

University of Miami Coral Gables

Tree Care Plan



11/20/2017

Campus in a Tropical Garden

The University of Miami Coral Gables campus has a unique landscape character with elements designed specifically for its climate and natural setting. It conveys a positive and unified sense of place, coherency, and consistency. Its thoughtful landscape planning has become renown worldwide as a "campus-in-a-tropical garden".

INTRODUCTION

The campus enjoys a number of important vegetated areas which include Lake Osceola, The Gifford Arboretum, the Ibis Natural Trail, the Palmetum, the Florida Keys Arboretum and the Butterfly Garden. Our goal is to preserve and enhance the following important features:

- 1. Lake Osceola, the central and distinctive body of water which should be surrounded with tropical vegetation. Natural edges should be preserved, and Native landscaping surrounding it should be promoted.
- 2. The lbis Natural Trail is an invitation for students, faculty and staff to discover our dense canopy and vegetation.
- 3. The Palmetum: Established in cooperation with Fairchild Tropical Garden and the Montgomery Botanical Center, the University's palmetum includes nearly 800 palms and cycads that are native to South Florida or represent distinct, rare, or endangered species from 38 nations.
- 4. The Florida Keys Arboretum: This arboretum highlights trees and shrubs native to the Florida Keys as well as some species characteristic of pineland regions.
- 5. The Butterfly Garden: Located along the Ibis Walking Trail behind Eaton Residential College, the Butterfly Garden is a living laboratory. The garden is home to some 23 different varieties of plants and attracts butterflies such as the monarch, sulfur, and brush foot, as well as the zebra longwing, Florida's state butterfly.
- 6. The Gifford Arboretum is part of the Department of Biology and it is managed by its Director with advice from an Arboretum Committee which includes faculty, students, administrators, and community members. The Arboretum contains a diverse collection of over 650 trees and shrubs representing over 500 species from every continent except Antarctica. The collection is maintained for purposes of education and research, as well as to inspire interest in tropical plants and a better understanding of their importance.



University of Miami Coral Gables

CAMPUS IN A TROPICAL GARDEN

Standard 2

1- PURPOSE

The goal of the University of Miami Tree Care Plan is to establish and highlight good and sustainable landscaping practices on our main campus: 1535 Levante Ave, Coral Gables, FL 33146.

The general purpose of the plan is to guarantee that the standards of beauty, sustainability and environmental stewardship are respected and applied on our campus landscape.

Specific objectives of this plan are:

- Use of Native plants or low-maintenance plant species
- Administer environmentally sound arborist practices to enhance and maintain the campus landscape.
- Increase species diversity and tree canopy.
- Develop environmentally friendly landscape designs to conserve energy and water, reduce the urban heat island effect on campus, and promote improvements in air quality.
- Protect existing campus canopy during construction and renovation projects.

2 - RESPONSIBILITY

UM Facilities Management Department will manage the Coral Gables Campus Tree Care Plan in partnership with the Campus Tree Advisory Committee members.

Standard 1

3 - CAMPUS TREE ADVISORY COMMITTEE

The committee is comprised of students, faculty, staff, and community partners. The committee will meet twice a year to review progress on yearly objectives. The committee responsibilities will include: providing suggestions for improvements of the campus landscape and the Tree Care Plan; organizing an annual Arbor Day celebration and service learning projects; increasing tree value awareness throughout the university community, and ensuring that UM maintains its Tree Campus USA certification each year. Members will be nominated and approved by standing committee members. Here is the list of our committee members:

Name	Status	Title	Email
Stephen D. Pearson	Staff	John C. Gifford Arboretum Director	sdpearson@bio.miami.edu
Teddy Lhoutellier	Staff	Sustainability Manager	teddyl@miami.edu

