



PRESENTS THE

2015 TEXAS TREE CONFERENCE

TREE ACADEMY, TRADE SHOW & TREE SCHOOL































Conference At-a-Glance

Wednesday, September 30

8:00 am - 5:00 pm Registration open

9:00 am - 12:00 pm Tree Academy Morning Session

1:00 pm - 5:00 pm Tree Academy Afternoon Session

8:00 am - 5:00 pm Electrical Hazard Awareness Program

1:00 pm - 5:00 pm Exhibitor set up

5:00 pm—6:00 pm TUFC Annual Meeting

(Texas North Room 113)

6:00 pm - 7:30 pm ISAT Dinner and Social

Thursday, October 1

7:00 am - 5:00 pm Registration Desk and Bookstore open

7:00 am - 5:00 pm Trade Show open

7:00 am- 7:50 am Breakfast with Exhibitors

8:00 am - 11:45 am General Session

12:00 pm - 1:15 pm Awards Luncheon

1:30 pm - 5:00 pm Breakout Sessions

5:00 pm - 7:00 pm Reception with Exhibitors & Silent

Auction

Friday, October 2

7:00 am - 10:30 am Registration Desk and Bookstore Open

7:00 am - 10:30 am Trade Show Open

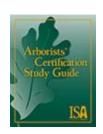
7:00 am - 7:50 am Breakfast with Exhibitors

8:00 am - 9:00 am ISAT Annual Meeting

9:00 am - 12:00 pm Breakout Sessions

9:30 am - 3:30 pm Texas Tree Schools

12:30 pm - 4:30 pm ISA Certified Arborist Exam



ISAT Bookstore

Open All Day Thursday
Friday until 10:30 am
ISA & ISAT Apparel and Merchandise
Books, CEU Materials & Study Guides,
Discounted Member Rates!

Welcome!

The Texas Chapter ISA invites you to enjoy the outstanding education programs featuring nationally and internationally known speakers, the latest in tree research, commercial, urban and utility forestry talks, the state-wide tree awards luncheon, a trade show and reception with exhibitors and numerous opportunities to network with your peers. Get ready—It's time for you to get Tree-nected!

Wednesday
Dinner and Evening Social
At the Suspension Bridge

6:00 pm to 7:30 pm

On the River across from the Convention Center

Silent Auction

All Day Thursday and Friday until 10:00 am



2015

Texas Community Forestry
and Tree Care
Awards Luncheon



Brazos Ballroom Thursday 12:00 - 1:15

Arborist of the Year
Arboricultural Project of the Year
Volunteer of the Year
Outstanding Arbor Day Award

ISA CERTIFICATION EXAM

Friday, October 2, 12:30 pm - 4:30 pm

2015 TEXAS TREE CONFERENCE

Featured Speakers

Dr. Chris Luley, Pathologist/Vice President, Urban Forestry, LLC, New York

Christopher J. Luley, Ph.D. joined Urban Forestry LLC in the fall of 2004. He was State Forest Pathologist for Missouri and managed the Plant Diagnostic Clinic for Iowa State University. His graduate degrees are in forest pathology from SUNY College of Environmental Science and Forestry at Syracuse and Iowa State University. Dr. Luley has over 50 technical publications on urban tree topics and three books in publication.

Geoffry Donovan, Economist, USDA Forest Service, Oregon

Dr. Donovan has quantified a wide range of urban-tree benefits. These have ranged from intuitive benefits—reduced summertime cooling costs, for example—to less intuitive such as crime reduction. More recently, he has focused on the relationship between trees and public health.

Rosa Elena Gomez De La Torre, Owner, Arboricultura Urbana y Paisaje, Cuernavaca, Mexico

She is an ISA Certified Arborist from Cuernavaca, Mexico. She is a member of ISA and the Mexican Association of Arboriculture. Roselen has been a member of the ISA Hispanic Committee from 2007-2010 and 2012-2015. She is the owner of a tree care company called Arboricultura Urbana y Paisaje that has been in business since 2004.

