

Ramped Up Rapid Fire!

Dynamic by Design

Powered by PechaKucha

Creative success stories from small, university, and large gardens that display the roles art, design, and planning play in our public garden world.

June 20, 2016







POWERED BY

Pechalucha 20 × 20 IMAGES SECONDS

PechaKucha.org

DEVISED & SHARED BY KLEIN DYTHAM ARCHITECTURE

One-off events that use the PechaKucha 20x20 format

PechaKucha.org







Bob Brackman & Cindy Tyler San Antonio Botanical Garden

The Making of The Family Adventure Garden at San Antonio Botanical Garden



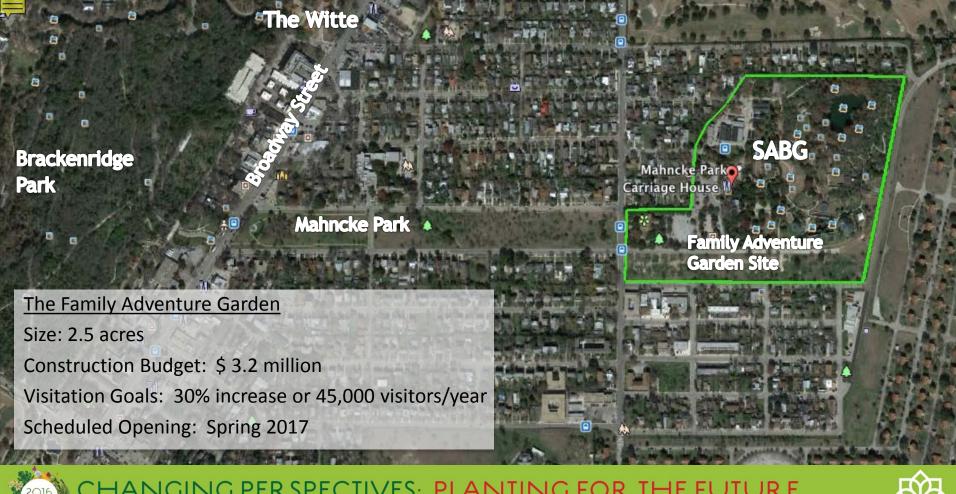




















- **Terra Design Studios** The Family Adventure Garden Lead Designer
- **Ten Eyck Landscape Architects** Entrance Improvement Project & Landscape Architect-of-Record
- Natural Learning Initiative Community Facilitation







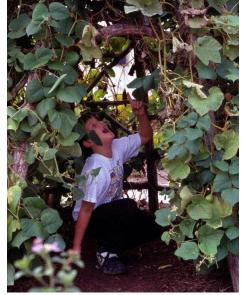
















Why "Messin' with Texas"?













































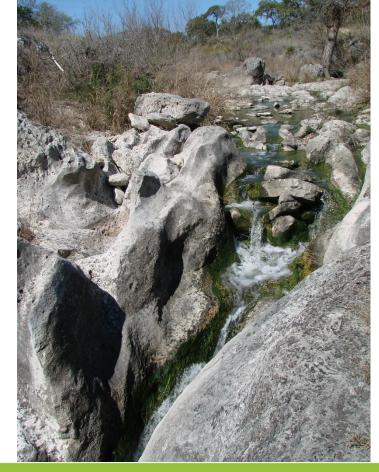






























Enlargement Plan San Antonio Botanical Garden

120'









