

SOUTHERN ILLINOIS UNIVERSITY CAMPUS TREE CARE PLAN



I. The purpose of the SIU campus tree care plan is to identify the policies, procedures, and practices that are used in establishing, protecting, maintaining, and removing trees on the SIU campus. The overall goal of the plan is to ensure a safe, attractive, and sustainable campus urban forest. The specific objectives of the plan are:

- Ensure proper species selection, high-quality nursery stock acquisition, and industry-consensus planting procedures.
- Promote species diversity and proper age structure in the tree population.
- Protect high-value campus trees during construction and renovation projects.
- Promote tree health and safety by utilizing ISA's best management practices when maintaining campus trees.
- Ensure that trees are reasonably replaced when there is mortality due to weather, pest infestations, injury, or construction displacement.
- Encourage campus community members to respect and value the campus urban forest.
- Public outreach that promotes urban forest values, awareness, sustainability, and serves as a model for communities in the Southern Illinois region.

II. The responsibility of the Campus Tree Care Plan rests with Southern Illinois University Physical Plant under the direction of the Superintendent of Grounds and/or the University Certified Arborist.

III. The Campus Tree Advisory Committee is currently composed of:

- David Tippy, Superintendent of Grounds
- Jason Tabor, Horticulturist, Certified Arborist, Grounds Department
- Mark McDaniel, City Arborist from the city of Carbondale
- John Groninger, Professor of Forestry
- Geory Kurtzhals, Sustainability Coordinator
- Ashley Bergman, Student in Urban Forestry
- Nora Jacobs, Student in Education

Roles of Representatives

The committee members will accept to serve for a period of one calendar year with a renewal option. Members shall appoint officials who will conduct the day to day business of the committee. Committee members are expected to actively participate and contribute in policy/guideline review as well as research/information gathering that would aid in the campus tree care plan.

IV. SIU Care Policies

Plant Selection

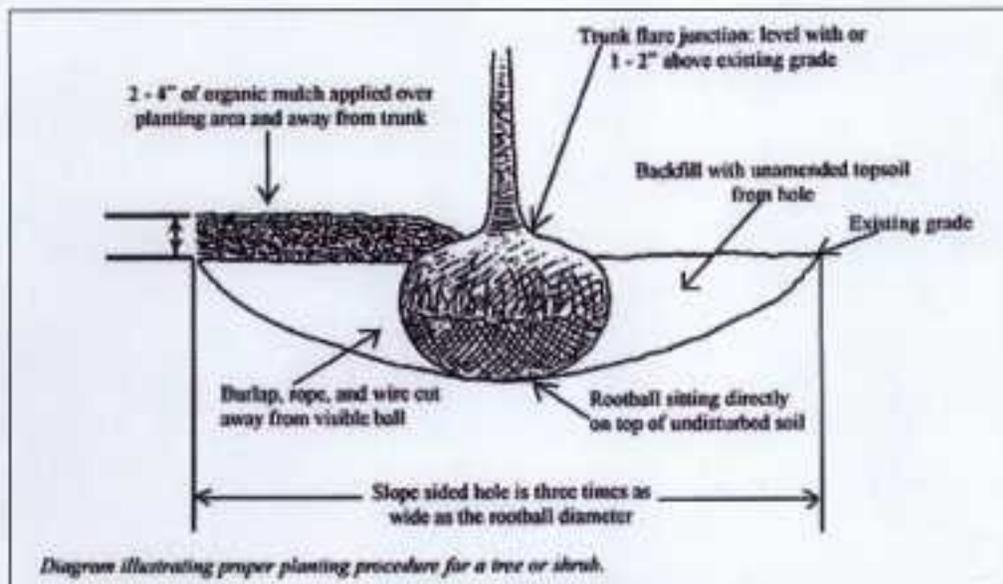
Plant species used on SIU campus may be both native and non-native species that have been screened for their adaptability to the region, climate, soil type, location, and planting needs. The campus is used as a teaching lab, increasing the diversity of tree species is extremely important. Trees to be used on campus will be preselected at the nurseries for good quality and tagged.



Planting Procedures

A planting hole no deeper than the root ball and 2-3 times the diameter with sloping sides shall be dug. The root ball should be set so that the trunk flare of the tree is 1-2" above the existing grade. Once the plant is properly placed, all visible ropes and burlaps should be removed. The upper portions of the wire basket should be removed once the root ball is stabilized in the planting hole. Backfill soil can be amended as recommended by soil analysis. The backfill soil should be tamped firm to remove large air pockets and reduce settling. Complete the backfill

by making sure that the trunk flare is completely exposed, spread mulch at 2-4" depth but not touching the trunk, water the root ball and planting area thoroughly.



Newly planted trees must receive adequate water weekly during the entire first growing season up until dormancy in the fall.

Wrapping

Unless specified by the Superintendent of Grounds or staff representative, the trunks of deciduous trees shall not be wrapped.

Staking

In general, trees are not staked if their soil ball is firm. The moving of the stem in the wind makes for a stronger tree. If guying is necessary, non-abrasive strapping is used, so as not to constrict the stem. Guying remains on the tree for no longer than 12 months and any wires are flagged for safety.

Insect and Disease Control

All campus trees will be monitored for insect and disease problems, and appropriate control methods will be implemented. Integrated Pest Management practices will be used to treat and/or prevent infestations of harmful insects, fungi, and bacteria.

Pruning

Campus trees will be maintained by the certified arborist. The pruning techniques employed include natural target pruning, and structural pruning. Trees are generally pruned on a three to four year cycle with damaged or high risk trees taking priority. The International Society of Arboriculture (ISA) standards will be followed for all tree pruning on campus.

Storm Management and High Risk Assessment

In the event of a storm or condition that results in fallen trees and tree damage, the first line of defense are the public safety personnel who patrol the campus twenty four hours/day, seven days/week. When damaged trees are discovered, the Public Safety Department contacts the Facilities Operations Control who in turn assess the situation and decide what Grounds Department personnel and equipment are required. The SIU staff arborist is responsible for assessing the safety of the situation and removal of the trees to alleviate hazards and clear roads and walks. The Grounds Department's certified arborist is responsible for assessing campus trees for risk potential. The arborist utilizes tree risk assessment standards to determine the trees risk.