Drew Zwart, Plant Pathologist, Bartlett Tree Research Labs, California

Dr. Zwart is a plant pathologist and physiologist with Bartlett Tree Research Laboratories. Drew earned his Ph.D. at the University of Washington studying plant stress physiology with a focus on plant/pathogen interactions. Drew received his B.S. in agronomy from Cornell and M.S. in plant pathology from Clemson. He currently conducts research on plant stress and disease resistance, and provides technical support for the Bartlett Tree Experts in Texas, California, and the Pacific Northwest.

Edith Makra, Chairperson, Metropolitan Mayors Caucus, Illinois

Edith Makra is the Director of Environmental Initiatives for the Metropolitan Mayors Caucus where she supports local governments in taking environmental actions that lead to regional sustainability. She is Chairperson of the Illinois EAB Wood Utilization Team, where she promotes 'full circle urban forestry' to capture value in felled community trees as urban forest products. She has a BS in Forestry from the University of Illinois.

Nelson Money, President, NRM-VMS, Inc, California

Nelsen R. Money has over 40 years of experience in the electric and gas utility vegetation management industry. He is Past President of the Utility Arborist Association (UAA) and was the 2014 recipient of the UAA's Education Award and 2012 UAA President Award. He has a BS in Forestry from Humboldt State.

Dr. Hans Williams, Associate Dean and Professor of Forestry, Stephen F. Austin State University, Nacogdoches

He has been at SFASU for more than 22 years. He teaches undergraduate and graduate courses in forest tree physiology, arboriculture, wetlands ecology and assessment, and environmental management. His research interests include the environmental stress physiology of trees, seedling quality and establishment, and wetlands restoration and assessment.

Daniel Woodroffe, President, dwg, landscape architecture, Austin

Daniel Woodroffe, PLA has practiced landscape architecture for over fifteen years. He founded dwg in Austin, Texas with a distinct focus on creating urban architectural landscapes. Daniel has amassed a wealth of urban design, open space, adaptive reuse, infill and green infrastructure experience. He is currently the Austin Parks Foundation President, a former board member of the Downtown Austin Alliance, and past chair of the Congress Avenue WOW Committee.

Delia Roberts, President and Head of Research, FitSafe Solutions, Inc., Castlegar, BC, Cananda

Dr. Delia Roberts began her career in high performance sport, working with some of Canada's top athletes including numerous Olympic medalists. She first began working with occupational athletes in 2000 when she conducted a research study with tree planters in Western Canada. Since that landmark study she has developed injury prevention programs for other forestry workers, pilots, physicians, mountain guides and workers at snowsport resorts. She currently resides in south central British Columbia.

Jim Skiera, ISA Executive Director, Mahomet, Illinois

Jim received his Bachelor of Science degree in landscape architecture, with a secondary major in ornamental horticulture from the University of Wisconsin in 1980. He practiced as a landscape architect as president and owner of the Landscape Guild in Denver, Colorado from 1981-1988, served as City Arborist for the City of Urbana, Illinois, from 1988-1992 and also as the landscape superintendent for the University of California, Davis from 1992-1994. Jim has worked for the ISA since 1994 and serving as Executive Director since 2005.

Artura Del Castillo, Senior Designer and Interim Associate Director, Dallas citydesign studio, Dallas

A licensed architect, he received his BS in Architecture from California Polytechnic State University, San Luis Obispo and a Masters of Architecture in Urban Design from Harvard University Graduate School of Design. He's practiced architecture and urban design in San Francisco for several firms and most recently for RTKL in Dallas. Currently, he is the senior urban designer for the City of Dallas citydesign studio working to advance design excellence in the city.

Pete Smith, Urban Forestry Program Manager, Arbor Day Foundation, Lincoln, Nebraska

Pete Smith is the Urban Forestry Program Manager at the Arbor Day Foundation, headquartered in Lincoln, Nebraska. He supports community forestry recognition programs such as Tree City USA and Tree Line USA, as well as the Partners in Community Forestry conference. Before joining the Arbor Day Foundation in 2014, Pete served in the Urban Forestry program for the Texas A&M Forest Service, where he spent a total of 26 years. He is an ISA-Certified Arborist, with municipal and tree risk credentials.

