

Have You Ordered Your "Tree Tag"?

"Trees Make a Difference" is the message of the new Tennessee "Tree Tag", a specialty license plate that promotes trees while supporting the cause of urban forestry. A percentage of the cost goes toward the Tennessee Urban Forestry Council. As soon as 1000 tags have been pre-sold for \$35.00 each, printing will begin and you can take your message to the road. If you haven't ordered yours, what are you waiting for? Go to www.tufc.com and either order the Tree Tag online or print and mail an order form. If you're not already a



member of TUFC, look into our special half-price new memberships when purchased together with the Tree Tag.

What is on the horizon for Urban Forestry? Urban Tree Canopy Assessment and Goals

The goal of the Urban Tree Canopy (UTC) assessment is to provide decision makers with detailed metrics regarding the tree canopy that exists in the urban forest. The metrics allow them to not only understand the urban forest in its current form, but to plan feasible approaches to increasing UTC. The UTC assessment was designed to answer two principal questions often posed by decision makers: (1) *How much tree canopy do I have?* (2) *How much tree canopy could I have?* For more information go to:

New TUFC Chapter Forming, "Trees Nashville"

Exciting things are happening on the grassroots level in Middle Tennessee! Using the Trees Atlanta model (see http://www.treesatlanta.org), this new group will further the Council's mission to promote healthy and sustainable urban forests by providing leadership and assistance through advocacy, education, planning and collaboration. To get involved, contact Chris Armour at christopher@treesnashville.org, (615) 320-1561, website www.treesnashville.org.

http://nrs.fs.fed.us/urban/utc/. Be sure to click on the map showing which cities currently are working on UTC goals.

Tree Canopy Note from the State Urban Forester, Bruce Webster: The Division of Forestry, Department of Agriculture is currently working on developing some expertise in analyzing aerial photos to determine the percent of canopy cover in Tennessee communities. We have done a couple of pilot communities to see whether it is feasible, and whether it is worth pursuing given the Division's limited access to some of the more sophisticated software that is currently available, and the training to use it. However, Steve Scott, State Forester for the Forestry Division is very interested in measuring canopy cover in communities as a tool for managing the tree resource in Tennessee's cities and towns. Watch for additional developments in future Branching Out issues.

TAEP Plants Trees in Tennessee Communities

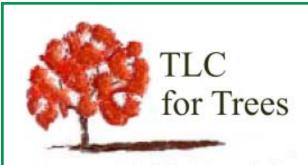
The Tennessee Division of Forestry reports that The Tennessee Ag Enhancement Program (TAEP) has awarded 32 grants to cities and towns for Fiscal Year 2009 to plant over 2500 trees in communities across the state.

TAEP was established with the increase in tobacco taxes to help agriculture by giving farmers grants for hay storage, grain storage, or related farm projects. The community tree planting component helps communities plant trees, thereby increasing tree canopy in cities and towns. By requiring trees come from Tennessee, however, community tree planting helps both cities and the nursery component of Tennessee Agriculture.

Grant applications are typically due in the spring, with contracts in place to plant trees the following fall or in the spring of the next year. Eligible grantees include local governments and non-profits, and the grant requires a cash match equal to the grant. Complete specific application requirements are found in the request for proposals handout, which is made available in the spring approximately 6 weeks before applications are due. The 2009 grantees are:

Bartlett * Community Foundation of Chattanooga * Grainger Co. H.S. Crossville * Gallatin Downtown * Hendersonville Knoxville * Knox Co. Hardin Valley School * Knox Co. Parks Loudon * Jackson Co. Leadership Fdn. * Macon Co. Park Commission Monterey * Memphis Cooper Young Neighborhood * Memphis Agri-Ctr. Parsons * Memphis Center City Commission * Pigeon Forge Scott Co. * Sevierville New Center Elementary * Putnam Co. Shelbyville * Knox Co. Beverly Walking Trail * Hartsville Rotary Tullahoma * Maryville New Intermediate School * Jonesborough Pulaski * Gallatin Farmer's Market * Williamson Co. Sweetwater * White House





www.TLCforTrees.Info One-Stop Website for Tree Questions

TUFC Awards Municipal Forestry Institute Scholarships

The Tennessee Urban Forestry Council is pleased to be sponsoring scholarships to the 2009 Municipal Forestry Institute (MFI), which will be held February 22-27 in Ridgeland, South Carolina. MFI is an exciting high-level training opportunity educating professionals in the leadership and managerial aspects of urban forestry programs. This week long intensive educational program delivers a challenging professional growth opportunity to shape a successful community forestry program.