Transplanting

When necessary, due to construction, trees may be transplanted to a new locations. The SIU Grounds Department certified arborist is responsible for site selection and method of transplanting. Transplanting can be done using a tree spade or ball and burlap.



Fertilizing

Newly planted trees receive an application of slow release complete fertilizer to aid in their establishment. Individual nutrients can be added to trees in poor condition by soil injection, if shown by soil test to be deficient. Routine tree fertilization is not recommended: campus trees receive adequate nutrients from turf fertilization and breakdown of leaf mulching.

New Building or Facilities Construction

When possible, all construction work shall be reviewed to note the impact on existing trees. Protection zones will then be established to ensure the protection of any trees the Physical Plant determines can or should be saved. This zone will equal one foot for every one inch of DBH. When existing trees are impacted, the contractor shall be required to financially compensate the university. Those funds will then be placed into an account for future tree planting.

V. Tree Protection Policies

Guidelines to protect our campus landscape and accommodate the work of the University. The SIU Superintendent of Grounds shall be notified and consulted prior to any contracted or in house construction in addition to maintenance work that might impact trees, shrubs, landscaped areas, or lawn space. After assessing the needs of the project the Superintendent of Grounds will determine any appropriate protection needs that may be required.

Mature, high-value trees of desirable species that demonstrate good form and vigor, with a diameter at breast height (dbh) of 10-24 inches will be prioritized. The tree advisory committee should be consulted regarding any tree with unique value being considered for protection. Fencing will be installed with a six-foot minimum radius around smaller trees, with a dbh of less than five inches. Larger trees will have fencing installed at a ratio of 1.25 feet or radius per inch of dbh. Pouring or disposal of construction-related substances, storage of equipment or construction materials, and vehicle parking will be prohibited within tree protection fencing.

Damage to SIU-owned trees or landscaping shall be repaired *only* by SIU Grounds Department staff, or their designated contractor. The Grounds Department shall remove and replace any trees, shrubs and other plant material determined to be excessively damaged due to prohibited practices. The costs of all such repairs, removals, replacements, and an amount of value lost will be the liability of the contractor and billed accordingly.

The following specific responsibilities are required of the contractor when marked:

- To protect the immediate portion of tree root zones, NO construction equipment or materials; sand, soil, gravel, or any other materials shall be placed, parked, or stored on the surface of any unpaved areas within the radius of one and a half times the drip line (outermost reach of branches referred to as protected zone) of trees. NO chemicals, rinsates, or petroleum products shall be deposited within the protected zones of trees.
- Tree protection barricades shall be erected to define the protected zones. All unpaved area within the zones of each tree in the construction site shall be fenced. The fencing

shall be installed by Landscape Services or contractor as specified prior to set-up for construction.

- It is understood that the proximity of a tree to a worksite may require temporary access to a protected zone. A temporary path may be constructed in these cases with approval from the SIU certified arborist. To preserve viable root systems and maintain structural stability, it is required that the contractor bore or tunnel beneath the root systems of trees. Open-cut excavating must be kept at a distance equal to 1 foot per every 1 inch tree diameter. This distance will be measured from the face of the tree trunk in a straight line the direction toward the area to be excavated.

A pre-construction site walk-thru will be scheduled with the SIU Superintendent of Grounds and contractor prior to any construction being done. This meeting will include the site construction superintendent.

- Care shall be taken not to damage tree trunks and branches. The SIU Grounds Department shall be contacted at least three (3) business days prior to the set-up for any construction to discuss problems of overhanging branches which may be damaged.
- All excavation in the protected zone shall be backfilled only with clean, viable soil. If possible, native soil from the site should be returned, and if not possible soil returned should match existing soil profile. NO concrete, slurry, gravel, stone, sand, or other such materials shall be used for backfill. Flush backfilled excavations to settle material. Restoration shall be to original grade, unless otherwise specified.
- Contractor shall immediately contact Superintendent of Grounds or Grounds Department representative should protected plants be compromised in violation of agreed upon fencing and limits.

VI. Goals and Targets

- Promote Arbor Day thru organized tree planting and other educational events.
- Education and integration with public awareness of sustainability.
- Create a model tree care environment for education and research.
- Maintain and update the campus tree inventory that highlights over 7,000 trees on campus.
- Communicate our tree care plan to the community.
- Maintain and balance tree biodiversity.

VII. Tree Damage Assessment

The Grounds Department employs a certified arborist charged with the responsibility of assessing tree damage. Tree value is determined by current market value per 1" DBH. Where applicable, large trees are valued using the 9th Edition for Plant Appraisal, developed by The Council of Tree and Landscape Appraisers.

VIII. Prohibited Practices

Our guidelines were developed by the arborist and are part of the landscape specifications sent out to landscape contractors bidding on University projects.

"Prohibited Practices" by contractor shall include;

- Breaking of branches, scraping of bark, or unauthorized cutting.
- Nailing or bolting into plants; use of plants as temporary support (i.e. cables).
- Chaining, bolting, or cabling equipment to trees.
- Unauthorized filling, excavating, trenching, or augering within protected zones.
- Compaction/driving over the protected zones.
- Storage of any materials or parking in the protected zones.
- Dumping of ANY construction waste or material (including liquids) in protected zones.
- Unauthorized relocation of any woody plants.
- Execution or pre-emption of "Grounds Department Arborist Responsibilities".
- Removal of tree protection barricades or construction fencing prior to completion of project.
- Improper pruning or topping techniques.

"Grounds Department Arborist Responsibilities"

- Tie-back of existing trees and shrubs
- Pruning/thinning
- Root pruning and root protection of exposed roots
- Watering of existing trees under stress
- Removal or relocation *not* specified within construction documents

These measures shall be done *only* by Landscape Services arborists, unless otherwise arranged, as needed to provide either preventative or remedial care to plants on a construction site.