C V.	Cr. ((
Son Vo	Staff	Sr, Manager for Contract	s.vo@miami.edu
		Admin, Contract Administration	
Laura Meintje	Staff	GCA Grounds-Landscaping Manager	<u>Imeintjes@gcaservices.com</u>
Dr. Donald B. Olson	Faculty	Professor & Assoc. Dir. Of Undergrad	dolson@rsmas.miami.edu
		MS, Center for Ecosystem Science and	
		Policy, Leonard and Jayne Abess	
Dr. Terri Hood	Faculty	Professor & Assist. Dir. of Undergrad	thood@rsmas.miami.edu
		Program, Center for Ecosystem	
		Science and Policy, Leonard and	
		Jayne Abess	
Gina Maranto	Faculty	Director of Undergraduate Programs,	g.maranto@miami.edu
	,	Center for Ecosystem Science and	
		Policy, Leonard and Jayne Abess	
Janet Gavarrete	Staff	Asso. Vice President - Campus Planning	<u>igavarrete@miami.edu</u>
		Real Estate & Facilities	
Alicia M. Corral	Staff	Campus Planner	acorral@miami.edu
		Real Estate & Facilities	
Dr. Carol Horvitz	Faculty	Professor of Biology	<u>carolhorvitz@miami.edu</u>
Talula Thibault	Student	Ecosystem Science and Policy	tbt18@miami.edu
-			
Dr. John Cozza	NGO	Vice President of Education	<u>iohncozza@yahoo.com</u>
		TREEmendous Miami	
Helene H. Valentine	Staff /	Director, Research Support- UM Miller	Hvalentine2@med.miami.edu
	Community	School of Medicine / South Miami	
	,	Landscape Committee board member	
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4 - TREE CARE POLICIES

All trees, shrubs, and turf areas are maintained according to landscape management best practices. Those practices include proper and sustainable fertilization, irrigation, and pest management on campus grounds. These guidelines allow us to guarantee the esthetics as well as the health of our landscape while reducing our environmental impact on local ecosystems.

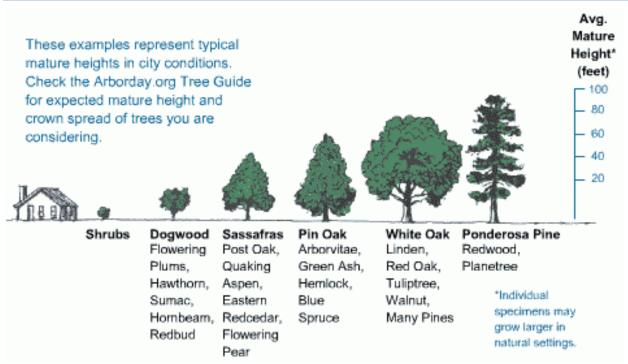
Plant Selection

As stipulated in the South Florida Water Management District's Xeriscape Plant Guide II and the Miami-Dade County Landscape Ordinance, chapter 18 A, our choice of plant species is guided by the Florida Friendly Landscaping (FFL) principles. Native and Low maintenance, drought tolerant species are always preferred. Our irrigation systems also follow FFL's recommendations, conserving water and promoting soil integrity everywhere possible. The "Right tree in the Right place" concept is applied in our guidelines to avoid any damage to existing and future infrastructure.

All plant material needs to be Florida No. 1 or better as specified within "Florida Grades and Standards for Nursery Plants" from the State of Florida Department of Agriculture and Consumer Services. (See Annex III)

"The Right Tree in the Right Place"

This concept shall be applied for all trees planted in order to avoid damages such as clogged sewers, cracked sidewalks and power service interruptions. It shall also address specific conditions such as drainage, soil quality, and site orientation.



http://www.arborday.org/trees/righttreeandplace/size.cfm

Tree Species Inventory and Selection

Tree selection shall strive for use of Florida native or "Florida-Friendly" species as much as possible. The Florida-Friendly plant database can be found at http://www.floridayards.org

The University shall not use category I exotic species, and shall avoid or use judiciously, category II exotic species, as listed within the Florida Exotic Pest Plant Council's Invasive Plant Species List (Annex II).