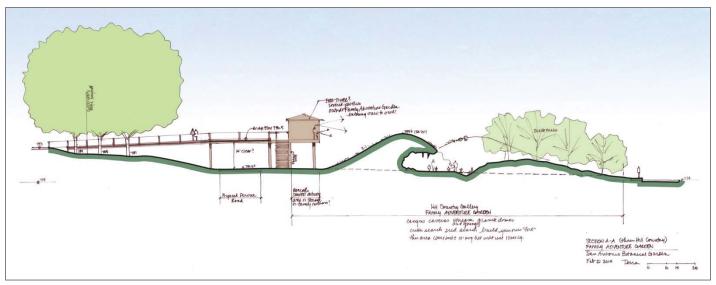




TIE IN LANDFORM THEME THROUGH OUT GAMDEN

CONNECT LANDFORMS WHERE POSSUSLE FOR CONTINUETY







CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE















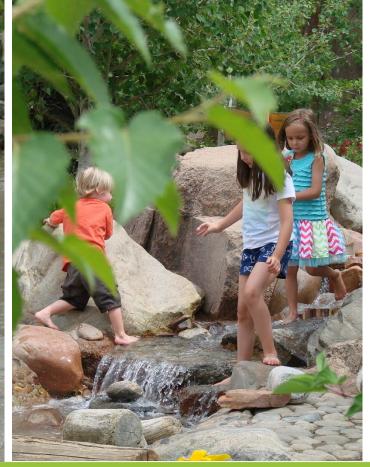
















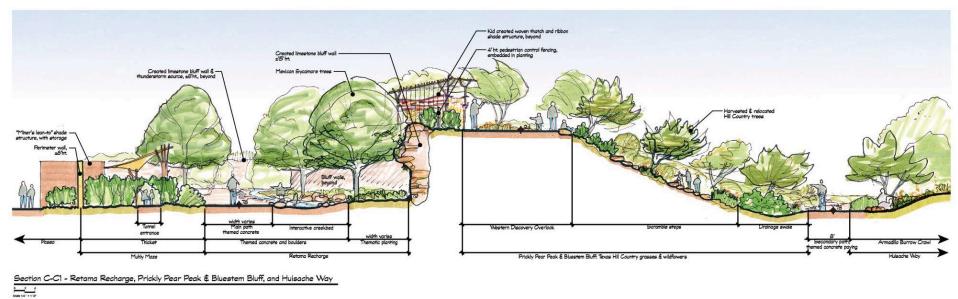










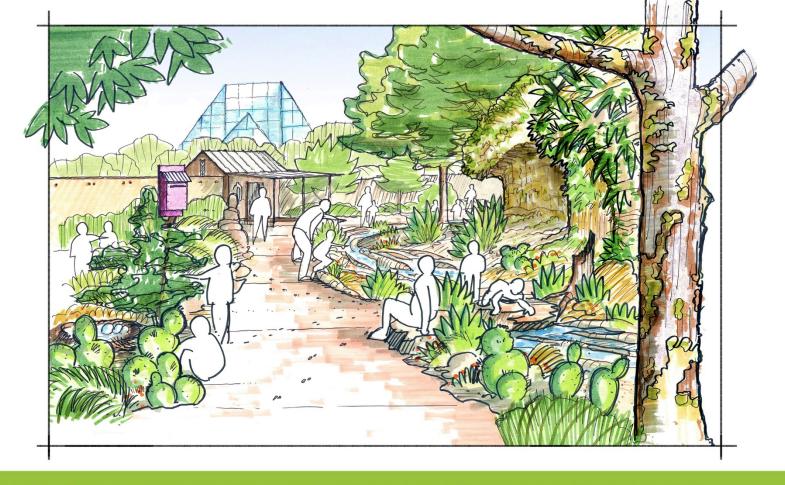






















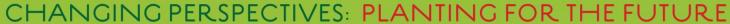


Michelle Conklin Tucson Botanical Gardens













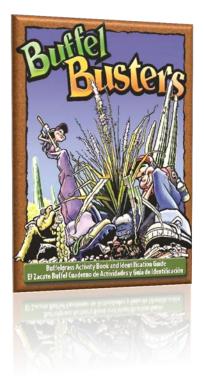




























How do you inspire people to care

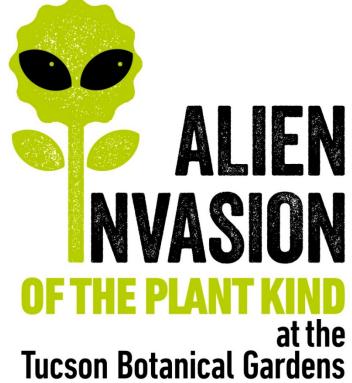












CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE







at the Tucson Botanical Gardens

PARTIERS Make it big

: OF THE OCEAN KIND

: OF THE SPACE KIND

: OF THE ANIMAL KIND







Pop Culture





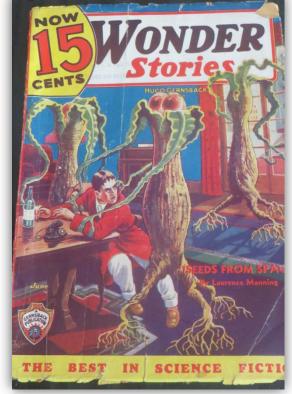












Comic Books









US Customs & Border Protection



CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE

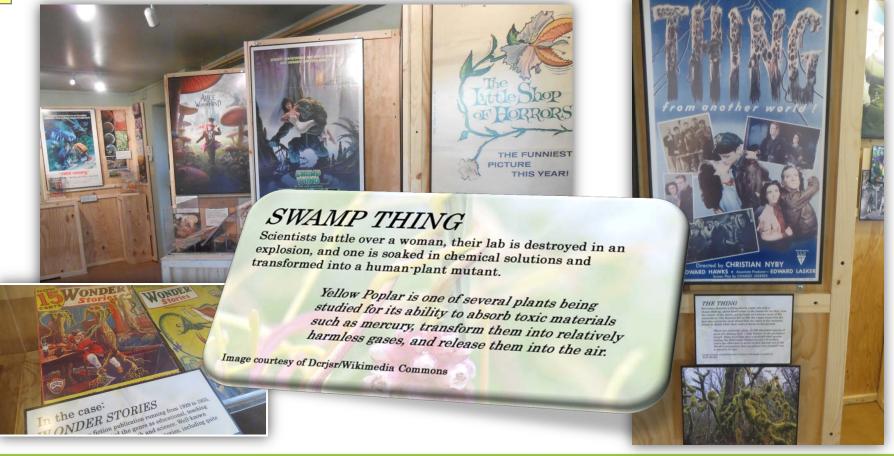












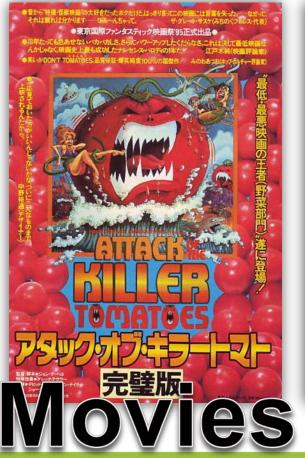






























- We win by being smart, by not helping the enemy get a foothold.
- We abstain from planting certain plants, no matter how beautiful they may be.
- We plant "local" and we support native vegetation.
- When we travel, we are vigilant around potential hitchhikers. We leave them behind.
- When the invader becomes established in our territory,
 we hunt it down, dig it up, and we dispose of it where it can do no harm.
- We start the process in our own backyards. Only then do we take the fight to the enemy's strongholds.











