

**DAVID L. KULHAVY, Ph.D.**  
**Laurence C. Walker Distinguished Professor**  
**Forest Entomology and Landscape Ecology**  
**Arthur Temple College of Forestry and Agriculture**  
**Stephen F. Austin State University, Nacogdoches, Texas 75962**  
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**Degrees Held**

- B. A.** Zoology—San Diego State University, San Diego, California 1969  
**M. S.** Forest Entomology—University of Idaho, Moscow, Idaho 1974, J.A. Schenk, Director,  
Cone and seed insects of grand and subalpine firs in northern Idaho  
**Ph. D.** Forest Sciences, Entomology/Pathology, supporting fields, University of Idaho, 1977, R.  
W. Stark and A. D. Partridge, Directors  
**Dissertation topic:** The root and stem diseases, bark beetle complex, and their interactions in  
standing western white pine in Idaho.  
**1977-1978** Research Associate/ Research Scientist, Forest Protection, NSF/IPM Mountain Pine  
Beetle/Lodgepole Pine Ecosystem Project—University of Idaho  
**1975** St. Regis Doctoral Fellowship Recipient  
**1976** Whittenberger Doctoral Science Fellowship Recipient

**Stephen F. Austin State University**

- 1978-1984** Assistant Professor, Forest Entomology and Pest Management, Stephen F. Austin  
State University, Nacogdoches, Texas  
**1984-1990** Associate Professor, Forest Entomology and Pest Management, Stephen F. Austin  
State University  
**1990-1995** Professor, Forest Entomology and Landscape Ecology, Stephen F. Austin State  
University  
**1996-2012** Regents Professor, Forest Entomology and Landscape Ecology, Stephen F. Austin  
State University  
**2012-2015** Lacy Hunt Professor, Forest Entomology and Landscape Ecology, Stephen F.  
Austin State University  
**2015-2017** Laurence C. Walker Distinguished Professor, Stephen F. Austin State University  
**1993 Distinguished Achievement Award in Teaching**, National Award, Entomological  
Society of America  
**1995 Piper Professor, Forest Entomology and Landscape Ecology, Minnie Stevens  
Piper Foundation, San Antonio, Texas (1 of 10 in Texas)**  
•Commendation from George W. Bush, Governor, State of Texas  
**1995 Distinguished Professor Award**, Alumni Association, Stephen F. Austin State  
University  
**1995 University of Idaho Alumni Association Alumni Hall of Fame Award**  
"Presented for his innovation and leadership in teaching entomology to children"  
**2006 A. D. Hopkins Award, Excellence in Southern Forest Entomology**, awarded  
Southern Forest Insect Work Conference with featured keynote address  
**2008 Fellow, Society of American Foresters**, awarded national meeting  
**2009 Stephen F. Austin State University Foundation, Inc.**, Faculty Achievement Award  
for Teaching  
**2010 Carl Alwin Schenck National Teaching Award**, Society of American Foresters

**2015 Service Learning Award**, Stephen F. Austin State University with Collins Academy, Jefferson, Texas

**Distinguished Achievement Award in Teaching National Award, 1993 Entomological Society of America;**

Southwestern Branch Teaching Award, 1991, 1992 1993, Chair, Education 1995-1996

***Butterflies 'n Bugs Poster Display***

**Smithsonian Institution, Museum of Natural History, Orkin Insect Zoo**

**Poster 1100 feet long by 5<sup>th</sup> grade students depicting monarch butterfly migration**

Co-sponsors. Arthur Temple College of Forestry, Stephen F. Austin State University; the Entomological Society of America; the Department of Entomology, University of New Hampshire; and the Smithsonian Institution, Museum of Natural History

***A Forest Insect Alphabet Book and Song Cycle***, David L. Kulhavy and Charles Jones. This hand printed, hand bound limited edition book features forest insects printed from wooden blocks by Charles Jones with text and original music by David Kulhavy.

***Life at the Edge: Forest Pathology as Art***, David L. Kulhavy, Michelle Rozic features 40 artist's interpretation of Forest Pathology specimens. This project has been accepted at two galleries and will feature a 100 page full color Exhibition Catalog depicting the original artwork by the artists and text by David Kulhavy on the ecology and management of the Forest Pathology specimens.

