From Parking Lot to Food Forest: Schaumburg Campus Sustainable Transformations

By: Mary Rasic
Sustainability Student Symposium
April 22, 2015
Environmental Sustainability Student Associate

* Social networking, blogs, broadcasts, newsletters, press releases, and other sustainability marketing
* Schaumburg Campus Community Garden and Prairie Walk
* Applications for certifications and awards (i.e. Princeton Review, Tree Campus USA, etc.)
* Monthly utility reports / Energy Star Portfolio Manager
* Rebates (i.e. Nicor Boiler Tune-up, Lab Hoods)
* Arbor Day and Garden Kickoff event
* Represent RU for the Illinois Food Scrap Coalition (IFSC)
* Key Tracking
* Golf Committee
Roosevelt University’s Schaumburg Campus was accredited as a Level I Arboretum 2014.

Being an arboretum is not just a simple achievement – it is an accumulation of successes met with long-term commitment and community involvement.

Roosevelt University’s complete landscape inventory is based upon field-based assessments, as a means to measure the physical structure and condition of each tree. This information is used for landscape management by connecting forest functions and values with management costs, risks, and needs.

The Schaumburg campus has 33 documented trees species. We are in the process of tagging and recording a detailed description of ~516 woody plants to assess the condition and maintenance needs of each.
**Requirements**

- An Arboretum Plan: Documentation of an organizational plan that defines the purpose of the arboretum

- An arboretum governing board

- An Arboretum Collection with a minimum number of 25 kinds (species or varieties)

- Arboretum staff or volunteer support that ensures fulfillment of the Arboretum Plan and provides for the basic needs of the Arboretum

- An arboretum public event or educational program each year focused on trees or arboretum purposes (e.g., Arbor Day observance)

- Participation in ArbNet
Tagging – Labeling
Landscape Plan

Roosevelt University Schaumburg
Sustainable Landscape Plan - 2 of 3

Prepared by: Bedrock Earthscapes, LLC and Conservation Design Park
Revised June 10, 2011

Legend:
- Low-Profit Trees
- Native Milton Trees
- Species Trees
- Ornamental Trees
- Existing Trees
- New Trees
- Replace Trees
- Propagate Trees
- Remove Trees
- Existing killed
- New killed

Note: Trees to be removed marked with red X.

Replace dead Alder and Norway Maple with Swamp Rose or Swamp White Oak, Monitor Linden, and Silver Maple, and replace if trees do not live out by winter rest.

Replace dead Turkey Foot with Autumn Blaze Maple.

Replace dead Ash, Maple, and Oak with Swamp Rose or Swamp White Oak, Monitor Linden, and Silver Maple, and replace if trees do not live out by winter rest.

Replace dead Dogwood with Swamp Rose or Swamp White Oak, Monitor Linden, and Silver Maple, and replace if trees do not live out by winter rest.
The Care of Trees removed 22 Ash trees from Roosevelt University’s Schaumburg campus, due to the Emerald Ash Borer.

The trees were pulverized into mulch and will be reused on campus, as doing so will conserve soil moisture, impede weed growth, reduce soil erosion, limit salt build-up, protect plant roots from traffic, moderate soil temperatures, and improve soil fertility and structure.
EPA ENERGY STAR Portfolio Manager ®

* An online tool you can use to measure and track energy and water consumption, as well as greenhouse gas emissions.

* Use it to benchmark the performance of one building or a whole portfolio of buildings, all in a secure online environment.

* 40 percent of U.S. commercial building space that’s already benchmarked in Portfolio Manager

* The tool of choice among cities such as New York, Seattle, and Boston that have passed mandatory benchmarking laws.

* used by the Canadian Government as the platform for their national energy benchmarking program
What is a Building Automation System?

A Building Automation System is an interactive system that enables automated configuration of a building's heating, cooling, and air conditioning systems.

Allows RU to enter data in one location, such as a digital thermostat, computer, cell phone, or tablet, which will then send signals to the electronics and machinery that directly control the temperature in a building.
ASHRAE (pronounced ash-ray)

* The American Society of Heating, Refrigerating, and Air-Conditioning Engineers.

* Founded in 1894, it is a global society advancing human well-being through sustainable technology for the built environment.

* Members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability.

* Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today.
<table>
<thead>
<tr>
<th>Staff Name</th>
<th>Department</th>
<th>Authorized By</th>
<th>Date checked out</th>
<th>Key ID #</th>
<th>Room #</th>
<th>Date returned</th>
<th>Room #</th>
<th>Date returned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sikorski</td>
<td>ABM Janitorial</td>
<td>Paul Matthews</td>
<td>6/25/10</td>
<td>G-Master</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parkins</td>
<td>Academic Computing Tech.</td>
<td>Gary Langen</td>
<td>9/18/02</td>
<td>SCE 27</td>
<td>508 ABC</td>
<td>9/27/02</td>
<td>A1</td>
<td>508 ABC</td>
</tr>
<tr>
<td>Gordon</td>
<td>ACS</td>
<td>Ram Advani</td>
<td>4/6/10</td>
<td>SCG M</td>
<td>203 Floor</td>
<td>4/8/10</td>
<td>G2</td>
<td>301/815</td>
</tr>
<tr>
<td>Toward</td>
<td>Admin CEO</td>
<td>Margaret Connor</td>
<td>1/27/00</td>
<td>SCE 3</td>
<td>Lower floor</td>
<td>3/19/01</td>
<td>SCE 26</td>
<td>Mailroom</td>
</tr>
<tr>
<td>Cressman</td>
<td>Admin support</td>
<td>Laurie Cashman</td>
<td>5/10/01</td>
<td>SCE 9</td>
<td>201 Floor</td>
<td>4/19/01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korpp</td>
<td>Admin support</td>
<td>Laurie Cashman</td>
<td>2/10/06</td>
<td>SCE 8</td>
<td>101 Floor</td>
<td>4/19/01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perros</td>
<td>Admin support</td>
<td>Laurie Cashman</td>
<td>6/23/03</td>
<td>SCE 4</td>
<td>Lobby floor</td>
<td>3/10/07</td>
<td>G-Master</td>
<td></td>
</tr>
<tr>
<td>Wisea</td>
<td>Admin support</td>
<td>Laurie Cashman</td>
<td>9/14/99</td>
<td>SCE 3</td>
<td>1st Floor</td>
<td>9/11/99</td>
<td>SCF 8</td>
<td>110 K</td>
</tr>
<tr>
<td>Blomquist</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>10/9/06</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>1/11/11</td>
<td>SCA 30</td>
<td>640 A</td>
</tr>
<tr>
<td>Damrow</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>9/28/05</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>8/1/06</td>
<td>SCEA 3</td>
<td>110 E</td>
</tr>
<tr>
<td>Ebbovish</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>10/22/05</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 G</td>
</tr>
<tr>
<td>Freeman</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>4/29/03</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 H</td>
</tr>
<tr>
<td>Gomes - Barbas</td>
<td>Melissa</td>
<td>Gwen Kanelos</td>
<td>6/29/05</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 I</td>
</tr>
<tr>
<td>Harper</td>
<td>Admission</td>
<td>Judy Ebbovish</td>
<td>12/22/04</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 J</td>
</tr>
<tr>
<td>Hart</td>
<td>Admission</td>
<td>Judy Ebbovish</td>
<td>8/3/00</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 K</td>
</tr>
<tr>
<td>Johnson</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>1/16/00</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 L</td>
</tr>
<tr>
<td>O'Connor</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>1/11/01</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 M</td>
</tr>
<tr>
<td>Santoyo</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>2/13/01</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 N</td>
</tr>
<tr>
<td>Stock</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>10/17/01</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 O</td>
</tr>
<tr>
<td>Warford</td>
<td>Admission</td>
<td>Gwen Kanelos</td>
<td>6/21/01</td>
<td>SCE 3</td>
<td>110 Floor</td>
<td>11/15/06</td>
<td>SCE 3</td>
<td>110 P</td>
</tr>
</tbody>
</table>
2015 RUrban Pioneers
Community Garden and
Prairie Preparation
For this year's Arbor Day, we are planting a Food Forest consisting of 13 fruit trees.
What’s Next?

* Tree labels / Stakes / Hardware / Tags #101 – 550
* Tagging event for Boy Scouts (Gus)
* Final Landscape plan in AI
* Garden harvest and donations
* Compost in Schaumburg
What I learned

* We cannot sincerely help another without helping ourselves
* Do not be afraid to make mistakes and ask questions – it is impossible to know everything
* Finish one project before starting another
* Work hard no matter what you're doing
* Network and make contacts
* Rise to a challenge
* Take time for yourself
Networking Opportunities

* The Illinois Association of Environmental Professionals (IAEP) Student Career Conference @ DePaul University
* Roosevelt University Annual Golf Outing
* ASHRAE
* Direct involvement with contractors, engineers and utility companies
Acknowledgments

- Brad Hunt
- Mike Bryson
- Paul Matthews
- Tom Shelton
- MaryBeth Radeck
- Rebecca Quesnell
I am only one; but still I am one. I cannot do everything, but still I can do something. I will not refuse to do the something I can do.

– Helen Keller

Each new season grows from the leftovers from the past. That is the essence of change, and change is the basic law.

– Hal Borland

Each generation takes the earth as trustees. We ought to bequeath to posterity as many forests and orchards as we have exhausted and consumed.

– Author Unknown

To exist as a nation, to prosper as a state, and to live as a people, we must have trees.

– Theodore Roosevelt

Those who contemplate the beauty of the earth find reserves of strength that will endure as long as life lasts. There is something infinitely healing in the repeated refrains of nature—the assurance that dawn comes after night, and spring after the winter.

– Rachel Carson