Past MFI graduates comprised the scholarship selection committee. The Council's scholarships "will help build capacity in the local urban forestry programs throughout the state" noted selection committee chairman, Dr. Douglas Airhart. Receiving partial scholarships are the new City Arborist, Todd Snackenberg, of the City of Franklin and the Natural Resources Technician, Nick Bridgeman, with the City of Lakeland.

For more information on MFI, point your browser to: <u>http://www.urban-forestry.com/mc/page.do</u>



Helping to Build Healthy Communities With Trees Help make a difference in your urban forests tomorrow--join TUFC today! <u>WWW.tufc.com</u>

TUFC 2009 Board

EAST TENNESSEE

Liz Didier - Utility Forester, Knoxville Utility Board

Patrick Haller - SECRETARY, Haller Landscaping and Lawncare, Sparta

Todd Morgan - Program Director, Morristown Community Development Corporation

Jon Nessle - Arborist & Landscape Consultant, Chattanooga

Warren Nevad - Mgmt Consultant, UT Municipal Tech Advisory Svc. Patrick Walding - IMMEDIATE PAST PRESIDENT, City Forester, Johnson City

MIDDLE TENNESSEE

Dr. Nathaniel Appleton Postdoctoral Research Associate, TN State Univ.

Zach French - SECOND VICE PRESIDENT, Arborist, Tree Solutions Consulting, Nashville

Carl Herbison - Chairman, Dickson Tree Board

Karla Kean - PRESIDENT - TSU Extension, Clarksville

Heather Langford - FIRST VICE PRESIDENT Sustainable Solutions Group, Nashville

Derrick Lynch, Environmental Systems Supervisor Middle TN Electric Membership Corp., Murfreesboro

Hester Rodgers - Chairman, Pulaski Tree Board

Todd Snackenburg, Arborist, City of Franklin

WEST TENNESSEE

Sharon Burch - Central Gardens Neighborhood Assn. Jimmy Ferrell - TREASURER Arborist, Ferrell's Tree Service, Memphis Susan Murray - West TN Chapter, TUFC Trey Watson - Forester, Jackson Energy Authority

ONE YEAR APPOINTMENTS

Dwight Barnett, Area Forester Mike Leventhal - Asset Equity Corporation Thomas Solinsky, SongForest John Wasmer - ACRT, Operations Manager

URBAN FORESTRY STAFF

Jennifer Smith - Executive Director, TUFC 615-352-8985, <u>tufc@comcast.net</u>

Bruce Webster - Staff Urban Forester, Division of Forestry 615-837-5436, <u>bruce.webster@state.tn.us</u>

Brian Rucker - Asst. Staff Urban Forester, Division of Forestry 615-837-5439, brian.rucker@state.tn.us

Tom Simpson - East TN Regional Urban Forester, Div. of Forestry 865-908-4434, tom.simpson@state.tn.us

Shawn Posey - West TN Regional Urban Forester, Div. of Forestry 901-754-5185, shawn.posey@state.tn.us

New and Renewing Membership

West Tennessee Chapter

Ann Frogge
Follis Tree Preservation
Historic Elmwood Cemetery
Jim Volgas
Bruce Webster

Kevin Smith Mary Beth Sheppard Terran Arwood Timberland Tree and Lawn Care Shawn Posey

Non-Profit

American Society of Landscape Architects Dickson tree Board Historic Elmwood Cemetery Middle Tennessee Electric Corporation Town of Rogersville Reflection Riding Arboretum Tennessee Nursery and Landscape Association

Individual

Ann Frogge Blair Parker Burke Renner Diana Gennett Jimmy Volgas John Bohonis John Gunckel Josh Henrick Kevin Smith Lisa LaForest Manuel McKnight Martin Brown Mary Wade Wes Hopper Paul Stuffel Richard White Russ Adsit Steve Scott Kevin Guenther Bruce Webster Shawn Posey Brian Rucker Bill Wyatt Lillian Manning Terran Arwood Lewis Kearney

Government

City of Chattanooga City of Clarksville City of Cleveland City of Cookeville City of Franklin City of Harrogate City of Kingsport City of Kingston City of Lakeland City of McMinnville City of Morristown City of Sevierville City of Tullahoma Metro Nashville Beautification and Env Tennessee State University University of Memphis

