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:

	Grant Amount Requested	Total Funds Recommended
		for Fiscal Year 2016-2017
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
Key West Botanical Garden	\$42,570.00	\$22,991.06
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	Acacia angustissima	prairie acacia	See Contr. Dudley Herb. 1942
6	Acacia choriophylla	tamarindillo	Delisted 1999; reinstated Mar 2000
7	Acacia tortuosa	poponax	Not recently seen
8	Acoelorraphe 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	Added 2010
21	Ageratum littorale	Cape Sable whiteweed	
23	Aletris bracteata	bracted colicroot	

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	Bigelowia 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 brickel-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	Calyptranthes 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	

115	Cassia keyensis	Keys' cassia	Isely: Chamaecrista lineata var. keyensis
117	Catesbaea parviflora	small-flowered lily-thorn	
118	Catopsis berteroniana	yellow catopsis	
119	Catopsis floribunda	many-flowered airplant	
120	Catopsis nutans	nodding catopsis	
122	Celtis iguanaea	iguana hackberry	
123	Celtis pallida	spiny hackberry	
131	Cereus robinii	tree cactus	= Pilosocereus robinii var. robinii
133	Chamaesyce cumulicola	sand dune spurge	
134	Chamaesyce deltoidea	rockland spurge	On Federal list as Euphorbia deltoidea
135	Chamaesyce garberi	Garber's spurge	On Federal list as: Euphorbia garberi
137	Chamaesyce porteriana	Porter's spurge	
141	Cheilanthes microphylla	southern lip fern	
142	Chionanthus pygmaeus	pygmy fringe tree	
148	Cienfuegosia yucatanensis	yellow-hibiscus	
158	Colubrina cubensis	colubrina	
163	Conradina glabra	Apalachicola rosemary	
165	Corallorhiza odontorhiza	autumn coralroot	
171	Cornus alternifolia	pagoda dogwood	
172	Cranichis muscosa	moss orchid	Not recently seen
173	Crataegus phaenopyrum	Washington thorn	
177	Crossopetalum rhacoma	rhacoma	92 scores:1,1,.5,2,1 =5.5
180	Cryptotaenia canadensis	honewort	
181	Ctenitis sloanei	Florida tree fern/red-hair comb-fern	
182	Ctenitis submarginalis	brown-hair comb-fern	
184	Cucurbita okeechobeensis	Okeechobee gourd	
185	Cupania glabra	cupania	
192	Cyrtopodium punctatum	cow-horn orchid	
200	Deeringothamnus rugelii	yellow squirrel-banana	
201	Delphinium carolinianum	Carolina larkspur	
202	Dennstaedtia bipinnata	cuplet fern	
208	Dicerandra thinicola	Titusville balm	
214	Dodecatheon meadia	shooting star	
216	Drosera filiformis	dew-thread	
225	Eltroplectris calcarata	spurred neottia	
226	Encyclia boothiana	dollar orchid	
227	Encyclia cochleata	Florida clamshell orchid	
228	Encyclia pygmaea	dwarf epidendrum	
230	Epidendrum acunae	Acuna's epidendrum	
231	Epidendrum anceps	dingy-flowered epidendrum	
232	Epidendrum conopseum	green-fly orchid	Commercially Exploited
233	Epidendrum difforme	umbelled epidendrum	
234	Epidendrum nocturnum	night-scented epidendrum	
236	Epidendrum rigidum	rigid epidendrum	
237	Epidendrum strobiliferum	matted epidendrum	
238	Epigaea repens	trailing arbutus	
			1
242	Eragrostis tracyi	Sanibel lovegrass	
242 246 248	Eragrostis tracyi Ernodea cokeri Eryngium cuneifolium	Sanibel lovegrass one-nerved ernodea scrub eryngium	