Tree selection shall address the following factors: Species diversity, Maintenance cost, urban environment tolerance, Wind tolerance, and Invasive replacement

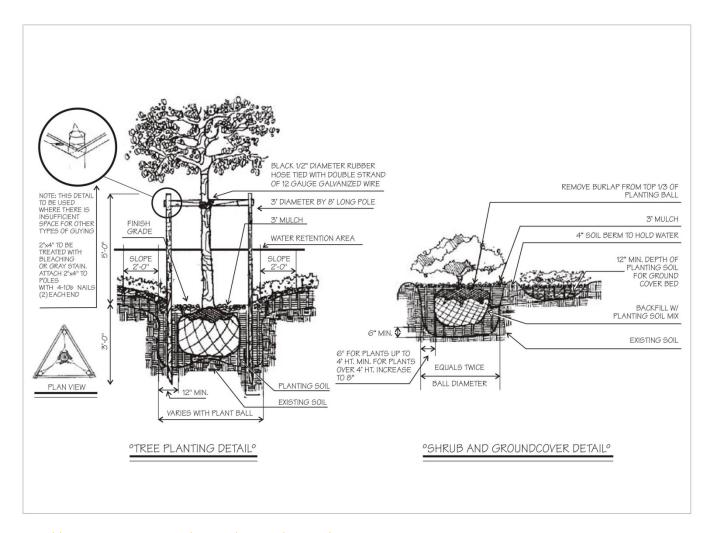
See our Tree Species Inventory in Annex I for a complete list of species on campus.

Tree Planting

Here are the general requirements for Tree planting in UM landscaping Design standards based on the Miami Dade County Landscape Design Manual (See illustration and Annex III):

- Groundcovers or low growing shrubs shall be used wherever possible to reduce landscape maintenance. Examples include sloped areas, replacement of turf grass in inaccessible or highly shaded areas, erosion prone areas, and areas where mulch washes away or is otherwise difficult to maintain, such as parking lot islands.
- A minimum tree planting area or island shall be ten (10) feet wide by ten (10) feet long.
- Trees shall be located a minimum of ten (10) feet from any underground utility to remain and a minimum of fifteen (15) feet from any overhead utility to remain unless it can be demonstrated that the mature size of the tree will not interfere with the utility.
- Landscape overhanging walkways and plazas to be clear overhead = (10) feet min.
- Trees with circling or girdling roots will not be permitted.
- Install planting soil and amendments as outlined in Division 32 91 00 of UM Building Standards.
- Planting shall be performed by a licensed contractor to the expected standards of care of landscape contractor professionals within the state of Florida.
- Trees and palms shall be planted such that two (2) inches of the root ball is above finished grade.

- Design professional shall be responsible for providing staking and bracing details specific to tree and palm sizes and types for review and approval prior to installation.
- Braces for palms shall be made of sound, new pressure preservative-treated softwood, free of knots, holes, cross grain, and other defects, 2 by 4 inches or 4 by 4 inches, and sized appropriately for the size of the palm.
- Tree staking systems shall use a polypropylene material in green, Arbor Tie by Deep Root, or other approved equal protective material where in contact with branches.



http://www.miamidade.gov/zoning/library/studies/landscape-manual-new-draft.pdf - p67

Irrigation and Watering

Proper Irrigation shall be provided for all proposed landscape, unless otherwise directed by UM Project Manager according to plant requirements, recent rainfall, temperature extremes and soil moisture.

- Water use for irrigation must comply with the Miami-Dade County and SFWMD regulatory requirements as well as with the University's water use agreement with the SFWMD.
- All efforts should be made to connect irrigation to existing well water sources on the University campus.
- Potable water may only be used for irrigation with prior authorization by the UMBS Committee.

- Reclaimed or reuse water shall be utilized as much as possible for irrigation. If used, follow requirements
 of Florida Statutes Chapter 62- 610, "Reuse of Reclaimed Water and Land Application"
- Drip irrigation shall be utilized as much as possible.
- The irrigation system shall be regulated by a rain-gauge or a moisture sensor.
- Irrigation to provide 100% "head-to-head" coverage.
- Rain Bird brand components or equal shall be specified for all irrigation systems unless otherwise authorized by the University.
- Trees and plants shall be watered in accordance with specifications as provided on the irrigation plan I-5. (See Annex III)

Mulching

All plants shall be mulched on a yearly basis or as needed to maintain healthy growth and reduce weed growth. Our maintenance plan follows the best practices stipulated in the Miami Dade Landscape Design Manual

