

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 20, 2016

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

Members Absent:

Mr. Charles D. Daniel, III – Florida Forestry Association
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association

Others Present:

Ms. Lana Arnold – Florida Federation of Garden Clubs
Ms. Cheryl Peterson – Bok Tower Gardens
Dr. Eric S. Menges – Archbold Biological Station
Ms. Stephanie Koontz – Archbold Biological Station
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Mr. Steve W. Woodmansee – Key West Botanical Garden
Mr. Jimmy Lange – Fairchild Tropical Botanical Garden
Dr. Patti Anderson – FDACS/Division of Plant Industry

Richard Moyroud opened the meeting by welcoming the council members and other interested parties. A quorum of council members was present.

Prior to introductions, Richard made comments paying respect to Dan Ward as a founding member of the endangered plant advisory council after his passing earlier this year. He was an inspiration and will be missed by many.

Introductions were made of all present.

Richard Moyroud requested council members to review the proposed agenda. It was asked if we could add the topic of the RED Listed (most endangered) plants for discussion on day two. This topic was added to the agenda. *Suzanne Koptur made a motion to accept the agenda. The motion was seconded by Richard Moyroud. Motion passed.*

Richard Moyroud asked council members if there were any questions or suggested changes to the minutes from the 2015 EPAC meeting. It was noted that *Stylisma abdita* was misspelled on page 6 of the 2015 minutes. *Jack Stout made a motion to accept the minutes from the last meeting. The motion was seconded by Suzanne Koptur. 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, and all met the minimum

eligibility requirements for consideration. All were assigned an application number. A copy of each application was forwarded to council members for review prior to this meeting. The four applications were evaluated and ranked by council members.

The opportunity for grant applicants & past grant recipients to present on their ongoing and future conservation activities were offered to those present.

Archbold Biological Station

Stephanie Koontz presented details outlining conservation efforts, and the past year's programs, as well as ongoing and future efforts. The council was given the opportunity to present any questions regarding the past year or the current application. A copy of the 2015-2016 Final Report was provided to EPAC members.

Bok Tower Gardens

Cheryl Peterson presented details outlining conservation efforts, and the past year's programs, as well as ongoing and future program updates. The council was given the opportunity to present any questions regarding the past year or the current application. A copy of the 2015-2016 Final Report was provided to EPAC members.

Fairchild Tropical Botanical Garden

Jimmy Lange presented details outlining conservation efforts, and the past year's programs, as well as ongoing activities and future plans. The council was given the opportunity to present any questions regarding the past year or the current application. A copy of the 2015-2016 Final Report was provided to EPAC members.

Key West Botanical Garden Society

Steve Woodmansee presented details on conservation efforts and the past year's programs, as well as ongoing and future program updates. The council was given the opportunity to present any questions regarding the past year or the current application.

Following the presentations, council members submitted grant application evaluation forms for all applications considered. Calculations were totaled and explained.

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 2016-2017</u>
Archbold Biological Station	\$100,000.00	\$74,358.34
Fairchild Tropical Botanical Garden	\$100,000.00	\$71,031.78
Bok Tower Gardens	\$100,000.00	\$71,618.82
<u>Key West Botanical Garden</u>	<u>\$42,570.00</u>	<u>\$22,991.06</u>
Totals	\$342,570.00	\$240,000.00

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

Loran Anderson made a motion to adjourn. Richard Moyroud seconded. Motion passed.

THE MEETING ADJOURNED FOR THE DAY

MINUTES OF THE ENDANGERED PLANT ADVISORY COUNCIL

Date: October 21, 2016
Time: 8:00 – 11:00 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. Loran C. Anderson, Vice-Chair – Florida State University Botanist
Dr. Jack Stout – Florida Committee for Rare and Endangered Plants and Animals
Dr. Suzanne Koptur – Florida International University Botanist
Mrs. Tina Tuttle – Florida Federation of Garden Clubs
Mr. Bryan K. Benson, Secretary – FDACS/Division of Plant Industry

Members Absent:

Mr. Charles D. Daniel, III – Florida Forestry Association
Mr. David M. Drylie, Jr. – Florida Nursery, Growers and Landscape Association

Others Present:

Dr. Patti Anderson – FDACS/Division of Plant Industry
Ms. Lana Arnold – Florida Federation of Garden Clubs
Dr. Eric S. Menges – Archbold Biological Station
Ms. Stephanie Koontz – Archbold Biological Station
Mr. Michael R. Jenkins – FDACS/Florida Forest Service
Mr. Houston Snead – Jacksonville Zoo and Gardens

Richard Moyroud opened the meeting by welcoming back the council members and other interested parties. Introductions were made by all present.

Four Year Interval Review of Regulated Plant Index

Each plant listed on the regulated plant index is required to be reviewed by the council every four years. This year the list included 341 plants that were last reviewed in 2012. All plants listed below were reviewed and comments updates and changes are outlined below the following the table of plants being reviewed.

ID	Scientific Name	Common Name	Notes
1510	<i>Acacia angustissima</i>	prairie acacia	See Contr. Dudley Herb. 1942
6	<i>Acacia choriophylla</i>	tamarindillo	Delisted 1999; reinstated Mar 2000
7	<i>Acacia tortuosa</i>	poponax	Not recently seen
8	<i>Acoelorrhaphe wrightii</i>	Everglades palm	
9	<i>Acrostichum aureum</i>	golden leather fern	
11	<i>Actaea pachypoda</i>	doll's eyes	
18	<i>Adiantum tenerum</i>	brittle maidenhair fern	
20	<i>Aeschynomene pratensis</i>	meadow jointvetch	
1529	<i>Agave neglecta</i>	wild century plant	Added 2010
21	<i>Ageratum littorale</i>	Cape Sable whiteweed	
23	<i>Aletris bracteata</i>	bracted colicroot	

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24	Alvaradoa amorphoides	alvaradoa	
25	Amorpha crenulata	Miami lead plant	Isely uses Amorpha herbacea var. crenulata
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	Added 2001
42	Arnoglossum album	white-flowered plantain	Added 2001
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 verecundum	delicate spleenwort	
55	Aster hemisphericus	an aster	=Eurybia hemispherica
56	Aster spinulosus	pinewoods aster	=Eurybia spinulosus
57	Athyrium filix-femina	southern lady fern	
61	Balduina atropurpurea	purple balduina	
1511	Baptisia calycosa	Canby's wild indigo	
62	Baptisia hirsuta	hairy wild indigo	Isely uses Baptisia calycosa var. villosa
63	Baptisia megacarpa	Apalachicola wild indigo	
66	Basiphyllaea corallicola	Carter's orchid	
69	Bigelovia nuttallii	Nuttall's rayless goldenrod	
70	Blechnum occidentale	sinkhole fern	
73	Bletia purpurea	pine-pink orchid	
75	Bourreria cassinifolia	little strongbark	
79	Brickellia cordifolia	heart-leaf brickell-bush	08 changed common name from Flyr's nemesis
80	Brickellia mosieri	Brickell-bush	
81	Bulbophyllum pachyrrachis	rat-tail orchid	
83	Burmannia flava	Fakahatchee burmannia	
87	Cacalia diversifolia	Indian plantain	=Arnoglossum diversifolium
90	Calamintha ashei	Ashe's calamintha	Synonym: Satureja ashei
92	Calamintha georgiana	Georgia catamint	
93	Calamovilfa curtissii	Curtis' sandgrass	
94	Callirhoe papaver	poppy mallow	
99	Calycanthus floridus	sweet shrub	
101	Calyptanthus zuzygium	myrtle-of-the-river	
102	Calystegia catesbeiana	Catesby's bindweed	
103	Campanula robinsiae	Chinsegut bellflower	
104	Campylocentrum pachyrrhizum	leafless orchid	
105	Campyloneurum angustifolium	narrow strap fern	
106	Campyloneurum costatum	tailed strap fern	
110	Canella winterana	wild cinnamon	
111	Carex baltzellii	Baltzell's sedge	