250	Erythronium umbilicatum	dimpled dogtooth-violet	
251	Eugenia confusa	redberry eugenia	
252	Eugenia rhombea	red stopper	
265	Forestiera godfreyi	Godfrey's swamp privet	
270	Galeandra beyrichii	helmet orchid	
275	Goodyera pubescens	downy rattlesnake orchid	
277	Govenia utriculata	Gowen's orchid	
278	Guaiacum sanctum	lignum vitae	
280	Guzmania monostachia	Fuchs' bromeliad	
289	Harperocallis flava	Harper's beauty	
290	Harrisella filiformis	threadroot orchid	
128	Harrisia eriophora	fragrant prickly-apple	=Cereus fragrans
			C. gracilis vars.: Harrisia aboriginum & H.
129	Harrisia gracilis	west coast prickly-apple	simpsonii
291	Hartwrightia floridana	hartwrightia	
295	Hepatica nobilis	liverleaf	
296	Hexalectris spicata	crested coralroot	
297	Hexastylis arifolia	heartleaf wild ginger	
299	Hippomane mancinella	manchineel	
300	Hybanthus concolor	green violet	
301	Hydrangea arborescens	wild hydrangea	
303	Hymenocallis henryae	Henry's spiderlily	
304	Hypelate trifoliata	inkwood, white ironwood	
305	Hypericum cumulicola	Highlands.scrub hypericum	
307	Hypericum edisonianum	Edison ascyrum	
308	Hypericum lissophloeus	smooth-barked.St.John's wort	
312	Ilex amelanchier	serviceberry holly	
314	Ilex krugiana	Krug's holly	
319	Illicium parviflorum	star anise	
320	Indigofera keyensis	Keys' indigo	Isely uses: Indigofera mucronata var. keyensis
321	Ionopsis utricularioides	delicate ionopsis	
322	Ipomoea microdactyla	wild potato morning glory	
323	Ipomoea tenuissima	Rockland morning glory	
1514	Isoetes appalachiana	Appalachian quillwort	
1513	Isoetes boomii	Boom's quillwort	
1515	Isoetes hyemalis	winter quillwort	
328	Isotria verticillata	whorled pogonia	
333	Jacquemontia havanensis	Havana clustervine	
335	Jacquemontia reclinata	beach jacquemontia	
339	Justicia crassifolia	thick-leaved water-willow	
349	Lantana depressa	pineland lantana	
350	Lechea cernua	scrub pinweed	
351	Lechea divaricata	spreading pinweed	
354	Leitneria floridana	corkwood	
355	Leochilus labiatus	lipped orchid	
356	Lepanthopsis melanantha	tiny orchid	
1516	Liatris gholsonii	bluffs blazing-star	
359	Liatris provincialis	Godfrey's blazing-star	
360	Licaria triandra	Gulf licaria	

361	Lilium catesbaei	Catesby lily	
362	Lilium iridollae	Panhandle lily	
366	Lindera subcoriacea	bog spicebush	
367	Linum arenicola	sand flax	
368	Linum carteri	Everglades flax	
1517	Linum macrocarpum	big-seed flax	
	Linum westii	West's flax	
369 370	Liparis nervosa	tall twayblade	
371	Listera australis	southern twayblade	
	Lobelia cardinalis	cardinal flower	
375			
376	Lomariopsis kunzeana	climbing holly-fern	
379	Lupinus westianus	Gulf-coast lupine	G DIL : I'I
384	Lycopodium dichotomum	hanging clubmoss	Syn: Phlegmariurus dichotomus
389	Lythrum curtissii	Curtis' loosestrife	
394	Macradenia lutescens	Trinidad macradenia	
395	Macranthera flammea	hummingbird flower	
396	Magnolia acuminata	cucumber-tree	
397	Magnolia ashei	Ashe's magnolia	syn: Magnolia macrophylla ssp. ashei
398	Magnolia pyramidata	pyramid magnolia	
401	Malaxis unifolia	green adder's-mouth orchid	
403	Malus angustifolia	crabapple	
410	Matelea alabamensis	Alabama spiny pod	
411	Matelea baldwyniana	Baldwin's spiny pod	
413	Matelea flavidula	yellow flowered spiny pod	
414	Matelea floridana	Florida spiny pod	
415	Matelea gonocarpos	angle pod	
416	Matelea pubiflora	sandhill spiny pod	
417	Maxillaria crassifolia	hidden orchid	
418	Maxillaria parviflora	minnie-max	
419	Medeola virginiana	Indian cucumber	
421	Microgramma heterophylla	climbing vine fern	
423	Monotropa hypopithys	pinesap	
424	Monotropsis reynoldsiae	pygmy-pipes	Syn: Monotropsis odorata
425	Myrcianthes fragrans	Simpson's stopper	
428	Najas filifolia	slender naiad	
432	Nephrolepis biserrata	giant sword fern	
437	Neurodium lanceolatum	ribbon fern	
438	Nolina atopocarpa	Florida beargrass	
439	Nolina brittoniana	Britton's beargrass	
444	Okenia hypogaea	burrowing four-o'clock	
			In error, listed as O. bahamensis. =Tolumnia
445	Oncidium bahamense	dancing lady orchid	bahamensis
447	Oncidium floridanum	Florida oncidium	
448	Oncidium luridum	mule-ear orchid	
453	Opuntia triacantha	Keys' Joe-jumper	
456	Oxypolis greenmanii	giant water-dropwort	
459	Pachysandra procumbens	Allegheny spurge	
462	Parnassia caroliniana	Carolina grass-of-Parnassus	
463	Parnassia grandifolia	grass-of-Parnassus	
100	- armaoona prantamonia	5-400 01 1 411140040	

