

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 18, 2012

Time: 1:00 – 5:00 P.M.

Location: Doyle Conner Building, Auditorium
1911 SW 34th Street, Gainesville Florida 32608

Council Members Present:

Mr. Richard L. Moyroud, Chair – Florida Native Plant Society

Dr. Jack Stout – Florida Committee for Rare and Endangered Plants and Animals

Mrs. Tina Tuttle – Florida Federation of Garden Clubs

Dr. Loran C. Anderson, Vice-Chair – Florida State University Botanist

Mr. Bryan K. Benson, Secretary – FDACS/Division of Plant Industry

Members Absent:

Dr. Suzanne Koptur – Florida International University Botanist

Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association

Mr. Charles D. Daniel, III – Florida Forestry Association

Others Present:

Dr. Patti Anderson – FDACS/Division of Plant Industry

Ms. Cheryl Peterson – Bok Tower Gardens

Ms. Stacy Smith – Archbold Biological Station

Ms. Sarah Haller Crate – Archbold Biological Station

Mr. Sam Wright – Fairchild Tropical Botanical Garden

Mr. Michael R. Jenkins – FDACS/Florida Forest Service

Ms. Mary Chandler – Key West Botanical Garden

Mr. Stephen Hodges – Key West Botanical Garden

Ms. Anne Schmidt – Florida Native Plant Society

Richard Moyroud opened the meeting by welcoming the council members and other interested parties. A quorum of council members was met. Introductions were made of all present.

Richard Moyroud requested council members to review the proposed agenda. ***Tina Tuttle made a motion to accept the agenda. The motion was seconded by Jack Stout. Motion passed.***

Richard Moyroud asked council members if there were any questions or suggested changes to the minutes from the 2011 EPAC meeting. ***Jack Stout made a motion to accept the minutes from the last meeting. The motion was seconded by Tina Tuttle. Motion passed.***

A total of four Endangered and Threatened Native Flora Conservation Grant Applications were received this year for consideration. All four were received timely, met the minimum eligibility requirements for consideration and were assigned an application number. A copy of each application was forwarded to council members for review prior to this meeting.

The opportunity for past grant recipients to report on their conservation activities was offered to those present.

Bok Tower Gardens

Cheryl Peterson presented details outlining conservation efforts, the past year's programs, as well as ongoing and future program updates. A copy of the 2011-2012 Final Report was provided to EPAC members. For the sake of time, Cheryl presented on five plant species associated with recovery efforts during the past year.

- *Campanula robinsiae* – *ex situ* preservation, surveys, introduction
- *Dicerandra immaculata* – demography, microhabitat study, mating system
- *D. immaculata* var. *savannarum* – introductions, *ex situ* preservation
- *Lupinus aridorum* – rescues, surveys, introductions, monitoring
- *Warea amplexifolia* – rescues, surveys, introductions, introduction monitoring

Cheryl included a description of curation activities, rescue efforts, Rare Plant Task Force meetings and ongoing educational activities. Questions from the council were addressed.

Archbold Biological Station

Sarah Haller Crate and Stacy Smith alternately presented details outlining conservation efforts and limited the presentation to six species with a detailed focus on two for the sake of time.

- *Polygala lewtonii*
- *Cladonia perforata*
- *Crotalaria avonensis*
- *Chrysopsis highlandsensis*
- *Euphorbia rosescens*
- *Liatris ohlingerae*

Sarah and Stacy included ongoing research and future research plans as well as outreach and educational programs including signage placed at Archbold Biological Station. A copy of Archbold Biological Station Final Report of 2011-2012 activities was sent to council members prior to the meeting.

Key West Botanical Garden Society

Stephen Hodges indicated that Key West Botanical Gardens would focus on resources that can be directly associated with EPAC goals. Limited copies of the 2011-2012 final EPAC report were provided to council members. Stephen presented information on the Keys Cactus Barren Habitat and covered research activities associated with the following plants:

- *Ageratum littoralis*
- *Caesalpinia pauciflora*
- *Cienfuegosia yucatanensis*
- *Cyperus floridanus*
- *Chromolaena frustrata*
- *Evolvulus convolvuloides*
- *Hibiscus poeppigii*
- *Indigofera mucronata* var. *keyensis*
- *Linum arenicola*
- *Trema lamarckiana*

Stephen also provided information on future conservation efforts by Key West Botanical Gardens.