**Director and Co-organizer, Insect Expo '94, Entomological Society of America, Dallas, Texas; featured on CNN News Science and Technology Week**  
5000 4-6<sup>th</sup> grade students from the greater Dallas and East Texas area

**Love Thy Bug** by Jeffrey Kluger, DISCOVER Vol. 14 No. 05 | May 1993 | Biology & Medicine (article on Dr. David Kulhavy as a giant ladybird beetle).

**Texas Forest Service Research Award 1989**

**National Association of Interpretation, Region IV Award, Insects for Children**

**American Council on Education, 1996-2000, The W. K. Kellogg Project** on Leadership and Institutional Transformation, Stephen F. Austin State University Team Representative, Washington, D. C

**Teaching, Stephen F. Austin State University**

**1978-2018 Forest Entomology, Forest Insects and Diseases** (For. 313), 3 credits, 2 hours lecture, 3 hour laboratory each semester. Economically important insects and diseases of forest trees and wood products (taught each semester). Lecture material from Bugwood.org, current sources and in-field laboratories; integration of endangered species management; invasive species dynamics; life history and ecology of forest pests.

**2010, 2018-Urban Forestry** (For. 404), 3 credits, 2 hours lecture, 3 hour laboratory. Planning, establishment, protection, and management of individual trees and forest systems in an urban

environment. Presented material include hazard tree rating, CityGreen; iTREES, ArcGIS 9.3.1 queries for urban forest tree health.

**2010-2018-Harvesting and Sawmilling (For. 335)**, 1 credit, Forest field station, summer. Harvesting and sawmilling of timber and timber products.

**2010-2018-Landscape Modeling (GIS 410)**, 3 credits, GIS Laboratory. This course is structured to use ArcGlobe and ArcScene to developed informed decisions about landscape modeling for natural resource management. Applied applications are developed and presented as posters and GIS applications.

**2010-2018-Ecological Planning (GIS 420)**, 3 credits, GIS Laboratory, This course integrates material from the GIS curriculum into synthesis and production of spatial science in ecological modeling.

**1995-2018 Landscape Ecology (Spring) (Env. 420)**, 3 credits, 2 hours lecture, 3 hours laboratory. Elements of landscapes, including structure, function and change affecting patches, corridors and matrix in ecosystems.

**1997-2010 Advanced Landscape Ecology (Fall) (For. 521)**, 3 credits. Problem solving in landscape management applied to interdisciplinary issues in natural resource planning and interpretation of the environment

**1995-2010 Conservation of Natural Resources (Summer) (For. 511)**, 3 credits. Problem solving for natural resource management in eastern Texas; taught as a hands-on approach to ongoing natural resource management.

**1997-2004 Introduction to Environmental Science, Honors (Fall) (Env.110)**, 4 credits, 3 hours lecture and 3 hours laboratory. Introduction to the multidisciplinary approach to study and management of the environment.

**1988-1995 Forest Pest Management (Spring) (For. 449)**, 3 credits, 3 hours lecture. Integrated pest management of forest insects and diseases with emphasis on ownership and forest dynamics.

### **Extramural Teaching**

#### **Dr. Dave's Bugs, Insects for Children**

●**1982-2018**; 800 programs presented nationwide: Entomological Society of America, Insect Expo; Galveston Independent School District, Galveston, TX, 1994-1996 BugFEST, Tyler Junior College, Tyler, Texas, 1500 fourth grade students; Insect Expo, Entomological Society of America, 5000 fifth grade students, Dallas, Texas; National Association of Interpretation, national meeting, Charleston, SC and St. Louis, MO, invited presentations; Florence Italy, Montreal, Canada, Beijing, China.

Songs for children: *Hop, Flutter, Crawl* (theme song); *Ladybird Beetle My Insect Friend*; *How Many Body Parts Do You See?*

●**2000-2010 Forest Ecology Workshop**, Tyler Junior College and Panola College

●**Teacher Conservation Institute**, Piney Woods Conservation Center, 12 years

**Insects for Children**, Invited Paper, Educating Children of the World, XX International Congress of Entomology, Florence, Italy, 1996

- Directed 28 graduate students, 3 doctoral, 24 masters
- 25 publications, 4 books last 10 years
- Received 10 Grants and Contracts last 8 years
- Directed 5 National Symposia
- Direct East Texas Forest Entomology Seminar, 31 years, for a four-state region
- Southern Forest Insect Work Conference, 31 years; program chair, 2003

#### **Memberships Held in Honor and/or Professional Societies**

**Society of American Foresters**, Member 1975-present; Forest Entomology and Pathology working group member, Urban Forestry Working Group

**Entomological Society of America**, Formal Teaching Conference Organizer (1996-1997); Chair, Primary and Secondary Teacher Award for Insects in Education; Insect Expo Chair, 1994; Chair, Education committee, 1995-1996

**National Association of Science Teachers**, Member 2011-2017

**International Society of Arboriculture**, Member 2011-2017

**Texas Forestry Association**; Board of Directors, 2015-2018; Education Committee, 2015-2017; Forest Museum Committee, 2015-2017; Forest Pest Subcommittee 1980-present

**Xi Sigma Pi Forest Honor Society, National Forester**, 1988-1990

**Sigma Xi**, Research Society of America, Full Member, 1975

**Natural Areas Association**, 2009-2010

#### **Research**

Ecological assessment of 2,4,5-T herbicide treatments on southern pine ecosystems (with James C. Kroll).

Ecological assessment of 2,4-D treatment on a pine-hardwood ecosystem. Part II. Possible persistence and bio-magnification. USDA Forest Service, National Agricultural Product Assessment Program (with James C. Kroll).

Annotated bibliography and FAMULUS file for the southern pine beetle, *Dendroctonus frontalis* Zimmermann, 1868-1983. USDA Forest Service, Integrated Pest Management Program (with Paul C. Johnson).

Disturbances in Red-cockaded Woodpecker Clusters: 15 year results (McIntire Stennis Research)

Physiological Status of Red-cockaded Woodpecker Clusters: Resin measurement of active cavity, non-cavity and inactive cavity longleaf and loblolly pine trees (USDA Forest Service Research with Dr. Richard N. Conner)

Impact of the Nantucket pine tip moth in intensively managed forests plantations (McIntire Stennis Research)

Urban Forest Health and Integration of GPS into Digital Globe Imagery for Creation of a Geographic Information System (Urban Forest Grant, Texas Forest Service)

Hazard Rating for the Southern Pine Beetle in East Texas Forests (McIntire Stennis funding; USDA Forest Service Funding)

Impact of the Spruce Aphid on Spruce and Fir in Arizona and New Mexico (USDA Forest Service, Rocky Mountain Experiment Station Funding)

BugFEST, Insects for Children, Tyler Junior College (funding for program for 1500 4<sup>th</sup> grade students, Tyler Junior College).

Red-cockaded woodpecker symposium III: Ecology and management issues. USDA Forest Service Region 8; and U. S. Fish and Wildlife Service.

Assessment of seasonal insect associate induced mortality of southern pine bark beetles. USDA Forest Service, Southern Pine Beetle Project, Cooperative Agreement.

Manipulation of stand density for prevention of southern pine beetle infestation, Expanded Southern Pine Beetle Research Applications Program, Pineville, LA.

Development, modification and verification of hazard models for silvicultural management of the southern pine beetle, U. S. Forest Service, Southeastern Region, Cooperative Agreement 42-290.

Development, modification and verification of hazard models for silvicultural management of the southern pine beetle, U. S. Forest Service, Forest Health Protection, Pineville, LA (with Dr. Stephen C. Clarke, Forest Entomology)

Cooperation with the USDA Forest Service on biological control of loblolly pine mealybug in Guangdong Province, People's Republic of China, Biological control of loblolly pine mealybug, a Sino-US forestry cooperative project. Dr. Sun Jiang-Hua, Research Professor, Institute of Zoology, Chinese Academy of Sciences, Beijing (ongoing).