472	Pellaea atropurpurea	hairy cliff-brake fern	Not recently seen
475	Peperomia amplexicaulis	clasping peperomia	
476	Peperomia glabella	cypress peperomia	
477	Peperomia humilis	peperomia	
478	Peperomia magnoliifolia	spathulate peperomia	
479	Peperomia obtusifolia	Florida peperomia	
483	Phoebanthus tenuifolius	pineland false sunflower	
487	Phyllanthus leibmannianus	pine woods dainties	
489	Physocarpus opulifolius	ninebark	
492	Pilosocereus bahamensis	Bahamian tree cactus	
493	Pinckneya bracteata	fever tree	
494	Pinguicula caerulea	blue-flowered butterwort	
495	Pinguicula ionantha	Panhandle butterwort	
496	Pinguicula lutea	yellow-flowered butterwort	
497	Pinguicula planifolia	swamp butterwort	
498	Pinguicula primuliflora	primrose-fl'red butterwort	
502	Pityopsis flexuosa	Florida goldenaster	
505	Platanthera blephariglottis	white fringed orchid	
506	Platanthera ciliaris	yellow fringed orchid	
507	Platanthera clavellata	green rein orchid	
508	Platanthera cristata	crested fringed orchid	
509	Platanthera flava	gypsy spikes	
510	Platanthera integra	orange rein orchid	
511	Platanthera nivea	snowy orchid	
514	Pleurothallis gelida	frosted orchid	
516	Pogonia ophioglossoides	rose pogonia	
517	Poinsettia pinetorum	Everglades poinsettia	
520	Polygala smallii	tiny polygala	
521	Polygonella basiramia	tufted wireweed	syn: Polygonella ciliata var. basiramia
522	Polygonella macrophylla	large-leaved jointweed	
524	Polygonum meisnerianum	Mexican tearthumb	
469	Polypodium dispersa	a polypody	=Pecluma dispersa
470	Polypodium plumula	plume polypody	=Pecluma plumulum
471	Polypodium ptilodon	swamp plume polypody	=Pecluma ptilodon
528	Polyrrhiza lindenii	ghost orchid	=Polyradicion lindenii
530	Polystachya concreta	pale-flowered polystachya	
531	Ponthieva brittoniae	Mrs.Britton's shadow witch	
534	Prescottia oligantha	small-flowered orchid	
558	Remirea maritima	beach star	syn: Cyperus pedunculatus
563	Rhexia parviflora	Apalachicola meadow beauty	
565	Rhipsalis baccifera	mistletoe cactus	
566	Rhododendron alabamense	Alabama azalea	
567	Rhododendron austrinum	Florida flame azalea	
569	Rhododendron chapmanii	Chapman's rhododendron	
575	Rhynchospora megaplumosa	hairy spikelet beakrush	-
578	Roystonea elata	Florida royal palm	
579	Rudbeckia nitida	St. John's Susan	
581	Ruellia noctiflora	night-flowering wild-petunia	
586	Salix eriocephala	heart-leaved willow	