Fairchild Tropical Botanical Garden

Sam Wright presented details outlining conservation efforts, the past year's programs, as well as ongoing activities and future plants for the following species:

- *Tectaria heracleifolia*
- *Thelypteris reptans*

- *Jacquemontia reclinata*
- *Pilosocereus robinii*
- *Scaveola taccada*
- *Amorpha herbacea* var. *crenulata*

Information and update was provided on the Connect to Protect Network Newsletter. An update was announced for the completion of the **Jason Vollmer Butterfly Laboratory and the Clinton Family Conservatory**. Sam also summarized research and conservation efforts planned for 2012-2013. A copy of the 2011-2012 final report was provided to EPAC members. Questions from the council were addressed by Sam.

After the presentations, council members were requested to submit grant application evaluation forms for all applications considered. Evaluation of all forms submitted. Calculations were totaled and explained. See Appendix A for scores and calculations.

A summary of the anticipated grant allocation is provided in the table below:

	<u>Grant Amount Requested</u>	<u>Total Funds Recommended for Fiscal Year 2013-2014</u>
Archbold Biological Station	\$100,000.00	\$78,021.20
Fairchild Tropical Botanical Garden	\$100,000.00	\$75,427.15
Bok Tower Gardens	\$100,000.00	\$74,429.43
<u>Key West Botanical Garden</u>	<u>\$25,000.00</u>	<u>\$12,122.22</u>
Totals	\$325,000.00	\$240,000.00

Tina Tuttle discussed the consideration of giving the top three candidates an equal percentage of funding.

Loran Anderson recommended to continue using the adjusted percentage based on score totals as we have done in the past.

Jack Stout has no objections to using the percentage based scoring and close scores among the top three are a result of all three doing a top notch job.

Loran Anderson made a motion to use the percentage based ranking as used in past years. Jack Stout seconded. Motion passed.

Discussion by council members was conducted on the availability of the previous year's final report prior to the meeting. The grant recipients are only required to present the final report to DPI within 30 days of the grant contract ending.

THE MEETING ADJOURNED FOR THE DAY

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 19, 2012
Time: 8:00 – 10:00 A.M.
Location: Doyle Conner Building, Auditorium
1911 SW 34th Street, Gainesville Florida 32608

Council Members Present:

Mr. Richard L. Moyroud, Chair – Florida Native Plant Society
Dr. Jack Stout – Florida Committee for Rare and Endangered Plants and Animals
Mrs. Tina Tuttle – Florida Federation of Garden Clubs
Dr. Loran C. Anderson, Vice-Chair – Florida State University Botanist
Mr. Bryan K. Benson, Secretary – FDACS/Division of Plant Industry

Members Absent:

Dr. Suzanne Koptur – Florida International University Botanist
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association
Mr. Charles D. Daniel, III – Florida Forestry Association

Others Present:

Dr. Patti Anderson – FDACS/Division of Plant Industry
Ms. Cathy Daniels – FDACS/Division of Plant Industry
Ms. Stacy Smith – Archbold Biological Station
Ms. Sarah Haller Crate – Archbold Biological Station
Mr. Sam Wright – Fairchild Tropical Botanical Garden
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Ms. Mary Chandler – Key West Botanical Garden
Mr. Stephen Hodges – Key West Botanical Garden
Ms. Anne Schmidt – Florida Native Plant Society
Mr. Steve Hildebrandt – FDACS/Division of Plant Industry

Richard Moyroud opened the meeting by welcoming back the council members and other interested parties.

The following plants were discussed and submitted by EPAC as Proposed for Listing

Xylosma buxifolia (Mucha-Gente)

A = 0.5
B = 0.5
C = 0.5
D = 1.0
E = 3.0
F = 0.0

5.5 – Endangered (new listing)

Symphoricarpos orbiculatus (Coralberry)

A = 0.5
B = 0.5
C = 0.5

- D = 2.0
 E = 3.0
 F = 0.0

6.5 - Endangered (new listing)

Pithecellobium bahamense (Bahama blackbeard)

- A = 0.5
 B = 0.5
 C = 0.5
 D = 1.0
 E = 3.0
 F = 0.0

5.5 - Endangered (new listing)

Four Year Interval Review of Regulated Plant Index

Each plant listed on the regulated plant list is required to be reviewed by the council every four years. This year the list included 344 plants that were last reviewed in 2008. All plants listed below were reviewed.