- Mulch shall be organic wood mulch, free from deleterious materials and suitable as a top dressing for planting bed areas.
- Wood mulch shall be used for planting bed areas, as opposed to gravel or other inorganic mulches, as wood mulch inhibits weed germination and growth, holds in soil moisture, moderates soil temperature fluctuations (reducing plant stress), improves the soil fertility through the decomposition of organic material, and decomposes at a moderate rate (reducing maintenance).
- Mulch shall be installed at a depth of 2"-4" and shall be pulled back a minimum of 3 inches from the trunk of the tree or shrub so that the trunk and root flare are exposed.
- Mulch shall be Florimulch by Forestry Resources, Inc. or approved equal Grade A Melaleuca mulch that is clean, bright, and free of weeds, moss, sticks, and other debris.
- Cypress and red color mulch will not be accepted. (See Annex III)

Pruning

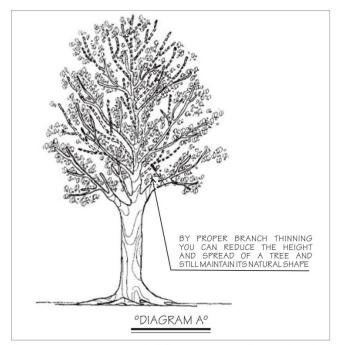
The correct pruning of shade trees is critical both for safety as well as for aesthetic reasons. The following criteria are adopted from the ANSI A-300 and are recommended as specifications to be included in landscape plans.

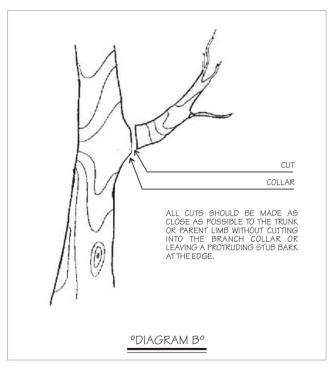
Class 1 - Fine pruning shall consist of the removal of dead, dying, diseased, decaying, interfering, obstructing, and weak branches, as well as selective thinning to lessen wind resistance. The removal of such described branches is to include those on the main trunks, as well as those inside the leaf area. An occasional undesirable branch up to one-half inch in diameter, as described above, may retain within the main leaf area to its full length when it is not practical to remove it. (Diagrams A and B)

Class 2 - Standard pruning shall consist of the removal of dead, dying, diseased, decaying, interfering, obstructing, and weak branches, as well as selective thinning to lessen wind resistance. The removal of such described branches is to include those on the main trunks, as well as those inside the leaf area. An occasional undesirable branch up to one inch in diameter may remain within the main leaf area where it is not practical to remove it.

Class 3 - Hazard pruning is recommended where safety considerations are paramount.

Class 4 - Crown reduction pruning shall consist of the reduction of tops, sides or individual limbs. It involves the removal of a parent limb or dominant leader at the point of attachment of a lateral branch.





Fine pruning is recommended for premium quality work with an emphasis on aesthetic considerations in addition to structural integrity.

http://www.miamidade.gov/zoning/library/studies/landscape-manual-new-draft.pdf - p92

5 - PROTECTION GUIDELINES DURING CONSTRUCTION PHASES

Tree Protection: All existing trees and specimen plants to remain shall be protected during construction activities.

- Tree barricades shall be used to protect specimen plants and trees to remain larger than four (4) inches in diameter.
- Barricades shall be four feet high, minimum, and constructed of 2" x 4" rails with 4" x 4" posts, minimum. Barricades shall enclose the specimen plants, trees, or collective tree group's drip line or a fifteen (15) foot by fifteen (15) foot area, whichever is less. No stockpiling of debris, trash, or materials shall be permitted within the barrier area.
- No parking of vehicles or vehicular/equipment traffic shall be permitted within the drip line area or within the tree barricade once erected.
- No landscape planting shall occur prior to a fully functioning irrigation system to support it.
- Each tree proposed for transplanting needs to be inspected by a certified arborist, as certified by the International Society of Arboriculture, for recommendation of the tree's general heath and expected success rate of transplanting. Arborist shall prepare report with recommended preparation and relocation procedures and schedule.
- All transplanting and trimming activities shall be performed by or directly overseen by a certified and licensed arborist.
- A tissue test shall be performed on all trees proposed for relocation.
- A soils test shall be conducted at all proposed relocation points of the site.
- All crown and root pruning shall be conducted as per approved transplanting plan and schedule.
- Transplanting activities other than root and crown trimming will not occur within hurricane season, June 1st through November 30.