587	Salix floridana	Florida willow	
589	Salvia urticifolia	nettle-leafed sage	
592	Sarracenia leucophylla	white-top pitcher plant	
593	Sarracenia minor	hooded pitcher plant	
594	Sarracenia psittacina	parrot pitcher plant	
595	Sarracenia purpurea	decumbent pitcher plant	
597	Sarracenia rubra	red-flowered pitcher plant	
599	Scaevola plumieri	inkberry	
602	Schisandra coccinea	bay starvine	
603	Schizachyrium niveum	scrub bluestem	
605	Schizaea germanii	ray fern	
1518	Schoenolirion croceum	yellow sunnybells	Value for A is questionable
607	Scleria lithosperma	Keys' nutrush	^
611	Selaginella eatonii	pygmy spikemoss	
617	Senna mexicana	Chapman's sensitive plant	
1519	Silene caroliniana	Carolina catchfly	
627	Sphenomeris clavata	wedgelet fern	
629	Sphenostigma coelestinum	Bartram's ixia	
631	Spigelia loganioides	Levy pinkroot	
632	Spiranthes adnata	pelexia	
633	Spiranthes brevilabris	ladies' tresses	
634	Spiranthes costaricensis	Costa Rican ladies' tresses	
635	Spiranthes elata	tall neottia	
636	Spiranthes laciniata	lace-lip ladies' tresses	
637	Spiranthes longilabris	long-lip ladies' tresses	
639	Spiranthes ovalis	lesser ladies' tresses	
640	Spiranthes polyantha	Ft. George ladies' tresses	
642	Spiranthes torta	southern ladies' tresses	
643	Spiranthes tuberosa	little pearl-twist	
645	Stachydeoma graveolens	mock pennyroyal	
646	Stachys crenata	shade betony	
1520	Stachys lythroides	hyssop-leaved hedge-nettle	
647	Stachys tenuifolia	narrow-leaved betony	
648	Staphylea trifolia	bladder nut	
650	Stenorrhynchos lanceolatus	leafless beaked orchid	
651	Stewartia malacodendron	silky camellia	
652	Strumpfia maritima	pride of Big Pine	
			Common name changed from 'hidden stylisma'
653	Stylisma abdita	hidden stylisma	to 'Austin's dawn flower' 2015
660	Taxus floridana	Florida yew	
664	Tectaria fimbriata	least halberd fern	
662	Tectaria heracleifolia	broad halberd fern	
666	Tephrosia mohrii	pineland hoary pea	
668	Tetrazygia bicolor	tetrazygia	
669	Thalictrum cooleyi	Cooley's meadow-rue	
670	Thalictrum thalictroides	rue anemone	
671	Thelypteris augescens	abrupt-tipped maiden fern	
672	Thelypteris grandis	Collier County maiden fern	
673	Thelypteris patens	gridscale maiden fern	

674	Thelypteris reptans	creeping star-hair fern	
675	Thelypteris reticulata	lattice-vein fern, cypress fern	
676	Thelypteris sclerophylla	stiff star-hair fern	
677	Thelypteris serrata	dentate lattice-vein fern	
681	Tillandsia balbisiana	inflated wild-pine, reflexed wild-pine	
			Listed commercially exploited '93. Now
682	Tillandsia fasciculata	common wild-pine,stiff-leaved	endangered due to Metamasius weevil attacks.
685	Tillandsia pruinosa	fuzzy-wuzzy air plant	
			Listed commercially exploited '93. Now
687	Tillandsia utriculata	giant wild-pine	endangered due to Metamasius weevil attacks.
686	Tillandsia valenzuelana	soft-leaved wild-pine	
688	Tipularia discolor	crane-fly orchid	From Endangered to Threatened 2012
689	Torreya taxifolia	Florida torreya	
694	Trichomanes holopterum	entire-winged bristle fern	
695	Trichomanes krausii	Kraus's bristle fern	
696	Trichomanes lineolatum	lined bristle fern	
698	Trichomanes punctatum	Florida bristle fern	
700	Trillium lancifolium	lance-leaved wake robin	
704	Triphora trianthophora	three-birds orchid	
714	Vanilla barbellata	worm-vine orchid	
716	Vanilla mexicana	unscented vanilla	
717	Vanilla phaeantha	leafy vanilla	
718	Vanilla planifolia	commercial vanilla	
719	Veratrum woodii	false hellebore	
720	Verbena maritima	coastal vervain	
721	Verbena tampensis	Tampa vervain	
725	Vicia ocalensis	Ocala vetch	
726	Viola tripartita	yellow violet	Formerly incorrectly listed as V. hastata
732	Warea carteri	Carter's mustard	
738	Xanthorhiza simplicissima	yellowroot	
741	Xyris longisepala	karst pond yellow-eyed grass	
743	Xyris scabrifolia	Harper's yellow-eyed grass	
749	Zamia spp.	coontie	Commercially Exploited list
750	Zanthoxylum americanum	prickly-ash	
751	Zanthoxylum coriaceum	leathery prickly-ash	
752	Zanthoxylum flavum	yellowheart	
753	Zephyranthes atamasco	rainlily	
754	Zephyranthes simpsonii	Simpson's zephyr-lily	
755	Zephyranthes treatiae	Treat's zephyr-lily	
756	Zigadenus leimanthoides	coastal death camas	
757	Ziziphus celata	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 Boechera 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 gonocarpos, 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 fasciculate, 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:

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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 Erigonum 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