studies and surveys, as well as conducting plant physiological ecology research. Proficient in R, ArcGIS, Trimble GPS usage, GPS pathfinder, SigmaPlot, SPSS, Microsoft Office Products, dBase, and Endnote

PROJECT EXPERIENCE:

National Aeronautics and Space Administration, Kennedy Space Center, 2000-Present. Co-investigator. Collaborate on the design and implementation of a scrub restoration program for Kennedy Space Center. Monitor vegetation changes after combinations of cutting and burning to restore long-unburned scrub habitat. Monitor survival and growth of scrub species planted in former agricultural sites. Map acid and particulate deposition after shuttle launches. Conduct research on scrub oaks using dendrochronology and plant physiology techniques. Collaborate on design, data analysis, and writing of interdisciplinary projects in the Ecological Programs.

United States Air Force, 45th Space Wing, 2007-2010. Co-investigator. Monitor scrub vegetation changes for CCAFS scrub habitat restoration study.

United States Army Corps of Engineers, 2007. Principle investigator. Conduct surveys and prepare uniform mitigation assessments of wetlands and surface waters on land to be used for the Indian River Lagoon-South C-23/24 Stormwater Treatment Area in St. Lucie County, Florida.

United States Army Corps of Engineers, 2006. Co-investigator. Conduct surveys for threatened and endangered plants on land to be used for the Indian River Lagoon-South C-23/24 Stormwater Treatment Area and reservoir in St. Lucie County, Florida.

Brevard County Natural Resources Management Office, 2004-2005. Co-investigator. Conduct surveys for threatened and endangered scrub plants in Brevard County, Florida.

Brevard County Natural Resources Management Office, 2003-2004. Co-investigator. Conduct surveys for selected threatened and endangered plants in Brevard County, Florida.

National Park Service, Canaveral National Seashore, 2002-2004. Co-investigator. Compile floristic inventory and survey for threatened and endangered plants on Canaveral National Seashore, Florida.

United States Air Force, 45th Space Wing, 2000-2003. Co-investigator. Monitored vegetation changes after combinations of cutting and burning to restore long-unburned scrub habitat.

EXPERIENCE HISTORY:

2015-present, Plant Ecologist, Integrated Mission Support Services, Kennedy Space Center, FL

2009-2015, Plant Ecologist, InoMedic Health Applications, Kennedy Space Center, FL

2000- 2009, Plant Ecologist, Dynamac Corporation, Kennedy Space Center, FL.

1997-1999, Graduate Research and Teaching Assistant, University of South Florida, Biology Dept., Tampa, FL.

PRESENTATIONS AND ABSTRACTS:

Foster, T.E., P.A. Schmalzer, and G.A. Fox 2013. Climate-growth relationships for slash pine and two dominant oaks in Florida scrub. Abstract of presented paper. Florida Native Plant Society.

Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2012. Changes in distribution and physiology of scrub oaks along a hydrologic gradient. Abstract of presented paper. 2012 Natural Areas Conference.

Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2011. Site differences in growth response of *Quercus myrtifolia* to climate. Abstract of presented paper. Ecological Society of America Annual Meeting.

Foster, T.E., P.A. Schmalzer, and G. A. Fox. 2010. Correlation between climate and growth for Florida scrub oaks: A dendroecology study. Poster presented at Ecological Society of America Meeting, August 5, 2010, Pittsburgh, Pennsylvania. Abstract available online at <http://www.esa.org>.

Schmalzer, P.A. and T.E. Foster. 2010. Responses of long-unburned oak-saw palmetto scrub to repeated cutting or burning. Poster presented at Ecological Society of America Meeting, August 5, 2010, Pittsburgh, Pennsylvania. Abstract available online at <http://www.esa.org>.

Foster, T.E., G.A. Fox, and P.A. Schmalzer. 2008. Relationships between height growth and climatic variables for three Florida scrub oaks. Presentation at Ecological Society of America Meeting, August 8, 2008, Milwaukee, Wisconsin.

Foster, T.E., G.A. Fox, and P.A. Schmalzer. 2008. Relationships between height growth and climatic variables for three Florida scrub oaks. Abstract of presented paper. Ecological Society of America Annual Meeting. Published on CD.

- Schmalzer, P.A. and T.E. Foster. 2007. The role of disturbance in maintaining rare scrub plants: Examples from Brevard County, Florida. Presentation to Florida Native Plant Society Annual Conference, Gainesville, Florida, April 21, 2007.
- Schmalzer, P.A. and T.E. Foster. 2007. Responses of Florida oak scrub vegetation to multiple cycles of cutting and burning. Abstract of presented poster. Ecological Society of America/Society for Ecological Restoration International Joint Meeting. Published on CD.
- Foster, T.E. and P.A. Schmalzer. 2006. The importance of county-acquired lands for the persistence of rare scrub plants in Brevard County, Florida. Presentation at Florida Academy of Sciences Meeting, Florida Institute of Technology, Melbourne, Florida, March 10, 2006.
- Foster, T.E. and P.A. Schmalzer. 2006. The importance of county-acquired lands for the persistence of rare scrub plants in Brevard County, Florida. Abstract of presented paper in: Florida Scientist 69 (Supplement 1): 70-71.
- Foster, T.E. and P.A. Schmalzer. 2005. Preliminary characterization of habitat for rare scrub plants in Brevard County, Florida. Poster presentation Ecological Society of America 90th Annual Meeting, August 11, 2005, Montreal, Quebec, Canada.
- Foster, T.E. and P.A. Schmalzer. 2005. Preliminary characterization of habitat for rare scrub plants in Brevard County, Florida. Abstract of presented poster in: Ecological Society of America 2005 Annual Meeting Abstracts. p. 199.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and rare plants of Canaveral National Seashore. Abstract of presented paper in: Technical Bulletin of the Florida Mosquito Control Association 6:20.
- Schmalzer, P.A., and T.E. Foster. 2004. Flora and rare plants of Canaveral National Seashore. Abstract of presented paper in: Florida Native Plant Society 24th Annual Conference Program, Lake Buena Vista, Florida. p. 5.
- Schmalzer, P.A. and T.E. Foster. 2004. Rare plants of Canaveral National Seashore. Abstract of presented paper in: Florida Scientist 67(Supplement 1): 48-49.
- Foster, T.E. and P.A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Presentation at Second International Wildland Fire Ecology and Fire Management Congress, Orlando, Florida, November 18, 2003.
- Foster, T. E. and P. A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Presentation at Ecological Society of America Meeting, August 4, 2003. Savannah, Georgia.
- Foster, T. E. and P. A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Abstract of presented paper in: Ecological Society of America 2003 Annual Meeting Abstracts. p. 111.
- Schmalzer, P.A. and T.E. Foster. 2003. Characteristics of long-unburned scrub on the Merritt Island/Cape Canaveral barrier island complex before restoration. Abstract of presented poster in: Ecological Society of America 2003 Annual Meeting Abstracts. p. 299.

Schmalzer, Paul A., T. E. Foster, S. R. Turek, and C. A. Dunlevy. 2002. Dynamics of openings in Florida oak-saw palmetto scrub created by intense localized burning. Abstract of presented paper in: *Southeastern Biology* 49(2): 194.

Dreschel, T.W., T.E. Foster, and C.R. Hall. 2001. A ground-based test bed for evaluating plant remote sensing technologies. Abstract of presented paper in: *Florida Scientist* 64 (Suppl. 1):18-19.

Foster, T.E. and J.R. Brooks. 2001. Water-use efficiency of twelve species in the Florida scrub. Abstract of presented paper in: *Florida Scientist* 64 (Suppl. 1):19.

Foster, T.E. and J.R. Brooks. 2001. Water use of eleven species in the Florida scrub. Presentation to Florida Scrub Symposium 2001. Abstract of presented paper in: Program of the Florida Scrub Symposium 2001. p. 19.

Foster, T. E. and J. R. Brooks. 2001. The robustness of physiologically based functional groups in Florida scrub. Abstract of presented paper in: *Ecological Society of America 2001 Annual Meeting Abstracts*. p. 92.

Schmalzer, P.A., S.R. Turek, T.E. Foster, C. A. Dunlevy, and F. W. Adrian. 2001. Reestablishing Florida scrub in a former agricultural site: Survival and growth of planted species. Abstract of presented paper in: *Ecological Society of America 2001 Annual Meeting Abstracts*. p. 200.

PUBLICATIONS:

Foster, T. E. and J. R. Brooks. 2001. Long-term trends in growth of *Pinus palustris* and *Pinus elliottii* along a hydrological gradient in central Florida. *Can. J. For. Res.* 31(10): 1661-1670.

Foster, T.E. and J.R. Brooks. 2001. Water use efficiency of eleven species in the Florida scrub. Pp. 41-43 in D. Zattau. (ed.). *Proceedings of the Florida Scrub Symposium 2001*. U.S. Fish and Wildlife Service. Jacksonville, Florida. 63 p.

Duncan, B.W., P.A. Schmalzer, and T.E. Foster. 2002. Mapping shuttle launch clouds at KSC. *GeoSpatial Solutions* 12(11): 32-37.

Foster, T.E. 2002. Functional groups based on leaf physiology: Are they spatially and temporally robust [thesis]. Tampa, FL: University of South Florida. 83 p.

Foster, T.E. and J.R. Brooks. 2002. Identifying plant functional groups based on leaf physiology in the Florida Scrub: Are they spatially and temporally robust? NASA TM-2002-211174. 84 p.

Schmalzer, P.A., T.E. Foster, and B.W. Duncan. 2002. Revised flora and list of threatened and endangered plants for the John F. Kennedy Space Center area, Florida. NASA TM-2002-211175. 75 p.

Schmalzer, P.A., S.R. Turek, T.E. Foster, C.A. Dunlevy, and F.W. Adrian. 2002. Reestablishing Florida scrub in a former agricultural site: Survival and growth of planted species and changes in community composition. *Castanea* 67:146-160.