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115	<i>Cassia keyensis</i>	Keys' cassia	Isely: <i>Chamaecrista lineata</i> var. <i>keyensis</i>
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	= <i>Pilosocereus robinii</i> var. <i>robinii</i>
133	<i>Chamaesyce cumulicola</i>	sand dune spurge	
134	<i>Chamaesyce deltoidea</i>	rockland spurge	On Federal list as <i>Euphorbia deltoidea</i>
135	<i>Chamaesyce garberi</i>	Garber's spurge	On Federal list as: <i>Euphorbia garberi</i>
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>	colubrina	
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	Not recently seen
173	<i>Crataegus phaenopyrum</i>	Washington thorn	
177	<i>Crossopetalum rhacoma</i>	rhacoma	92 scores: 1,1,.5,2,1 =5.5
180	<i>Cryptotaenia canadensis</i>	honestwort	
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	Commercially Exploited
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	

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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	
289	<i>Harperocallis flava</i>	Harper's beauty	
290	<i>Harrisella filiformis</i>	threadroot orchid	
128	<i>Harrisia eriophora</i>	fragrant prickly-apple	= <i>Cereus fragrans</i>
129	<i>Harrisia gracilis</i>	west coast prickly-apple	<i>C. gracilis</i> vars.: <i>Harrisia aboriginum</i> & <i>H. simpsonii</i>
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	Isely uses: <i>Indigofera mucronata</i> var. <i>keyensis</i>
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	
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	

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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	Syn: <i>Phlegmariurus dichotomus</i>
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	syn: <i>Magnolia macrophylla</i> ssp. <i>ashei</i>
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>	pinetop	
424	<i>Monotropis reynoldsiae</i>	pygmy-pipes	Syn: <i>Monotropis odorata</i>
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	In error, listed as <i>O. bahamensis</i> . = <i>Tolumnia bahamensis</i>
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	

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472	<i>Pellaea atropurpurea</i>	hairy cliff-brake fern	Not recently seen
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	syn: <i>Polygonella ciliata</i> var. <i>basiramia</i>
522	<i>Polygonella macrophylla</i>	large-leaved jointweed	
524	<i>Polygonum meisnerianum</i>	Mexican tearthumb	
469	<i>Polypodium dispersa</i>	a polypody	= <i>Pecluma dispersa</i>
470	<i>Polypodium plumula</i>	plume polypody	= <i>Pecluma plumulum</i>
471	<i>Polypodium ptilodon</i>	swamp plume polypody	= <i>Pecluma ptilodon</i>
528	<i>Polyrrhiza lindenii</i>	ghost orchid	= <i>Polyradicion lindenii</i>
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	syn: <i>Cyperus pedunculatus</i>
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	

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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	Value for A is questionable
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>Stenorrhynchos 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	Common name changed from 'hidden stylisma' to 'Austin's dawn flower' 2015
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	Listed commercially exploited '93. Now endangered due to <i>Metamasius</i> weevil attacks.
685	<i>Tillandsia pruinosa</i>	fuzzy-wuzzy air plant	
687	<i>Tillandsia utriculata</i>	giant wild-pine	Listed commercially exploited '93. Now endangered due to <i>Metamasius</i> weevil attacks.
686	<i>Tillandsia valenzuelana</i>	soft-leaved wild-pine	
688	<i>Tipularia discolor</i>	crane-fly orchid	From Endangered to Threatened 2012
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	Formerly incorrectly listed as <i>V. hastata</i>
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	
749	<i>Zamia</i> spp.	coontie	Commercially Exploited list
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	

The following plants were discussed and/or edited as listed below:

- #1529 *Agave neglecta*, wild century plant: made note that Richard M. to contact George Rogers and ask for documentation to verify if native and clarify species as *A. neglecta* or exotic as *A. weberii* for a review in 2017.
- #21 *Ageratum littorale*, Cape Sable whiteweed: no changes