IX. Definitions of Terminology Related to Campus Trees.

“Aerial Lift”

Hydraulically operated aerial tower used for ascent and tree entry, usually mounted on a large truck. Line crew use some short as 35 feet for clearing cables and streetlights. Most forestry departments use towers of 45-50 feet for trimming and removal operations.

“Arborist”

A position that provides expertise in the field of tree maintenance practice, including but not limited to pruning, planting, pest and disease diagnosis, and fertilization. Typically this position functions as a working lead or supervisor of a tree crew or as the tree specialist for an organization. This position generally requires a moderate to extensive education, experience, and certification in the field of arboriculture.

“Caliper”

The diameter or thickness of the main stem of a young tree or sapling as measured at six inches above ground level.

“Chipper”

A specialized piece of equipment designed for shredding brush and limbs into small chips.

“Complete Fertilizer”

A fertilizer that contains all three of the primary elements, nitrogen, phosphorus, and potassium, not necessarily in a balanced ratio.

“Construction Fencing”

NO construction work, parking of vehicles, storage of materials, or related activities shall occur beyond this boundary fencing. Construction fencing shall be chain link, unless otherwise agreed upon.

“Deciduous”

Plants that lose their leaves at the end of the growing season.

“Diameter Breast Height (DBH)”

The diameter of the tree trunk measured at the breast height, or 4 feet, 6 inches (54 inches) from the ground. The measurement is taken this high to avoid the flaring effect of the buttress roots on the methods used for estimating the amount of lumber in a tree. The diameter can be measured with calipers or a diameter tape.

“Fertilization”

The application of required nutrients, such as nitrogen, phosphorus, and potassium, by a variety of means, including but not limited to:

- (1) Liquid injection: fertilizer introduced into the soil by means of a probe
- (2) Granular broadcast: fertilizer applied typically by means of a mechanical spreader
- (3) Trunk injections: fertilizer injected directly into the trunk of a tree
- (4) Balanced fertilizer: a balanced-ratio fertilizer that contains equal amounts of the primary elements nitrogen, phosphorus, and potassium
- (5) Complete fertilizer: a fertilizer that contains all three of the primary elements nitrogen, phosphorus, and potassium, not necessarily in a balanced ratio

- (6) **Controlled-release fertilizer:** a fertilizer that is composed of elements that have been treated to release all or part of the nutrients over a controlled or long period of time. The process may be chemical or physical in nature and varies in length of time.

“Hazardous Tree”

A tree that has been identified as a potential risk for failure that would cause injury to a person or damage property.

“Indigenous”

Native or belonging to a region or area. The opposite of exotic.

“Invasive Tree”

Tree species able to survive, reproduce, and spread, unaided, sometimes at alarming rates.

“Maintain”

Support, keep, and continue in an original state or condition without decline.

“Mulch”

A layer of organic or inorganic material put on the soil for one or more of the following reasons: to reduce the evaporative loss of water from the soil, reduce runoff, reduce compaction, help to control weeds, add organic matter to the soil, protect plants from mowers or equipment, moderate soil temperature fluctuations, or for ornamental purposes.

“Non-Native Tree”

Tree species introduced from another country or geographic region outside its natural range.

“Prune”

To remove dead, diseased, unnecessary, or unwanted twigs, branches, shape plants for ornamental purposes.

“Sustainability”

This term refers to a system, program, or condition that meets the needs of the present without compromising the ability of future generations to meet their own needs. It requires a reconciliation or balance of environmental, economic, and social demands. Used in reference to a program or site that is in ecological balance.

“Tree”

A woody plant of considerable stature at maturity with one or a few main trunks.

“Tree Protection Barricade”

Wood, plastic or chain link fencing to be used at the discretion of the grounds maintenance department to protect trees in a construction work zone.

“Tree Specialist”

A position that provides considerable expertise in the field of tree maintenance practices, including but not limited to pruning, planting, pest and disease diagnosis, and fertilization. Typically, this position functions as the arborist for an organization. This position generally requires an expertise education, experience, and certification in the field or arboriculture.

“Temporary Path”

If required, a temporary path shall be defined as a zone *within* the specified protected zone of a tree to enable temporary movement of equipment. It shall be eight to ten inches (8-10”) of wood chips as located by the

Grounds Department arborist or designated representative. Wood chips shall be removed immediately upon completion of work in an area; soil aeration may be required during site restoration.

“Native Tree”

A tree species that occurs naturally and is indigenous to the region.

“Ornamental Tree”

Tree species planted in a garden or landscape setting, as opposed to a natural area, for its flowering habit or other desirable aspect of appearance; it may or may not be exotic.

“Staking”

Supporting plants with stakes to protect against wind-rocking and promote straight growth.

X. Communication Strategy.

Upon adoption of the Tree Care Plan by the Committee, and with SIU Administration approval, communication strategies can include but are not limited to:

- Recognition on the University website.
- Communication of campus tree plan with contractors thru the bid process.
- Announcement on social media.
- Recognition on advertised campus events.
- Acknowledgement thru educational presentations.
- Recognition in campus newsletters.
- Articles placed in the campus newspaper “The Daily Egyptian” emphasizing Southern Illinois University’s participation in the Tree Campus USA.
- The Campus Tree Care Plan incorporated into new student enrollment correspondence.
- A press release shall be made to the local media through the office of University Communications and Marketing.

Dedicated Annual Expenditures for Campus Tree Program

Equipment and Staff

Southern Illinois University has dedicated one full time employee (a certified arborist) totaling \$55,000.00 for the tree program. On average, Southern Illinois University spends \$20,000.00 to purchase new trees annually. The following equipment is used in the maintenance and care of our trees:

Materials and Tools

| | | |
|-------------------------------------|----|-----------|
| Trees (120 @ \$140.00 average cost) | \$ | 16,800.00 |
| Mulch, Fertilizer, and Hand Tools | \$ | 2,275.00 |

| | | |
|------------------------|-----------|------------------|
| Total Materials | \$ | 19,075.00 |
|------------------------|-----------|------------------|



Labor and Contractual Costs

| | | |
|-------------------|----|------------|
| SIU Grounds Staff | \$ | 128,800.00 |
|-------------------|----|------------|

Outside Contractors

| | | |
|--------------------------|----|-----------|
| Tub Grinding and Removal | \$ | 20,000.00 |
|--------------------------|----|-----------|

| | | |
|--------------------------|-----------|-------------------|
| Total Labor Costs | \$ | 148,800.00 |
|--------------------------|-----------|-------------------|

Grand Total Tree Related Costs \$ 211,975.00

Arbor Day Observance

Southern Illinois University Carbondale hosts a tree-planting event annually in April. Organizers encourage students, faculty, and staff to participate in this event. The event, in celebration of



Arbor Day, which falls on the last Friday in April, and in conjunction with Tree Campus USA initiative, the volunteers plant trees on campus in designated areas. Plant and Service Operations and Southern Illinois University are sponsors of the tree-planting operation.