- Foster, T.E. and P.A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. In: Proceedings of the Second International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Published on CDROM and at <http://www.ametsoc.org>.
- Schmalzer, P.A. T. E. Foster, and F.W. Adrian. 2003. Responses of long-unburned scrub on the Merritt Island/Cape Canaveral barrier island complex to cutting and burning. In: Proceedings of the Second International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Published on CDROM and at <http://www.ametsoc.org>.
- Dreschel, T.W., C.R. Hall, and T.E. Foster. 2004. Demonstration of a porous tube hydroponic system to control plant moisture and growth. NASA TM2004-211533. 21 p.
- Dreschel, T.W., C.R. Hall, T. E. Foster, M. Salganic, L. Warren, and M. Corbett. 2005. Examining Dehydration and Hypoxic Stress in Wheat Plants Using a Porous Tube Plant Nutrient Delivery System Developed for Microgravity. Paper number 05ICES-64, The International Conference on Environmental Systems, Rome, Italy, July 2005.
- Foster, T.E. and J.R. Brooks. 2005. Functional groups based on leaf physiology: are they spatially and temporally robust? *Oecologia* 144: 337-352.
- Foster, T.E. and P.A. Schmalzer. 2012. Growth of *Serenoa repens* planted in a former agricultural site. *Southeastern Naturalist* 11(2): 331-336
- Foster, T.E. 2014. Water availability as the driving factor of growth and physiological function of co-occurring scrub species in central Florida [dissertation]. Tampa, FL: University of South Florida. 142 p.
- Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2014. Timing matters: The seasonal effect of drought on tree growth. *Journal of the Torrey Botanical Society* 141(3):225-241.
- Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2015. Seasonal climate and its differential impact on growth of co-occurring species. *European Journal of Forest Research* 134(3):497-510.
- Schmalzer, P.A., and T.E. Foster. 2016. Flora and threatened and endangered plants of Canaveral National Seashore, Florida. *Castanea* 81(2) 91-127.
- Foster, T.E., E. Stolen, C. Hall, R. Schaub, B. Duncan, D. Hunt and J. Drese (submitted 2016) Modeling vegetation community responses to sea-level rise on low-lying coastal alluvial and barrier island systems: A case study on the Cape Canaveral Barrier Island Complex, Florida USA. In review PLOS One.

TECHNICAL REPORTS

- Schmalzer, P.A. and T.E. Foster. 2003. Survey of Brevard County, Florida for three rare plants: *Warea carteri*, *Nolina brittoniana*, and *Polygala lewtonii*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 29 p.

- Schmalzer, P.A. and T.E. Foster. 2003. Survey of Brevard County, Florida for *Harrisia fragrans*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 29 p.
- Schmalzer, P.A. and T.E. Foster. 2004. Survey of Brevard County, Florida for *Deeringothamnus rugelii* and *Deeringothamnus pulchellus*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 31 p.
- Schmalzer, P.A. and T.E. Foster. 2004. Multi-species scrub plant survey in Brevard County, Florida, for occurrence of Federally listed endangered or threatened scrub plant species. Interim report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 19 p.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and threatened and endangered plants of Canaveral National Seashore. Final report to National Park Service. Dynamac Corporation, Kennedy Space Center, Florida.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and threatened and endangered plants of Canaveral National Seashore. Executive summary report to National Park Service. Dynamac Corporation, Kennedy Space Center, Florida.
- Schmalzer, P.A. and T.E. Foster. 2005. Multi-species scrub plant survey in Brevard County, Florida, for occurrence of Federally listed endangered or threatened scrub plant species. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 79 p.

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Brevard County

Environmentally Endangered Lands (EEL) Program

Selection and Management Committee Volunteer Application

Due Date: September 9, 2016

Name:

Mailing Address:

City: State:

Zip:

Phone: Cell Phone:

Email:

The EEL Selection and Management Committee serves as an expert scientific advisory committee to the County Commission on all issues involving the acquisition and management of environmentally endangered lands within the EEL Program protected area network in Brevard County.

Please complete the following information AND include your resume as an attachment when submitting this application for consideration.

1. Please confirm your willingness to serve on the Committee for a minimum term of two (2) years.

2. Please provide a brief overview AND resume of your background and expertise related to the following committee member requirements:

- Graduate academic degree in biological or environmental sciences OR demonstrated professional expertise (minimum of 6 years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design.

3. Please provide a brief overview of your background and knowledge of Brevard County ecosystems, habitat types and conservation land management techniques.

As an original member of the SMC, I assisted in the development of the original EEL acquisition strategy to acquire and protect ecosystems unique to east-central Florida (maritime hammock) and/or Brevard County (Enchanted Forest) and co-authored the first EEL Program Land Acquisition Manual (1990). During my SMC tenure, I also participated in the formulation of site-specific acquisition, restoration and management plans associated with nearly all 30,000 +/- acres of environmentally endangered land now managed by Brevard County's EEL Program.

[Click here to enter text.](#)

For Staff Use Only:

Date application received: _____

By: _____ Via: Email Fax In-Person Mail

CURRICULUM VITAE

Randall W. Parkinson, Ph.D., P.G.
322 Coral Drive
Melbourne, Florida 32935
(321) 373-0976 (v)
rwparkinson.inc@gmail.com

EDUCATION

1987 Ph.D., University of Miami; Marine Geology and Geophysics
1982 M.S., University of Iowa; Geology
1979 B.S., Cornell College; Environmental Science

LICENCES

1989 – Present Registered Professional Geologist (PG1054), State of Florida

EMPLOYMENT

2012 – Present Environmental Remediation & Recovery
Director, Division of Coastal Zone and Watershed Management
Design and construction of watershed BMPs to reduce surface water impairment and restore habitat. Conduct vulnerability assessments and other adaptation activities to address climate change/sea level rise. Conservation land management and restoration; public education and outreach.

2006 - 2013 RWParkinson Consulting Inc.
President
Principal of firm specializing in geologic and environmental issues associated with the management and protection of coastal resources.

2000 - 2006 Coastal Technology Corporation
Senior Geologist and Laboratory Director
Assess the cause and consequence of coastal erosion. Design and direct geological investigations of coastal zone using bathymetric, seismic, vibracore, and grab sample surveys. Conduct environmental impact assessments associated with coastal urbanization and sea level rise. Managed 4,500 sf geotechnical laboratory and professional staff.

2000 Summer Faculty Fellowship
NASA Kennedy Space Center
Conducted applied research on conservation-land and wetland management issues.

-
- 1993 - 2000 Associate Professor
Florida Institute of Technology
- 1995 - 1996 Fulbright Scholar
American Republics Research Program
- 1987 - 1993 Assistant Professor
Florida Institute of Technology

PUBLICATIONS AND REPORTS

Climate Change

Peer Reviewed Publications

- Meeder, J., and Parkinson, R. *Submitted*. Marine Transgression in Response to Accelerating Sea Level Rise as a Viable Boundary for the Base of the Anthropocene. *GSA Today*.
- Parkinson, R., Harlem, P., and Meeder, J. 2015. Managing the Anthropocene Marine Transgression to the Year 2100 and Beyond in the State of Florida U.S.A. *Climatic Change*, v128:85-98. doi:10.1007/s10584-014-1301-2.
- Donoghue, J., and Parkinson, R., 2011. Discussion of: Houston, J.R. and Dean, R.G., 2011. Sea-Level Acceleration Based on U.S. Tide Gauges and Extensions of Previous Global-Gauge Analyses (*JCR* 27(3):409–417. *Journal of Coastal Research*, v. 27(5):994 – 996. doi: 10.2112/JCOASTRES-D-11-00098.1.
- Parkinson, R. and McCue, T., 2011. Assessing Municipal Vulnerability to Predicted Sea-Level Rise: City of Satellite Beach, Florida. *Climate Change*, v. 107:203-223. doi: 10.1007/s10584-011-0086-9.
- Parkinson, R., and Donoghue, J., 2010. Bursting the Bubble of Doom and Adapting to Sea-Level Rise. *Shoreline*, March 2010. Florida Shore and Beach Preservation Association, Tallahassee, FL, pg. 12 – 22.
- Parkinson, R. 2009. Adapting to Rising Sea Level – A Florida Perspective, *in* G. Nelson and I. Hronszky (eds.) - *Sustainability 2009: the Next Horizon*, American Institute of Physics, pg. 19 – 25.
- Nuttle, W., et al., 1997, *Conserving Coastal Wetlands Despite Sea Level Rise: Eos*, v. 78:257-261.
- Parkinson, R., 1994, Guest Editor, Thematic Section on Sea-Level Rise and the Fate of Tidal Wetlands. *Journal of Coastal Research*, v. 10:987-990.
- Parkinson, R., DeLaune, R., and White, J., 1994, Holocene Sea-Level Rise and the Fate of Mangrove Forests Within the Wider Caribbean Region. *Journal of Coastal Research*, v. 10:1077-1086.

Parkinson, R.W., 1989, Decelerating Holocene Sea Level Rise and its Influence on Southwest Florida Coastal Evolution: A Transgressive/Regressive Stratigraphy. *Journal of Sedimentary Petrology*, v. 59:960-972.

Book Chapters

Parkinson, R. W., 2011. In Search of a Stable Sea Level, *in* *Enjoying Florida's Indian River Lagoon Coast* by Rodney Smith, Pure Ocean Productions, ISBN-978-0-9771284-3-3.

Wanless, H.R., Parkinson, R.W., and Tedesco, L.P., 1994, Sea Level Control on Stability of South Florida Wetlands, *in* S. Davis and J. Ogden (eds.), *Everglades: the Ecosystem and It's Restoration*. St. Lucie Press, Florida, p. 199-223.

Peer Reviewed Abstracts

Meeder, J., Parkinson, R., Harlem, P., and Ross, M. Invited. The Threshold Rate of Sea Level Rise Determining Resilience vs. Non-Resilience in Southeast Florida Coastal Wetlands. Mangrove & Macrobenthos Meeting, July 18-22, 2016. St. Augustine, Florida.

Meeder, J., Parkinson, R., Harlem, P., Renshaw, A., and Ross, M., Invited. Saltwater encroachment and prediction of future ecosystem response to the Anthropocene Marine Transgression, Southeast Saline Everglades, Florida. Ecological Society of America Annual Meeting, August 7-12, 2016. Ft. Lauderdale, Florida.

Parkinson, R., Harlem, P., and Meeder, J., 2016. Adapting to Sea Level Rise in the State of Florida to the Year 2100 and Beyond: National Conference on Beach Preservation Technology, February 3-5, 2016. Jacksonville, Florida.

Parkinson, R., Harlem, P., and Meeder, J. 2014. Adapting to Sea Level Rise to the Year 2100 and Beyond in the State of Florida, USA: A Regional Approach Based upon Common Vulnerabilities and the Utility of Shared Resources, In *Connecting Climate Projections to Responses in Coastal and Continental Shelf Environments I* (posters). American Geophysical Union 2014 Fall meeting, San Francisco, California, paper number GC21A-0492.

Parkinson, R.W., and Fergus, J., 2011. Assessing Municipal Vulnerability to Predicted Sea Level Rise: City of Satellite Beach, Florida, USA. Invited paper, 21st Biannual Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, November 6 – 10, 2011, Program Book p. 51.