Nathan Arnold, Safety Manager, K&D Aviation, Nowata, Oklahoma

Nathan Arnold has worked in various forms of aviation. After a career as a paramedic where he flew if both fixed and rotor wing aircraft, Mr. Arnold now works in the utility field of transmission and gas line survey with the use of rotor aircraft. Safety plays an important role in the success of any flight and Nathan is an advocate for the use of Crew Resource Management by all members of the crew.

Philip Erwin, Chief Arborist, City of Dallas, Building Inspection Division, Dallas

Philip Erwin has been the Chief Arborist for the City of Dallas since 2007, and has worked as an arborist with the city since 1998. He is a 1995 graduate of Stephen F. Austin State University with a BS in Forestry and an ISA Certified Arborist. He is a board member on the Trinity Blacklands Urban Forestry Council and advisor to the Dallas Urban Forest Advisory Committee. He manages the Dallas Reforestation Program which provides over 1,000 trees per year for neighborhoods and parks.

WEDNESDAY, SEPTEMBER 30 - TREE ACADEMY

(The Tree Academy requires a separate registration from the Conference - includes lunch)

Texas Tree Academy



9:00 am - 5:00 pm (Registration 8:00—9:00)

Section One: Pathology and Ecology of Wood Decay Fungi

McLennan Rooms 208-209

Dr. Chris Luley, Pathologist/Vice

President, Urban Forestry, LLC

Decay fungi interact with trees in a variety of ways that impact their importance to tree risk assessment and stability. A small number of wood decay fungi are pathogens that can decay living sapwood. Professional arborists will learn the aggressive decayers and identify symptoms that indicate tree defenses are not working.

Section Two: Field Stations

Station 1: Soil Texture Determination in the Field Dr. Hans Williams, Associate Dean and Nelson Distinguished Professor of Forestry, Stephen F. Austin University, Nacogdoches

Station 2: The Use of Sonic Tomography and Resistance Drilling for Advanced Decay Detection Clint Pearson, Southwest Division Technical Services Specialist', Bartlett Tree Experts, Dallas

Station 3: Urban Wood Utilization—Portable Sawmill Demonstration

Mark Duff, Urban Forester, Texas A&M Forest Service, San Antonio and Dan Keierleber – Alamo Woodworking, Inc., San Antonio

Station 4: Unmanned Aerial Vehicles (Drones)

Dan Staley, Principle, Amalemma Resources, Aurora,

Colorado

Station 5: Ground Penetrating Radar to Detect Tree Roots

Gary Raffel, Vice President, Dynamic Tree Systems, Bloomfield, New York

OTHER WEDNESDAY EVENTS



Electrical Hazard Awareness Program (EHAP) in Spanish Dr. Martha Romero

Texas South Room 117

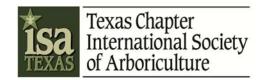
8:00 am-5:00 pm

The Electrical Hazards Awareness Program, or EHAP, is a training program that employers can use in conjunction with documented on-the-job skill training and assessment to increase awareness and assure the competency of their employees to work safely and to meet ANSI and OSHA requirements.

Wednesday Dinner, Evening Social (and Tortilla Toss)

6:00 PM to 7:30 PM BBQ, Beer & Networking

Waco Suspension Bridge
Across from the Convention Center
Included with full-conference registration
You must wear your name tag to attend



THURSDAY, OCTOBER 1 - TREE CONFERENCE

Day	y At-a-Glance
Thurs	sday, October 1
7:00 am - 5:00 pm	Registration Desk and Bookstore open
7:00 am - 5:00 pm	Trade Show open
7:00 am - 7:50 am	Breakfast with Exhibitors
8:00 am - 11:45 am	General Session
12:00 pm - 1:15 pm	Awards Luncheon
1:30 pm - 5:00 pm	Breakout Sessions
5:00 pm - 7:00 pm	Reception with Exhibitors and Silent Auction

General Session 8:00 am - 11:45 am

McLennan Rooms 208—209

8:00 - 8:15

Welcome by City of Waco Representative

8:15 - 9:15

Building Bridges In Arboriculture and Urban Forestry

Jim Skiera , Executive Director, ISA International,

Champaign, Illinois

9:15 - 10:15

Trees: A Matter of Life and Death?