Business

ABC Tree Service Arbor Care of East Tennessee Druid Tree Service Page | Duke Landscape Architecture **Bristol Electric Systems** Dyersburg Electric System Follis Tree Preservation Meriweather Lewis Electric Cooperative The Ornamentor Poteet Tree Service Quality Tree Surgery **Ragan-Smith Associates** Southern Land Co. Steve Clark and Associates Timberland Tree and Lawn Care Volunteer Energy Cooperative

Patron

Atticus Trust

Urban Forestry Hires in 2008, Cities of Bartlett, Clarksville and Franklin

The City of Bartlett's (Population about 49,000) new urban forester, Steve Springer, also wears the hat of stormwater coordinator. After a twenty year career in another field, Steve went back to college to study forestry. While at UT, he worked as a student forester with the Knoxville Utility Board. Since then, Steve has had experience in forest management at the Natchez Trace State Forest. His position with Bartlett is housed within the engineering department and he serves on the staff of both the Planning and the Design Review Commissions. Steven sees the role of urban forestry to include public education, a resource to the community and to work on forestry ecology and beautification issues. Steve's contact information: sspringer@cityofbartlett.org, www.cityofbartlett.org/index.asp?NID=146.



The City of Clarksville (Population about 124,000) has filled their urban forestry position with Clint Patterson who had been a district forester covering six counties in Illinois. He



received his degree form Southern Illinois University in forestry. He was attracted to Clarksville for its tremendous potential with the uniqueness of having both the Cumberland and Red Rivers. His vision is to bring a melding of natural areas with the built environment through planting large growing trees, increase the tree varieties from the traditional choices and to add more greenways; thus, blurring

the line between Clarksville's rural, suburban and urban landscapes. Clint's contact information <u>clint.patterson@cityofclarksville.com, www.cityofclarksville.com/forester/index.asp</u>.

The City of Franklin (population around 60,000) created a new City Arborist position which Californian Todd Snackenberg filled last April. The position is housed in the Parks Department but Todd works with the codes, engineering, planning, solid waste and street departments. Todd has extensive experience working on the tree crew of Escondido, California and as a utility forester in Williamson County in Tennessee. Current projects in Franklin include facilitating tree planting grants to plant 184 trees in the city parks and also to do a tree inventory. The inventory will initially be conducted in the downtown "character area" of which Franklin is divided into eight of these areas. From the inventory, Todd plans on developing a five- year management plan. One goal is to create a tree crew and fund the needed equipment for their operation. Todd may be reached at todd.snackenberg@franklin-gov.com, www.franklintn.gov/parks/arborist.html.



TUFC Mission Statement

The Tennessee Urban Forestry Council serves as an advisory body to promote healthy and sustainable urban and community forests in Tennessee by providing leadership and guidance through education, planning, advocacy, and collaboration. The best friend on earth of man is the tree: When we use the tree respectfully and economically, we have one of the greatest resources on the earth.

--- Frank Lloyd Wright

Again We Wish to Thank Our Conference and Tree Climbing Championship Sponsors

17th Annual Conference Nature of Design: Educating for the Future

Sponsors Belgard Hardscapes David Leonard Consulting Arborist, Inc. Tennessee Valley Authority USDA Forest Service & TN Div. of Forestry

Friends Carol R. Johnson Associates Cortese Tree Specialists Steve Clark & Associates

Exhibitors Barge, Waggoner, Sumner and Cannon Davey Resource Group Deep Root Partners Ewing Irrigation, Golf and Industrial Integrated Paving Concepts Irrigation Consulting, Inc. Knoxville Utility Board Land FX Landscape Forms Moon's Tree Farm National Tree Preservation, Inc. Outdoor Recreation Pine Hall Brick Samara Farms, LLC Tenn. Dept. of Agriculture Tenn. One-Call System, Inc. Thoms Trees & Plants

10th Tree Climbing Championship

Presented by the Tennessee Urban Forestry Council. Thank you, sponsors! We appreciate your support!