How do invasive species harm our Sonoran Desert?

- · No longer have the rich variety of plants that are unique to our desert
- Without the native blants, many native insects, birds, and animals wouldn't be able
- Some invasive species dry up and are easy fuel for fires which but our homes in danger
- · Loss of native blants may encourage erosion and flooding
- . The desert will begin to look all the same and not as beautiful - a brown mess

Tucson Botanical Gardens 2150 North Alvernon Way Tucson, AZ 85712 (520) 326-9686



Lesson 4: How does an invasive species impact an ecosystem?

Learning Objectives:

- Better understanding of how invasive species can change and harm ecosystel
- Delicate balancing act for ecosystem

Teaching and Activity

In the movies, what happens when Aliens come to earth?

They try to kill everyone!

They try to take our resources!



first stome, let's see if you can identify which of the following are truly plants: show pictures of several obvious proxisionny, ies a see if you can need by which of the following are stay points: said plants and non-plants. For older kids/parents, show pictures of harder examples

Lesson 2: Adaptations

 why did these alien plants survive when they came to earth? Adaptations are behaviors or parts that allow an organism to survive in a given environment.

- nasprations are penaviors or parts triac allow an organism to How do plants live here in Tucson and the Sonoran desert?
- Desert adaptations

Teaching and Activity:

These movie aliens came from far away strange planets - how could they survive when they arrived on earth? Point to the <u>Tellida</u> poster. they survive when they arrived on earthy nomit to the second public.

They were already adapted to live on earth – they could take in our air. and survive our sunshine.

An adaptation is a behavior or plant part that allows a plant to survive. Here in the desert, plants have many adaptations so that they can Here in the gesert, pronts have many disapprounds so that they can survive the hot dry summers. How do survive the hot dry summer?

Let's see how a saguaro does it! Show a picture of out the expandable stem, the modified "leavey" shallow root system.

Ok, future Alien Plant Identification Agents that these cacti have: show a picture of a of possible adaptations for kids to choose

Hello, Welcome, I am agent Frazzle of the "Alien Plant Identification Bureau". We are recruiting (kids/people) to become Alien Plant Identification Agents. To become an agent you need to learn 4 things. earning a stamp of approval each time. At the end, you earn full agent status and your own APIB identification





As you can see, we've had lots of experience with alien plants; movies, TV, books, even comic books all deal with the invasive alien plant that seek to destroy life as we know it!

Point out several movie posters.

But why do we think the monsters in these movies are plants - what characterizes a plant? (gr. simpler ... why do we call these monsters plants and not animals. What makes them plants?

Lesson 1: Plant Heros:

Learning Objectives:

- - o Make their own food (through photosynthesis, CO2 and H2O combine through light energy to create glucose C₆H₁₂O₆) therefore usually green
 - Normally have roots, flowers, leaves, seeds
 - Are sessile (not motile)
- Multicellular with cell walls of cellulose
- What people think are plants, but are not. (Fungi, algae, etc.)
- · What do plants do for me? Do you know you are wearing plants?
- Give us constant source of oxygen

 - o Bottom of the food chain, so we can eat! Supplies wood clothes fuel does

 - o Supplies medicine (digitalis from foxglove for heart, quinine from quinine tree for treatment of malaria, aspirin from white willow to treat pain heart problems)
- Expansion: could plants live somewhere else in the universe? Terraforming, Panspermia

Lesson 3: What are invasive species? Introduce new room

Learning Objectives:

- Know the difference between native plants, non-native plants, and invasive species. Better understand how invasive species travel from place to place.
- Identify several real plants in Tucson and which category they fit into





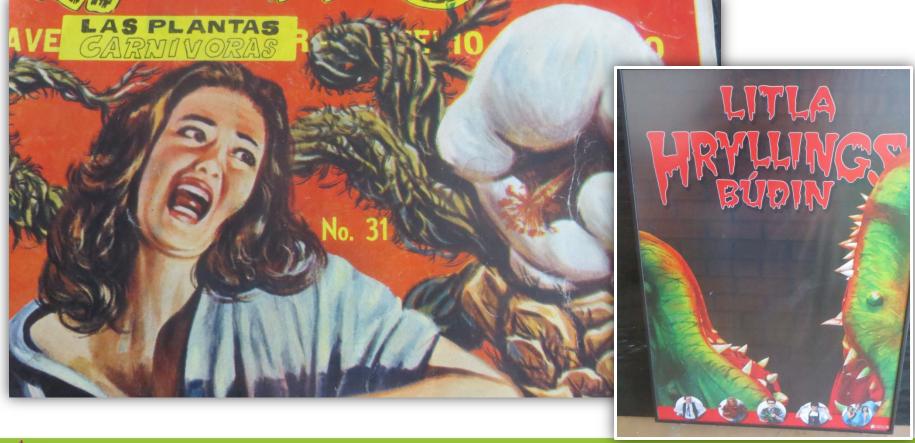


















... explore the world of an imaginary Alien Invasion: of the Plant Kind. Identify the problems and the solutions that take form when real life plants invade places where they do not belong"