Cooperation with the Chinese Academy of Forestry, Beijing, China, Major Forest Diseases and Insect Pests in China book, Xinyao Zhang, Youqing Luo, Jianghua Sun and David L. Kulhavy, editors (ongoing)

Hazard and risk assessment of parks and recreation trees, City of Nacogdoches, Texas

*More Bugs in the Woods*, USDA Forest Service, Conservation Education

*A Forest Insect Alphabet and Song Cycle*. Charles Jones and David Kulhavy, University Research Council, Stephen F. Austin State University

*Life on the Edge: Forest Pathology as Art*. Michelle Rozic and David Kulhavy, University Research Council, Stephen F. Austin State University

Unger, D. R., I. Hung and D. L. Kulhavy. 2017. Comparison of Landsat 7 and Landsat 8 for Hardwood Detection. TexasView \$1350

Unger, D. R., I. Hung, and D. L. Kulhavy. 2017. Evaluation of Landsat 5, 6, 7 and 8 for Change Detection, Lake Mead. TexasView \$1350

Creech, D., Farrish, K., Kulhavy, D., Unger, D., Young, L., and Zhang, Y. 2015. Acquiring, Evaluating and Promoting Salt- and Hurricane-Tolerant Plant Materials for Galveston Island, Texas, Moody Gardens Foundation, Received: \$251,969.

Hung, I.K., Unger, D.R., Kulhavy, D.L., Oswald, B.P., Williams, H.M., McDonald, D.L., and Kroll, J.C. 2007. Lidar and Aerial Photography Data Acquisition of the SFA Experimental Forest, Data Purchase Grant, Surdex Corporation, Received: \$10, 250.

Kulhavy, D., and Unger, D. 2006. Using QuickBird High Spatial Resolution Multispectral Imagery to Map the ETJ of the City of Nacogdoches, Data Purchase Grant, City of Nacogdoches, Texas, Received: \$1,000.

Clarke, S., Unger, D., and Kulhavy, D. 2005. Mapping Areas of Potential Southern Pine Beetle Suppression in Special Management Areas on the National Forests in Texas, United States Forest Service, Received: \$41,000.

## **Publications**

### **Book/Edited Volumes**

Kulhavy, D. L. and C. D. Jones. 2013. A Forest Insect Alphabet. SFA Press, Stephen F. Austin State University, Nacogdoches, TX

Kulhavy, D. L. and C. D. Jones. 2010. A Forest Insect Alphabet. Fine Arts Edition, LaNana Creek Press, Stephen F. Austin State University, Nacogdoches, TX.

Rozic, M. and D. L. Kulhavy. 2010. Edge of Life: Forest Pathology Art. SFA Press, Stephen F. Austin State University, Nacogdoches, TX.

Kulhavy, D. L. and M. H. Legg (eds.). 1998. Wilderness and Natural Areas in Eastern North America: Research, Management and Planning, Center for Applied Studies, Arthur Temple College of Forestry, Nacogdoches, Stephen F. Austin State University, Nacogdoches, TX

Kulhavy, D. L., R. G. Hooper and D. L. Kulhavy (eds). 1995. Red-cockaded Woodpecker: Recovery, Ecology and Management, Center for Applied Studies, College of Forestry, Stephen F. Austin State University, Nacogdoches, TX.

Kulhavy, D. L. and M. H. Legg (eds.). 1990. What's Past is Prologue, Our Legacy, Our Future, 1990 Workshop Proceedings, National Association for Interpretation, Charleston, SC, Center

for Applied Studies, School of Forestry, Stephen F. Austin State University, Nacogdoches, TX. 398 pp.

Kulhavy, D. L.; Miller, M. C. (eds.). 1989. Potential for Biological Control of *Dendroctonus* and *Ips* Bark Beetles. Center for Applied Studies, Arthur Temple College of Forestry, Stephen F. Austin State University, Nacogdoches, TX.

Kulhavy, D. L. and R. N. Conner (eds.). 1986. Wilderness and Natural Areas in the Eastern United States, A Management Challenge. Center for Applied Studies, School of Forestry, Stephen F. Austin State University, Nacogdoches, TX.

Payne, T. L., R. F. Billings, R. N. Coulson, and D. L. Kulhavy (eds.). 1984. History, Status, and Future Needs for Research in Southern Forest Entomology. Tx. Agr. Exp. Stn. Misc. Publ. 1553. 72 pp.

Kulhavy, D. L. and P. C. Johnson. 1983. Southern pine beetle annotated bibliography, 1868-1982. Center for Applied Studies, School of Forestry, Stephen F. Austin State University, Nacogdoches, TX. 95 p.