1510	Acacia angustissima	prairie acacia
6	Acacia choriophylla	Tamarindillo
7	Acacia tortuosa	Poponax
8	Acoelorrhaphe wrightii	Everglades palm
9	Acrostichum aureum	golden leather fern
11	Actaea pachypoda	doll's eyes
18	Adiantum tenerum	brittle maidenhair fern
20	Aeschynomene pratensis	meadow jointvetch
1529	Agave neglecta	wild century plant
21	Ageratum littorale	Cape Sable whiteweed
23	Aletris bracteata	bracted colicroot
24	Alvaradoa amorphoides	Alvaradoa
25	Amorpha crenulata	Miami lead plant
26	Andropogon arctatus	pinewoods bluestem
29	Anemia wrightii	parsley fern
30	Angadenia berteroi	pineland golden trumpet
31	Aquilegia canadensis	red columbine
32	Arabis canadensis	Sicklepod
35	Argythamnia blodgettii	Blodget's wild mercury
39	Aristolochia pentandra	Marsh's dutchman's pipe
40	Aristolochia tomentosa	Pipevine
41	Arnica acaulis	leopard's bane
42	Arnoglossum album	white-flowered plantain
47	Asimina tetramera	scrub pawpaw, 4-petal pawpaw
48	Asplenium auritum	auricled spleenwort
53	Asplenium dentatum	slender spleenwort
49	Asplenium monanthes	San Felasco spleenwort
51	Asplenium pumilum	dwarf spleenwort
52	Asplenium serratum	bird's nest spleenwort
54	Asplenium verucundum	delicate spleenwort
55	Aster hemisphericus	an aster
56	Aster spinulosus	pinewoods aster
57	Athyrium filix-femina	southern lady fern

61	<i>Balduina atropurpurea</i>	purple balduina
1511	<i>Baptisia calycosa</i>	Canby's wild indigo
62	<i>Baptisia hirsuta</i>	hairy wild indigo
63	<i>Baptisia megacarpa</i>	Apalachicola wild indigo
66	<i>Basiphyllaea corallicola</i>	Carter's orchid
69	<i>Bigelovia nuttallii</i>	Nuttall's rayless goldenrod
70	<i>Blechnum occidentale</i>	sinkhole fern
73	<i>Bletia purpurea</i>	pine-pink orchid
75	<i>Bourreria cassinifolia</i>	little strongbark
79	<i>Brickellia cordifolia</i>	heart-leaf brickel-bush
80	<i>Brickellia mosieri</i>	Brickell-bush
81	<i>Bulbophyllum pachyrrachis</i>	rat-tail orchid
83	<i>Burmannia flava</i>	Fakahatchee burmannia
87	<i>Cacalia diversifolia</i>	Indian plantain
90	<i>Calamintha ashei</i>	Ashe's calamintha
92	<i>Calamintha georgiana</i>	Georgia catamint
93	<i>Calamovilfa curtissii</i>	Curtis' sandgrass
94	<i>Callirhoe papaver</i>	poppy mallow
99	<i>Calycanthus floridus</i>	sweet shrub
101	<i>Calypttranthes zuzygium</i>	myrtle-of-the-river
102	<i>Calystegia catesbeiana</i>	Catesby's bindweed
103	<i>Campanula robinsiae</i>	Chinsegut bellflower
104	<i>Campylocentrum pachyrrhizum</i>	leafless orchid
105	<i>Campyloneurum angustifolium</i>	narrow strap fern
106	<i>Campyloneurum costatum</i>	tailed strap fern
110	<i>Canella winterana</i>	wild cinnamon
111	<i>Carex baltzellii</i>	Baltzell's sedge
115	<i>Cassia keyensis</i>	Keys' cassia
117	<i>Catesbaea parviflora</i>	small-flowered lily-thorn
118	<i>Catopsis berteroniana</i>	yellow catopsis
119	<i>Catopsis floribunda</i>	many-flowered airplant
120	<i>Catopsis nutans</i>	nodding catopsis
122	<i>Celtis iguanaea</i>	iguana hackberry
123	<i>Celtis pallida</i>	spiny hackberry
131	<i>Cereus robinii</i>	tree cactus
133	<i>Chamaesyce cumulicola</i>	sand dune spurge
134	<i>Chamaesyce deltoidea</i>	rockland spurge
135	<i>Chamaesyce garberi</i>	Garber's spurge
137	<i>Chamaesyce porteriana</i>	Porter's spurge
141	<i>Cheilanthes microphylla</i>	southern lip fern
142	<i>Chionanthus pygmaeus</i>	pygmy fringe tree
148	<i>Cienfuegosia yucatanensis</i>	yellow-hibiscus
158	<i>Colubrina cubensis</i>	Colubrine
163	<i>Conradina glabra</i>	Apalachicola rosemary
165	<i>Corallorhiza odontorhiza</i>	autumn coralroot
171	<i>Cornus alternifolia</i>	pagoda dogwood
172	<i>Cranichis muscosa</i>	moss orchid
173	<i>Crataegus phaenopyrum</i>	Washington thorn
177	<i>Crossopetalum rhacoma</i>	Rhacoma
180	<i>Cryptotaenia canadensis</i>	Honewort
181	<i>Ctenitis sloanei</i>	Florida tree fern/red-hair comb-fern
182	<i>Ctenitis submarginalis</i>	brown-hair comb-fern