Parkinson, R., McCue, T., and Day, R., 2010. Modeling Municipal Vulnerability to Rising Sea Level, Program with Abstracts, *in* *Keeping Our Heads Above Water: Surviving the Challenges of Sea-Level Rise in Florida*. A Workshop at Archbold Biological Station, Lake Placid, Florida January 18-20, 2010 Sponsored by the Florida Institute for Conservation Science, Inc., Orlando, Florida.

Parkinson, R., Magron, J., Lucas, L., Herren, R., and Ehrart, L., 1999. The Influences of

- Climatological Anomalies on Marine Turtle Nesting Beaches at Sebastian Inlet, Florida. Proceedings of the 19th Annual Symposium on Sea Turtle Conservation and Biology, South Padre Island, Texas.
- Parkinson, R., David, J., and Haydt, P., 1996. Effects of Predicted Sea-Level Rise on Wetland Management and Mosquito Control. Third Workshop on Salt Marsh Management and Research, Florida Coordinating Council on Mosquito Control, Vero Beach, Florida.
- Parkinson, R., and Fluke, L.A., 1995. Coastal Overstepping in Response to Late Quaternary Catastrophic Sea-Level Rise Events. First Annual SEPM Congress on Sedimentary Geology "Linked Earth Systems", St. Petersburg Beach, Florida.
- Parkinson, R., and Swart, P., 1995. The Distribution and Geochemistry of Ooids as Evidence for Warm Equatorial Conditions During the Last Glacial Maximum. First Annual SEPM Congress on Sedimentary Geology "Linked Earth Systems", St. Petersburg Beach, Florida.
- Parkinson, R., and Meeder, J., 1991. Controls on Long-Term South Florida Mangrove Swamp Survival: Sea Level Rise and the Geologic Record. Coastal Wetland Ecology and Management Symposium, New Orleans, Louisiana
- Parkinson, R., 1990. Sea Level Rise and the Fate of Florida's Tidal Wetlands: Research Needs and Recommendations. Florida Coastal Management Conference - Navigating the Nineties, Clearwater, Florida.
- Wanless, H., and Parkinson, R., 1989. Late Holocene Sea-Level History of Southern Florida: Control on Coastal Stability, *in* Tanner, W.F. (ed.), Coastal Sediment Mobility, Proc., Eighth Symposium on Coastal Sedimentology. Geology Department, Florida State University, Tallahassee, FL.
- Parkinson, R., 1988. Sea Level Rise and Coastal Response Projections for Marsh/Mangrove Fringed Shorelines: The Importance of Vertical Peat Accumulation Rates. Joint Oceanographic Assembly, Acapulco, Mexico, Abstracts, p. 81.
- Parkinson, R., 1987. Rate of Sea Level Rise as a Control on Physical vs. Biological Sedimentation: Examples from the Holocene of South Florida. Am. Assoc. Petroleum Geologists Bull., v. 71, p. 600.
- Snedaker, S., and Parkinson, R., 1987. Potential Effects of Climate Change on Mangroves with Specific Reference to Global Warming and Sea Level Rise. Proceedings, IOC/WESTPAC Symposium on the Indo-Pacific Convergence, Townsville, Australia.
- Parkinson, R., 1986. Reevaluation of Southwest Florida's Coastal Response to Rising Sea Level: Evidence for Progradation. Soc. Econ. Paleontologists and Mineralogists Midyear Mtg. Abstracts, v. 3, p. 87.

Parkinson, R., 1985. Holocene Sedimentation and Coastal Response to Rising Sea Level Along a Low Energy Coastline, Southwest Florida. *Geol. Soc. Am. Abstracts with Programs*, v. 17, p. 685.

Reports

Seidel, V., and Parkinson, R., 2014. Prioritizing Total Maximum Daily Loads (TMDLs) Using Seagrass Habitat Vulnerability to Sea Level Rise. Saint Johns River Water Management District, Palatka, Florida: Phase II.

Seidel, V., and Parkinson, R., 2013. Prioritizing Total Maximum Daily Loads (TMDLs) Using Seagrass Habitat Vulnerability to Sea Level Rise. Saint Johns River Water Management District, Palatka, Florida: Phase I.

Parkinson, R.W. 2010. Municipal Adaptation to Sea-Level Rise: City of Satellite Beach, Florida. City of Satellite Beach, Florida.

Natural Resources

Peer Reviewed Publications

Parkinson, R., Huggins, E, and Taylor, D. S., 2012. Sedimentary Environments, Karstification, and the Preservation of a Late Pleistocene Coastal Bone Bed: Pine Island Conservation Area, Brevard County, Florida, U.S.A. *Florida Scientist*, v. 75(1):25-40.

Parkinson, R. and Latiolias, M., 2011. Geologic Map of Cumberland Island National Seashore - Georgia, U.S.A. Geologic Resources Division, National Park Service, Denver, Colorado.

Parkinson, R., and Schaub, R., 2006. Geological Map of Canaveral National Seashore, Florida, U.S.A. Geologic Resources Division, National Park Service, Denver, Colorado.

Parkinson, R., DeLaune, R., Hutcherson, C., and Stewart, J., 2006, Tuning Surface-Water Management and Wetland Restoration Programs using Historic Sediment Accumulation Rates: Merritt Island National Wildlife Refuge, East-Central Florida, U.S.A. *Journal of Coastal Research*, v. 22:1268-1277.

Parkinson, R., Perez-Bedmar, M., and Santangelo, J., 2000, Litter Fall Response of the Red Mangrove (*Rhizophora mangle* L.) to Selective Pruning Indian River Lagoon, Florida USA. *Hydrobiologia*, 413:63-76.

Parkinson, R., 1999, The Role of Geologic Processes in Estuary Management. *Florida Naturalist*, v. 72:15-17.

Parkinson, R., 1995, Managing Biodiversity from a Geological Perspective. *Bulletin of Marine Science*, v. 57:28-36.

Parkinson, R., Wang, T.C., White, J.R., David, J.R., and Hoffman, M.A., 1993, Distribution and Migration of Pesticide Residues in Mosquito Control Impoundments, St. Lucie County,

Florida. *Environmental Geology*, v. 22:26-32.

Parkinson, R., and Meeder, J., 1991, Mudbank Destruction and the Formation of a Transgressive Sand Sheet, Southwest Florida Inner Shelf. *Geological Society of America Bulletin*, v. 103:1543-1551.

Peer Reviewed Abstracts

Parkinson, R., and Schaub, R., 2007. Application of NPS Coastal Mapping Protocols in Construction of "A Geologic Map" for Canaveral National Seashore, East-Central Florida USA. *Geological Society of America Annual Meeting (28-31 October 2007)*. Program with Abstracts.

Parkinson, R., Schaub, R., and Stiner, R., 2005. Late Quaternary Subsurface Geology of Canaveral National Seashore/Merritt Island National Wildlife Refuge. *Fifth Workshop on Salt Marsh Management & Research, Sponsored by Florida Subcommittee on Managed Marshes*. Cocoa Beach, Florida. February 14 – 17, 2005.

Hinkle, C., et al., 2005. Environmentally Endangered Lands Acquisition and Conservation Program in Brevard County. *Fifth Workshop on Salt Marsh Management & Research. Sponsored by Florida Subcommittee on Managed Marshes*. Cocoa Beach, Florida. February 14 – 17, 2005.

Parkinson, R., DeLaune, R., Hutcherson, C., and Stewart, J. 2003. Forecasting the Probability of Wetland Restoration Success Using Historical Sediment Accumulation Rates: Merritt Island National Wildlife Refuge, Florida, USA. *Proceedings, International Conference on Coastal Sediments 03*, Clearwater Beach, FL.

Dunlevy, C., and Parkinson, R., 1999. Rapid Land Loss on Pelican Island, The Nation's First National Wildlife Refuge. *Geological Society of America Program with Abstracts*.

Parkinson, R., and Perez-Bedmar, M., 1996. The Florida Mangrove Trimming Law: Seasonal Restrictions are One Solution to this Complex Management Issue. *3rd Marine and Estuarine Shallow Water Conference, United States Environmental Protection Agency, Atlantic City, N.J.*

Perez-Bedmar, M., and Parkinson, R., 1996. Effects of Selective Trimming on Litter Fall in a Fringing Red Mangrove Forest, East Central Florida, USA. *3rd Marine and Estuarine Shallow Water Conference, United States Environmental Protection Agency, Atlantic City, N.J.*

Perez-Bedmar, M., and Parkinson, R., 1996. Impact Assessment of Selective Trimming on Mangrove Primary Productivity, Habitat Value and Ecosystem Function, St. Lucie County, Florida. *Third Workshop on Salt marsh Management and Research, Florida Coordinating Council on Mosquito Control, Vero Beach, Florida.*

- Wiegman, G., and Parkinson, R., 1996. Effects of Rotary Ditching on Salt Marsh Sedimentation, Vegetation Community Succession and Mosquito Control, Volusia County, Florida. Third Workshop on Salt marsh Management and Research, Florida Coordinating Council on Mosquito Control, Vero Beach, Florida.
- Nelson, W., Parkinson, R., Eilers, M., Karlen, D., Wiegman, G., and Traudt, B., 1996. Estuarine Reconnection of a Salt Marsh Creek: Part I. Project Overview and Effects on Water Quality. Florida Coordinating Council on Mosquito Control, Third Workshop on Salt marsh Management and Research, Vero Beach, Florida, 22-25 October 1996.
- Eilers, M., Karlen, D., Nelson, W., Parkinson, R., and Wiegman, G., 1996. Estuarine Reconnection of a Salt Marsh Creek: Part II. Effects on Sediments and Macro-Benthic Fauna. Florida Coordinating Council on Mosquito Control, Third Workshop on Salt marsh Management and Research, Vero Beach, Florida.
- Karlen, D., Eilers, M., Nelson, W., Parkinson, R., and Wiegman, G., 1996. Estuarine Reconnection of a Salt marsh Creek: Part III. Effects on Fishes and Macro-Crustaceans. Florida Coordinating Council on Mosquito Control, Third Workshop on Salt marsh Management and Research, Vero Beach, Florida.
- Parkinson, R., Nelson, W., Wiegman, G., Traudt, B., Eilers, M., and Karlen, D., 1996. Estuarine Reconnection of a Salt Marsh Creek: Part IV. Effects on Marsh Vegetation and Summation. Florida Coordinating Council on Mosquito Control, Third Workshop on Salt marsh Management and Research, Vero Beach, Florida.
- Perez-Bedmar, M., and Parkinson, R., 1995. Windowing Effects on the Above-Ground Primary Productivity of a Fringing Red Mangrove Forest, East Central Florida. Estuarine Research Federation 13th International Conference, Programs with Abstracts, p. 102.
- Wiegman, G., Parkinson, R., and DeLaune, R., 1995. Effects of Spoil Deposition and Rotary Ditching on Tidal Wetland Vertical Accumulation Rates, East-Central Florida, U.S.A. Estuarine Research Federation 13th International Conference, Programs with Abstracts.
- Parkinson, R., 1994. Management of Estuarine Biodiversity from a Geological Perspective. Proceedings, Biodiversity of the Indian River Lagoon, Harbor Branch Oceanographic Institution, Ft. Pierce, Florida, 15 - 17 February, 1994.
- Parkinson, R., Nelson, W., and Haydt, P., 1992. Evaluation of the Effectiveness of Salt Marsh Restoration with Rotary Ditching: Program Design and Preliminary Observations. Proceedings, Second Workshop on Salt Marsh Management and Research, Vero Beach, Florida, 28 October - 2 November, 1992.
- Parkinson, R., Wang, T., White, J., David, J., 1992. Distribution and Migration of Pesticides in St. Lucie County Mosquito Control Impoundments. Proceedings, Second Workshop on Salt

Marsh Management and Research, Vero Beach, Florida, 28 October - 2 November, 1992.