Service Learning Projects

Memorial Tree Project

The SIUC Memorial Tree Project is an ongoing effort started by the Geography and Environmental Resources Department's 'Field Methods' class in Spring 2009. The project goal was to locate and assess trees (and other objects) dedicated as memorials to individuals and events important to the SIUC community. The Grounds Department of SIUC Plant and Service Operations manages the Tree Memorial Program. Students located memorial trees using old hard copy maps showing the general area of the memorial tree locations. They then collected GPS co-ordinates, photographed and verified species type and other relevant information for each tree. A database of tree location co-ordinates was developed and used to create a "Google Earth" map showing the exact location for each tree across the SIUC campus.

819 Paul Arthur Schupp



819 Memorial Plaque of SCHUPP, PAUL, ARTHUR

Species: FRG, 842
Date Collected: MAR, 1980
Collector: TAYLOR, SCHUPP, SCHUPP
Notes:
Coordinates: 38.3666 - 90.5000

Tree Campus USA Application



Complete this form and submit with any visual or additional written documentation no later than December 31. Tree Campus USA designation is in recognition of work completed by the college during the calendar year.

Submissions can be sent electronically to treecampus@arborday.org

Or mail to: **Tree Campus USA, Arbor Day Foundation, 211 N 12th Street, Lincoln NE 68508**

I am submitting this application on behalf of the college listed below to be officially recognized and designated as a Tree Campus USA college for the year 2016, having achieved the standards set forth by the Arbor Day Foundation as noted below.

Standard 1: Campus Tree Advisory Committee

This committee must include a representative from each of the following audience:

- Student (undergraduate or graduate).
- Faculty.
- Facility Management.
- Community — for example — city forester, municipal arborist, community tree board member.

Date of committee establishment October 2015

Meeting dates for the past year 11/06/15, 11/12/15, 12/03/15

Attach list of committee members, groups they represent (ie, students) and e-mail.

Standard 2: Campus Tree Care Plan

All of the following criteria must be addressed in your Campus Tree Care Plan:

1. Clearly stated purpose.
2. Responsible authority/department — who enforces the Campus Tree Care Plan.
3. Establishment of a Campus Tree Advisory Committee, terms of the representatives, and role committee plays.
4. Campus tree care policies for planting, landscaping, maintenance and removal including establishing and updating a list of recommended and prohibited species; managing for catastrophic events.
5. Protection and Preservation policies and procedures — include process for implementing tree protection plan including step-by-step process that every project must follow including construction and trenching.
6. Goals and Targets — develop at least one goal and target for your Campus Tree Plan. These could include (but are not limited to) tree canopy target, development of a link between the Campus Tree Plan and other green

If an individual or College is looking for a way to memorialize a deceased colleague, Plant and Service Operations offers a service to plant and maintain a donated tree. The following steps are in place to request this service:

- The donor should contact the SIU Foundation or College of choice.
- The SIU Foundation will utilize a Foundation account for billing purposes.
- The SIUC Foundation/College will submit a Request for Physical Plant Services form to the Facilities Operations Center (FOC) via fax at (618)453-7722. Include a contact person's name who will know the particulars about the memorial tree. The Service Requisition (SR) is to cover the cost of the tree. Plant and Service Operations Grounds Department will plant and maintain the tree at PSO's expense.
- FOC will receive the RPPS-SR and prepare the work order.
- FOC will forward the job number of each order to the person requesting the work.
- After the work order is received by the craft foreman, the foreman will contact the donor to discuss the particulars of the tree type, location site, timing of planting the tree and any ceremony they may want to hold. After the work is completed, Plant and Service Operations will bill the account listed on the RPPS.

With today's technology, it is our goal to eventually attach QR tags to the memorial trees that can be scanned by a smartphone or mobile device with internet access that will direct you to a personalized legacy web page with a photo gallery to provide you with a lasting memorial.



SIU Forestry Program QR Coding Project

Forestry students in a tree identification course at SIU are being tutored by trees themselves. Jon Schoonover, professor of forestry, and a team of graduate students placed QR codes on trees, and near shrubs and vines, in Thompson Woods and around Campus Lake. The team affixed QR codes on white rectangles at about four and a half feet high on the side of the tree most visible to the nearest walkway, using aluminum nails that do not injure the tree. The QR codes, when scanned by a smart phone with a code scanning application, link to a dedicated website that tells the user about the tree, shrub or vine. The website identifies the tree by both