184	<i>Cucurbita okeechobeensis</i>	Okeechobee gourd
185	<i>Cupania glabra</i>	Cupania
192	<i>Cyrtopodium punctatum</i>	cow-horn orchid
200	<i>Deeringothamnus rugelii</i>	yellow squirrel-banana
201	<i>Delphinium carolinianum</i>	Carolina larkspur
202	<i>Dennstaedtia bipinnata</i>	cuplet fern
208	<i>Dicerandra thinicola</i>	Titusville balm
214	<i>Dodecatheon meadia</i>	shooting star
216	<i>Drosera filiformis</i>	dew-thread
225	<i>Eltroplectris calcarata</i>	spurred neottia
226	<i>Encyclia boothiana</i>	dollar orchid
227	<i>Encyclia cochleata</i>	Florida clamshell orchid
228	<i>Encyclia pygmaea</i>	dwarf epidendrum
230	<i>Epidendrum acunae</i>	Acuna's epidendrum
231	<i>Epidendrum anceps</i>	dingy-flowered epidendrum
232	<i>Epidendrum conopseum</i>	green-fly orchid
233	<i>Epidendrum difforme</i>	umbelled epidendrum
234	<i>Epidendrum nocturnum</i>	night-scented epidendrum
236	<i>Epidendrum rigidum</i>	rigid epidendrum
237	<i>Epidendrum strobiliferum</i>	matted epidendrum
238	<i>Epigaea repens</i>	trailing arbutus
242	<i>Eragrostis tracyi</i>	Sanibel lovegrass
246	<i>Ernodea cokeri</i>	one-nerved ernodea
248	<i>Eryngium cuneifolium</i>	scrub eryngium
250	<i>Erythronium umbilicatum</i>	dimpled dogtooth-violet
251	<i>Eugenia confusa</i>	redberry Eugenia
252	<i>Eugenia rhombea</i>	red stopper
265	<i>Forestiera godfreyi</i>	Godfrey's swamp privet
270	<i>Galeandra beyrichii</i>	helmet orchid
275	<i>Goodyera pubescens</i>	downy rattlesnake orchid
277	<i>Govenia utriculata</i>	Gowen's orchid
278	<i>Guaiacum sanctum</i>	lignum vitae
280	<i>Guzmania monostachia</i>	Fuchs' bromeliad
284	<i>Habenaria distans</i>	distans habenaria
289	<i>Harperocallis flava</i>	Harper's beauty
290	<i>Harrisella filiformis</i>	threadroot orchid
128	<i>Harrisia eriophora</i>	fragrant prickly-apple
129	<i>Harrisia gracilis</i>	west coast prickly-apple
291	<i>Hartwrightia floridana</i>	Hartwrightia
295	<i>Hepatica nobilis</i>	Liverleaf
296	<i>Hexalectris spicata</i>	crested coralroot
297	<i>Hexastylis arifolia</i>	heartleaf wild ginger
299	<i>Hippomane mancinella</i>	Manchineel
300	<i>Hybanthus concolor</i>	green violet
301	<i>Hydrangea arborescens</i>	wild hydrangea
303	<i>Hymenocallis henryae</i>	Henry's spiderlily
304	<i>Hypelate trifoliata</i>	inkwood, white ironwood
305	<i>Hypericum cumulicola</i>	Highlands.scrub hypericum
307	<i>Hypericum edisonianum</i>	Edison ascyrum
308	<i>Hypericum lissophloeus</i>	smooth-barked.St.John's wort
312	<i>Ilex amelanchier</i>	serviceberry holly
314	<i>Ilex krugiana</i>	Krug's holly