White, J., Parkinson, R., David, J., DeLaune, R., 1992. The Influence of Impoundment Management on Mangrove Swamp Accretions Rates: Observations and Long Term Implications. Proceedings, Second Workshop on Salt Marsh Management and Research, Vero Beach, Florida, 28 October - 2 November, 1992.

Reports

Parkinson, R.W., 2008. Geological Assessment of Pine Island Conservation Area. Environmentally Endangered Lands Committee, Brevard County Florida.

Parkinson, R., and Dunlevy, C., 1999. Action Plan for the Shoreline Stabilization of Pelican Island. U.S. Fish and Wildlife Service Technical Report.

Parkinson, R., Bumstead, T., and Dunlevy, C., 1999. A Preliminary Assessment of the Surman Tract: Recent and Historical Landscape Features. U.S. Fish and Wildlife Service Technical Report.

Parkinson, R., Wiegman, G., and Dunlevy, C., 1997. Development of Restoration and Management Plans: Pelican Island and Surman Tract: Project Status Report. Unpublished Report Submitted to United States Fish and Wildlife Service, Sabastian, Florida.

Parkinson, R., and Perez-Bedmar, M., 1996. Effects of Selective Trimming on Litter Fall in a Fringing Red Mangrove Forest, Indian River Lagoon. Florida Department of Environmental Protection.

Parkinson, R., and Nelson, W.G., 1995. Evaluation of the Effectiveness of Salt Marsh Restoration with Rotary Ditching. East Volusia County Mosquito Control District.

Parkinson, R., and Nelson, 1993. Environmental Base-Line Study of Lost Creek and Ten Mile Creek, Volusia County, Florida. East Volusia County Mosquito Control District.

Parkinson, R., Wang, T., David, J., 1990. Pesticide Residue in Barrier Island Salt Marshes Along the Indian River Lagoon. Coastal Zone Management Program, Florida Department of Environmental Regulation.

Coastal Zone Management

Peer Reviewed Publications

Mayhew, T., and Parkinson, R., 2007, Holocene Evolution of the Barrier Island System, East-Central Florida. Florida Scientist, v. 70(4):383-396.

Parkinson, R., and White, J.R., 1994, Late Holocene Shoreface Retreat within a Siliciclastic to Carbonate Transition Zone, East Central Florida. Journal of Sedimentary Research, v.

B64:408-415.

Parkinson, R., 1992, Building a Conceptual Model of Mangrove Ecosystem Response to Global Climate Change: Sea Level Rise and the Geologic Record: *Jaina*. v. 3, p. 6-9.

Parkinson, R.W., 1991, Stratigraphic Evidence of Onshore Sand Transport throughout the Holocene Marine Transgression, Southwest Florida. *Marine Geology*, v. 96:269-277.

Bader, S., and Parkinson, R., 1990, Holocene Evolution of the Indian River Lagoon in Central Brevard County, Florida. *Florida Scientist*, v. 53, p. 204-215.

Peer Reviewed Abstracts

Parkinson, R., 2009. Geohazard Assessment of Proposed Construction Excavation at the Reserve at Bay Harbor, Galveston Island, Texas. Geological Society of America, Southeastern Section Meeting, St. Petersburg, Florida, Program with Abstracts.

Parkinson, R., and Budde, L., 2006. Plans & Specs – Level Offshore Sand Search Investigation, South Peninsula Volusia County, Florida U.S.A. in Proceedings National Conference on Beach Preservation Technology, February 1 – 3, 2006, Sarasota, Florida.

Parkinson, R., Walther, M., and Truitt, C., 2006. Borrow Area Delineation and Native Beach Compatibility, Volusia County, Florida. National Conference on Beach Preservation Technology, Sarasota, FL. January 30 to February 1, 2006.

Parkinson, R., Davenport, S., Moya, J., 2005. Reconnaissance-Level Investigation of Late Pleistocene Incised Channel-Fill Sequences as Potential Borrow Areas for Nourishment of East Texas Gulf coast shorelines. Geological Society of America Abstract with Programs, v 37, n 3, pg. 10. South-central Section Meeting, Biloxi, Mississippi. March 17-18, 2005.

Fielder, B., Majzlik, E., Dellapenna, T., Parkinson, R., McInnes, A., Noll, C., Joiner, N., and Moya, J. 2005. Exploration of buried paleochannels under Follet's Island, Texas, for beach renourishment. Geological Society of America Abstracts with Programs, South-Central Section - 39th Annual Meeting, v. 37(3): 10.

Parkinson, R., Dombrowski, M., and Walther, M. 2002. Integrating Technical Expertise to Enhance Project Performance: Santa Rosa County, Florida. Proceedings - Florida Shore and Beach Association Annual Meeting.

Magron, J., and Parkinson, R., 2001. Evaluating the Potential Effect of Long-Term Upland Sand Deposition on High-Density Nesting Beaches Located Within the Archie Carr National Wildlife Refuge. Proceedings of the 20th International Sea Turtle Symposium, Orlando, Florida.

- Parkinson, R. and Brantly, R., 2001. Physical Monitoring Workshop: Survey Results and Summary. Proceedings 20th International Sea Turtle Symposium, Orlando, Florida. <http://www.seaturtle.org/mtn/archives/mtn89/mtn89p17.shtml>
- Lucas, L. and Parkinson, R., 2000. Rationale for Evaluating the Design and Function of Monitoring Programs Undertaken in Association with the Nourishment of Florida's Marine Turtle Nesting Beaches. 20th Annual Sea Turtle Symposium, Orlando, Florida.
- Mayhew, T. and Parkinson, R., 2000. Late Holocene Geologic Evolution of a Barrier Island Complex and the Indian River Lagoon, East-Central Florida. Proceedings of the Southeastern Estuarine Research Society, Tampa, Florida.
- Parkinson, R., Magron, J., and Ehrart, L., 1999. Impact Assessment of Upland Source Beach Nourishment on the Physical Environment of a High Density Marine Turtle Nesting Beach, Sebastian Inlet, Florida. Proceedings of the 19th Annual Symposium on Sea Turtle Conservation and Biology, South Padre Island, Texas
- Cornelisen, C., Parkinson, R., and Ehrhart, L., 1997. Quantifying the Effects of the Beach Environment on Sea Turtle Reproductive Success at Sebastian Inlet, Florida. An Update. Spring SEERS Meeting, Islamorada, Florida.
- Magron, J., Cornelisen, C., and Parkinson, R., 1997. Long-term Reproductive Success of Western Loggerheads in East-Peninsular Florida: Does Exponential Growth of Beach Nourishment Present An Insurmountable Obstacle? Spring SEERS Meeting, Islamorada, Florida.
- Parkinson, R., and Magron, J.P., 1997. Physical Attributes of a Natural (Control) and Renourished (Treatment) Beach, Sebastian Inlet, Florida, Year 5. Sebastian Inlet Tax District Commission. [Presented at the SEERS Symposium, Marathon, Florida, USA]
- Cornelisen, C., and Parkinson, R., 1996. Effects of Beach Renourishment on Physical Attributes of a High-Density Sea Turtle Nesting Beach, East-Central Florida. *Florida Scientist*, v. 59, Supplement 1, p. 33.
- Parkinson, R., Vann, J., and Perez-Bedmar, M., 1995. Effects of Beach Nourishment on the Physical Attributes of a High Density Nesting Beach, Sebastian Inlet, Florida: Assessment of Year 3 Data. Fifteenth Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head, South Carolina, 1-5 March, 1995.
- Parkinson, R., and Civil, M., 1994. Inner Shelf Stratigraphy within the U.S. Atlantic Siliciclastic to Carbonate Transition, East-Central Florida. *Geol. Soc. Am. Abstracts with Programs*, v. 26:92.
- Parkinson, R., and Nelson, W.G., 1994. An Overview of Workshop B: Innovative Approaches to Environmental Monitoring of Near Shore Beach Restoration Projects. Proceedings of the

1994 National Conference on Beach Preservation Technology, Florida Shore and Beach Preservation Association, Tallahassee, Florida, 244 pg.

Parkinson, R., White, J., and Perez-Bedmar, M., 1994. Effects of Beach Nourishment on Compaction, Grain-Size, Moisture and Temperature: Sebastian Inlet. Proceedings of the Fourteenth Annual Symposium on Sea Turtle Biology and Conservation, U.S. Department of Commerce, National Oceanic and Atmospheric Administration Technical Memo NMFS-SEFSC-351, p. 112-114.

White, J., and Parkinson, R., 1993. Erosional Shoreface Retreat Along a Storm Dominated, Mixed Siliciclastic/Carbonate Barrier Island Complex, East-Central Florida. *Geo. Soc. Am. Programs with Abstracts*, v. 25.

Parkinson, R., and Ryder, C., 1992. A Comparison of Physical Attributes of a Renourished and Natural Beach: Implications for Sea Turtle Monitoring. Proceedings of the 1992 National Conference on Beach Preservation Technology, Florida Shore and Beach Preservation Association, Tallahassee, FL, p. 416-425.

Parkinson, R., and Meeder, J., 1991. Controls on Holocene Coastal Evolution of the Southwest Florida Peninsula. *Programs and Abstracts, Research Conference on Quaternary Coastal Evolution, SEPM and IGCP Project 274*.

Parkinson, R., Venanzi, P., and Fitzpatrick, K., 1991. Preliminary Observations of a Long Term Turbidity Study, Sebastian Inlet, Florida: Fourth Annual Conference, Beach Preservation Technology '91. Florida Shore and Beach Preservation Association, Tallahassee, FL, p. 295-310.

