Foreign Surveys on Skunkvine and Climbing Fern

During September and October, I made preliminary surveys for the invasive weeds skunkvine (*Paederia foetida*) and the climbing ferns (*Lygodium microphyllum* and *L. japonicum*) and their natural enemies in parts of their native ranges - in eastern Asia (Japan, Taiwan and Hong Kong). Skunkvine was found to be common at the examined localities in central Honshu in Japan and in northern Taiwan but it did not dominate the vegetation with which it grew. There were many insects associated with this plant including sphinx moths, leaf miners, a stem gall maker, an aphid, and fruit feeding moths. Some of these and additional species such as flower gall makers were recorded in the Japanese language scientific literature. It appears that some of these insects may be specialists on skunkvine. *Lygodium japonicum* was frequently found in Japan in small patches but was encountered less commonly in Hong Kong and Taiwan. The larvae of a small pyralid moth were found to commonly fed on the fronds of the plant in Japan, at times becoming abundant enough, despite being parasitized, to defoliate portions of the plant. *Lygodium microphyllum* does not occur in temperate Japan and has become rare in northern Taiwan, probably due to loss of habitat. One small population was found in a remote highland marsh in Taiwan but no insects were associated with it. This fern was found more commonly in Hong Kong in small isolated patches, sometimes consisting of single stems a foot or two long. Plants in a couple of these Hong Kong populations were attacked by larvae of a small pyralid moth which ate the leaves. This moth is probably either the same species or a closely related species as the pyralid moth found on *L. japonicum* in Japan. The damage it caused was modest but the larvae were heavily parasitized.

These moths may be *Lygodium* specialists. No *Lygodium* feeding insects have been recorded in the Japanese scientific literature but the insect faunas of Asian ferns are unstudied. Samples of skunkvine and the climbing ferns from many populations were taken for DNA RAPDS analysis to determine their relative relatedness to the Florida populations of these weeds. These surveys suggest that biological control appears to have potential for both the climbing ferns and skunkvine control.

Robert Pemberton, Aquatic Plant Control Lab
Agricultural Research Service,
U.S. Department of Agriculture
3205 College Ave.
Ft. Lauderdale, FL 33312

Control of Non-Native Plants in Natural Areas of Florida
By K.A. Langeland and R.K. Stocker

The University of Florida Institute of Food and Agricultural Sciences, Metropolitan Dade County Natural Areas Management and the Florida Exotic Pest Plant Council cooperated in preparation of this publication. The problem of invasive non-native plants in natural areas and methods to control them - from prevention to herbicides - is discussed. Aspects of herbicide technology related to use in natural areas are discussed in detail and compilation of methods used by various agencies to control over ninety plant species is presented. Cost is $2 plus appropriate tax and $3 handling charge for mail orders. Order from: Publications Distribution Center
Publication No. SP242
University of Florida
P.O. Box 110011
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1-800-226-1764
Chairman Greg Jubinsky called the meeting to order at 1:15 p.m. The following officers and directors were present: Greg Jubinsky, Dan Thayer, Brian Nelson, Amy Ferriter, Roger Hammer, David Jones, Ken Langeland, Doria Gordon, Roger Clark, and Jeff Mullahey. Also in attendance were Jackie Smith, Bob Doren, Tony Pernas, Mike Bodle, Ed Freeman and Shelyl Bowman.

I. MINUTES
A motion to approve the minutes of the August 22, 1997 Board of Director's Meeting was approved.

II. CORRESPONDENCE
Greg passed out copies of several newspaper articles dealing with invasive exotic plant issues which came out during the last few weeks. He indicated that additional counties are considering invasive exotic plant ordinances.

III. TREASURER'S REPORT - ALAN DRAY
Alan reported that the Council's current assets are $30,439.61. The National EPPC fund totals $203. Greg Jubinsky is going to appoint a committee to make recommendations on how the Council should utilize some of these funds (i.e. strategic plan). We also need to designate a non-profit organization which would receive the Council's funds should the Council be disbanded.