Geoffry Donovan, Economist, USDA Forest Service, Portland,

Oregon

10:15 - 10:45

Break with Exhibitors

10:45 - 11:45

Sharing Near-Misses: Connecting Your Workers for a Safer

Environment

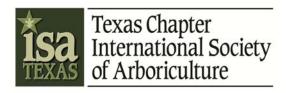
Richard Bewley, Senior Forester, AEP Transmission,

Columbus, Ohio

Municipal Track—McLennan Room 208	Commercial Track—McLennan Room 209	Utility Track—Texas South
1:30 - 2:15 pm	1:30 - 2:15 pm	1:30 - 2:15 pm
The Economic Benefits of Urban Trees	The Not-Too Distant Future:	OSHA 1910 269 Changes
Geoffry Donovan, Economist, USDA Forest	Arboriculture with Unmanned Aerial	Mark Foster, Safety Operations Manager,
Service, Portland, Oregon	Vehicles	Asplundh Tree Experts, Willow Grove, PA
Jeruse, Fernana, Gregon	Dan Staley, Principle, Amalemma	
2:15 - 3:00 pm	Resources, Aurora, Colorado	2:15 - 3:00 pm
State of the Dallas Urban Forest: Changing		Helicopter Safety
How Dallas Views Trees	2:15 - 3:00 pm	Nathan Arnold, Safety Manager, K&D
Philip Erwin, Chief Arborist, City of Dallas and	The Occupational Athlete: Injury	Aviation, Nowata, Oklahoma
Matt Grubisich, Operations Director, Texas	Prevention and Performance	
Tree Foundation, Dallas	Enhancement	3:00 - 3:30 pm
	Dr. Delia Roberts, President, FitSafe	Break with Exhibitors
3:00 -3:30 p.m.	Solutions, Inc., Castlegar, BC, Canada	
Break with Exhibitors		3:30—4:15 pm
	3:00 - 3:30 pm	State of Emotions: What Goes On Inside
3:30 - 4:15 pm	Break with Exhibitors	Effects Everything Outside
My City's Trees: A look at Urban Forest		Shawn Huff, Senior Consulting Utility
Inventory & Analysis of Austin	3:30 - 4:15 pm	Forester, Davey Resource Group, Lago
Gretchen Riley, Partnership Coordinator and	Root Disease: Biology, Assessment and	Vista, Texas
Brad Hamel, Urban Forester, Texas A&M	Management	
Forest Service, College Station and Austin	Dr. Chris Luley, Pathologist/Vice	4:15 - 5:00 pm
	President, Urban Forestry, LLC, Naples,	Managing Transmission Rights of Way as
4:15 - 5:00 pm	New York	an Asset for Your Utility's Image
40 Years of Tree City USA: A Program		Nelson Money, President, NRM-VMS, Inc,
Update from the Arbor Day Foundation	4:15 - 5:00 pm	Grass Valley, California
Pete Smith, Urban Forestry Program	Reclaiming Wood Products From the	
Manager, National Arbor Day Foundation,	Urban Forest	
Nebraska City, Nebraska	Edith Makra, Chairperson, Metropolitan	
	Mayors Caucus, Chicago, Illinois	

FRIDAY, OCTOBER 2 - TREE CONFERENCE

Dav	y At-a-Glance
Frid	lay, October 2
7:00 am - 10:30 am	Registration desk and Bookstore open
7:00 am - 10:30 am	Trade Show open
7:00 am - 7:50 am	Breakfast with Exhibitors
8:00 am - 9:00 am	ISAT Annual Meeting
9:00 am - 12:00 pm	Breakout Sessions
9:30 am - 3:30 pm	Texas Tree Schools
12:30 pm - 4:30 pm	ISA Certified Arborist Exam



The Texas Tree Schools

9:30 am to 3:30 pm Texas North Rooms 114-115

Track 1 - An Introduction to Arboriculture

A great review or introduction to basic tree care for tree workers. A stand-alone one day workshop that will be a combination of classroom and field demonstrations. Topics covered will include basic tree biology, tree pruning, ascent techniques review, tree hazard assessment, job site safety and chain saw operation and safety. Master instructors are Guy LeBlanc and Brad Hamel.