319	<i>Illicium parviflorum</i>	star anise
320	<i>Indigofera keyensis</i>	Keys' indigo
321	<i>Ionopsis utricularioides</i>	delicate ionopsis
322	<i>Ipomoea microdactyla</i>	wild potato morning glory
323	<i>Ipomoea tenuissima</i>	Rockland morning glory
1514	<i>Isoetes appalachiana</i>	Appalachian quillwort
1513	<i>Isoetes boomii</i>	Boom's quillwort
1515	<i>Isoetes hyemalis</i>	winter quillwort
328	<i>Isotria verticillata</i>	whorled pogonia
333	<i>Jacquemontia havanensis</i>	Havana clustervine
335	<i>Jacquemontia reclinata</i>	beach jacquemontia
339	<i>Justicia crassifolia</i>	thick-leaved water-willow
342	<i>Kalmia latifolia</i>	mountain laurel
349	<i>Lantana depressa</i>	pineland lantana
350	<i>Lechea cernua</i>	scrub pinweed
351	<i>Lechea divaricata</i>	spreading pinweed
354	<i>Leitneria floridana</i>	Corkwood
355	<i>Leochilus labiatus</i>	lipped orchid
356	<i>Lepanthopsis melanantha</i>	tiny orchid
1516	<i>Liatris gholsonii</i>	bluffs blazing-star
359	<i>Liatris provincialis</i>	Godfrey's blazing-star
360	<i>Licaria triandra</i>	Gulf licaria
361	<i>Lilium catesbaei</i>	Catesby lily
362	<i>Lilium iridollae</i>	Panhandle lily
366	<i>Lindera subcoriacea</i>	bog spicebush
367	<i>Linum arenicola</i>	sand flax
368	<i>Linum carteri</i>	Everglades flax
1517	<i>Linum macrocarpum</i>	big-seed flax
369	<i>Linum westii</i>	West's flax
370	<i>Liparis nervosa</i>	tall twayblade
371	<i>Listera australis</i>	southern twayblade
375	<i>Lobelia cardinalis</i>	cardinal flower
376	<i>Lomariopsis kunzeana</i>	climbing holly-fern
379	<i>Lupinus westianus</i>	Gulf-coast lupine
384	<i>Lycopodium dichotomum</i>	hanging clubmoss
389	<i>Lythrum curtissii</i>	Curtis' loosestrife
394	<i>Macradenia lutescens</i>	Trinidad macradenia
395	<i>Macranthera flammea</i>	hummingbird flower
396	<i>Magnolia acuminata</i>	cucumber-tree
397	<i>Magnolia ashei</i>	Ashe's magnolia
398	<i>Magnolia pyramidata</i>	pyramid magnolia
401	<i>Malaxis unifolia</i>	green adder's-mouth orchid
403	<i>Malus angustifolia</i>	Crabapple
410	<i>Matelea alabamensis</i>	Alabama spiny pod
411	<i>Matelea baldwyniana</i>	Baldwin's spiny pod
413	<i>Matelea flavidula</i>	yellow flowered spiny pod
414	<i>Matelea floridana</i>	Florida spiny pod
415	<i>Matelea gonocarpos</i>	angle pod
416	<i>Matelea pubiflora</i>	sandhill spiny pod
417	<i>Maxillaria crassifolia</i>	hidden orchid
418	<i>Maxillaria parviflora</i>	minnie-max
419	<i>Medeola virginiana</i>	Indian cucumber