USDA Forest Service Tennessee Division of Forestry Poteet Tree Service Wolf Tree Experts ABC Tree Service Arbor Medics Tree Care Specialists Arborcare of East Tennessee Cortese Tree Specialists, Inc. Davey Tree Expert Company Ferrell's Tree Service Tree Care Products Middle Tenn Electric Membership Corporation

North America Training Solutions, Ltd. Natural Resources Recovery Inc. Nature's Best Products Evergreen Tree Service Knoxville Utility Board Nick Kuhn Altec Buckingham Manufacture CMI Sherrill Tree Vermeer of Tennessee Samson Rope

At the Annual Nashville Electric Service State of the Tree Report was Linda Breggin of the Nashville Mayor's Green Ribbon committee, NES President Decosta Jenkins and TUFC Director, Jennifer Smith



Tree Planting at a Habitat For Humanity development project coordinated by the Tennessee Environmental Council. On hand for this Neighborwoods tree planting were TUFC Board member Zach French and TUFC Director Jennifer Smith.



URBAN FORESTRY IN ACTION

More than 60 volunteers planted 40 trees at the Nashville Tree Foundation's fall planting November 22. The seventh annual ReLeafing Day is always held the Saturday before Thanksgiving. Looking on is Betty Brown and Randal Lantz of the Tree Foundation while Nashville Mayor Karl Dean, Nashville Electric Service President, Decosta Jenkins and other volunteers prepare the ground for planting.



The 2009 TUFC President Karla Kean, Clarksville Tree Board Chair Dottie Mann, Pulaski Tree Board Chair Hester Rodgers and TUFC Director Jennifer Smith attend the Second Annual Summit for a Sustainable Tennessee to represent the urban forestry interest in the state. The Urban Forestry Council was one of many groups that came together to facilitate this environmental forum. www.tectn.org/sustainabletn.htm

Shelby County Offers Certified Master Urban Forestry Training Course

Shelby County Extension Service is offering its second Certified Master Urban Forestry training course. This course is designed to increase participants' level of knowledge about trees, and is open to individuals of all levels of tree knowledge, from novice to professional.

Dr. Joy Anderson, Extension Agent for both Shelby Co. and Desoto Co. Mississippi, implemented the program after MS Governor Barbour wanted a program to help their urban forests after the rash of devastating hurricanes that hit MS in the last 4 years. Dr. Anderson brought the course from MS, and used the familiar Master Gardener program format for the urban forestry course.

The course lasts for five weeks and participants receive twenty hours instruction on trees, tree care, and related program information. Program subject areas include: (1) Tree identification, care, biology and physiology, (2) Tree inventory and new technologies, (3) Ordinances, (4) Urban Forestry organizations and programs on the local, state and national levels, such as National Arbor Day Foundation and Tree City USA.

Graduates are required to provide twenty hours of community service in the area of urban forestry to receive their certificate.

Some of the community service efforts by last year's graduates include providing tree risk assessment to a public garden, working on creating a certified arboretum, and serving on the committee to gain Tree City USA status for Memphis.

If you would like an application and more information about the training program starting in January please contact the Shelby County Extension Office at 901-752-1207.

Special Notice: Be on the lookout. An article on our Landmark and Historic Tree Register, *Tennessee's Famous Trees*, will be featured in the March/April 2009 issue of the *Tennessee Conservationist*. It was written by East Tennessee Regional Urban Forester Tom Simpson.

The TUFC held a board and a Town Hall meeting in Franklin near the historic Carnton House which played a major role in the Battle of Franklin during the Civil War. The urban forest in the background was once a golf course which will be developed into a battlefield park.

Pictured 2008 TUFC President Patrick Walding, State Urban Forester Bruce Webster, Franklin City Arborist Todd Snackenberg, Franklin City Landscape Architect Molly Pike and TUFC Director Jennifer Smith



Calendar of Events

January 28-29

Middle Tennessee Landscape Management Short-Course, *Keeping the Green in the Green Industry*, Williamson Co. Ag Expo Center, Franklin, (615) 790-5721, msmith43@utk.edu.

January 31

Tree Risk Assessment Seminar, Memphis Botanic Garden, Fred Morgan Instructor, (901) 576-4100. memphisbotanicgarden.com

February 4-5

Tennessee Nursery and Landscape Association Winter Education Program, Music Road Convention Center in Pigeon Forge. Programs with Pesticide and TCNP points. Featured speaker Tony Avent with Plant Delights Nursery. (931) 473-3951, or on the web at http://tnla.com/events.php?id=7

February 17

National Urban and Community Forestry Council 2009 Challenge Cost Share grant Program application deadline. (202) 205-1054, nstremple@fs.fed.us

February 22-27, 2009

Municipal Forester Institute (MFI), Ridgeland, South Carolina. Presented by the Society of Municipal Arborists. High-level training opportunity educating professionals in the leadership and managerial aspects of urban forestry programs. On the web at http://www.urban-forestry.com/mc/page.do

March 7-10

International Society of Arboriculture, Southern Chapter, 67th Annual Conference and Trade Show, Shreveport, LA. www.isasouthern.org

March 8

International Society of Arboriculture, Southern Chapter Tree Climbing Championship, Veteran's Park, Shreveport, LA, www.isasouthern.org

April 6-8

16th Annual Trees and Utilities National Conference, presented by the Arbor Day Foundation, Dallas, TX; (888) 448-7337, www.arborday.org.