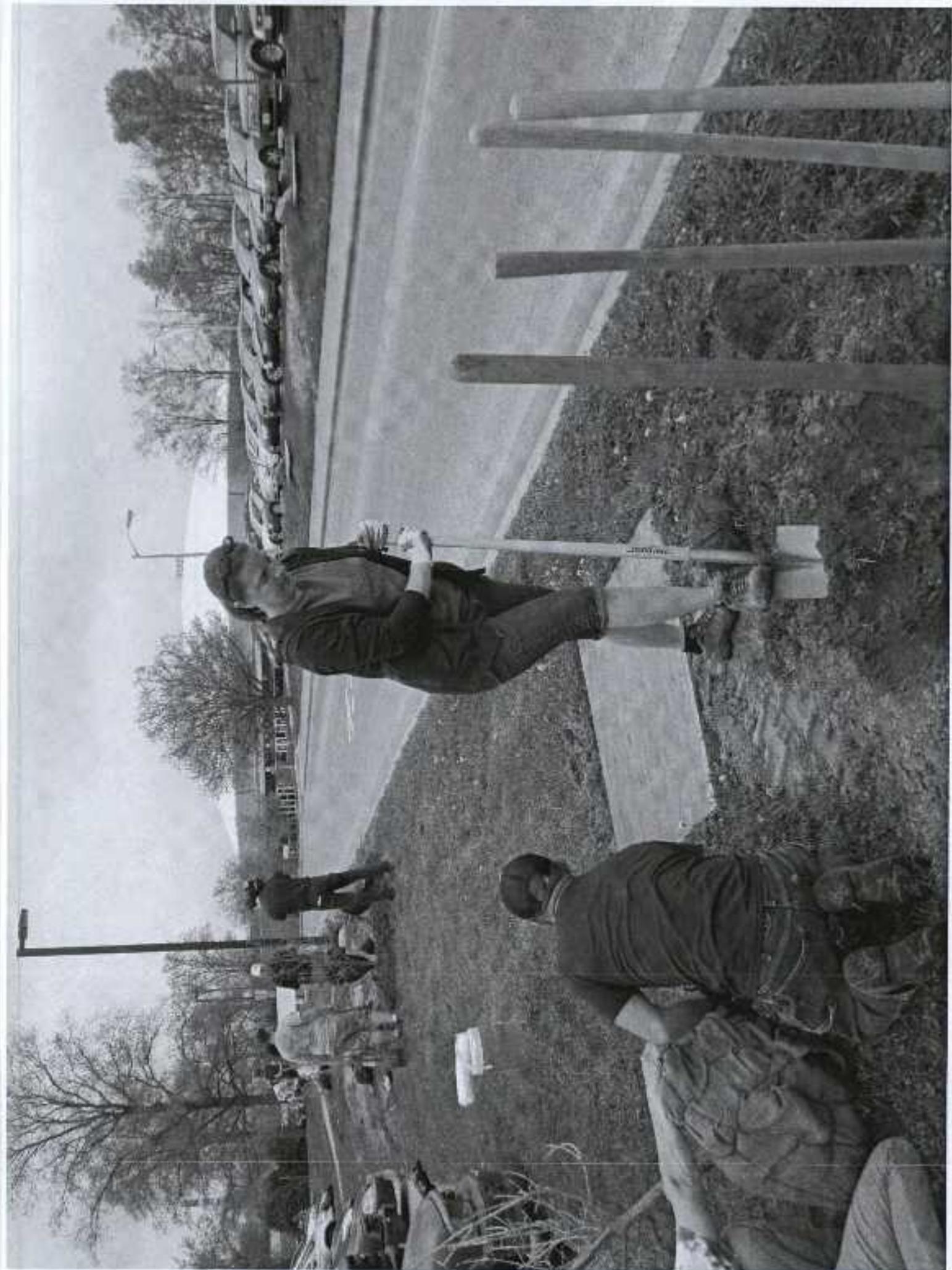
common and Latin scientific names, and shows students identification markers such as leaves, twigs and buds, bark, and fruit. Schoonover identifies examples from each of the 135 species of



tree, shrub, and vine taught in the tree identification course. Ultimately he hopes to have three examples per species to help students recognize normal variations in life stages of the plants and trees. The program provides hands on experience students cannot get from a classroom or textbook. The Center for Teaching Excellence provided technological assistance with this project. The tree identification program is available to the public, as the QR codes can be scanned by anyone with a smartphone or tablet. The program is

the only one like it in the state, and one of very few at colleges and universities nationwide.







NEWS

SOUTHERN ILLINOIS UNIVERSITY | MONDAY, NOVEMBER 16, 2015

April 10, 2015

Volunteers welcome to help plant trees on campus

by Christi Mathis

CARBONDALE, Ill. -- Southern Illinois University Carbondale will host a tree-planting event on April 17.

Volunteers are welcome to participate either from 10 to 11:30 a.m. or during the noon to 2 p.m. shift. Organizers particularly encourage students and people from the campus community to join in the planting. Everyone will meet at the beginning of each session in the engineering parking lot, Lot 37, located west of the SIU Arena.

Jason Tabor, university arborist, will speak before the work begins. Then, in celebration of Arbor Day, which falls on April 24, and in conjunction with the Tree Campus USA initiative, the volunteers will plant trees along both sides of Douglas Drive near the arena. The planting will go on rain or shine so participants should dress appropriately.

Those planning to join in the planting are encouraged to call 618/453-8185 in advance to sign up. Volunteers may just show up that day as well.

Plant and Service Operations and the university are sponsors of the tree-planting operation.

Southern Illinois University, Carbondale IL 62901
P: 618-453-2121

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NEWS

FRIDAY, NOVEMBER 20, 2015

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Getting the identification -- Jon Schoonover, associate professor of forestry at Southern Illinois University Carbondale, center, shows students in his tree identification course how to use a QR code on a tree to access the website he developed with the Center for Teaching Excellence. The website identifies the tree by both common and Latin scientific names, and shows students identification markers such as leaves, twigs and buds, and bark. Schoonover stressed that the QR codes are attached to the tree without injury to the tree. With Schoonover are forestry majors from left, Walter Meszaros, a senior from St. Augustine, Fla., and right, Christian Tambellini, a junior from Nashville, Tenn. (*Photo by Stephen Buhman*)

October 29, 2013

Trees are tutors in SIU forestry program

by Andrea Hahn

CARBONDALE, Ill. – Forestry students in a tree identification course have a surprising new tutor at Southern Illinois University Carbondale -- the trees themselves.

Jon Schoonover, associate professor of forestry, and a team of graduate students are putting QR codes on trees, and near shrubs and vines, in Thompson Woods and around Campus Lake. The QR codes, when scanned by a smartphone with a code scanning application, link to a dedicated website that tells the user about the tree, shrub or vine. The program is the only one like it in the state, and one of very few at colleges and universities nationwide.

“The website gives the common name of the tree, the Latin botanical name, and identifying information such as leaf shape, twigs and buds, bark, and fruit,” Schoonover said. “It’s important for students to get out and see the tree where it is, to touch the bark and smell and feel the tree. You can’t get that from a website or a textbook.”