421	<i>Microgramma heterophylla</i>	climbing vine fern
423	<i>Monotropa hypopithys</i>	Pinesap
424	<i>Monotropis reynoldsiae</i>	pygmy-pipes
425	<i>Myrcianthes fragrans</i>	Simpson's stopper
428	<i>Najas filifolia</i>	slender naiad
432	<i>Nephrolepis biserrata</i>	giant sword fern
437	<i>Neurodium lanceolatum</i>	ribbon fern
438	<i>Nolina atopocarpa</i>	Florida beargrass
439	<i>Nolina brittoniana</i>	Britton's beargrass
444	<i>Okenia hypogaea</i>	burrowing four-o'clock
445	<i>Oncidium bahamense</i>	dancing lady orchid
447	<i>Oncidium floridanum</i>	Florida oncidium
448	<i>Oncidium luridum</i>	mule-ear orchid
453	<i>Opuntia triacantha</i>	Keys' Joe-jumper
456	<i>Oxypolis greenmanii</i>	giant water-dropwort
459	<i>Pachysandra procumbens</i>	Allegheny spurge
462	<i>Parnassia caroliniana</i>	Carolina grass-of-Parnassus
463	<i>Parnassia grandifolia</i>	grass-of-Parnassus
472	<i>Pellaea atropurpurea</i>	hairy cliff-brake fern
475	<i>Peperomia amplexicaulis</i>	clasping peperomia
476	<i>Peperomia glabella</i>	cypress peperomia
477	<i>Peperomia humilis</i>	Peperomia
478	<i>Peperomia magnoliifolia</i>	spathulate peperomia
479	<i>Peperomia obtusifolia</i>	Florida peperomia
483	<i>Phoebanthus tenuifolius</i>	pineland false sunflower
487	<i>Phyllanthus leibmannianus</i>	pine woods dainties
489	<i>Physocarpus opulifolius</i>	Ninebark
492	<i>Pilosocereus bahamensis</i>	Bahamian tree cactus
493	<i>Pinckneya bracteata</i>	fever tree
494	<i>Pinguicula caerulea</i>	blue-flowered butterwort
495	<i>Pinguicula ionantha</i>	Panhandle butterwort
496	<i>Pinguicula lutea</i>	yellow-flowered butterwort
497	<i>Pinguicula planifolia</i>	swamp butterwort
498	<i>Pinguicula primuliflora</i>	primrose-fl'ed butterwort
502	<i>Pityopsis flexuosa</i>	Florida goldenaster
505	<i>Platanthera blephariglottis</i>	white fringed orchid
506	<i>Platanthera ciliaris</i>	yellow fringed orchid
507	<i>Platanthera clavellata</i>	green rein orchid
508	<i>Platanthera cristata</i>	crested fringed orchid
509	<i>Platanthera flava</i>	gypsy spikes
510	<i>Platanthera integra</i>	orange rein orchid
511	<i>Platanthera nivea</i>	snowy orchid
514	<i>Pleurothallis gelida</i>	frosted orchid
516	<i>Pogonia ophioglossoides</i>	rose pogonia
517	<i>Poinsettia pinetorum</i>	Everglades poinsettia
520	<i>Polygala smallii</i>	tiny polygala
521	<i>Polygonella basiramia</i>	tufted wireweed
522	<i>Polygonella macrophylla</i>	large-leaved jointweed
524	<i>Polygonum meisnerianum</i>	Mexican tearthumb
469	<i>Polypodium dispersa</i>	a polypody
470	<i>Polypodium plumula</i>	plume polypody
471	<i>Polypodium ptilon</i>	swamp plume polypody

528	<i>Polyrrhiza lindenii</i>	ghost orchid
530	<i>Polystachya concreta</i>	pale-flowered polystachya
531	<i>Ponthieva brittoniae</i>	Mrs. Britton's shadow witch
534	<i>Prescottia oligantha</i>	small-flowered orchid
558	<i>Remirea maritima</i>	beach star
563	<i>Rhexia parviflora</i>	Apalachicola meadow beauty
565	<i>Rhipsalis baccifera</i>	mistletoe cactus
566	<i>Rhododendron alabamense</i>	Alabama azalea
567	<i>Rhododendron austrinum</i>	Florida flame azalea
569	<i>Rhododendron chapmanii</i>	Chapman's rhododendron
575	<i>Rhynchospora megaplumosa</i>	hairy spikelet beakrush
578	<i>Roystonea elata</i>	Florida royal palm
579	<i>Rudbeckia nitida</i>	St. John's Susan
581	<i>Ruellia noctiflora</i>	night-flowering wild-petunia
586	<i>Salix eriocephala</i>	heart-leaved willow
587	<i>Salix floridana</i>	Florida willow
589	<i>Salvia urticifolia</i>	nettle-leaved sage
592	<i>Sarracenia leucophylla</i>	white-top pitcher plant
593	<i>Sarracenia minor</i>	hooded pitcher plant
594	<i>Sarracenia psittacina</i>	parrot pitcher plant
595	<i>Sarracenia purpurea</i>	decumbent pitcher plant
597	<i>Sarracenia rubra</i>	red-flowered pitcher plant
599	<i>Scaevola plumieri</i>	Inkberry
602	<i>Schisandra coccinea</i>	bay starvine
603	<i>Schizachyrium niveum</i>	scrub bluestem
605	<i>Schizaea germanii</i>	ray fern
1518	<i>Schoenolirion croceum</i>	yellow sunnybells
607	<i>Scleria lithosperma</i>	Keys' nutrush
611	<i>Selaginella eatonii</i>	pygmy spikemoss
617	<i>Senna mexicana</i>	Chapman's sensitive plant
1519	<i>Silene caroliniana</i>	Carolina catchfly
627	<i>Sphenomeris clavata</i>	wedgelet fern
629	<i>Sphenostigma coelestinum</i>	Bartram's ixia
631	<i>Spigelia loganioides</i>	Levy pinkroot
632	<i>Spiranthes adnata</i>	Pelexia
633	<i>Spiranthes brevilabris</i>	ladies' tresses
634	<i>Spiranthes costaricensis</i>	Costa Rican ladies' tresses
635	<i>Spiranthes elata</i>	tall neottia
636	<i>Spiranthes laciniata</i>	lace-lip ladies' tresses
637	<i>Spiranthes longilabris</i>	long-lip ladies' tresses
639	<i>Spiranthes ovalis</i>	lesser ladies' tresses
640	<i>Spiranthes polyantha</i>	Ft. George ladies' tresses
642	<i>Spiranthes torta</i>	southern ladies' tresses
643	<i>Spiranthes tuberosa</i>	little pearl-twist
645	<i>Stachydeoma graveolens</i>	mock pennyroyal
646	<i>Stachys crenata</i>	shade betony
1520	<i>Stachys lythroides</i>	hyssop-leaved hedge-nettle
647	<i>Stachys tenuifolia</i>	narrow-leaved betony
648	<i>Staphylea trifolia</i>	bladder nut
650	<i>Stenorrhynchus lanceolatus</i>	leafless beaked orchid
651	<i>Stewartia malacodendron</i>	silky camellia
652	<i>Strumpfia maritima</i>	pride of Big Pine

653	<i>Stylisma abdita</i>	hidden stylisma
660	<i>Taxus floridana</i>	Florida yew
664	<i>Tectaria fimbriata</i>	least halberd fern
662	<i>Tectaria heracleifolia</i>	broad halberd fern
666	<i>Tephrosia mohrii</i>	pineland hoary pea
668	<i>Tetrazygia bicolor</i>	Tetrazygia
669	<i>Thalictrum cooleyi</i>	Cooley's meadow-rue
670	<i>Thalictrum thalictroides</i>	rue anemone
671	<i>Thelypteris augescens</i>	abrupt-tipped maiden fern
672	<i>Thelypteris grandis</i>	Collier County maiden fern
673	<i>Thelypteris patens</i>	gridscale maiden fern
674	<i>Thelypteris reptans</i>	creeping star-hair fern
675	<i>Thelypteris reticulata</i>	lattice-vein fern, cypress fern
676	<i>Thelypteris sclerophylla</i>	stiff star-hair fern
677	<i>Thelypteris serrata</i>	dentate lattice-vein fern
681	<i>Tillandsia balbisiana</i>	inflated wild-pine, reflexed wild-pine
682	<i>Tillandsia fasciculata</i>	common wild-pine, stiff-leaved
685	<i>Tillandsia pruinosa</i>	fuzzy-wuzzy air plant
687	<i>Tillandsia utriculata</i>	giant wild-pine
686	<i>Tillandsia valenzuelana</i>	soft-leaved wild-pine
688	<i>Tipularia discolor</i>	crane-fly orchid
689	<i>Torreya taxifolia</i>	Florida torreyia
694	<i>Trichomanes holopterum</i>	entire-winged bristle fern
695	<i>Trichomanes krausii</i>	Kraus's bristle fern
696	<i>Trichomanes lineolatum</i>	lined bristle fern
698	<i>Trichomanes punctatum</i>	Florida bristle fern
700	<i>Trillium lancifolium</i>	lance-leaved wake robin
704	<i>Triphora trianthophora</i>	three-birds orchid
714	<i>Vanilla barbellata</i>	worm-vine orchid
716	<i>Vanilla mexicana</i>	unscented vanilla
717	<i>Vanilla phaeantha</i>	leafy vanilla
718	<i>Vanilla planifolia</i>	commercial vanilla
719	<i>Veratrum woodii</i>	false hellebore
720	<i>Verbena maritima</i>	coastal vervain
721	<i>Verbena tampensis</i>	Tampa vervain
725	<i>Vicia ocalensis</i>	Ocala vetch
726	<i>Viola tripartita</i>	yellow violet
732	<i>Warea carteri</i>	Carter's mustard
738	<i>Xanthorhiza simplicissima</i>	Yellowroot
741	<i>Xyris longisepala</i>	karst pond yellow-eyed grass
743	<i>Xyris scabrifolia</i>	Harper's yellow-eyed grass
746	<i>Yucca gloriosa</i>	moundlily yucca
749	<i>Zamia spp.</i>	Coontie
750	<i>Zanthoxylum americanum</i>	prickly-ash
751	<i>Zanthoxylum coriaceum</i>	leathery prickly-ash
752	<i>Zanthoxylum flavum</i>	Yellowheart
753	<i>Zephyranthes atamasco</i>	Rainlily
754	<i>Zephyranthes simpsonii</i>	Simpson's zephyr-lily
755	<i>Zephyranthes treatiae</i>	Treat's zephyr-lily
756	<i>Zigadenus leimanthoides</i>	coastal death camas
757	<i>Ziziphus celata</i>	scrub ziziphus

During the review of the plant index the following updates were discussed:

55	Aster hemisphericus	an aster
56	Aster spinulosus	pinewoods aster

For these Aster spp. we will include the synonym of *Eurybia hemispherica* and *Eurybia spinulosa*.

342	Kalmia latifolia	mountain laurel
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Kalmia latifolia was discussed and should be included for review next year.

87	Cacalia diversifolia	Indian plantain
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The note for this plant currently lists the synonym as “=*Cacalia diversifolia*”. The note will be corrected to indicate the synonym as “=*Arnoglossum diversifolium*”.

688	Tipularia discolor	crane-fly orchid
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Tipularia discolor (crane-fly orchid)

- A = 2.0
- B = 1.0
- C = 3.0
- D = 2.0
- E = 3.0
- F = -1.0

10.0 - Threatened (removed from Endangered)

This plant was discussed and ranked as eligible for movement from endangered to threatened on the plant index.

Anne Schmidt initiated discussion on *Warea cuneifolia*. The committee agreed that with more information it would be appropriate to consider a proposal for listing the plant next year.

There was discussion and comments on the FNAI – Element Tracking Summary. One discussion was on the total number of EORs (Element Occurrence Records). This is important information to EPAC when ranking plants based on occurrences; particularly when the occurrences are minimal or extirpated. It was later discussed that when relevant the notes section in the plant index could reference FNAI. A second discussion addressed the State Status Column. There are numerous plants listed as ‘N’ (Not listed) that the committee feels might be good to review for state ranking. Michael Jenkins will provide the committee with a summary of the N plants from the FNAI list. The discussion continued to cover an occurrence based on historic range compared to introductions outside the historic range. This is a complex issue for the council to consider since each plant and occurrence has its own set of unique variables.

Members addressed a carryover from last year’s meeting for the plant listed below. Pending further review, it will remain unchanged and given ranking consideration at the next EPAC meeting. All *Marsilea* species are currently listed as “Not Native.”

407 *Marsilea ancylopoda* - blunt-spined water-clover

Discussion of the statute changes that revoke the ability for the state to pay travel and per diem for council was covered. The specific statute language will be forward to all council members.

Election of Officers

Jack Stout made a motion to maintain the current officers (Mr. Richard Moyroud, Chair, and Dr. Loran Anderson, Vice Chair). Motion was seconded Tina Tuttle. Motion passed.

Comments from Council and Interested Parties

- Last year it was recommended that Atlanta Botanical Garden's grant application be approved by the council. The grant funding was not authorized by the agency. The funds were equally distributed among the remaining three grant recipients.
- The question was asked if the Plant Ranking Form was available online. It appears to have been removed from online access. It will be updated to allow for more space for the plant name and made available through the agency website:
<http://www.freshfromflorida.com/onestop/plantinsp.html>

Schedule Next Meeting

The next annual EPAC meeting in Gainesville will be scheduled for the third week of October (October 17 & 18, 2013).

A motion was made to adjourn by Richard Moyroud and seconded by Jack Stout. Motion passed.

THE MEETING ADJOURNED

Richard Moyroud, Chair
Bryan K. Benson, Secretary