Grant Funding for Teaching

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Environmental Horticulture

Animal and Forage Sciences Grantsmanship Retreat- March 9, 2012
*Learning early on how to leverage teaching with research

*Scholarship in teaching

*Teaching crosses disciplines
The Process

1. Come up with an idea
2. Choose people you enjoy working with to collaborate and brainstorm
3. Find a way to fund it
4. Publish and present it
Plant Life Cycle

FERTILIZATION

Stage 6

Primary endosperm nucleus
Leaf Matching Quiz

Quiz Directions
Drag each term to the correct leaf apex.

Accuminate
Acute
Cuspidate
Emarginate
Mucronate
Obtuse
Sample 9  4) Flowering plant of one species; 8) Flowering branch of a different species; 1 - vegetative shoot; 2 - flower bud; 3 - flower; 4 - ditto in longitudinal section; 5 - stamen; 6 - fruiting branch; 7 and 8 - fruit from above and from the side; 9 - individual follicle. 1-9 enlarged.

Botanical Illustrations
Click your left mouse button and drag in the window above to look around. Please see the section "How This Site Works" for more information. If you are viewing this site over a low-bandwidth connection (e.g. dial-up), please be patient. The panorama may take a minute to display fully.
Introduction

Welcome to the Linear Garden located at the Indian River Research and Education Center in Fort Pierce, Florida.

The Linear Garden may be only three feet wide but it is 2,426 feet long (nearly half a mile) and is therefore affectionately called the 'Linear Garden'. It spans the entire length of South Rock Road and is located on the East side of the street across from the IRREC facility and USDA.

The garden includes approximately 247 different species of trees, palms, shrubs, groundcovers and vines. All of the materials within the garden have been donated by local nurseries and growers including one full day of labor from a local landscaping company to help plant the larger trees. Preparation for the garden began in August of 2005 but collection of material for the garden began several years prior to implementation. The garden was designed to showcase specimen plants and display other common landscape plants utilized in the South-Central Florida region with attention to foliage type, color and size in addition to flowering times and color providing year-round interest regardless of the season. The first date of installation was September 29, 2005 and though the garden is young, it is flourishing and provides a wonderful scenic drive along South Rock Road.
Multi-state, multi-disciplinary
Greenhouse Simulation version 1.0

City: Columbus, OH
Elevation: 228 m
Latitude: 39° 57' 40"
Longitude: 82° 59' 56"

Readings | Solar Rad. | Temp. | RH | W
---|---|---|---|---
Inside | 32 | 19.1 | 72 | 1021
Outside | 41 | 16.7 | 78 | 950

Messages
ENVIRONMENT:
Season: Summer
Location: Columbus, OH
STRUCTURE:
Type: A-Frame
Spans: Single
Orientation: North-South
GLAZING:
Type: Glass
Layers: single
Fans:
Quantity: 0
Capacity: 0
Inlets: 1 x 20

Select Play to run your custom simulation. NOTE: simulation data appears in Readings window at upper right, data history shown in graphs below.

Numerical Results

Graph Legend
- Inside
- Outside

Solar Radiation (W/m^2)
Air Temperature [°C]
Relative Humidity (%)
Humidity Ratio [kg/kgDA] x 10^5
Higher Education Challenge (HEC)
Grants Program - USDA NIFA

- Address an education need
- Creative approach
- University science and education community
## Evaluation Criteria

<table>
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<th>Points</th>
<th>Criteria</th>
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| 30 pts | • Potential for advancing quality of education  
          • Significance of the problem |
| 25 pts | • Proposed approach and cooperative linkages |
| 20 pts | • Institutional capability and capacity building |
| 15 pts | • Key personnel |
| 10 pts | • Budget and cost-effectiveness |
National Science Foundation-
Review Criteria

What is the intellectual merit?
• Advancing knowledge
• Quality of prior work
• Idea conception, creativeness and organization

What are the broader impacts
• Advancement of discovery while promoting teaching training and learning
• Participation of underrepresented groups
• Enhancement of infrastructure and partnerships
Advancing Education for our Present and Future Generations of Learners!