The team is affixing the QR codes on white rectangles at about four and a half feet high on the side of the tree most visible to the nearest walkway, using aluminum nails that do not hurt the trees. Schoonover plans to identify examples from each of the 135 species of tree, shrub and vine taught in the tree identification course. Ultimately, he hopes to have three examples per species to help students recognize normal variations in life stages of the plants and trees. A comprehensive tree map will help students find species examples directly rather than by chance wandering.

Initially, Schoonover wanted to create a smart phone application for this project. However, he also wanted to incorporate the Dell tablets each incoming freshman student received at the beginning of the fall semester. The QR code and website link worked better with the tablets.

“We’ll have several stages for this,” Schoonover said, noting that he wants to tie in the project with a tree-mapping project begun earlier. “This is just 1.0. I’d still like to have an application, one that ties into GPS and could give an alert when the user is near a tagged tree.”

Schoonover credited the Center for Teaching Excellence on campus with the technological assistance.

“I had the idea, but I don’t know how to make an application or a website. They took the photos, made the website and the QR code, and they are making little improvements as students make suggestions.”

Any smart phone can read the codes. Schoonover said he hopes members of the community who walk the loop trail at the lake will take advantage of the program as well.

Upcoming Events

| | | |
|--------------------------|------------|-------------------|
| Edward S. Curtis Exhibit | 11/20/2015 | 8:00 AM - 9:00 PM |
|--------------------------|------------|-------------------|

[VIEW DESCRIPTION](#)

Dissertation Defense of Meadow Campbell 11/20/2015 9:00 AM - 12:00 PM

[VIEW DESCRIPTION](#)

Regional Energy Forum 11/20/2015 11:30 AM - 1:30 PM

[VIEW DESCRIPTION](#)

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Southern Illinois University, Carbondale IL 62901
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NEWS

SOUTHERN ILLINOIS UNIVERSITY | MONDAY, NOVEMBER 16, 2015

November 10, 2011

Volunteers sought for Nov. 17 tree planting

by Pete Rosenbery

CARBONDALE, Ill. -- Southern Illinois University Carbondale next week will continue efforts to restore some of the beauty lost in the devastating May 8, 2009, wind storm and subsequent storms.

Members of the University community and the public can volunteer on Thursday, Nov. 17, to plant approximately 175 trees in two separate areas of campus. This is the third mass tree restoration project since November 2009, and will bring the total number of plantings over three years to more than 600.

Media Advisory

Reporters, photographers and news crews are welcome to cover the tree planting. For more information, contact David Tippy, assistant superintendent of grounds, at 618/453-8185 or by email at dtippy@siu.edu.

Plant and Service Operations and Student Life and Intercultural Relations are working together to coordinate the efforts of volunteers, who will work in one-and-one-half to two-hour shifts. Registered Student Organizations, and individual faculty and staff, along with community members who are interested in volunteering, should call the Student Life and Intercultural Relations Office at 453-5714 by 4 p.m. on Tuesday, Nov. 15.

The focus areas will be Thompson Woods, between the Agriculture Building and Student Center, and the lake path between the boat dock to the west end across from Stone Center, said David Tippy, the assistant superintendent of grounds. The trees are indigenous to the region and include dogwoods, various oak trees, river birches, bald cypress and elms.

Planting will take place from 8 to 11:30 a.m., and from noon to 3 p.m. Sign-in and information sheets will be near the large boulder behind the Agriculture Building and at the beach house at campus lake. Volunteers will receive instructions and be assigned to a planting/mulching crew, Tippy said.

There won't be much digging involved -- the trees will be spotted next to pre-dug holes, and the

necessary tools and materials to complete the work will also be there, Tippy said.

Southern Illinois University, Carbondale IL 62901

P: 618-453-2121

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NEWS

SOUTHERN ILLINOIS UNIVERSITY | MONDAY, NOVEMBER 16, 2015

November 30, 2010

Media Advisory -- Tree Planting

Southern Illinois University Carbondale's efforts to restore the campus after the May 8, 2009, wind storm will continue on Thursday, Dec. 2, with the planting of 150 trees in Thompson Woods. The event marks the kick-off of the efforts to restore Thompson Woods, and the planting of native species of trees will take place in the most heavily damaged area. Chancellor Rita Cheng and other University officials will participate, and will meet at 8 a.m. on the path that runs between the Student Center and the Agriculture Building. Reporters, photographers and news crews are welcome to cover the tree planting.

Southern Illinois University, Carbondale IL 62901

P: 618-453-2121

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NEWS

SOUTHERN ILLINOIS UNIVERSITY | MONDAY, NOVEMBER 16, 2015

November 12, 2009

Media Advisory -- Tree Planting

Volunteers from the campus community and community at large will help plant 200 trees at Southern Illinois University Carbondale on Friday, Nov. 13, as part of the continuing restoration efforts following the May 8 windstorm. The storm toppled more than 600 trees in the mowed areas of campus.

Tree planting will begin at 8 a.m. and continue until about 3 p.m. Volunteers will meet at the Student Center for assigned shifts, and an SIUC tram will transport them to various locations around the campus. Reporters, photographers and news crews are welcome to ride a tram and cover the tree planting.

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Replanting Blitz – Chancellor Samuel Goldman, second from left, joined several students, staff and faculty members to plant the first of 200 trees that will replace some of those destroyed in the May 8 storm that, among other things, disrupted commencement and destroyed many old and beautiful trees on the Southern Illinois University Carbondale campus. Joining the chancellor are, from left to right, John Taylor, business manager for Plant and Service Operations; Nick Wangelin a plant and soil science major from Princeton; Ethan Lindsay, a plant and soil science major from Marion; Katie Smith, a geography and environmental resources student from Tinley Park; Karen Midden, a professor in plant, soil and agricultural systems; Matthew Therrell, assistant professor in geography and environmental resources; and Ira Tripp, labor and maintenance.