May 31

Deadlines: Landmark and Historic Tree Register nominations, Urban Forestry Awards of Excellence nominations and the Arboretum Certification Application deadline.

New Morristown Landscape Ordinance – Note Tree Issues

Features Include:

- * Landscape exemptions were eliminated for the Central Business District and duplex residential developments
- * Performance bonds increased from 120% of cost to 150%. Specific criteria for requesting a bond outlined
- * Specific elements required for a landscape plan detailed
- * Foundation plantings along building facades required
- * Maintenance standards set for required landscaping (no topping, replace when dead).
- * No parking space farther than 50' from a tree required
- * A "tree bank" was established for payments in lieu of landscaping that cannot be installed
- * Bradford Pears, Silver Maples not accepted for landscape requirement
- * Tree protection during construction is included. How to information included
- * Utility easement policy established
- * Buffer yards simplified
- * Recommended species list updated
- * Incorporate a balance between easement requirements and the required street frontage trees (typically one for every 50 feet of road frontage)

Collaborating on the new landscape ordinance was Morristown Tree Board and the Regional planning Commission. Todd Morgan, Program Director for the Morristown Community Development Corporation (www.mymorristown.com/crossroads.htm), authored the ordinance and coordinated the effort. The ordinance was passed on October. 7, 2008 by the City Council with no objections. The landscape ordinance can be found within the 'Zoning Ordinance' PDF and can be opened from the Planning Department webpage located at: www.mymorristown.com/dept_plann.php.

Note that Morristown has a separate tree ordinance as part of their municipal code that was passed in 1991.

Don't forget Tennessee's Arbor Day is the first Friday in March. That's March 6, 2009. This year's State celebration will be hosted by Bristol, which receives this honor by being named the Tree Board of the Year for 2008 by the Tennessee Urban Forestry Council.

What is New in Stormwater Management: Using Trees and Structural Soils to Improve Water Quality

Check out this site describing how structural soils and urban trees can be used for stormwater management at <u>www.cnr.vt.edu/</u> <u>urbanforestry/stormwater</u>. Research topics related to developing this technology included:

- Root distribution and tree physiological responses growing in structural soils being used as a stormwater reservoir, the effect of structural soils on water quality
- Physical properties of structural soils for stormwater management
- Effect of tree root penetration on subsoil infiltration rates
- Use of porous pavements and turf as alternatives to traditional pavement

The website includes:

- A **55-page downloadable how-to manual** designed for stormwater engineers, urban foresters, public works departments, low-impact development practitioners, grass-roots organizations, and others: *Managing Stormwater for Urban Sustainability using Trees and Structural Soils*, 2008.
- A **10-minute visual presentation** with accompanying **notes for presenters** to introduce the concept of trees as stormwater management tools and the structural soil system to developers, city councils, tree boards, landscape architects, stormwater managers, and other practitioners.
- Highlights from the construction of each of four demonstration sites around the country.
- **Technical resources** related to this project, including citations of published research resulting from these studies.
- Links to a **full set of stormwater management and urban forestry resources**



TUFC Board Members Zach French and Heather Langford at the Beaman to Bells Bend Park Celebration in Nashville promoting the Tree Auto Tag.



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- Energy Modeling
- New Construction Commissioning (SSRCx core service)
- Retro-commissioning
- Continuous Commissioning &
- Facility Benchmark Analysis

James D. Qualk • 615.514.6137 • jqualk@ssr-inc.com



Photos: TUFC Annual Board Meeting, Natchez Trace State Forest



The Annual Board Planning retreat was held at the Pin Oak Lodge



TUFC new board members attend the New Board Orientation at the retreat, Todd Snackenberg, Derrick Lynch, Sharon Burch, John Wasmer and Thomas Solinsky.