Pista 2 - Jornadas para Trabajadores de Arboles - 5.0 CEUs

Texas North Room 113

A Spanish language workshop covering tree biology, soil science, tree selection, installation & establishment, pruning, and diagnosis & plant disorders. The class will be led by Mark Duff of the Texas A&M Forest Service .and Rosa Elana of Arboricultura Urbana y Paisaje in Cuernavaca, Mexico.

General Session - 8:00 am - 9:00 am - McLennan Room 209

ISAT Business Meeting and Election Results - Updates from ISA International and the TREE Fund

isal business Meeting and	election Results - Opdates from ISA Interna	tional and the TREE Fund
Municipal Track—McLennan Room 208	Commercial Track—McLennan Room 209	Utility Track—Texas South
9:00 - 10:00 am	9:00 - 10:00 am	9:00 - 10:00 am
Stormwater Management: Low Impact	Where Do Native Texas Trees Come	Dos and Don'ts For Handling The Media
Development and Trees	From?	Alicia Dixon, Manager Public Relations,
Fouad Jaber, Associate Professor, Texas	Scott Ogden, Principal, Plant Driven De-	CenterPoint Energy, Houston
Agrilife Extension Service , Dallas	sign, Austin	
		10:00 - 10:30 am
10:00 - 10:30 am—Break with Exhibitors	10:00 - 10:30 am	Break with Exhibitors
10:20 12:00 am	Break with Exhibitors	
10:30 - 12:00 am		10:30 - 11:15 am
Low Impact Development Strategies in	10:30 - 11:15 am	Challenges of Recruitment and Retaining
Urban Areas: 3 case studies	Biochar Soil Amendments and Carbon	Qualified Employees
-Context Matters: Urban Tree Preservation	Concerns in the Urban Forest	Vince Mikulanis, Project Manager, Davey
in Urban Development	Drew Zwart, Plant Pathologist, Bartlett	Resource Group, San Diego, CA and Jesus
Daniel Woodroff, President, dwg. landscape	Tree Research Laboratories, San Rafael,	Vetencourt, Project Manager, Wright
architecture, Austin, Keith Mars, City	California	Tree Service, West Des Moines, Iowa
Arborist, City of Austin -Dallas Connect Cities Design Challenge		
	11:15 am - 12:00 pm	11:15 am - 12:00 pm
Arturo Del Castillo, Senior Urban Designer,	Scale Insects and Their Control in Texas	Connecting with Customers
Dallas CityDesign Studio Sustainable Corridors for the 21st Century	Mike Merchant, Professor and Extension	Emily Newsome, Learning and
	Urban Entomologist, Texas A&M	Development Specialist, CenterPoint
Steven Spears, Principal, Design Workshop, Austin	AgriLife Extension, Dallas	Energy, Houston
Austili		I

Our Sponsors & Exhibitors

Please visit them and thank them for their support

Platinum Sponsors:

Bartlett Tree Experts CenterPoint Energy Texas A&M Forest Service

Gold Sponsors:

Davey Resource Group Pedernales Electric

Silver Sponsors:

ArborJet Austin Tree Experts **Bandit of Texas Environmental Design** TreeStuff Vermeer Equipment of Texas

Wright Tree Service

Exhibitors: All Access Equipment Arborjet Arborpro ArborSystems **Backbone Valley Nursery Bandit of Texas Bartlett Tree Experts Bobcat of Dallas** CenterPoint Energy CREATIVE SALES, INC. **Davey Resource Group** Environmental Consultants, Inc. Environmental Design Forest Metrix

Forestry Suppliers High Caliper Growing Husqvarna Lassiter Tree Farm Lone Star Trees, LLC Minick Materials Nelson Tree Service, Inc.