(Photo by Andrea Hahn) [Download Photo Here](#)

November 06, 2009

Volunteers needed to plant 200 trees in one day

by Tom Woolf

CARBONDALE, Ill. -- Southern Illinois University Carbondale is poised to write the next chapter in the saga that began on May 8. And, as was the case in the days and weeks following the devastating windstorm, volunteers will play a key role in the ongoing restoration efforts.

SIUC officials, relying on input from a focus group, developed a plan to plant 200 trees in mowed areas around campus in a single day -- Friday, Nov. 13. All the holes will be ready, and trees, fresh dirt and tools will be at each location. The key ingredient will be volunteers.

Plant and Service Operations and Student Development are working together to coordinate the efforts of volunteers, who will work in two-hour shifts. Registered Student Organizations, and individual faculty and staff members -- along with members of the community at large -- interested in volunteering should call the Student Development office at 453-5714 by 4 p.m. on Tuesday, Nov. 10.

Several students joined Chancellor Samuel Goldman today (Nov. 6) to jump-start the restoration effort by planting three trees near Wheeler Hall.

"Our students and staff showed great loyalty to our University, and to each other, in the wake of that

storm," Goldman said. "If you were here that day, you know how widespread the damage was. I am sure we will continue to see that Saluki Spirit as we take this important step in enhancing the beauty of our campus."

Goldman also noted that the campus re-landscaping effort is being supported in part by a gift from Ameren Corp. Ameren's gift stems from the assistance it received from the University following the May 8 storm, when utility workers stayed in residence halls for several days.

Phillip S. Gatton, director of Plant and Service Operations, said the nine-member focus group first met in mid-July and began meeting about every two weeks when the fall semester began. He anticipates the group will continue meeting through the end of the school year.

"We have academic representation, student representation and several physical plant people," he said. "They are all very interested in seeing the campus restored."

The May 8 storm, he said, created "such a sense of loss" on campus.

"The devastation made all of us feel like we had lost a piece of ourselves," he said. "It was very difficult, and as you looked around you realized we had lost something we probably will never see again in our lifetime."

The Nov. 13 event affords everyone the opportunity to create something new.

Gatton said the upcoming tree planting will not necessarily be "like for like."

"The way the campus has developed over the years in that regard has not been a well thought-out process," he said. "We plant trees, but we don't have an overall plan for how we're going to do it in general."

The campus lost more than 600 trees in the mowed areas in the May storm; many more, of course, were lost around campus lake and in wooded areas. If there was a benefit, it was that a Kent, Ohio, firm performed a tree inventory of the mowed areas. That process also provided officials with a brand-new tool: GIS-generated overhead photographs of the campus.

"This inventory provides us with a starting point for what our needs are," Gatton said. "We can now take a look and see how many white oaks we have, or red oaks, and also see what tree species we may be missing or don't have enough of."

With the input from the focus group, the plan is to plant trees in a manner that will create thematic areas.

"You might not see the exact same tree, but it might be of a related species," Gatton said. "We're thinking a lot about how we group trees together and also looking at ways to frame the surroundings of the areas with a lot of foot traffic."

He also said focus group conversations have been about both short- and long-term goals.

“This is an exciting opportunity to start the process, but we want to have some long-term goals and come up with a significant plan, much like the campus Land Use Plan,” he said. “For example, we have had conversations about planting more native grasses on campus, areas that we wouldn’t mow.”

Planting 200 trees in one day requires a great deal of planning and advance work. To start with, a subcommittee of the focus group evaluated the types of trees to be planted. After identifying the locations for the new trees, physical plant staff has been locating all the utility lines where trees will be planted, and marking them with small flags. They then have to drill the holes and take the “old” dirt off-site. The trees will be planted in “new” dirt that includes vermicompost from SIUC’s Vermicomposting Center, all of which has to be transported to the various tree locations.

With the holes open for several days, crews are placing plywood over them so people don’t get hurt.

“Our process has been designed so that realistically, we can get 200 trees planted in one day,” Gatton said.

In addition to Gatton, members of the focus group are:

- Katie Smith, a student majoring in Geography & Environmental Resources.
- Adam Oller, a student also majoring in Geography & Environmental Resources.
- Ethan Lindsay, a student majoring in plant and soil science.
- Nickolis Wangelin, a student majoring in plant and soil science.
- Karen Midden, professor, Plant, Soil Science and Agricultural Systems.
- Charles Ruffner, associate professor, Forestry.
- Dave Tippy, assistant superintendent of grounds, physical plant.
- Matthew Therrell, assistant professor, Geography & Environmental Resources.

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NEWS

SOUTHERN ILLINOIS UNIVERSITY | MONDAY, NOVEMBER 16, 2015

November 04, 2009

Media Advisory -- Tree Restoration Project

After losing hundreds of trees in the May 8 windstorm, Southern Illinois University Carbondale is ready to begin the restoration process. Chancellor Samuel Goldman and several students will plant trees outside of Wheeler Hall at 10 a.m. on Friday, Nov. 6. The event also will serve as a call for volunteers from the campus and the community to lend a hand on Friday, Nov. 13. SIUC's goal is to plant 200 trees around the campus that day.

Reporters, photographers and camera crews are welcome to attend the Nov. 6 tree planting ceremony.

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Storm reminder -- Since the May 8 windstorm, crews deposited an estimated 20,000 cubic yards of debris in the parking lot near the law school and 5,000 cubic yards in a parking lot off of Wall Street on the east side of campus. In the photo below, Hansen's Tree Service, from O'Fallon, Mo., turns the trees and limbs into wood chips. (Photos by Chelsea Sturgeon) [Download Photo Here](#)

August 04, 2009

Storm's destruction also creates opportunities

by Tom Woolf

CARBONDALE, Ill. -- While Mother Nature certainly wreaked havoc on the Southern Illinois University Carbondale campus this past spring, she also created opportunity.

The May 8 windstorm uprooted or damaged hundreds of trees. And all of that occurred

just in the main "grassy" areas of campus, not taking into account Thompson Woods and the areas surrounding campus lake.

Philip S. Gatton, director of Plant and Service Operations, believes students should play a role in discussions about tree replacement. He also sees an opportunity to perhaps create stands of various types of trees, such as dogwoods and hardwoods.

Earlier this summer, arborists with the Davey Resource Group from Kent, Ohio, performed an inventory of the grassy areas of campus.

According to the executive summary prepared for Plant and Service Operations, "Storm-damaged trees were identified by the presence of structural damage, uprooted trees, leaning trees, fresh limb or stem breakage, and hanging limbs. Stumps were identified as a result of the storm damage by the presence of disturbed root zone, freshly removed high-risk trees, or even the fallen trees lying beside them."

Their inspection found 957 storm-damaged sites, including 573 trees and 385 stumps. That number represented 14 percent of 6,785 inventoried sites.

The arborists determined that of the 573 storm-damaged trees, 257 are in poor condition, 209 are in fair

condition, 85 are deemed "critical," 16 are in good condition, five are dead and one is in very good condition. Crews removed 177 of the trees deemed to present the most significant potential hazard.

The top five species that sustained damage in the storm were pin oak, sugar maple, eastern white pine, red maple and American sweetgum.

The inventory also provided SIUC officials with a roadmap -- literally. They have in hand GIS-generated overhead photographs of the campus showing the locations, by quadrant, of all the trees and stumps.

Gatton said the University will soon solicit bids for stump grinding, with stumps either being ground in place or taken to a lot where they will be ground into chips. He expects that process to begin about the time the new school years starts later this month.

Hansen's Tree Service, from O'Fallon, Mo., is clearing the two lots that have served as collections points for debris -- one near the law school and the other off of Wall Street on the east side of campus. The trees are being ground into chips, which the tree service is hauling to land it is leasing in Herrin. Eventually, the firm will transport the material to Edwardsville, where it will be re-processed.

Crews removed an estimated 20,000 cubic yards of debris from campus to the law school lot, with another 5,000 cubic yards collected in the Wall Street lot.

Gatton also said the University will try to sell as many logs as possible, an environmentally sound approach designed to minimize burning.

Some grassy areas on campus sustained damage due to the heavy equipment needed to remove fallen trees. Gatton said grounds crews will re-seed those areas this fall.

That also is the best time of year for tree planting, and Gatton wants to involve students in that process, either through class projects or perhaps a focus group. He also noted that the storm altered the canopy in Thompson Woods, which in turn will alter species and growth under the canopy.

"I want to see students involved in helping to restore our tree stock," Gatton said. "We lost a lot of trees. But this can be an opportunity for students to learn."



Spring 2009

SIUC Memorial Tree Project

GEOG 433 Field Methods' Class

Follow this and additional works at: http://opensiuc.lib.siu.edu/srs_2009

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About the Project

The SIUC Memorial Tree Project is an ongoing effort begun by the Geography and Environmental Resources Department's 'Field Methods' class in Spring 2008. The project gives us a chance to look at and assess trees (and other objects) dedicated as memorials to individuals and events important to the SIUC community. The Grounds Department of SIUC Physical Plant and Service Operations (P&SO) manages the Memorial Tree Program.

Acknowledgements

We would like to thank David Tapp, Dennis Kehra, and the SIUC Grounds Department for advice and support.

We would also like to thank Leah Broeders and Dana Coffey at Morris Library.



Figure 1. Students located memorial trees using old hand-carry maps showing the general area of the memorial tree locations. They then collected GPS co-ordinates, photographed and verified species type and other relevant information for each tree.



Figure 2. A database of tree location co-ordinates was developed and used to create a "Google Earth" map showing the exact location for each tree across the SIUC campus. The tree location file was also imported into the online "Google Maps" and made publicly available.



Figure 3. Photographs of the individual Memorial Trees and plaques as well as information about the memorial were posted online and associated with the individual tree location point in Google Maps. Links to more information about the memorial are also provided.



Figure 4. We also developed a draft webpage describing the Memorial Tree Project and providing links to the Google Map of tree locations and other relevant links such as the P&SO, which manages memorial tree planting and maintenance on campus. We plan to continue working with P&SO on future assessments and mapping.



Figure 5. We are currently working on developing individual web pages for each memorial tree (or structure) that will provide detailed information not only about the memorial itself but also the individuals or events being memorialized. This will include a variety of information including historical documents such as newspaper stories.

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GROUNDS

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SERVICES

Donating a Memorial
Tree

DONATING A MEMORIAL TREE

If an individual or College is looking for a way to memorialize a deceased colleague, Plant and Service Operations offers a service to plant and maintain a donated tree. The following steps should be taken to request this service:



- The donor should contact the SIU Foundation or College of choice.
- The SIU Foundation will utilize a Foundation account for billing purposes.
- The SIUC Foundation/College will submit a [Request for Physical Plant Services](#) form to the Facilities Operations Center (FOC) -

Fax: 453-7722

- (Please include a contact person's name who will know the particulars about the memorial tree.)
 - Service Requisition (SR) to cover cost of tree.
 - Physical Plant Grounds Department will plant and maintain the tree at PSO's expense.
- FOC will receive the RPPS-SR and prepare the work order.
- FOC will forward the job number of each order to the person requesting the work.
- After the work order is received by the craft foreman, the foreman will contact the donor to discuss the particulars of tree type, location site, timing of planting the tree and any ceremony they may want to hold.

After the work is completed, the Physical Plant will bill the account listed on the RPPS.

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ARBOR DAY TREE PLANTING

**@ ENGINEERING PARKING LOT #37
APRIL 17TH 10-11:30/ 12-2PM**

**RAIN OR SHINE
DRESS APPROPRIATELY**

**FOR MORE INFORMATION
CONTACT GROUNDS DEPT.
618-453-8185**

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**TREE
CAMPUS
USA**

As things get colder, have you started planning a tree-planting party?

- Consider the weather, soil conditions, and the type of tree you want to plant.
- Research the best time to plant trees in your area.
- Contact your local nursery or extension office for more information.
- Plan a date and time for your tree-planting party.
- Invite friends and family to join you.
- Prepare a list of trees to plant and the locations.
- Bring water, snacks, and tools.
- Have fun and enjoy the outdoors!



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tree planting

Southern Illinois University Carbondale