Music: http://www.bensound.com







Debby Edelman Lewis and Clark Community College



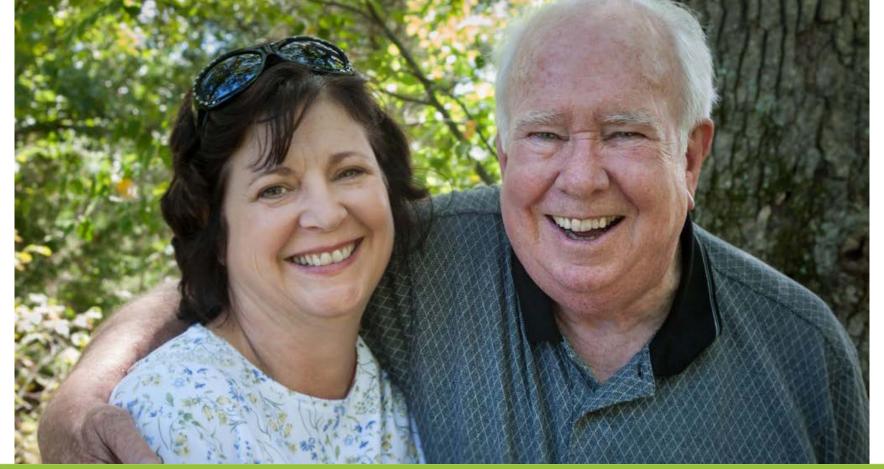






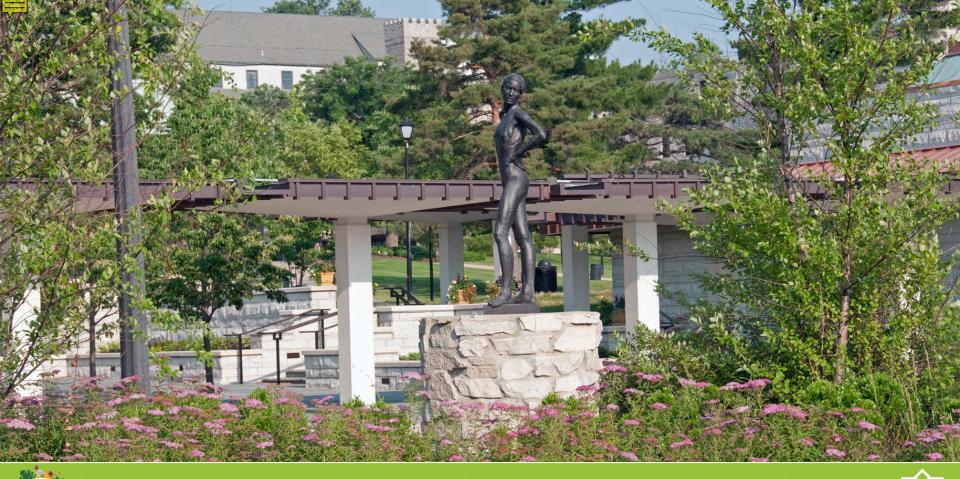




























































































































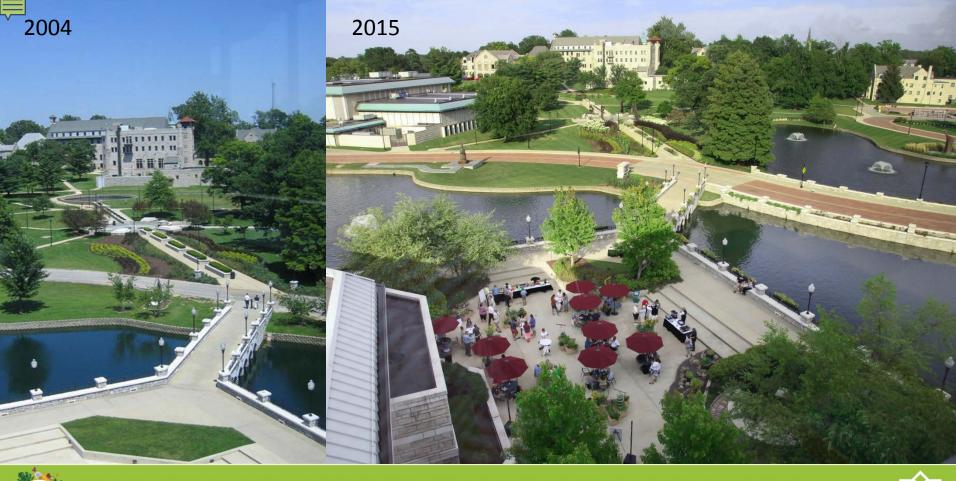




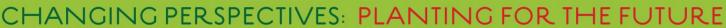












Kathy Gilder Huntsville Botanical Garden





Where Do Dreams Begin? The evolution of a Master Plan

"You don't build it for yourself. You find out what the people want and you build it for them." Walt Disney







First American in Space

May 5, 1961

Embrace your heritage...
Even when it's a strange mix of opposites!