Northeast Texas Nursery Growers Association Plant Growth Management Systems Research Associates Laboratory SSI Maxim Company STIHL

Texas A&M Forest Service Texas Department of Agriculture Texas Nursery & Landscape Association Texas Urban Forestry Council Texas Vegetation Management Association

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Tree Town USA Ultimate Tool and Safety **USDA APHIS PPQ**

Vermeer Texas - Louisiana Vickrey & Associates



Texas Chapter International Society of Arboriculture

2014-2015 Officers

President, Markus Smith Just Trees, Austin Past President, Michael Sultan **Davey Resources Group** President-Elect, Vincent Debrock Heritage Tree Care, LLC Vice-President, Lara Schuman City of Austin, PARD Treasurer, Lee Evans Certified Arbor Care Editor, Oscar Mestas Texas A&M Forest Service

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> 2105 Conference Chair Vincent Debrock

John Giedraitis, Executive Director

Academy	, Conf	erenc	e & Tr	ee Sch	ool CE	Us	
Wednesday-Sept. 30	CA	US	MS	CTW	MA-S	MA-P	MA-M
Tree Academy	6.5	0	1.25	1.25	2.75	3.75	0
EHAP	7	7	7	7	0	7	0
Thursday-Oct. 1							
Gen Session	3	3	3	3	1	1	1
Municipal Track	3	0	3	0	0	0.75	0.75
Utility Track	3	3	0	0	0	0.75	2.25
Commercial Track	3	0.75	0.75	1.5	0.75	0.75	1.5
Friday-Oct 2							
Business Meeting	1	1	1	1	0	0	1
Municipal Track	2.5	0	2.5	0	0	1	1.5
Utility Track	2.5	2.5	1.5	0	0	0	2.5
Commercial Track	2.5	0	0.75	1	1.75	0.75	0
Tree School	5	5	5	5	0	5	0



2015 Texas Tree Conference Evaluation Form

Please complete and leave at the Registration Desk on your way out (or fax to 979-680-9420)

Please rate the following events or sessions by giving a numerical score from 1 to 5, with 1 being the lowest and 5 being the highest possible score. (Jeave blank if you did not attend a session):

Events and Hospitality	General Sessions		
Convention Center	Trees: A Matter of Life and Death?	Building Bridges In Arboriculture	Sharing Near Misses
Tree Academy	Geoffry Donovan	Jim Skiera	Richard Bewley
EHAP Training	Municipal	Commercial	Utility
Wednesday Evening Social	The Economic Benefits of Urban Trees	Unmanned Aerial Vehicles	OSHA 1910 269 Changes
Silent Auction	Geoffry Donovan	Dan Staley	Mark Foster
Trade Show/Exhibitors	State of the Dallas Urban Forest	The Occupational Athlete	Helicopter Safety
Awards Luncheon	Philip Erwin and Matt Grubisich	Dr. Delia Roberts	Nathan Arnold
Reception with Exhibitors	Urban Forest Inventory & Analysis of Austin	Root Disease	State of Emotions
ISAT Annual Meeting	Gretchen Riley and Brad Hamel	Dr. Chris Luley	Shawn Huff
Texas Tree School - English	40 Years of Tree City USA	Reclaiming Wood Products	ROW and Your Utility's Image
Texas Tree School - Spanish	Pete Smith	Edith Makra	Nelson Money
Registration	Stormwater Management: LID	Where Do Native Texas Trees Come From?	Handling The Media
Bookstore	Fouad Jaber	Scott Ogden	Alicia Dixon
Hotel (LID Strategies and Three Case Studies	Biochar Soil Amendments	Retaining Employees
	Woodroff, Mars, Del Castillo	Drew Zwart	Mikulanis and Vetencourt
Food/Catering		Scale Insects and Their Control in Texas	Connecting with Customers
		Mike Merchant	Emily Newsome

What did you like most about the Texas Tree Conference?

How can we improve the Texas Tree Conference to better serve you?

Since there will be no Texas Tree Conference next year, do you plan on attending the 2016 International Tree Conference and Trade Show to be held in Ft. Worth next August?

Other Comments: