22nd Biennual Southern Silvicultural Research Conference

Welcome Session Ballroom B – March 21, 2023

7:00 – 8:30 am Continental Breakfast – Ballroom B

8:00 – 9:30 am Welcome and Plenary Session in Ballroom B

Brian Oswald 22nd Biennial Southern Silvicultural Research Conference Co-chair

Steve Westbrook Interim President, Stephen F. Austin State University

Hans Williams Dean, Arthur Temple College of Foresty and Agriculture, Stephen

F. Austin State University

Eric Taylor Extension Specialist and Silvicultualist IV Texas A&M Forest

Service

TBA Texas Forestry Association

9:30 - 10:00 am Break

Tuesday Concurrent Session 1 in Ballroom A – March 21, 2023

Field Trip Sites:	Brian Oswald Moderator
10:00 - 10:30 am	Silviculture at the Boggy Slough Conservation Area – Management to Promote Conservation and Research. S. Jack, R. Sanders
10:30 - 11:00 am	STMicroelectronics – SFASU Carbon Sequestration Reforestation. J. Grogan, K Farrish, H. Williams, B. Oswald
11:00 – 11:30	Shortleaf Pine Restoration Project on the I.D. Fairchild State Forest, Texas A&M Forest Service. J. Ellis
11:30 – 1:30 pm	Lunch on own
Growth and Yield	l and Modeling 1: Eric Taylor Moderator
1:30 - 2:00 pm	An integrated system approach to model tree and stand growth. Q. Cao
2:00 - 2:30 pm	A stand-level growth and yield model system for shortleaf pine plantations in the western half of the Southeastern United States. C. VanderSchaaf
2:30 - 3:00 pm	A novel, single-tree measure of growing stock based on volume growth. T. Dean
3:00 – 3:30 pm	Break
Growth and Yield	l and Modeling 2: Eric Taylor Moderator
3:30 - 4:00 pm	Biomass estimates for Natural-Origin Hardwood Saplings of Southesstern Arkansas. M Bataineh
4:00 - 4:30 pm*	A Growth and Yield System of Differential Equations for Slash Pine Plantations Including Response to Silvicultural Treatments. L. Ramirez Quitero, M. Cubillos, C. Rodreigo, B. Bullock
4:30 - 5:00 pm*	DBH estimation based on LiDAR point clouds at Stand Level of Loblolly Pine Plantations. C. Talmage, Y. Weng, Y. Zhang, J. Grogan
5:00-5:30 pm*	Quantifying aboveground biomass using remote sensing and ground Measurements for mixed-hardwood forests. S. Jha, S. Yang, S. Hale, T. Johnson.
6:00 – 8:00 pm	Poster Session and Reception: complementary hors d'oeuvres and cash bar

^{*} Denotes student presentation

Tuesday Concurrent Session 2 in Ballroom B – March 21, 2023

Fire 1:	Mohammad Bataineh Moderator
10:00 - 10:30 am	Predicting fire intensity using vegetation, fuel, and weather variables on the William B. Bankhead National Forest, Alabama. J. Craycroft, C. Schweitzer
10:30 – 11:00 am	Future trends in dead fuels and implications for prescribed fire in the southern United States. Y. Liu, H. Tian, B. Tao, J. Yang
11:00 - 11:30 am	Prescribed Fire Barriers and Solutions for Managing Sustainable Forests: Silvicultural Cocktails. C. Schweitzer, D. Dey, A. Brandon.
11:30 – 1:30 pm	Lunch on Own
Fire 2:	Callie Schweitzer Moderator
1:30 - 2:00 pm	Linking fire behavior to effects - use of pyrometers and thermocouples. M. Bataineh, B. Portner, M. Pelkki, R. Ficklin
2:00 - 2:30 pm	A preliminary analysis of decomposition-driven changes in litter flammability. M. Varner, J. Kane, T., Shearman, J. Kreye, H. Alexander
2:30 - 3:00 pm*	Functional Morphology of Shortleaf Pine (Pinus echinata Mill) Fire-Adapted Traits. B. Bloodwood, G. Wang
3:00 – 3:30 pm	Break
Fire 2:	Callie Schweitzer Moderator
3:30 - 4:00 pm*	Determinants of fire intensity in understory vegetation of pine flatwoods. S. Lapalikar, J. Vogel, D. Cosenza, E. Broadbent, B. Baiser, A. Sharma, R. Crandell
4:00 - 4:30 pm*	Influences of overstory pyrophytic and mesophytic trees and understory solar irradiance on leaf litter and woody debris fuel moisture retention. L. Goncalves Lazzaro, H. Alexander, J. Cannon, M. Aspinwall
4:30 - 5:00 pm	Spatial factors in post-fire tree mortality – A preliminary analysis. T. Shearman, M. Varner, J. Willis
5:00 – 5:30 pm*	Disturbing the Peace: Bringing Back Natural Disturbance for Oak Woodlands and Savannahs in the Eastern US. M. Berry, P. Keyser, A. Vander Yacht, C. Henderson
6:00 – 8:00 pm	Poster Session and Reception: complementry hors d'oeuvres and cash bar

^{*} Denotes student presentation

Tuesday Concurrent Session 3 Banita Room – March 21, 2023

Hardwood 1:	Brian Lockhart Moderator
10:00 – 10:30 am	Advancing Established White Oak (Quercus alba) Reproduction Through a Midstory Removal. C. Dugger, W. Clatterbuck
10:30 - 11:00 am	Timing of dormant season inundation is crucial to flood effects on bottomland red oaks. B. Babst, R. Sample, J. Cook
11:00 - 11:30 am	The response of willow oak (Quercus phellos) seedling roots to fall environmental cues and winter flooding. B. Babst, J. Kressuk, T. Collins, E. Gardiner, M. Bataineh
11:30 – 1:00 pm	Lunch on Own
Hardwood 2:	Brian Lockhart Moderator
1:30 - 2:00 pm*	Factors affecting oak regeneration in bottomland hardwood forests in northern Missouri. I. Hayford, B. Knapp.
2:00 - 2:30 pm*	Leaf area index (LAI) across eastern cottonwood and hybrid poplars and its relationships with productivity and water use efficiency under coppicing and non-coppicing management in the southeastern United States. J. Wang, H. Renninger
2:30 - 3:00 pm*	Characterization of community structure and structural diversity to assess evidence of forest type shifts prior to slough flow restoration treatments in the Apalachicola River floodplain. J. Tracy
3:00 – 3:30 pm	Break
Shortleaf Pine:	Don Bragg Moderator
3:30 - 4:00 pm	Site Preparation for shortleaf pine cluster planting and restoration of shortleaf pine-hardwood mixtures: First year results. D. Clabo, M. Hinson.
4:00 - 4:30 pm*	Sustainable pathways for shortleaf pine restoration in uncertain climates C. Iwamoto, C. Seigert, J. Granger, K. Poudel, A. Polinko, Z. Freedman
4:30 – 5:00 pm*	Insight into the roles of prescribed fire and hardwood competition in the survival and growth of shortleaf pine throughout its early life. H. Filligim, B. Knapp, J. Kabrick
5:00 – 5:30 pm	Fuel Load Reduction and Woodland Restoration Treatments in the Ouachita Region of Arkansas. K. Cunningham
6:00 – 8:00 pm	Poster Session and Reception: complementry hors d'oeuvres and cash bar

^{*} Denotes student presentation

Wednesday, March 22, 2023

7:00 – 8:00 am Continental Breakfast – Ballroom B

Wednesday Concurrent Session 4 in Ballroom A – March 22, 2023

Restoration and	Reclamation	Conner Fristo	e Moderator
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8:00 - 8:30 amSome silvicultural implications of updating the Southern Region's oldgrowth guidance. D. Bragg8:30 - 9:00 amReconstructing stand development patterns of oak-pine mixedwoods at Boggy Slough Conservation Area. B. Knapp, S. Jack9:00 - 9:30 am*Evaluating the Trajectory of Secondary Vegetational Succession on Clear-Cut Timber and Strip Mined Sites. I. Kennedy, M. Mount, W. Clatterbuck, D. Buckley.9:30 - 10:00 amBreakLoblolly Pine 1Conner Fristoe Moderator10:30 - 10:30 am*Branch growth and mortality as influenced by light attenuation. A. Majekobaje, T. Dean10:30 - 11:00 am*Characterizing spatial dependencies of competing vegetation in thinned loblolly pine stands. J. Young, B. Brunson, C. Montes, J. Rheney11:00 - 11:30 am*Thinning and Three Genotypes effects on DBH, Total Height, and Height to Live Crown, Volume, and Weight for Loblolly Pine. S. Flue, G. Holley, J. Adams, M Sayer, M. Tyree, M Blazier.11:30 - 1:30 pmLunch on OwnLoblolly Pine 2Conner Fristoe Moderator1:30 - 2:00 pmClimate-Smart Forestry and Its Implication on Southern Silviculture. G. Wang2:00 - 2:30 pmThinned young Pinus taeda stands outperform thinned older stands. T. Albaugh, D. Carter, R. Cook, R. Rubilar, O. Campoe2:30 - 3:00 pmHeight, Diameter and Volume Comparison of Three Species of West Gulf Coastal Plain Provenance Pines after seven growing seasons in East Texas. H. Williams, J. Gorgan, B. Oswald, J. Stovall, Y. Weng3:00 - 3:30 pmBreak		
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Coastal Plain Provenance Pines after seven growing seasons in East Texas. H. Williams, J. Gorgan, B. Oswald, J. Stovall, Y. Weng	2:00 - 2:30 pm	
3:00 - 3:30 pm Break	2:30 - 3:00 pm	Coastal Plain Provenance Pines after seven growing seasons in East

^{*} Denotes student presentation

Hardwoods 3:	Brian Lockhart Moderator
3:30 – 4:00 pm	Planted white oak (Quercus alba) respond to spacing density and orientation in gap openings in the Blue Ridge Mountains of North Carolina. S. Clark, T. Keyser, S. Schlarbaum, A. Saxton
4:00 - 4:30 pm	Multi-phased shelterwood on the Daniel Boone National Forest, Kentucky, tests herculean effort to regenerate oak. C. Schweitzer, J. Calvert, S. Clark, J. Royse
4:30 - 5:00 pm	A look back on 26-years of hardwood development after afforestation on flood-prone agriculture lands in the Louisiana delta. J. Adams, W. Patterson.
5:00 – 5:30 pm	An Evaluation of Species Composition and Stand Structure on Patch Cut vs. Larger Clearcut Stands after 30+ Years at Natchez Trace State Forest in West Tennessee. W. Clatterbuck, J. Biggerstaff
5:30 – 6:00 pm	White oak sustainability – what's the (under)story? L. Vickers, B. Knapp
7:00 – 10:00 pm	Social at Fredonia Brewery

Wednesday, March 22, 2023

7:00 – 8:00 am Continental Breakfast – Ballroom B

Wednesday Concurrent Session 4 in Ballroom B - March 22, 2023

Intermediate Treatments/Competition Control 1: Joshua Adams Moderator

8:00 – 8:30 am	Aminocyclopyrachlor cut stem applications compared to standard herbicides for Eucalyptus control. P. Minogue, K. Lorentz
8:30 – 9:00 am	A Comparison of Garlon 4, Garlon XRT, Vista, Vastlan, Chopper GEN2, and Terravue in Site Preparation Applications.A. Self, J. Ezell, A. Ezell
9:00 – 9:30 am	A Comparison of Glufosinate Products for the Control of Natural Pines. J. Ezell, A. Self, A. Ezell.

9:30 - 10:00 am Break

Intermediate Treatments/Competition Control 2: Wayne Clatterbuck

10:00 – 10:30 am*	Seasonal Light Response Curves of Ligustrum sinense (Chinese privet): a test of extended leaf phenology. T. Markus, L. Pile-Knapp, D. Cole, G. Wang
10:30 – 11:00 am	Mid-Rotation Brush Control in a Loblolly Pine Plantation Using Chopper GEN2 and Selected Glufosinate Products. A. Ezell, J. Ezell, A. Self
11:00 – 11:30 am	Evaluating dormant-season herbicide applications for the control of Chinese Privet (Ligustrum sinense), L. Pile-Knapp, K. Vaughn, G. Wang

11:30 - 1:30 pm Lunch on Own

Intermediate Treatments/Competition Control 3: Andy Ezell Moderator

3:00 - 3:30 pm	Break
2:30 - 3:00 pm	Use of post-emergent herbicides (Indaziflam, Sulometuron Methyl, and Flumioxazin) for seedling replease in an oak shelterwood. S. Peairs
2:00 - 2:30 pm	Use of pre-emergent herbicides (Clopyralid and Imazamox) for seedling replease in an oak shelterwood. S. Peairs
1:30 - 2:00 pm	Effects of fertilization and vegetation control application under different thinning intensities in the southeast US. C. Montes, M. Wang, B. Bullock, D. Zhao

^{*} Denotes student presentation

Management and Silvics: Andy Ezell Moderator

3:30 – 4:00 pm	Role of root system structure in sustained growth among loblolly pine genotypes. M. Sayer, K. Wharton, M Tyree, M. Blazier, J. Adams, B Wolfe
4:00 - 4:30 pm	Managing Feral Hogs: Perspectives of Forest Landowners in Arkansas, Louisiana, and East Texas. N. Tian, J. Gan, G. Holley
4:30 - 5:00 pm	Natural Plant Succession of a Dozer Line in Arkansas. V. McDaniel, G. De Jong
5:00 – 5:30 pm	Updating the Silvics of North America: Progress, Timeline, and Involvement. S. McNulty, C. Stelly.

7:00 – 10:00 PM Social at Fredonia Brewery

Wednesday, March 22, 2023

7:00 – 8:00 am Continental Breakfast – Ballroom B

Wednesday Concurrent Session 5 in Banita Room – March 22, 2023

8:00 – 8:30 am	Impact of Pine Species Identity on Woodland Ecosystem Services. J. Willis, M. Varner, J. Cannon, J., Puhlick, D. Bragg, C. Schalk
8:30 – 9:00 am*	Asssessment of trade offs among ecosystem services of wetland researve easements. T. Corbin, M. Bataineh, B. Babst, I. Hung.
9:00 – 9:30 am*	Evaluating Stem and Branch Characteristics of Five-Year-Old Sonderegger Pine Saplings. K. Shoemaker, D. Jackson, J. Adams
9:30 – 10:00 am	Break
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Longleaf Pine 1:	Brian Oswald Moderator
10:00 – 10:30 am*	
10:00 – 10:30 am*	Spatial patterns of disturbance and intra-stand structure in a longleaf pine

11:30 – 1:30 pm Lunch on Own

Longleaf Pine 2: Pat Minogue Moderator 1:30 - 2:00* pm The Influence of Slash Management Practices on Water and Nutrient Dynamics in Longleaf Pine Forests. J. Murray, D. Hagan, P. Hiesl, R. Baldwin 2:00 - 2:30 pm Silvicultural strategies for converting longleaf pine plantations to multiaged longleaf pine stands. G. Nyen, A. Polinko, J. Puhlick. 2:30 - 3:00 pm Tropical cyclones stimulate cone production in longleaf pine woodlands. J. Cannon, B. Rutledge, J. Puhlick, J. Willis, D. Brockway

^{*} Denotes student presentation

3:00 - 3:30 pm **Break Longleaf Pine 3: Pat Minogue Moderator** 3:30 - 4:00 pmSilvicultural strategies for promoting longleaf pine recruitment in multiaged stands. J. Puhlick, B. Knapp, I. Goldberg, B. Rutlendge, R. Taylor, J. Willis Is longleaf pine an intolerant species? It's comparison with other southern 4:00 - 4:30 pm pines and southern hardwoods. A. Sharma, J. Willis 4:30 - 5:00 pm Survival of longleaf pine seedlings planted under different canopy reduction treatments in a slash pine-turkey oak stand. J. Vogel, J. Shabaga, S. Lapalikar, A. Sharma Prescribed Burning Has Little Effect on Longleaf Pine Wood Quality. E. 5:00 - 5:30 pmAndrews, J. Willis 5:30 – 6:30 pm **Ethics Training: Brian Lockhart**

Social at Fredonia Brewery

7:00 – 10:00 pm