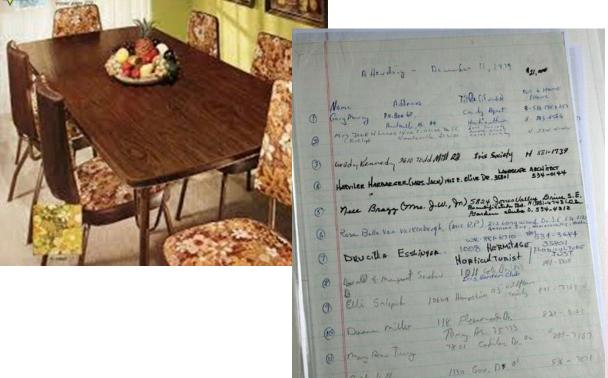




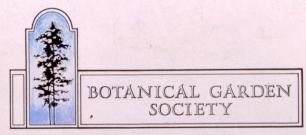








A humble beginning around the kitchen table



THE HUNTSVILLE/MADISON COUNTY BOTANICAL GARDEN

- CURRENT STATUS AND ITS FUTURE -











"Dream no small dreams" was the charge











Ordinary people doing community they love















WE ARE OPEN!



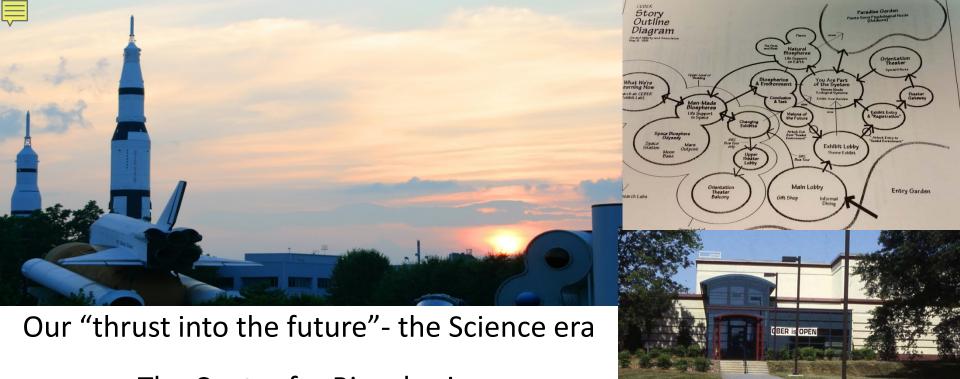
What <u>CAN</u> we do next?!

A PROPOSED SPACE HI-TECH DISPLAY

A new marriage of plant and science geeks!







The Center for Biospherics Education & Research.... aka CBER







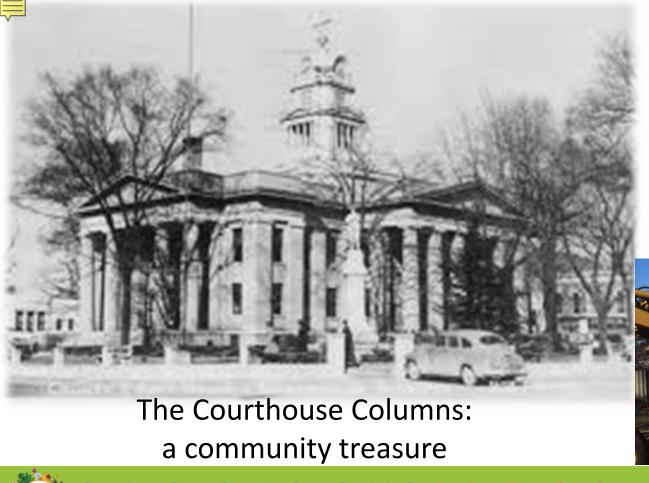
Reality check.... CBER becomes a rental venue and butterflies come to the Garden!











































American public gardens association annual conference





















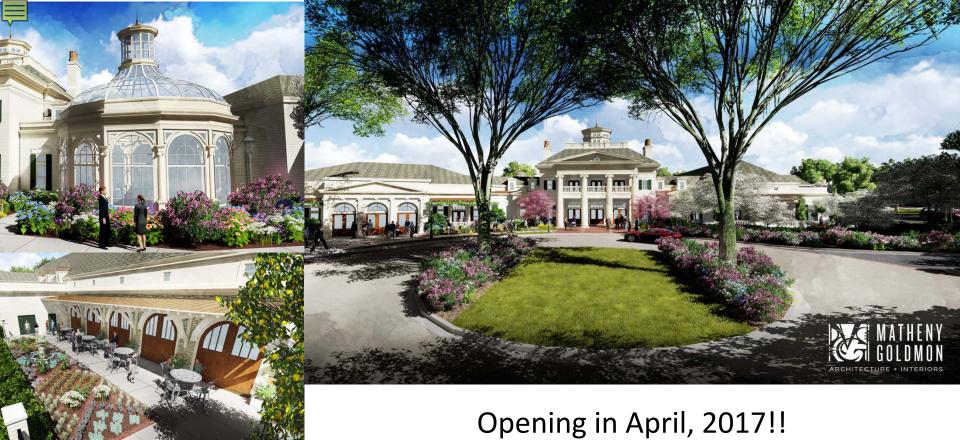






CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE









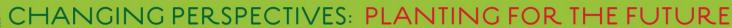






Once again, back to the columns....











CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE



Clem Hamilton The Holden Arboretum

Immersing guests in and above Holden's forest canopy



"We envision a Northeast Ohio in which trees, forests, and gardens provide maximum ecological and social benefits to the region's people and communities."

2009 Strategic Focus Areas

- 1. Growing Trees and Communities
- 2. Conserving Native Forests
- 3. Engaging Children with Plants



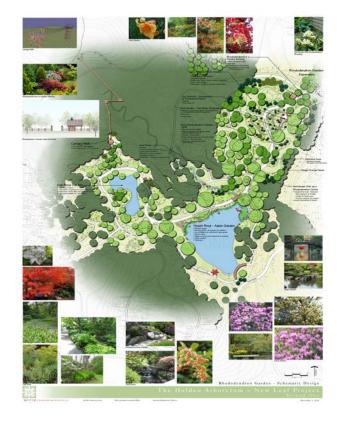






conceptual design started 2009 and schematic design completed in 2010





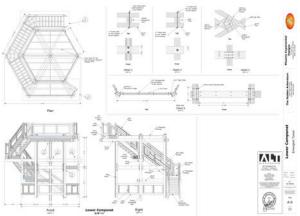












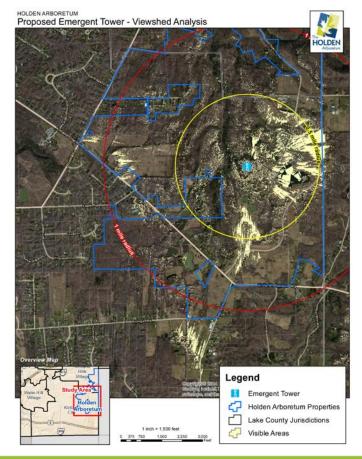
Design concepts, construction drawings, and confirming the right location



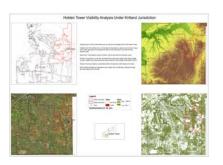








Perform a visibility study in order to acquire a city zoning variance







Same view with scale tower inserted so that it is 24 feet above tree canopy









Helical pile foundations August 2014





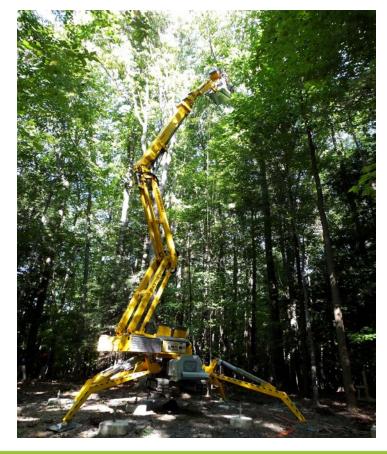








Canopy gap and building the tower's base









Prefabrication and preparation for helicopter day October 2014

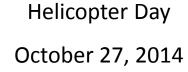




















Done for the winter
November
17, 2014















Finishing the tower April – July 2015









The Murch Canopy Walk May - August 2015









Suspended from cables to build suspension bridges for all people









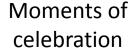


Create a canopy experience for people of all ages and mobility.









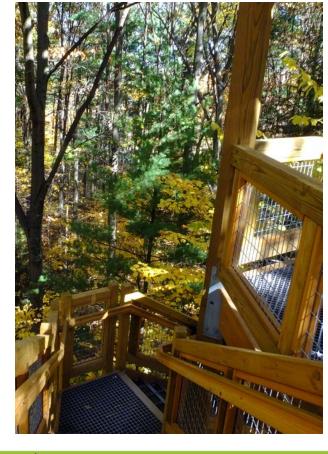
















Climb through the layers of the Forest

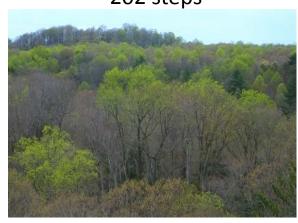








202 steps







120 feet high











Traverse bridges through the canopy



















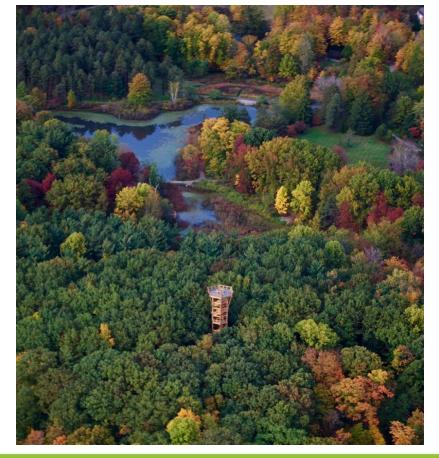
What will you discover when you visit?













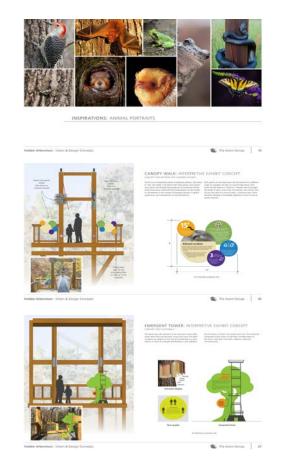
Increased visitation for the months of September and October 2015

- Over 55,000 visitors
- 33,000 visits to the Tower
- 35,000 visits to the Canopy Walk
- nearly 1,000 new members









What's next?

Field testing interpretation that is being developed









Stephanie Jutila Greater Des Moines Botanical Garden



NEW DAY FOR THE GREATER DES MOINES BOTANICAL GARDEN









DES MOINES 2016 RANKINGS

15 of America's Most Incredible Farmers' Markets - Mental Floss, 2016

- #7 Hippest Mid-Sized City in America Gogobot, 2016
- #1 Best City for the Middle Class Business Insider, 2016
- #11 Best Place to Live in the U.S. U.S. News & World Report, 2016
- #4 Best Mid-Sized City to Make a Living MoneyGeek, 2016
- Top 10 Best City to Live and Work Robert Half's Career City Index, 2016

 Full list of rankings available at www.desmoinesmetro.com







- Idea of a horticultural facility in Des Moines conceived
- Friends of the Des Moines Botanical Center 501(c)(3) forms
- December 15 Grand Opening of Des Moines Botanical Center
- Des Moines Water Works assumes management of facility
- January 1 Greater Des Moines Botanical Garden assumes the leadership, operation and future development of the 14-acre site





FOUR COMMUNITY LEADERS

a retired banker
a former Mayor of Des Moines
a former CEO of Iowa's first
construction company

UNITED BY THEIR DEDICATION TO

philanthropy finding a better way community betterment saving the Botanical Center

AND A PASSION

for gardens, plants and natural beauty



MAY JUNE JULY 2012 DSM 121









American public gardens association Annual conference



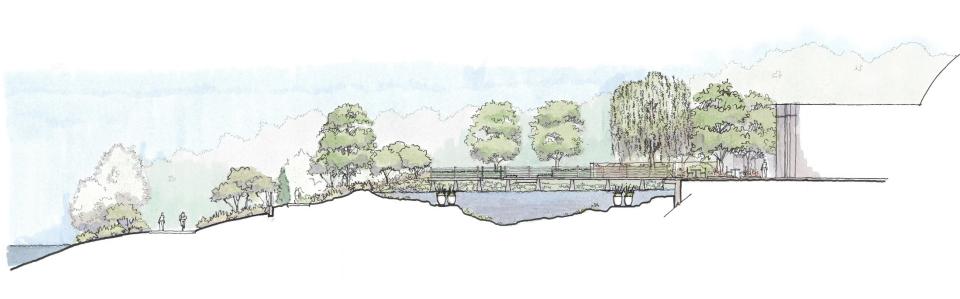




















CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE

2016 **AMERICAN PUBLIC GARDENS ASSOCIATION** ANNUAL CONFERENCE





BY THE NUMBERS...

133%

Increase in annual operating budget since FY13

\$18.6 million

Raised towards multi-phase capital projects

354,000

Visitors to the Botanical Garden since reopening in October 2013







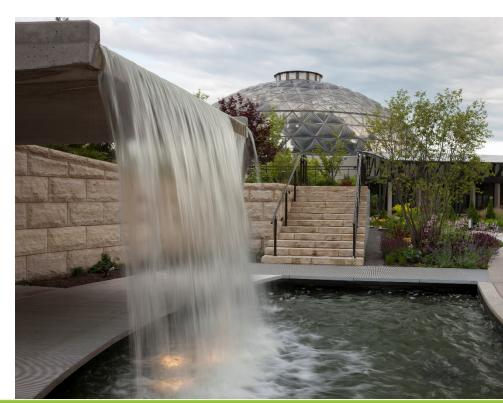
THE FOUNDATION FOR SUCCESS

Operating support

secured for ten years

Endowment established

Revenue Streams diversified







TUR ORGANIZATION TODAY

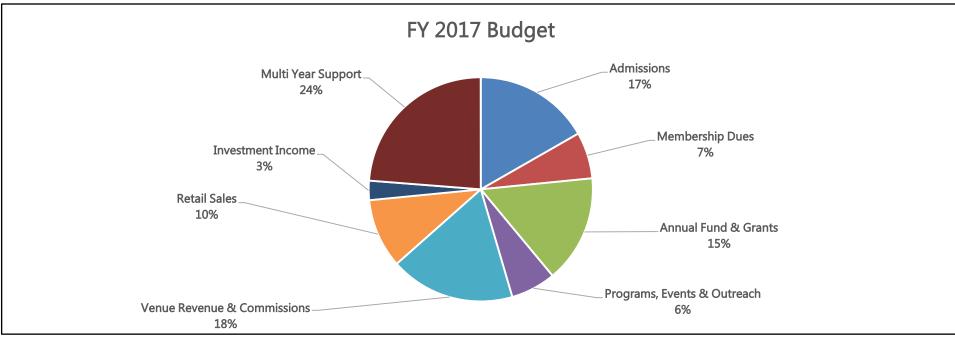


\$2.8 million operating budget 7 acres **1,700** member households **25** FTE Generators