Parkinson, R., 1987. Development of the Cape Romano Shoals Complex, Southwest Florida, and its Influence on Holocene Coastal Sediment Sequences. *Soc. Econ. Paleontologists and Mineralogists Midyear Mtg.*, v. 4, p. 63.

Reports

Ernest, R., and Parkinson, R., 2010. Implementing Sediment Quality Assurance Measures for the Bathtub Beach Restoration Project, Hutchinson Island, Florida. Martin County, Stuart, Florida.

Parkinson, R. 2008. Spoonbill Bay Cumulative Impact Assessment of Geohazards. Spoonbill Bay Holdings, LP, Galveston, Texas.

Parkinson, R., 2008. Report of Investigation - Reach 8 Offshore Sand Search Survey. Surfrider Foundation, Inc.

Parkinson, R., 2008. Report of Investigation - Reach 7 Project Performance Assessment. Surfrider Foundation, Inc.

- Parkinson, R., 2007. Report of Investigation - Reserve at Bay Harbor Development Geohazards Cumulative Impact Assessment – Phase II. Rush Development, LP, Katy, Texas.
- Parkinson, R., 2007. Report of Investigation - Reserve at Bay Harbor Development Geohazards Cumulative Impact Assessment – Phase I. Rush Development, LP, Katy, Texas.
- Parkinson, R., 2006. Report of Investigation - Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. MRD Associates, Destin, Florida.
- Parkinson, R., 2005. Report of Investigation - Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. Volusia County.
- Parkinson, R., 2004. Report of Investigation - Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment, Phase II. Santa Rosa County.
- Parkinson, R., 2003. Report of Investigation - Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. Sarasota and Charlotte Counties.
- Parkinson, R., 2002. Report of Investigation - Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment, Phase I. Santa Rosa County.
- Parkinson, R., Magron, J., and Lucas, L., 1999. Physical Attributes of a Natural (Control) and Renourished (Treatment) Beach, Sebastian Inlet, Florida, Year 7. Sebastian Inlet Tax District Commission.
- Parkinson, R.W., and Lucas, L., 1998. Biological Monitoring Programs: Marine Turtles-Physical Attributes Sebastian Inlet, Florida. Sebastian Inlet Tax District Commission.
- Parkinson, R.W., Magron, J.P., and Rozycki, J., 1998. Physical Attributes of a Natural (Control) and Renourished (Treatment) Beach, Sebastian Inlet, Florida, Year 6. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Wiegman, G.J., 1996. Characterization of Sand Trap Sediment, Sebastian Inlet, Florida. Sebastian Inlet Tax District Commission.
- Parkinson, R., Fluke, L.A., 1995. Characterization of Surficial Sediment, Sebastian Inlet Sand Trap. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Nelson, W.G., 1995. Annual Technical Report: Biological Monitoring Programs. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Fluke, L.A., 1994. Environmental Evaluation of Northern Route for the Proposed Navigation Channel Extension to the Inter-coastal Waterway. Sebastian Inlet Tax District Commission.

- Parkinson, R., and Nelson, W.G., 1994. Annual Technical Report. Biological Monitoring Programs: Sebastian Inlet Tax District Commission.
- Parkinson, R., Wiegman, G.J., 1994. Geotechnical Analysis: Channel Extension Project Technical Report. Sebastian Inlet Tax District Commission.
- Parkinson, R., 1993. Characterization of Surficial Sediment, Sebastian Inlet Sand Trap. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Fluke, L.A., 1993. Geotechnical Analysis of Core Borings, Taylor Creek Area, Ft. Pierce, Florida. Harbor Branch Oceanographic Institution.
- Parkinson, R., and Nelson, W.G., 1993. Annual Technical Report: Biological Monitoring Programs. Sebastian Inlet Tax District Commission.
- Parkinson, R., 1992. Physical Attributes of a Natural (Control) and Renourished (Treatment) Beach, Sebastian Inlet, Florida - Year 1. Sebastian Inlet Tax District Commission.
- Parkinson, R., 1992. Preliminary Environmental Assessment of the Proposed Navigation Channel Extension to the Intracoastal Waterway: Physical Assessment. Sebastian Inlet Tax District Commission.
- Parkinson, R., 1992. Geologic History of St. Lucie County Mosquito Control Impoundment 10A. St. Lucie County Mosquito Control District.
- Parkinson, R., and Nelson, W., 1992. Annual Technical Report: Biological Monitoring Programs. Sebastian Inlet Tax District Commission.
- Parkinson, R.W., 1991. Moisture and Grain Size Characteristics of a Renourished and Control Beach. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Nelson, W., 1991. Annual Technical Report: Biological Monitoring Programs. Sebastian Inlet Tax District Commission.
- Parkinson, R.W., 1990. Summary Report of Sebastian Inlet Ebb Shoal Core Borings. Sebastian Inlet Tax District Commission.
- Parkinson, R., and Nelson, W., 1990. Annual Technical Report: Biological Monitoring Programs. Sebastian Inlet Tax District Commission.
- Parkinson, R., 1988. Turbidity Monitoring of Sebastian Inlet Channel Dredging Project Final Report. Sebastian Inlet Tax District Commission.

OTHER MEDIA

Radio

Smart Growth: Cities versus Natural Disasters: Retreat or Resist? National Public Radio Cities Project. National Building Museum, Washington D.C. October 22, 2014.

<http://go.nbm.org/site/Calendar/1029868583?view=Detail&id=117861>

A Coastal Paradise Confronts Its Watery Future. All Things Considered, National Public Radio. September 18, 2014. <http://www.npr.org/2014/09/18/348985568/a-coastal-paradise-confronts-its-watery-future>

Guest Columnist

The World is Warming and Waiting for Science. Orlando Sentinel. January 23, 2011.

http://articles.orlandosentinel.com/2011-01-23/news/os-ed-climate-change-guest-012311-20110121_1_climate-change-dengue-fever-global-warming

Global Warming has been Confirmed. The Florida Times-Union. June 14, 2011.

<http://jacksonville.com/opinion/letters-readers/2011-06-14/story/guest-column-global-warming-has-been-confirmed>

YouTube

Indian River Lagoon Seagrass Resilience Under Conditions of Rising Sea Level.

<http://youtu.be/dEwJ4lOru38> (posted November 29, 2014)

Climate Change and Recreational Boating in Florida.

<https://www.youtube.com/watch?v=ZheBNRdujDo> (posted July 12, 2012)

Adapting Coastal Communities to Sea-Level Rise: Why Isn't Anybody Doing Anything?

<https://www.youtube.com/watch?v=0i5800yNYLE> (posted April 6, 2012)

CONTRACTS

Climate Change

- | | |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| 2016 | Stabilize and Protect South Florida Archeological Sites with Integrated Ecosystem Restoration, National Park Service, \$36,000. |
| 2016 | Cost-Benefit Analysis of Adaptation Options to Ensure Resiliency of the City of Satellite Beach, Florida, \$275,000 (submitted). |
| 2013 | Effect of Sea-Level Rise on Indian River Lagoon Seagrass Habitat – Phase II: Climate Ready Estuaries Program. US EPA, \$27,000 |
| 2012 | Effect of Sea-Level Rise on Indian River Lagoon Seagrass Habitat – Phase I: Climate Ready Estuaries Program. US EPA, \$22,000 |
| 2009 | Assessing Municipal Vulnerability to Predicted Sea-Level Rise: City of Satellite |

Beach, Florida. Climate Ready Estuaries Program: Department of Environmental Protection, \$20,000

Natural Resources

- 2016 Erie Bluff State Park Trail Improvements. Erie County. \$34,000
- 2016 Trout Run Channel and Creek Bank Stabilization Using BMPs. PA Department of Community and Economic Development, \$59,000
- 2015 Scott Run Watershed Protection and Restoration. PA Growing Greener 2014 Grant Program, \$132,795
- 2013 Walnut Creek Watershed Riparian Buffer Re-Vegetation. Pennsylvania Sea Grant, \$30,363
- 2010 Geologic Mapping of Cumberland Island National Seashore. National Park Service, \$41,000
- 2006 Geological Map of Canaveral National Seashores. United States National Park Service, \$25,000
- 1999 Wetlands Initiative - Historical Marsh Accretion Rates. United States Environmental Protection Agency, \$45,000
- 1997 Proposal for the Development of Restoration and Management Plans: Pelican Island and Surman Tract. United States Fish and Wildlife Service (USFWS), \$49,000
- 1997 Environmental Impact Assessment of Mangrove Trimming in the Southern Indian River Lagoon. United States Fish and Wildlife Service (USFWS), \$42,045
- 1996 Evaluating the Effects of Selective Trimming on Mangrove Productivity. United State Fish and Wildlife Service, \$43,000
- 1995 Effects of Selective Trimming on Macro-Benthos and Algae. Florida Sea Grant, \$18,000
- 1995 Project Extension: Evaluation of Permitted Mangrove Pruning on Productivity and Habitat Value. U.S. Environmental Protection Agency, \$20,000
- 1995 Shoreline Stabilization of Spoil Islands. A Pilot Project: St. Johns River Water Management District, \$15,000
- 1994 Evaluation of Permitted Mangrove Pruning on Productivity and Habitat Value.

- U.S. Environmental Protection Agency, Florida Department of Environmental Protection, St. Johns River Water Management District, and South Florida Water Management District, \$60,000
- 1992 Evaluation of the Effectiveness of Salt Marsh Restoration with Rotary Ditching. East Volusia County Mosquito Control (with Walter Nelson, FIT), \$20,000
- 1991 Geological Investigation of St. Lucie County Mosquito Control Impoundment 10A. St. Lucie County Mosquito Control, \$5,000
- 1989 Pesticide Residue in Barrier Island Salt Marshes along the Indian River Lagoon. Department of Environmental Regulation (with Tsen Wang, HBOI), \$98,000
- Coastal Zone Management***
2016. Coastal Working Group, Martin County, Florida, \$20,000
- 2015 Coastal Working Group. Martin County, Florida, \$20,000
- 2014 Coastal Working Group. Martin County, Florida, \$20,000
- 2011 Geologic Investigation of Potential Borrow Areas Offshore Singer Island Site, Palm Beach County Florida. Taylor Engineering, Inc., \$48,500
- 2011 Sand Trap Compatibility with Native Beaches, St. Lucie Inlet. Atkins, \$8,000
- 2011 Coastal Working Group: Martin County, Florida, \$27,000
- 2010 Upham T-Groin Performance Evaluation: Surfrider Foundation, \$5,000
- 2010 Building Public Consensus on Issues of Beach Fill Compatibility and Near Shore Habitat Quality. Martin County, Florida, \$24,000
- 2010 Real-Time Sediment Testing of Fill During Beach Nourishment. Martin County, Florida, \$3,500
- 2009 Port Dolphin Geotechnical. Taylor Engineering, \$25,000
- 2009 Geological Assessment of the USACE Offshore Sand Search for Martin County. Martin County, Florida, \$29,000
- 2009 Analysis of Geotechnical Criteria Relating to Coastal Restoration Project Performance. Martin County, Florida, \$10,000
- 2009 Building Public Consensus on Issues of Beach Fill compatibility and Nearshore

- Habitat Quality. Martin County, Florida, \$24,000
- 2008 Spoonbill Bay Development Geohazards Assessment. Spoonbill Bay Holdings, LP, Galveston, Texas, \$16,000
- 2008 Coastal Working Group Facilitator. Martin County Florida, \$45,000
- 2008 Reach 8 Geological Investigation. Surfrider Foundation, Inc., \$5,000
- 2008 Reach 7 Geological Investigation. Surfrider Foundation, Inc., \$9,000
- 2008 Geological Assessment of Pine Island Conservation Area. Brevard County, Florida, \$9,500
- 2007 Reserve at Bay Harbor Development Geohazards Assessment – Phase I and II. Rush Development, LP, Katy, Texas, \$20,000.
- 2006 Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. Gulf County, Florida, \$45,000
- 2004 Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. Volusia County, Florida, \$1,500,000
- 2002 Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment. Sarasota and Charlotte Counties, Florida, \$75,000
- 2000 Offshore Sand Search, Native Beach Characterization, and Compatibility Assessment, Phase I and II. Santa Rosa County, Florida, \$275,000
- 1998 Environmental Impact Assessment. Sebastian Inlet Tax District, Brevard County, Florida, \$200,000
- 1997 Evaluation of Physical and Biological Effects of Beach Nourishment on Sea Turtle Nesting and Hatching Success. Sebastian Inlet Tax District, Brevard County, Florida, \$68,000
- 1996 Geotechnical Evaluation of Sebastian Inlet Sand Trap. Sebastian Inlet Tax District, Brevard County, Florida, \$15,000
- 1996 Biological Monitoring of Sebastian Inlet. Sebastian Inlet Tax District, Brevard County, Florida, \$140,000
- 1996 Evaluation of Physical and Biological Effects of Beach Nourishment on Sea Turtle Nesting and Hatching Success. Sebastian Inlet Tax District, Brevard County,

- Florida, \$64,000
- 1995 Evaluation of Physical and Biological Effects of Beach Nourishment on Sea Turtle Nesting and Hatching Success. Sebastian Inlet Tax District, Brevard County, Florida, \$60,000
- 1994 Environmental Monitoring of Sebastian Inlet. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$224,000
- 1994 Physical and Biological Assessment of Sebastian Inlet Rock Reefs. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$30,000
- 1993 Geotechnical Assessment of Proposed Ft. Pierce Turning Basin. Harbor Branch Oceanographic Institution, Ft. Pierce, Florida, \$11,000
- 1993 Physical Attributes of a Renourished and Natural Beach, Sebastian Inlet, Florida, Sebastian Inlet Tax District, Brevard County, Florida, \$14,500
- 1992 Environmental Monitoring Program, Sebastian Inlet. Sebastian Inlet Tax District Brevard County, Florida, (with Walter Nelson, FIT): \$130,000
- 1992 Natural Resource Assessment of Proposed Navigation Channel Extension, Sebastian Inlet. Sebastian Inlet Tax District Brevard County, Florida, (with Walter Nelson, FIT): \$14,500
- 1992 Physical Attributes of a Renourished and Natural Beach, Sebastian Inlet, Florida. Sebastian Inlet Tax District, Brevard County, Florida, \$13,000
- 1991 Habitat and Water Quality Monitoring of the Sebastian Inlet Area. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$54,000
- 1991 Shoreface Sediment Distribution Patterns: A Measure of Inlet Influence? National Oceanographic and Atmospheric Administration, \$41,100
- 1991 Grain Size Analysis of Nourished and Control Beach Sites: Sebastian Inlet, Florida. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$5,800
- 1990 Core Borings of the Sebastian Inlet Ebb Shoal. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$15,000
- 1989 A Five Year Biological Monitoring Program of the Sebastian Inlet Area. Sebastian Inlet Tax District Commission Brevard County, Florida, (with Walter Nelson, FIT), \$170,000

- 1989 Core Borings and Sediment Analysis of the Fort Pierce Harbor Area. Beindorf and Associates (with Lee Harris, FIT), \$6,000
- 1988 Turbidity Monitoring of Sebastian Inlet Channel Dredging. Sebastian Inlet Tax District Commission, Brevard County, Florida, \$15,000

INVITED LECTURES (select examples)

If the Protect and Defend Strategy Won't Save Florida From Rising Seas, What Will? Florida Institute of Technology (February 10, 2016).

Florida Sea Level: Past, Present, and Future. Florida Public Archaeology Network (December 9, 2015).

Managing Sea Level Rise in the State of Florida. University of North Florida (November 19, 2015).

Managing the Anthropocene Marine Transgression to the Year 2100 and Beyond in the State of Florida. University of Miami (November 12, 2015).

City of Satellite Beach Vulnerability to Rising Seas: Assessment and Management Implications. Florida International University (November 6, 2015).

Global Warming, Climate Change, and Sea Level Rise. Lectures given throughout 2009 to present. Venues include East Central Florida Regional Planning Council, LEEDs, Florida Native Plant Society, American Planning Association, and Florida Historical Society.

Adapting to Rising Sea Level and Extreme Weather Events. East-Central Florida Regional Planning Council (June 17, 2009) and Florida Atlantic University (March 31, 2009).

Adapting to Rising Sea Level – a Florida Perspective: Sixth International Sustainability Forum – Sustainability 2009: The Next Horizon. March 3 – 4, Florida Institute of Technology, Melbourne, Florida.

A 100,000 Year History of Florida's East Coast Beaches and Barrier Islands: Archbold Biological Station, Lake Placid, Florida. 1998.

Mangrove Pruning and Permitting: Florida Chapter, International Society of Arboriculture, Gold Coast Tree Seminar, Davie, Florida. 1996.

Regional Coastal Geology of Costa Rica: University of Costa Rica, San Pedro, Costa Rica, 1996.

Effects of Pruning Mangroves: National Estuary Program, Stuart, Florida. 1995.

Sea Level Rise and the Fate of Mangrove Forests in the Wider Caribbean Region: Department of Geology, University of Iowa, Iowa City, Iowa. October, 1994

Management of Coastal Biodiversity from a Geological Perspective: Biodiversity Workshops, Indian River Lagoon National Estuary Program, Environmental Protection Agency. Harbor Branch Oceanographic Institute, Ft. Pierce, Florida. 1994

Beaches and Barrier Islands: A 100,000 Year History of Florida's East Coast: Bionetics, Environmental Studies Center, FOS Seminar Series, Sierra Club. 1990 - 1995.

Building a Conceptual Model of Mangrove Ecosystem Response to Global Climate Change: Sea Level Rise and the Geologic Record: Keynote address, EPA Workshop, Sarasota, FL. 1992

An Overview of Micro Tidal Inlet Sediment Dynamics: Eight Annual Coastal Management Seminar, IFAS, Fort Pierce, Florida, 1990.

Holocene Evolution of the Southwest Florida Coast: Department of Geology, University of South Florida, Tampa/St. Petersburg, Florida, 1988.

PROFESSIONAL SERVICES

- | | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2015 to 2016 | Chair, Climate Science, Risk & Adaptation Planning, Curriculum Working Group, Association of Climate Change Officers |
| 2014 to present | Member, Pennsylvania Lake Erie Watershed Association |
| 2013 to present | Member, Presque Isle Bay Public Advisory Committee |
| 2008 to present | Courtesy Assistant Research Professor, Department of Biology, University of Central Florida |
| 2006 to present | Administrator, Space Coast Climate Change Initiative |
| 1991 to 2014 | Member and Chair, Brevard County Environmentally Endangered Lands Committee |
| 1993 to 2006 | Member, Conference Planning Committee and Co-Sponsor, Florida Shore and Beach Preservation Association |
| 2000 to 2005 | Member, Coastal Engineering Technical Advisory Committee, Florida Department of Environmental Protection |
| 1993 to 2005 | Member, Advisory Board of the Florida Shore and Beach Preservation Association |

1992 to 2005	Associate Editor, Journal of Coastal Research
1995 to 2000	Research Committee Member, Florida Archie Carr National Wildlife Refuge
1993 to 1996	Member, Technical Advisory Committee, National Marine Debris Monitoring Program, U.S. Environmental Protection Agency
1994 to 1995	Science Subcommittee Co-chair, Mangrove Technical Advisory Committee, Florida Department of Environmental Protection
1991 to 1993	Member, Brevard County Committee on Beach Improvement, Tourist Development Council

PROFESSIONAL MEMBERSHIPS

American Geological Institute
American Geophysical Union
Geological Society of America
Society of Sedimentary Geology

ACADEMIC INFORMATION

Courses Taught

Shelf Sedimentation (graduate)
Coastal Sedimentary Environments (graduate)
Coastal and Estuarine Processes (graduate)
Depositional Environments (graduate)
Geology of Florida (graduate)
Geology of Tropical Marine Environments (graduate)
Geological Oceanography (undergraduate and graduate)
Descriptive Physical Oceanography (undergraduate)
Introduction to Oceanography (undergraduate)
Physical Geology (undergraduate)
Environmental Geology (undergraduate)

Thesis and Dissertations Directed

Lucas, Lori L., 2000, Results and assessment of a physical monitoring program associated with beach nourishment on high-density marine turtle nesting beaches in the center of the Archie Carr National Wildlife Refuge, Sebastian, Florida, USA.

Mayhew, T.A., 2000, Late Holocene geologic evolution of a barrier island complex, east-central Florida.

Magron, Jean-Philippe, 2000, Impact of upland sand beach nourishment on the physical

environment and marine turtles nesting at Sebastian Inlet, Florida.

Dunlevy, C., 1999, An examination of factors influencing land loss on Pelican Island National Wildlife Refuge.

Wiegman, G., 1999, Effects of human activities on tidal wetland sediment accretion within a salt marsh to mangrove forest transition zone, east-central Florida, USA.

Cavicchia, C., 1996, Natural Variation of Select Water Quality Conditions under a Wide Range of Natural Conditions, Sebastian Inlet, Florida.

Perez-Bedmar, M., 1996, Effects of Selective Trimming on Litter-Fall Productivity of a Fringing Red Mangrove Forest.

Cornelisen, C., 1996, Effects of Beach Renourishment on Physical Attributes of a Sea Turtle Nesting Beach, East-Central Florida, USA.

Eckert, J.A., 1995, Coastal Habitat Enhancement and Shoreline Stabilization of South Grange Islands (BC48), Indian River Lagoon, Florida.

Fluke, L.A., 1994, Depositional Model of a Recent Carbonate/Siliciclastic Sediment Transition, East Florida Continental Shelf.

Boomsma, J.J.I., 1993, Establishing Scientific Guidelines for the Sampling and Source Identification of Beach Debris: a Pilot Study.

Traught, B.N., 1993, Comparison of Live Above-Ground Biomass of Two Salt Marsh Systems: Lost Creek (Altered) and Ten Mile Creek (Natural), New Smyrna Beach, Florida, USA.

White, J.R., 1993, Explosive Breaching of Mosquito Control Impoundment C-8, Volusia County, Florida.

Venanzi, P.F., 1992, Surficial Shoreface Sediment Distribution Patterns: A Measure of Inlet Influence?

White, J.R., 1992, The Holocene Evolution of Two Backbarrier Mangrove Swamps, St. Lucie County, Florida.

Civil, M.T., 1990, Holocene Evolution of the Inner Continental Shelf, Ft. Pierce, Florida.

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Brevard County

Environmentally Endangered Lands (EEL) Program

Selection and Management Committee Volunteer Application

Due Date: September 9, 2016

Name: Oli Johnson

Mailing Address: 2514 Ruffner Rd.

City: Melbourne State: Florida

Zip: 32901

Phone: 321-725-3504 Cell Phone: 321-831-0413

Email: olinancy@mindspring.com

The EEL Selection and Management Committee serves as an expert scientific advisory committee to the County Commission on all issues involving the acquisition and management of environmentally endangered lands within the EEL Program protected area network in Brevard County.

Please complete the following information AND include your resume as an attachment when submitting this application for consideration.

1. Please confirm your willingness to serve on the Committee for a minimum term of two (2) years.

Yes Choose an item.

2. Please provide a brief overview AND resume of your background and expertise related to the following committee member requirements:

- **Graduate academic degree in biological or environmental sciences OR demonstrated professional expertise (minimum of 6 years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design.**

MS Biological Oceanography

BS Biology

3. Please provide a brief overview of your background and knowledge of Brevard County ecosystems, habitat types and conservation land management techniques.

Park Ranger at Turkey Creek Sanctuary in Palm Bay (1993- 2016)

Science teacher at Melbourne High (1981- 1990)

Science teacher at Martin County High (1976- 1979)

Well versed in all various habitats in Brevard and their conservation and Ecology. While in the employ of Palm Bay I have used fire and mechanical methods to improve habitat and thus biodiversity of fauna and flora.

I am very familiar with EELs programs and ultimate goals.

For Staff Use Only:

Date application received: _____

By: _____ **Via:** **Email** **Fax** **In-Person** **Mail**

RESUME

Robert "Oli" Johnson
2514 Ruffner Rd.
Melbourne, FL 32901
Home: 321-725-3504
Cell: 321-831-0413

Education

BS in Biology
SUNY at Geneseo
1968

MS in Bio-Environmental Oceanography
Florida Institute of Technology
1981

Experience

High School Science Teacher
Martin County High School
Stuart, FL
1976-1979

High School Science Teacher
Melbourne High School
Melbourne, FL
1981-1990

Park Ranger/Naturalist
Turkey Creek Sanctuary
Palm Bay, FL
1993-2016

Profession organizations

Turkey Creek Sanctuary Committee
Marine Resource Council
Sea Turtle Preservation Society
Florida Audubon Society

Brevard County
Environmentally Endangered Lands (EEL) Program
Selection and Management Committee Volunteer Application

Due Date: September 9, 2016

Name:

Mailing Address:

City: State:

Zip:

Phone Office: Cell Phone:

Email:

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My Ph.D. is in Ecology from UNC Chapel Hill, and plant community ecology is my specialty. My dissertation, Species diversity of vegetation in the Carolinas: The influence and interaction of scale of observation, soil nutrients, and disturbance events, includes a chapter on plant survey methodologies, structural equation modeling of productivity and diversity, as well as data from fieldwork examining regrowth in hurricane gaps. During my graduate work, I participated in fieldwork across North Carolina with the Carolina Vegetation Survey, and took lab fieldtrips across the Southeastern US, including Florida and South Carolina. Prior to graduate school, I worked for a year as a lab technician, doing fieldwork in the Big Thicket National Preserve in Texas and creating and managing a database of plants for Dr. Harcombe at Rice University.

3. Please provide a brief overview of your background and knowledge of Brevard County ecosystems, habitat types and conservation land management techniques.

Since moving to Brevard County three years ago, I have explored roughly half of the EEL sites as well as several other preserves in the area. I have hiked the trails at Fox Lake Sanctuary, Dicerandra Scrub Sanctuary, Enchanted Forest Sanctuary, Sams House at Pine Island, Coconut Sanctuary Point, Maritime Hammock Sactuary, Barrier Island Sanctuary, Cruickshank Sanctuary, and Pine Island Conservation Area. I have attended two guided hikes at Dicerandra Scrub Sanctuary as well.

While I do not have direct experience managing land, I have studied prescribed fire and visited several sites both before and after prescribed fire.

When I moved to Brevard County, the EEL program was one of the things that I was most impressed with. I appreciate the vision to protect, preserve, and steward natural areas, and would look forward to contributing to those efforts on the management selection committee.

For Staff Use Only:

Date application received: _____

By: _____ **Via:** **Email** **Fax** **In-Person** **Mail**

Brooke Wheeler

College of Aeronautics
Florida Institute of Technology
150 West University Blvd.
Melbourne, FL 32901-6975
bwheeler@fit.edu

440 Cinnamon Dr.
Satellite Beach, FL 32937
Home: 919-824-9356
brooke.wheeler@gmail.com

Current Position

Assistant Professor, College of Aeronautics, Florida Institute of Technology

Education

- May 2011 **Ph.D. in Ecology**
University of North Carolina at Chapel Hill
Dissertation: Species diversity of vegetation in the Carolinas: The influence and interaction of scale of observation, soil nutrients, and disturbance events.
- May 2001 **B.A. in Biology and Psychology**
Rice University, Houston, TX

Previous Position

Lecturing Fellow, Thompson Writing Program, Duke University- 2011-2015

Research Interests

Plant ecology, community ecology, conservation biology, disturbance, invasive species, sustainability, environmental science, environmental communication, teaching writing and writing to learn in STEM courses, and flipped classrooms.

Presentations and Publications

Papers and manuscripts:

Wheeler, B.E. *In preparation.* Gap dynamics: a resource gradient perspective.

Wheeler, B.E., & J. Gramling. *In preparation.* Structural equation models of plant community diversity and productivity in the southeastern US.

Wheeler, B.E., L.A. Jacobs, T.R. Wentworth, P.S. White, & R.K. Peet. *In preparation.* A guide to multi-scale vegetation survey methodology: matching methods with objectives.

Wheeler, B.E., & R.K. Peet. A multiscale analysis of plant diversity along soil nutrient gradients. *In* Vegetation structure and function at multiple spatial, temporal and conceptual scales. E.O. Box, editor. 2016. Springer.

Wheeler, B.E., G. Cumming, & K. Taverna. 2003. The Need for a Statewide Plan for Land and Water Conservation. CEP Environmental Policy Papers. CEP, UNC Chapel Hill, Issue 1.

Presentations:

Palmer, A.G., & B.E. Wheeler. 2016, Jan. 18. RADISH: Research to Advance the Development of Integrated Space Horticulture. Buzz Aldrin Space Institute, Inaugural Workshop.

- Wheeler, B.E.** 2013. Mind full? Making Room for Mindful Learning in the Writing Center. Presented at the Southeastern Writing Center Association Conference.
- Wheeler, B.E.** 2012. Demystifying scientific writing for tutors: Research proposals to lab reports. Presented at the Southeastern Writing Center Association Conference.
- Wheeler, B.E.** 2006. Hurricane impacts along soil nutrient gradients in the Southeastern U.S.: a comparison of plant communities. Presented at the Center for Study of the American South annual conference at UNC.
- O'Connor, M., & B. Wheeler.** 2006. Being a good graduate student. Presented in Biology 250: Essential Skills for Graduate Students.
- Wheeler, B., M. McKnight, G. Cumming, M. McKown, & D. Luther.** 2003. Rare Species Conservation in Complex Landscapes. Presented to the Curriculum in Ecology, UNC Chapel Hill as part of the Ecology Seminar Series Fall 2003.

Posters:

- Thomas R. Wentworth, Peter S. White, Brooke E. Wheeler, Kristin Taverna, Dane Kuppinger, Lee Anne Jacobs, Jason D. Fridley, & Robert K. Peet.** 2003. Nested versus non-nested characterization of vegetation composition and species richness at multiple spatial scales. Presented at the Ecological Society of America meeting, Summer 2003.
- Harcombe, P.A., B. Wheeler & W. Pruess.** Department of Ecology and Evolutionary Biology, Rice. 2003. Floristic survey of Big Thicket: a progress report.
- Wheeler, B.E., M.R. Hebl, L.M. Mannix, I. Valdez, J.R. Shapiro, & S.C. Lozano.** 2001. Higher Prices: the Ticket to Gender Equality in Sports? Presented at the Southwestern Psychological Association Conference, Spring 2001, in Houston, TX.

Research Experience and Training

- 2007 Research assistant for NASA grant, UNC: Productivity-Diversity modeling
- 2007, 2008 Carolina Vegetation Survey "SuperHoncho" - summers
 -Led teams of field biologists and volunteers in vegetation sampling effort
- Spring 2005 Tropical Biology an Ecological Approach, Organization for Tropical Studies
- 2001-2002 Research assistant and database manager, Dr. Harcombe, Rice University

Teaching Experience

- Fall 2016 Introduction to Aviation Environmental Science, Florida Institute of Technology
- Fall 2016 Aviation Research, Florida Institute of Technology
- Fall 2016 Airport Design, Florida Institute of Technology (UTP)
- Spring 2016 Aviation Research, Florida Institute of Technology
- Spring 2016 Quantitative Research Designs in Aviation Research
- Fall 2015 Aviation Research, Florida Institute of Technology
- Fall 2015 Human Factors Research Methods, Florida Institute of Technology (Designed course)
- Spring 2013 Environmental Justice, writing intensive seminar, Duke University
- 2012 Environmental Communication, writing intensive seminar, Duke University
- 2011 Environmental Justice, writing intensive seminar, Duke University
- 2009-2010 Tutor, Writing Center, University of North Carolina at Chapel Hill
 -Worked individually with students throughout their writing process including brainstorming, thesis development, organization, and revisions
 -Facilitated ESL writing groups for graduate students and postdoctoral scholars

- Winter 2009 Current Issues in Environmental Science, Elon University
-Designed course, taught lectures, led field trips, and facilitated discussions and group projects
- Fall 2008 Foundational literature in Ecology: Classical papers and their contemporary Counterparts. Instructor for graduate student seminar, UNC
-Designed course and facilitated discussions
- Spring 2008 Conservation Biology. Teaching assistant and Graduate Research Consultant, UNC
-Worked with undergraduates to develop inquiry-based group projects
-Guest lecture: Fragmentation and edges
- 2006, 2007 Basic Botany, Co-Instructor, North Carolina Botanical Garden
-Designed half of course, taught lectures, and supervised lab activities
- Fall 2006 Local Flora, Teaching assistant, UNC
-Helped plan lab activities and projects; taught labs
- Spring 2006 Anatomy and Physiology Lab, Teaching assistant, UNC
-Conducted physiology labs and anatomy recitations
- Fall 2005 Fundamentals of Ecology, Teaching assistant, UNC
-Wrote course synopsis, and pitched course to the Biology Department
-Co-designed lab, taught labs, and led fieldtrips
- 2003-2004 Ecology and Population Biology, Teaching assistant, UNC
-Led recitations and field trips
- Spring 2003 Rare species conservation in complex landscapes, UNC
-Created and designed a graduate seminar with fellow graduate students
-Self-taught course to facilitate interdisciplinary dialogue
- 2000-2001 Biology and psychology tutor, Sid Richardson College Fellow at Rice University
-Helped undergraduates one-on-one in challenging courses

Program Administration

- 2012-2013 Associate Director of the Writing Studio, Duke University
-Coordinate the Undergraduate Writing Tutor program, oversee the graduate student tutors, design tutor training and professional development for graduates and undergraduates, and mentor tutors
- 2011-2013 Course Goals and Practices committee
-Research peer institutions, revision of programmatic course goals
- 2011- 2012 Assistant Director of the Writing Studio, Duke University
-Coordinate the Undergraduate Writing Tutor program and tutor training

Other Professional Experience

- 2015 Non-degree professional development coursework at FIT:
AVT1111- 141 PPL Ground School at FIT Aviation 2015
AVT5000 Airspace Safety
AVM5000 Planning and Design Fundamentals
- 2011-2013 Forum for Teaching Science-Based First Year Writing, Duke University
- 2009 UNC Writing Center training in the writing process and tutoring writing
- Summer 2009 Nature Writing Course

Departmental Service

International Journal of Aviation Science, Copy Editor, Florida Institute of Technology: 2015-2016
Steering Committee, Thompson Writing Program, Duke: 2012-2013
Course Description Committee, Thompson Writing Program, Duke: 2011-2013
Ecology Representative to the Biology Graduate Student Association, UNC: Fall 2003-Fall 2004
Ecology Curriculum Seminar Series committee, UNC: Fall 2003-Spring 2004
Faculty Search committee member (joint Biology/Ecology search), UNC: Fall 2003- Spring 2004

Fellowships and Funding

W.C. Coker Fellowship in Botany: Spring 2009
A.H. Beers Fellowship, UNC Biology Department: Summers 2005, 2006, 2008
Southern Research Circle grant: Summer 2005
Graduate Student Opportunity Fund research grant: Fall 2004
UNC Graduate School First year fellowship: Fall 2002-Spring 2003
President's Honor Roll at Rice: Spring 2000, Fall 1999, Fall 1998
Sid Richardson College Fellow at Rice: Spring 2000- Spring 2001

Affiliations

Ecological Society of America

Other relevant skills

Programs: Microsoft Office, Prezi, S Plus and R, Biota, Adobe Photo Shop, Lisrel, MPlus, some AMOS, some GIS, Qualtrics
Languages: Spanish- through college 300 level, Latin- 4 years

EEL Program Qualifying Committee Initial Ranking of SMC Applicant / Nominee Qualifications

Applicant Name: Tammy E. Foster, Ph.D.	Points Awarded
<p>Minimum Qualifications:</p> <ul style="list-style-type: none"> • Have a willingness to serve in a voluntary capacity. <input type="checkbox"/> Yes <input type="checkbox"/> No • Be willing to make a long-term commitment to the EEL Selection and Management Committee. <input type="checkbox"/> Yes <input type="checkbox"/> No • Have a graduate academic degree in biological or environmental sciences or demonstrated professional expertise (minimum six (6) years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design. <input type="checkbox"/> Yes <input type="checkbox"/> No • Have demonstrated knowledge of Brevard County ecosystems and specific knowledge of the habitat types and conservation land management techniques. <input type="checkbox"/> Yes <input type="checkbox"/> No 	
<p>❖ <i>Does Applicant Meet Minimum Qualifications?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No Yes = 100 points No = 0 points <i>Brief description of education, professional experience, and demonstrated knowledge of Brevard ecosystems:</i></p>	
<p>Additional Points:</p> <ul style="list-style-type: none"> • Five (5) additional points are assigned for each graduate degree (Masters or Doctorate) in ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural areas sanctuary design. 	100
<p>❖ <i>Does applicant earn additional points for education?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Brief description:</i></p>	
<ul style="list-style-type: none"> • And/or two (2) additional points for each year up to six (6) years for demonstrated professional expertise in biological or environmental sciences, OR a closely related conservation field as described above? 	10
<p>❖ <i>Does applicant earn additional points for professional expertise?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Brief description:</i></p>	
<p>Total Points</p>	122

EEL Program Qualifying Committee Initial Ranking of SMC Applicant / Nominee Qualifications

	Points Awarded
<p>Applicant Name: Randall W. Parkinson, Ph.D., P.G.</p> <p>Minimum Qualifications:</p> <ul style="list-style-type: none"> • Have a willingness to serve in a voluntary capacity. __ Yes __ No • Be willing to make a long-term commitment to the EEL Selection and Management Committee. __ Yes __ No • Have a graduate academic degree in biological or environmental sciences or demonstrated professional expertise (minimum six (6) years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design. __ Yes __ No • Have demonstrated knowledge of Brevard County ecosystems and specific knowledge of the habitat types and conservation land management techniques. __ Yes __ No <p>❖ <i>Does Applicant Meet Minimum Qualifications?</i> __ Yes __ No <i>Yes = 100 points No = 0 points</i> <i>Brief description of education, professional experience, and demonstrated knowledge of Brevard ecosystems:</i></p>	
Points:	/ 00
<p>Additional Points:</p> <ul style="list-style-type: none"> • Five (5) additional points are assigned for each graduate degree (Masters or Doctorate) in ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural areas sanctuary design. ❖ <i>Does applicant earn additional points for education?</i> __ Yes __ No <i>Brief description:</i> 	
Points:	10
<ul style="list-style-type: none"> • And/or two (2) additional points for each year up to six (6) years for demonstrated professional expertise in biological or environmental sciences, OR a closely related conservation field as described above? ❖ <i>Does applicant earn additional points for professional expertise?</i> __ Yes __ No <i>Brief description:</i> 	
Points:	12
Total Points	
	122

EEL Program Qualifying Committee Initial Ranking of SMC Applicant / Nominee Qualifications

	Points Awarded
<p>Applicant Name: Oil Johnson</p> <p>Minimum Qualifications:</p> <ul style="list-style-type: none"> • Have a willingness to serve in a voluntary capacity. <input type="checkbox"/> Yes <input type="checkbox"/> No • Be willing to make a long-term commitment to the EEL Selection and Management Committee. <input type="checkbox"/> Yes <input type="checkbox"/> No • Have a graduate academic degree in biological or environmental sciences or demonstrated professional expertise (minimum six (6) years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design. <input type="checkbox"/> Yes <input type="checkbox"/> No • Have demonstrated knowledge of Brevard County ecosystems and specific knowledge of the habitat types and conservation land management techniques. <input type="checkbox"/> Yes <input type="checkbox"/> No <p>❖ Does Applicant Meet Minimum Qualifications? <input type="checkbox"/> Yes <input type="checkbox"/> No Yes = 100 points No = 0 points</p> <p style="text-align: center;"><i>Brief description of education, professional experience, and demonstrated knowledge of Brevard ecosystems:</i></p>	100
<p>Additional Points:</p> <ul style="list-style-type: none"> • Five (5) additional points are assigned for each graduate degree (Masters or Doctorate) in ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural areas sanctuary design. <p>❖ Does applicant earn additional points for education? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: center;"><i>Brief description:</i></p>	5
<ul style="list-style-type: none"> • And/or two (2) additional points for each year up to six (6) years for demonstrated professional expertise in biological or environmental sciences, OR a closely related conservation field as described above? <p>❖ Does applicant earn additional points for professional expertise? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: center;"><i>Brief description:</i></p>	12
Total Points	117

EEL Program Procedures Committee (PC) Verification of SMC Applicant / Nominee Qualifications
 On 9/30/16, the PC determined that one of the other applicants was qualified and voted to submit the list of four applicants for final ranking by the County Commission.

Applicant Name: Brooke Wheeler	Points Awarded
<p>Minimum Qualifications:</p> <ul style="list-style-type: none"> • Have a willingness to serve in a voluntary capacity. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No • Be willing to make a long-term commitment to the EEL Selection and Management Committee. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No • Have a graduate academic degree in biological or environmental sciences or demonstrated professional expertise (minimum six (6) years) in a closely related conservation field such as ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural area sanctuary design. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No • Have demonstrated knowledge of Brevard County ecosystems and specific knowledge of the habitat types and conservation land management techniques. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 	
<p>❖ <i>Does Applicant Meet Minimum Qualifications?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes = 100 points No = 0 points <i>Brief description of education, professional experience, and demonstrated knowledge of Brevard ecosystems:</i></p>	
<p>Additional Points:</p> <ul style="list-style-type: none"> • Five (5) additional points are assigned for each graduate degree (Masters or Doctorate) in ecosystem management, natural resources conservation, aquatic biology, field ecology, marine biology, botany, geology, hydrology, fire ecology, natural areas management, human use and recreation in natural areas, science education, or natural areas sanctuary design. 	Points: 100
<p>❖ <i>Does applicant earn additional points for education?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>Brief description:</i></p>	
<ul style="list-style-type: none"> • And/or two (2) additional points for each year up to six (6) years for demonstrated professional expertise in biological or environmental sciences, OR a closely related conservation field as described above? 	Points: 0
<p>❖ <i>Does applicant earn additional points for professional expertise?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Brief description:</i></p>	
<p>Total Points</p>	<p>Points: 6 106</p>