- #32 *Arabis canadensis*, sicklepod: New genus, add note for synonym *Boechea canadensis*
- #35 *Argythamnia blodgettii*, Blodget's wild mercury: Considered endemic add -1 to 'F' column and recalculated total score to 4.5
- #47 *Asimina tetramera*, scrub pawpaw: no changes
- #79 *Brickellia cordifolia*, heart-leaf brickel-bush: update common name to heart-leaf Brickell-bush
- #90 *Calamintha ashei*, Ashe's calamintha: update common name to Ashe's calamint and update column 'D' from 3 to 4; new total is 10.5 and is still threatened
- #92 *Calamintha Georgiana*, Georgia's catamint: correct common name to Georgia's calamint
- #103 *Campanula robinsiae*, Chinsegut bellflower: no changes
- #134 *Chamaesyce deltoidea*, rockland spurge: federally listed, make bold
- #135 *Chamaesyce garberi*, Garber's spurge: federally listed, make bold
- #142 *Chionanthus pygmaeus*, pygmy fringe tree: updated column 'D' from 2 to 4; new total is 8 and still endangered
- #172 *Cranichis muscosa*, moss orchid: update column 'B' to 0.5; new total is 2.5 and still endangered. Also remove note 'Not recently seen'
- #208 *Dicerandra thinicola*, Titusville balm: update column 'B' from 0.5 to 1; new total is 3 and still endangered
- #226 *Encyclia boothiana*, dollar orchid: new genus, add note for synonym *Prosthecea boothiana*
- #232 *Epidendrum conopseum*, green-fly orchid: add note for synonym *E. magnoliae*
- #248 *Eryngium cuneifolium*, scrub eryngium: update column 'B' from 1 to 3 and column 'D' from 1 to 3; new total score is 7.5 and still endangered as well as federally listed
- #278 *Guaiacum sanctum*, lignum vitae: no changes
- #305 *Hypericum cumulicola*, Highlands scrub hypericum: update column 'B' from 2 to 3 and column 'D' from 3 to 4; new total score is 9.5 and still endangered due to being federally listed
- #307 *Hypericum edisonianum*, Edison ascyrum: update column 'D' from 2 to 3; new total score is 6.5 and still endangered
- #322 *Ipomoea microdactyla*, wild potato morning glory: update column 'F' from 0 to -1 because plant is endemic; new total score is 4.5 and still endangered
- #350 *Lechea cernua*, scrub pinweed: update column 'B' from 2 to 4; new total score is 12 and still threatened
- #351 *Lechea divaricata*, spreading pinweed: update column 'D' from 2 to 3; new total score is 8 and still endangered
- #368 *Linum carteri*, Everglades flax: no change
- #375 *Lobelia cardinalis*, cardinal flower: no change
- #415 *Matelea gonocarpus*, angel pod: add note for synonym *Gonolobus suberosus*
- #439 *Nolina brittoniana* Britton's beargrass: update column 'D' from 3 to 4; new total score is 8 and still endangered
- #453 *Opuntia triacantha*, Keys' Joe-jumber: add not for synonym *O. abject*
- #456 *Oxypolis greenmanii*, giant water-dropwart: new genus, add note for synonym *Tiedemannia greenmanii*

- #521 *Polygonella basiramia*, tufted wireweed: update to column 'B' from 2 to 3 and column D from 2 to 4; new total score is 10.5 but still endangered due to being federally listed
- #524 *Polygonum meisnerianum*, Mexican tearthumb: add note for synonym *Persicaria meisneriana*
- #589 *Salvia urticifolia*, nettle-leafed sage: maybe two species
- #595 *Sarracenia purpurea*, decumbent pitcher plant: add note for synonym *S. rosea*
- #646 *Stachys crenata*, shade betony: may not be native
- #647 *Stachys tenuifolia*, bladder nut: may be *S. aspera*
- #653 *Stylisma abdita*, hidden stylisma: update column 'B' from 2 to 4; new total score is 9 and still endangered
- #682 *Tillandsia fasciculata*, common wild-pine: no change
- #687 *Tillandsia utriculata*, giant wild-pine: no change
- #726 *Viola tripartita*, yellow violet: remove note
- #732 *Warea carteri*, Carter's mustard: update column 'D' from 2 to 4 and column 'F' from -1 to -2 due to extreme fire dependant life cycle; new total score is 7.5 and still endangered and federally listed
- #757 *Ziziphus celata*, scrub ziziphus: update column 'B' from 0.5 to 1 and column F from -1 to -2; new total score is 3.5 and still endangered and federally listed