West Tennessee Chapter President, Dr. Mark Follis of Memphis and Chris Armour of the newly formed Trees Nashville Chapter discuss grassroots issues at the retreat.

Notable Trees of TN Note Cards for Sale

Featuring eight full color images selected from the Notable Trees of Tennessee photographs of historic, landmark, national and state champion trees, they are packaged in sets of four assorted cards with envelopes, two assortments.

Printed on heavyweight vellum, 30% post consumer recycled content, they are ideal for personal correspondence, thank you's to volunteers and supporters, gifts for colleagues and friends. The price will be \$8.00, \$6.00 for TUFC members, tax included. Click here to see the photos featured <u>www.tufc.com/notecards.htm</u>



Ash

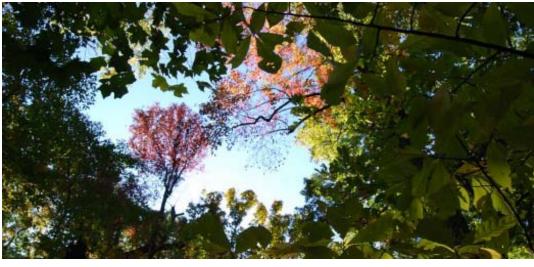
Beech

Northern Red Oak

Pignut Hickory



Shagbark Hickory



Black Gum Rising Above, Sporting Fall Color

Council Provides Contribution to Preserve Old Growth Forest

It is with great interest and support that the Tennessee Urban Forestry Council endorses the Friends of Warner Parks effort to extend the Warner Parks system in west Nashville to include the H. G. Hill Realty Company Tract with a \$2,500 donation. The purchase price of this property is close to 11 million dollars. This effort is in line with the TUFC's mission of promoting healthy and sustainable urban and community forests. This preserve is truly a once in a lifetime opportunity that stands to benefit all future generations. The maintenance of this land tract as a component of Nashville's urban forest will provide priceless community value. The preservation of "old growth" forest as an original wildlife habitat will generate beneficial ecological services. www.friendsofwarnerparks.com/.



Photos provided by Thomas Solensky of SongForest.

Sugar Maple



Tennessee Urban Forestry Council 6820 Cloudland Dr., Nashville, TN 37205 (615) 352-8985 - *www.tufc.com*

Branching Out is a publication of the Tennessee Urban Forestry Council (TUFC).

Newsletter Committee: Dr. Douglas Airhart, Dottie Mann and Jennifer Smith



The Tenn. Dept. of Agriculture, Div. of Forestry, and the TUFC work together to enhance urban forestry statewide.

Economic Incentives for Urban Forestry: Governor's Three Star Program

Tennessee's Three Star Program is an economic incentive program for local governments. Sponsored by the Governor's office and administered by the Department of Economic and community Development, this program offers a "menu of options" for communities to choose from to achieve excellence in community and economic development. By obtaining certain levels, local governments receive grant monies to help build their communities. (Program requirements can be found at <u>http://tennessee.gov/ecd/3star.htm</u>.).

Some of Three Star Urban Forestry Menu of Options Include:

Leadership Development: Community Leadership Education - Attend MTAS (Municipal training Assistance Service) Training, including Urban Forestry Workshops.

Economic Development: Agriculture/Agritourism - Become a Tennessee Certified Arboretum.

Community Development: Beautification - (a) Develop and maintain a Beautification Committee, including Tree Boards, (b) Develop an action plan, including an Urban Forestry Management Plan, (c) Complete beautification projects, including urban forestry projects.

Heritage and Historic Preservation - Tennessee Landmark and Historic Tree Register.

"If what I say resonates with you, it is merely because we are both branches on the same tree."

-- W. B. Yeats

"People who will not sustain trees will soon live in a world which cannot sustain people."

-- Bryce Nelson

Zach French, Tree Solution Consulting Services



Board-Certified Master Arborist #4172BT Registered Consulting Arborist #450 Certified Treecare Safety Professional #30 Member ISA, ASCA, TCIA (615) 579-7539 - tree_solution@yahoo.com

Tree Inventory Pre-Construction Site Assessment and Tree Preservation Tree Valuation 2BT Plant Health Care Education and Training 1 #30 Forensic Investigation Expert Witness

Notable Trees of Tennessee Exhibit Touring Schedule

Look for Schedule on www.tufc.com If you want to host this exhibit, contact Jennifer Smith - tufc@comcast.net