6 - GOALS AND TARGETS

The long term goals of the UM Tree Campus USA Plan is as follows:

- Preserve and increase the presence of Native species to promote biodiversity and water conservation.
- Preserve and enhance our tree canopy on the Coral Gables campus, and extend this plan to other UM campuses in the future.
- Use our landscaping design strategy as a way to reduce our carbon footprint, selecting trees that sequester more carbon per square foot and provide shading that will have an impact on the cooling needs of our buildings.
- Allow for storm water retention berms, and bio swales when possible. This guideline is part of our water management plan and is intended to also reduce the accumulation of nutrients and pollutants in the runoff to our canals that in turn affect the environmental health of our coastal line.
- Mapping of our Tree inventory, starting with the Arboretum in collaboration with the Geography Dpt.
- An ongoing research project (ECS 301 on multiple semesters Dr Terri Hood) involves the study of nutrient cycling in live oak (Quercus virginiana) using stable isotopes. In particular: 1) potential nitrogen sources signals in N isotopes; 2) nitrogen withdrawal from leaves pre-drop; 3) effects of 1 & 2 on use of oak leaves for mulch and compost
- The Native Habitat Biome located in front of the Arboretum will have all its invasive removed, especially the vines that represent such a threat to our local ecosystems.
- Increase the number of learning service projects at the JC Gifford Arboretum.
- Inauguration of the new Student Government ECO agency "UM Tree"
- Reach out to the community to bring awareness about the necessity of increasing our canopy, especially in disenfranchised areas of our county: Tree Planting events with TREEmendous and other local organizations.
- Integrate new items in our Tree care plan on a yearly basis: for 2018, extend and plant a new area to be included in the Gifford Arboretum. See Project 2018 below.
- Host an annual Arbor Day event on the Coral Gables campus,
- The Medical Campus will start a small butterfly garden along the PAC canal.

7 - TREE DAMAGE AND DISEASE ASSESMENT

Trees susceptible to serious infectious diseases should not be pruned at the time of year during which the pathogens causing the disease or the insect vectors are most active.

- The presence of any disease condition, fungus fruit bodies, decayed trunk or branches, spilt crotches or branches, cracks or other structural weakness shall be reported in writing to a supervisor and/or the owner, and corrective measures recommended. Native tree species survive better than non-native species.
- The stress to trees as a result of a hurricane damage initiates outbreaks of pests such as bark beetles, ambrosia beetles, sawyers, plant hoppers, and blue stain fungi that preferentially attack stressed damaged trees. These secondary problems have led to the death of trees, including palms, even several years after the storm.
- In addition, after such an event, many trees are damaged internally due to vibration and twisting experienced during the period of high winds. Some of these may die over time. Only 7% of trees studied (Annex III) caused damage to property. Live oak (Quercus virginiana) has exceptional wind resistance here, and in other hurricane prone southern areas. Palms are ranked second in wind resistance. It is important in

urban areas for tree plantings to have species, age, and size diversity. (See annex III)

8 - PROHIBITED PRACTICES

Tree Preservation and Vegetation removal

- Tree removal permits or natural forest community vegetation removal permits are required prior to the removal of trees or any vegetation in a natural forest community pursuant to City Code Chapter 82 and Miami-Dade County, Chapter 18A. (See Annex IV)
- Desirable landscaping shall be preserved in its natural state to the maximum extent possible. Desirable native plant materials and well adapted exotic plant materials shall be preferred in plant selection.
- Existing trees required by law to be preserved on site and that meet the requirements of Section 18A-6(C), Miami-Dade County Code, may be counted toward fulfilling the minimum tree requirements.
 (See Annex III)

Plant Materials

Plants installed should conform to, or exceed, the minimum standards for Florida Number One as provided in the most current edition of "Grades and Standards for Nursery Plants" prepared by the State of Florida Department of Agriculture and Consumer Services.