Loran Anderson made a motion to accept proposed changes for the 4-year review plant list. Suzanne Koptur seconded. Motion passed.

YouTube sensation and rare plant enthusiast, Dr. Patti Anderson provided live entertainment by singing and playing of Poison Ivy on the ukulele.

The following plant was proposed for de-listing in 2014. The committee reviewed and decided to postpone the decision last year (2015) until further information received and review during next meeting.

Echinodorus floridanus (Florida burhead) **APPROVED FOR DELISTING AS NON-NATIVE**

A = 0.5

B = 1.0

C = 0.5

D = 0.0

E = 1.0

F = -1.0

2.0 – Endangered

Suzanne Koptur made a motion to delist *Echinodorus floridanus* as non-native until further reviewed during next meeting. Loran Anderson seconded. Motion passed.

The following plants were proposed for listing this year and reviewed by the committee for confirmation next year:

Platanthera chapmanii (Chapman's fringed orchid)

A = 1.0

B = 0.5

C = 1.0

D = 1.0

E = 1.0

F = -0.5

4.0 – Endangered

A presentation was given by Houston Snead of Jacksonville Zoo and Gardens on the Chapman's fringed orchid.

Loran Anderson made a motion to accept proposal to list *Platanthera chapmanii* as endangered. Tina Tuttle seconded. Motion passed.

This year Patti Anderson received a few questions about *Agave neglecta*. The species is listed as non-native on the Atlas of Florida Plants website, and non-native plants are not intended to be listed as endangered. A publication by Alan Franck, curator at University of South Florida herbarium, indicates *Agave neglecta* is not native. Richard M. is in touch with an agave specialist in South Florida (George Rogers) and will contact him for an opinion. We can review new information at the next council meeting in 2017.

Discussion on *Eriogonum floridanum*, scrub buckwheat. This plant is federally listed as threatened and state listed as threatened instead of endangered.

Tina Tuttle made a motion to accept the proposal to list *Eriogonum floridanum* as endangered. Suzanne Koptur seconded. Motion passed.

Last year the topic of "The Most Critically Endangered Plants" was discussed and a report of those with a ranking score of less than 4.5 was provided to the committee. This year the list was discussed further. There was discussion about making book-marks and posters. The committee will receive a copy of this list again refined down to those plants with a ranking score of 3.5 or less with this year's minutes. Suzanne provided some information about the ICUN Red List and will continue to explore the option of having some Florida plant species listed as internationally imperiled, probably focusing on Florida endemic plants. Those species that are endangered in Florida, but are abundant in other states or countries, would not be good candidates.

Suzanne Koptur made a motion to authorize Tina Tuttle reach out to the Florida Wildflower Foundation on behalf of the advisory council to see how the Red List can be used for education and conservation of listed plants within Florida. Loran Anderson seconded. Motion passed.

Election of Officers

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

Comments from Council and Interested Parties

Michael Jenkins initiated a discussion on mowing of fire adapted species. The mowing is essential to preserve many species. A well timed mowing (with research on the timing) would be great for conservation of these plants.

Tina Tuttle and Lana Arnold representing the Florida Federation of Garden Clubs, Inc. presented the Award 6 Medal for Individual Achievement in Horticulture to Dr. Eric Menges.

Schedule Next Meeting

The next annual EPAC meeting in Gainesville will be scheduled for October 26 & 27, 2017.

A motion was made to adjourn by Loran Anderson. Motion was seconded by Richard Moyroud. Motion passed.

THE MEETING ADJOURNED

Richard Moyroud, Chair