OUR BUSINESS MODEL TODAY







2014 and 2015 Garden Writers Association Gold Medal for Best Trade Magazine











WHAT THE FUTURE HOLDS



7 acres to develop
Collaborations
with nonprofits and
corporations
Expanding Revenue
Generators



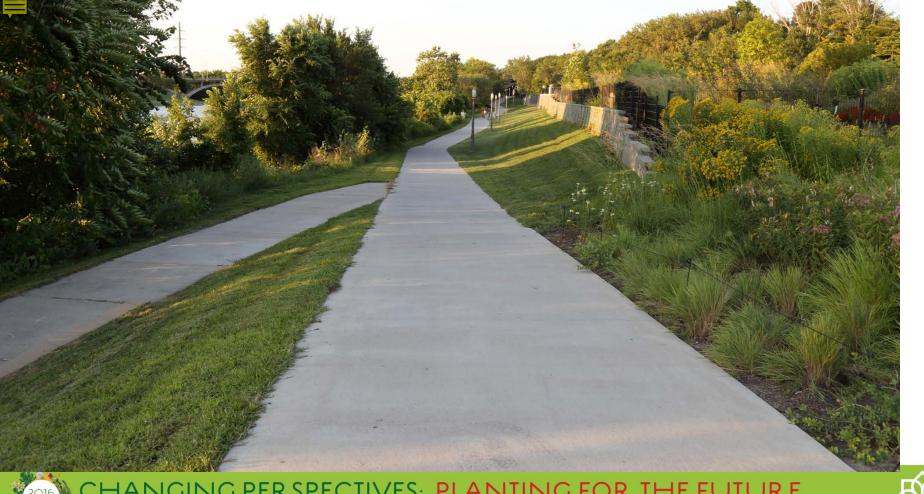














































Patrick Larkin Cheekwood Botanical Garden































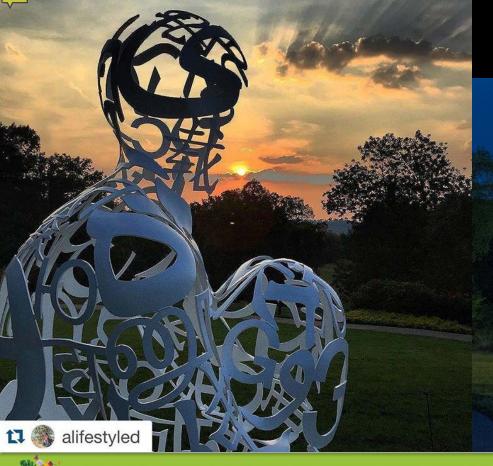












Soul of Words I & II



















Thoughts









Self Portrait









Rui Rui's World









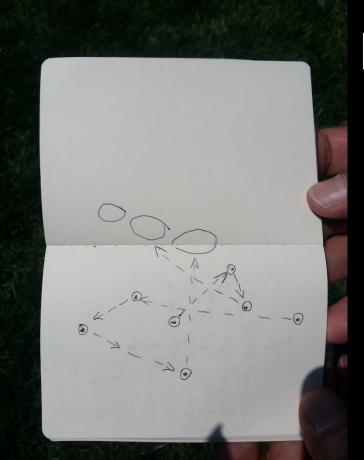
Silent Music II





CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE





Planning









Planning















Installation







Installation





Maintenance





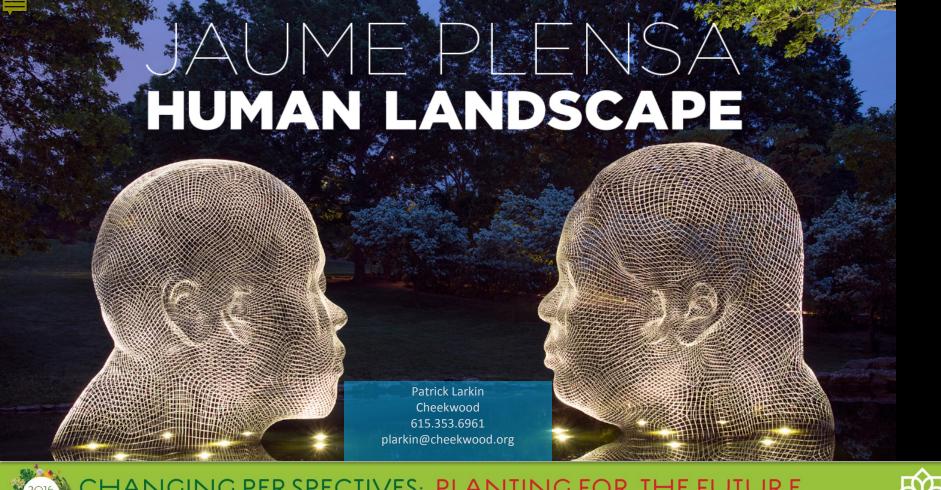


Lighting





CHANGING PERSPECTIVES: PLANTING FOR THE FUTURE









Scott Scarfone Buffalo and Erie County Botanical Gardens