A motion was made and approved to accept the Treasurer's report (Nelson/Gordon).

IV. EDITOR'S REPORT - AMY FERRITER
The Council's secretary (Brian Nelson) is now doing the newsletter. Amy indicated that the first edition of the Wildland Weeds magazine will be out in December, 1997. Work is still necessary on the complimentary mail list for the magazine. Jackie Smith volunteered to work on the mail list.

The deadline for submitting articles to Amy for the Spring issue of the Wildland Weeds Magazine is January 26, 1998.

Alan indicated the membership categories listed in the newsletter are incorrect based on the revised by-laws. This will be corrected in the next newsletter.

A motion to accept the Editor's Report was made and approved (Dray/Devries).

V. COMMITTEE REPORTS
- Exotic Pest Plant List - Dan Austin
  Some mistakes were detected in the recently distributed, 1997 invasive species list. Copies of the corrected list are being distributed. The revised list is dated 9/24/97. Copies of the invasive plant list were recently distributed to local newspapers.

  Ken Langeland suggested adding a statement to the invasive plant list indicating the Council's purpose for compiling and distributing the list. Discussion followed and no consensus was reached.

- WEBSITE - TONY PERNAS
  Tony continues to update and upgrade the Council's webpage. After the distribution of the revised invasive plant list, hits on the website increased dramatically. The Brazilian Pepper Management Plan has been added and is being downloaded often. Tony is planning to put the Melaleuca Management Plan on the page as well. Several suggestions were made as far as potential links for the page. Tony requested that anyone having information that they would like posted on the website to contact him.

- PUBLICATIONS - KEN LANGELAND
  Ken Langeland handed out recently completed copies of the Control of Non-native Plants in Natural Areas of Florida manual. The manual is very informative and lists the control methods currently being used to control EPPC category I plants. The manual (SP242) is available from IFAS Publications for two dollars. Ken plans to revise the publication annually.

  Ken indicated that the I.D. manual for category I plants is also nearing completion. Work on the public information pamphlet continues as well.

  Amy Ferriter distributed a draft of a Lygodium microphyllum brochure that the South FL Water Management District is producing.

- RESEARCH COMMITTEE - GREG JUBINSKY
  Chris Lockhart proposed producing an informational brochure on carrotwood for the Council at a cost of $500. The Board felt that the committee which will be formed to prepare a strategic finance plan for the Council should consider this issue.
Symposium Site Arrangements - Mike Bodle
Arrangements are being finalized for this years meeting. Jackie Smith suggested that we consider the Cocoa Beach Holiday Inn for next years meeting.

Annual Symposium Agenda - Tony Pernas
The first call for presentations will occur soon and the meeting registration information will be sent out in March, 1998. Abstracts will be due by February 6, 1998.

The meeting will include a one-day joint session with the Native Plant Society who will have their annual meeting following ours. The keynote for the joint session will be Clyde Butcher. Tony is looking for a keynote speaker to begin the EPPC meeting. If you have any ideas or suggestions please call Tony Pernas at 941/695-4111, extension 23.

A home-owners workshop is scheduled the day of the joint meeting. Proposed subjects include control methods, plant identification and photography.

The proceedings of the annual meeting will be published. All papers must be submitted by the end of the meeting. If you know someone who would be interested in presenting a paper, please call Tony and let him know.

Merchandising - Jackie Jordan
Jackie discussed ideas for merchandise to sell at the annual meeting. She will present a list of items and estimated costs for the Board to consider. A motion was made and approved (Gordon/Devries) that nascent foci t-shirts be one of the items available at the annual meeting.

Plant Working Groups -
• Brazilian Pepper - Dan Clark
  Dan requested that more copies of the Brazilian pepper management plan be printed so that it can be passed out at the annual symposium. He also indicated that the plan is on the EPPC webpage and can be downloaded.
• Carrotwood - Ed Freeman
  Ed and the committee members continue to labor away at the Carrotwood Management Plan.
• Chinese Tallow - Greg Jubinsky
  The management plan is nearly complete.
• Skunkvine - Sheryl Bowman
  The committee had its first meeting and are discussing having a skunkvine symposium next fall. Committee members will be contacting people to give presentations at the symposium. The committee would like to develop an informational brochure on skunkvine.

Legislative Report - Greg Jubinsky
DEP is in the process of setting up exotic species control projects to utilize the $1 million which was allocated by the Legislature last year. These pilot projects will be used to develop an upland invasive management program. DEP is asking for increased funding next year.

Membership - Doug DeVries
A letter has been sent to each member asking for names of colleagues who may be interested in joining the council. Please respond! The committee will also work on revising the membership form.

Old Business
Greg discussed the status of the National EPPC Association and whether or not our contract with Faith Campbell should be renewed. The Board approved, unanimously, a motion (Dray/Langeland) to move forward with the formation of the National EPPC. The Board also approved a motion (Langeland/Dray) not to renew Faith Campbell's contract to serve as the National EPPC Executive Secretary.

New Business
The Board compiled the following list of nominees for consideration by the membership at the annual meeting:

Chairman: Tony Pernas
Directors: Doria Gordon
          Dan Clark
          David Jones
          Ed Freeman
          Keith Bradley
          Steve Kent

In addition to chairman, four directors have to be elected at the annual meeting. The treasurer, secretary and editor are appointed by the chairman. Nominations will also be taken from the floor at the annual meeting.

Dan Thayer updated the Board on the status of the Federal Working Group on the Everglades Restoration. They want EPPC to be involved in making recommendations on how to handle exotic plant problems in the Everglades.

The next Board meeting and field trip was scheduled for February 18-19, 1998 in the Everglades National Park. A motion to adjourn the meeting was made and approved.

The Next Board Meeting and field trip is scheduled for February 17-18, 1998 in the Everglades National Park. If you would like to attend, please call DOUG DE VRIES (305) 242-7800 for directions and to make arrangements.

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## Membership Application

**NOW IS THE TIME TO PAY YOUR 1998 DUES**

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Name: 
Address: 
City: __________________________ State: ________ Zip Code: __________
Telephone #: (_____) _______ Membership Type: __________

Mail to: Allen Dray, EPPC Treasurer  
3205 College Avenue  
Fort Lauderdale, Florida 3314

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## CALL FOR PAPERS

**Thirteenth Annual Florida EPPC Symposium, June 2-4, 1998 at the**  
Palm Beach Gardens Marriot, Palm Beach Gardens, Florida.  
Conference will be held jointly with the Florida Exotic Pest Plant Council (EPPC)  
Florida Native Plant Society (FNPS)

Florida Exotic Pest Plant Council solicits the submission of papers, posters, and student posters related to exotic pest plants: biodiversity, habitat quality, ecosystem function, biology, ecology, perceptions, challenging and innovative ideas, concepts, or systems, reports on exotic plant control, and education. Submissions are welcomed from researchers, public agencies, private conservation groups, private firms, teachers and educators, and volunteers.

**THE ABSTRACT DEADLINE IS FEBRUARY 20, 1998.** Abstracts should begin with the name and organizational affiliation of each author, followed by a descriptive title and a text summary of up to 250 words. Submission of abstracts in electronic form is strongly encouraged. Abstracts may be sent by email to: tony_perias@nps.gov. Abstracts may also be submitted by fax or mail to Antonio J. Pernas, Program Chair, c/o Big Cypress National Preserve, HCR-61 Box 11, Ochopee, FL 34141, Telephone (941) 695-4111, ext. 23, Fax (941) 695-3493. Include your name, address, telephone and fax numbers, and email address with your abstract proposal. Please indicate whether the submission is a paper, poster, or student poster.

Proceedings of the symposium will be published. Instructions to authors for the preparation and submission of a full paper will be sent upon receipt and acceptance of abstract. The deadline for full paper submission will be the last day of the symposium.
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Florida EPPC

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