Vegetation requirements shall be installed in accordance with all of the following:

- Large shade trees. Large shade trees shall have a mature height of greater than twenty-five (25) feet and an average mature spread of crown of greater than fifteen (15) feet.
- Substitutions. Palms trees or medium shade trees as described in below Section 6(b) (ii) may be substituted at three-to-one (3:1) ratio. A maximum of twenty-five (25%) percent of the total may be palm varieties. (See Annex IV)
- A minimum of thirty (30%) percent of the total trees shall be native species.
- Palm trees and medium shade trees. A minimum of thirty (30%) percent of the total trees shall be native species.
- Shrubs. All shrubs shall be a minimum of eighteen (18) inches in height at planting, with a maximum average spacing of twenty-four (24) inches on center. Shrubs shall be planted and maintained to form a continuous, unbroken, solid, visual screen within a maximum of one (1) year after time of planting. A minimum of thirty (30%) percent of total shrubs shall be native species.

Tree Abuse

All trees shall be trimmed in accordance to Miami-Dade County tree preservation code. Any type of tree abuse, hat racking, topping or heading shall be prohibited except in emergency situations. Contracts with vendors to perform tree services or building construction/maintenance services shall include fines for violating provisions of this plan. Damage to campus trees caused by students, faculty or staff shall be treated as acts of vandalism and punished accordingly.

10 - COMMUNICATION STRATEGY

The Facilities Management Department will make sure those guidelines are applied to maintenance of landscaped areas performed by UM employees and contractor's employees alike. The Tree Care Plan and the Tree Campus USA certification will be promoted on campus and in the community to spread best practices in sustainable urban forestry. The Plan will serve as a platform for discussion about sustainability and landscaping on our campus.

Here are some of our projected outreach campaign highlights:

- Organize an Arbor Day observance celebration and invite students, faculty and staff.
- Develop Service Learning projects that will involve students, faculty and staff.
- Partner with community organizations and government such as TREEmendous, Florida Forest Service, City of South Miami, City of Coral Gables, Florida Power and Light, Miami-Dade County Department of Regulatory and Economic Resources (RER), Citizens for a Better South Florida, Earth Learning, Fairchild Tropical Botanic Garden, and others.
- Organize Conferences and lectures by local experts for Earth Week, Arbor Day, Week of Well Being, Gandhi Day or U Serve Day.
- Promotion of native landscaping activities through student clubs' involvement.
- Promotion of the right tree in the right place and the importance of tree canopy in the community.
- 2018 project: Post Irma re-planting and expansion of the Arboretum. This project will involve the addition of more than 3000 sqft of new trees, including a research and educational green house, a pond, and a sustainable food garden.

Annex I: http://greenu.miami.edu/_assets/pdf/TreeInventory2017

Annex II: http://greenu.miami.edu/assets/pdf/prohibited-plant-species.pdf

Annex III: Miami Dade County Landscape Code and Manual

Annex IV: City of Coral Gables Development Standards



Standard 3 EXPENDITURES:

Tree Planting and Initial Care	
(Tree purchases, labor and equipment for planting, planting materials, staking, watering, mulching, competition control)	\$ 250,000.00
Campus Tree Management	\$ 2,370,091.00
(Pruning, public education, professional training, association memberships, campus tree inventory, pest management, fertilization, tree removals, Invasive removal)	
Volunteering hours: # of students: 1,330h x \$18/h	\$ 23,940.00
TOTAL:	\$ 2,644,031.00

Number of trees planted:

CG campus= 459 and Community tree planting= 430 // Total= 889 trees planted

Number of trees maintained:

CG campus= 9,502 and Community trees maintained= 3,700 // Total= 13,202 trees maintained > removal of invasive, pruning, clearance requirements

Volunteering hours:

260 volunteering hours on campus + 1,070 volunteering hours in the community // Total= 1,330 volunteering hours

- Full Time Student population: 16,213

- % of tree canopy: 2018 student project

Standard 4

Arbor Day Observance:

Arbor Day Observance in the Gifford Arboretum on April 19 at 5.00 pm.

Steve Pearson, Director of the Gifford Arboretum invites you to a tour of the Arboretum at 5 pm, and at 6 pm, to a beautiful Concert by the World Peace Ensemble from the Frost School of Music.

Earth Day – Hug the Lake: Steven Pearson, Director of the UM Gifford Arboretum, received the inaugural Environmental Bosey Foote Prize from President Frenk during the launching of Hug the Lake on April 21st. Steven has been serving, caring and being the guardian of our tree jewel at UM for more than 10 years.

Standard 5

Service Learning Projects in 2017:

- **February 18th from 9 am to noon** at Virginia Key Beach Park Students from UM helped with maintenance work: removal of rampant growing exotics such as Brazilian pepper and Australian pine from the hammock area of the park where TREEmendous Miami has been planting thousands of trees to re-establish a maritime hammock.
- **April 1st from 9 am to 1 pm at** University of Miami's Taylor Alexander Biodome, an area directly across from the south end of the Gifford Arboretum: we planted 400 Florida native trees and shrubs in a significant restoration effort.
- April 22nd from 9 am to 1 pm: Workday at the Historic Virginia Key Beach Park. We planted the foundation landscaping around the cottage area, "Little Hope Town: one hundred 3-gallon sized trees planted and fifty 1-gallon dune plants and shrubs.
- **July 29**th from 9 am to 12 pm: We put in 30 big sabal palms about 12 to 15 feet from the Virginia Key Beach Park entrance fence.
- August 19th from 9 am to 1 pm: We planted about 250 trees and shrubs along the fence and in between the previously planted palms at Virginia Key Beach Park.
- October 28th 10 am to 2 pm Gandhi Day at the University of Miami: Invasive removal at Virginia Key Beach Park where we have been working so hard to restore the maritime hammock that once existed there.

2017 Educational and recreational projects:

http://www.bio.miami.edu/arboretum/Calendar.html

- **Wednesday, Feb. 1**st: Mr. Charles Kropke show his Emmy Award winning film "The Unseen Everglades: Inside a Legendary Wilderness" at 7 PM in Cox Science
- **Tuesday, Jan. 31st**: "Biodiversity and Radiation of Darwin's Finches in the Galapagos" by Peter and Rosemary Grant of Princeton University.

- **February 15th, 2017**: A musical performance in the Gifford Arboretum by the Stamps Woodwind Quintet
- **February 16th** at 1:30 PM: Chris Rollins, the former Director of the Redland Fruit and Spice Park and Steven Pearson Director of the Gifford Arboretum lead a tour of the fruit and other edible plants of the Arboretum, a list that includes 111 species in my count.
- **Wednesday, March 1:** "Integrated Plant Conservation: Garden Genetics Close the Loop" by Dr. M. Patrick Griffith, Executive Director of the Montgomery Botanical Center
- March 22nd Music in the Arboretum with the Big City Folk Band performing
- **April 3 at 7 PM:** 29th Annual John C. Gifford Arboretum Lecture: "Mutants in our Midst: Darwin, Horticulture, and Evolution" by Dr. William (Ned) Friedman of Harvard University. Dr. Friedman is Harvard's Arnold Professor of Organismic and Evolutionary Biology, as well as the Director of its Arnold Arboretum. We also had the Gifford Arboretum 2017 Plant of the Year available for distribution: Locustberry (*Byrsonima lucida*) a small tree that benefits native birds and butterflies.
- Wednesday, April 19: Arboretum Tour at 5 PM; Music in the Arboretum of the season at 6 PM.
- **April 17 at 6:30 PM: "Are We All Neanderthals?"** a Lecture by Dr. Carlos Bustamante of the Stanford University School of Medicine
- **Sunday, April 30 at 4:30 PM**: Arboretum Director Steve Pearson will lead a tour of "What's New and Interesting at the Arboretum."
- Wednesday, May 3 at 7:30 PM: Jason Lopez, Living Collections Manager of Fairchild Tropical Botanic Garden will present "Bahamian Plants and their Legacy at Fairchild."
- **Wednesday, October 4, 2017 at 7 pm:** UM Professor Dr. Kenneth Feeley will present a program on "The effects of climate change on tropical forests, or, Where will the rainforest be in 100 years?"
- **Wednesday, November 1, 2017** at 7 pm: Mr. Murray Corman, renown plant expert and owner of Garden of Delights nursery will present "A Survey of Fruit YOU Can Grow."
- October 26th at 5:30 PM: "Sacred and Magical Trees of the Gifford Arboretum." By Dr John Cozza from FIU. The tour started from the semi-circle stone bench in the Arboretum
- **Wednesday, Nov. 15 at 5pm**: Arboretum Director Steve Pearson will lead a tour of "What's New and Interesting at the Arboretum."
- Wednesday, Nov. 15 at 6pm: Music in the Arboretum the Sam Feinstein Folk Band