### **Publications**

#### **Peer Reviewed Journal**

Unger, D., Kulhavy, D., Hung, I., and Zhang, Y. 2014. Journal of Geospatial Applications in Natural Resources (Creator and Editor-in-Chief). Created Spring 2014; Launched January 2016. Digital Commons, bepress, Berkeley, California.

### **Publications**

\*Kulhavy, D. L., D. R. 2017. Unger, R. Grisham, D. Coble, G. Endsley and M. Gannon. Service Learning for the Port Jefferson History and Nature Center: Senior Capstone Forestry Course. Journal of Community Engagement and Higher Education 9(1): in press

\*Kulhavy, D. L., R. P. Reynolds, D. R. Unger, S. H. Bullard and M. W. McBroom. 2017. Digital Preservation and Access of Natural Resource Documents. Journal of Education and Practice 8(7): in press.

\*McDonald, D., Kulhavy, D., Unger, D., and Blackwell, P. 2016. The Sawmill's Role in East Texas Development. East Texas Historical Journal, 54(1):41-62.

\*Unger, D., Kulhavy, D., Hung, I., and Zhang, Y. 2016. Accuracy Assessment of Pictometry Height Measurements Stratified by Cardinal Direction and Image Magnification Factor. International Journal of Geospatial and Environmental Research, 3(1): Article 4  
<http://dc.uwm.edu/ijger/vol3/iss1/>

\*Unger, D., Kulhavy, D., Busch-Peterson, K., and Hung, I. 2016. Integrating Faculty Led Service Learning Training to Quantify Height of Natural Resources from a Spatial Science Perspective. International Journal of Higher Education, 5(3):104-116.

- \*Kulhavy, D., Unger, D., Zhang, Y., Bedford, P., and Hung, I. 2016. Comparing Remotely Sensed Pictometry Web Based Slope Distance Estimates with In Situ Total Station and Tape Slope Distance Estimates. *International Journal of Geospatial and Environmental Research*, 3(1): <http://dc.uwm.edu/ijger/vol3/iss1/>
- \*Kulhavy, D., and Unger, D. 2016. Service-Learning and Participation in a Capstone Spatial Science Course. *Journal of Service-Learning in Higher Education*, 5(1):41-53.
- \*Henley, R., Unger, D., Kulhavy, D., and Hung, I. 2016. Incorporating Applied Undergraduate Research in Senior to Graduate Level Remote Sensing Courses. *International Journal of Higher Education*, 5(1):232-248.
- \*Kulhavy, D., Unger, D., Hung, I., and Zhang, Y. 2016. Comparison of AR.Drone Quadricopter Video and the Visual CTLA Method for Urban Tree Hazard Rating. *Journal of Forestry*, 114(5):517-523.
- \*McBroom, M., Bullard, S., Kulhavy, D., and Unger, D. 2015. Implementation of Collaborative Learning as a High-Impact Practice in a Natural Resource Management Section of Freshman Seminar. *International Journal of Higher Education*, 4(4): 64-72.
- Zhang, Y., Unger, D., Hung, I., and Kulhavy, D. 2015. GPS Elevation Accuracy: Tests with the Garmin Oregon 600. *The Forestry Source*, January, p. 14.
- Zhang, Y., Unger, D., Hung, I., and Kulhavy, D. 2014. WAAS, GLONASS, and GPS Accuracy. *The Forestry Source*, December, p. 14.
- \*Kulhavy, D., Rozelle, K., Ross, W., Unger, D., and Conner, R. 2015. Resin Production in Natural and Artificial Red-Cockaded Woodpecker Cavity Trees. *Open Journal of Forestry*, 5:364-374.
- \*Kulhavy, D., Unger, D., Williams, H., and Jamar, D. 2015. Teaching Hands-On Urban Forestry Health Assessment Using the Resistograph and the CTLA Method. *Journal of Studies in Education*, 5(1):139-149. doi:10.5296/jse.v5i1.7150
- \*Unger, D., Hung, I., Kulhavy, D., and Zhang, Y. 2015. Quantifying Natural Resources Using Field-Based Instruction and Hands-On Applications. *Journal of Forestry*, 113(1):184.
- \*Unger, D., Kulhavy, D., Williams, J., Creech, D., and Hung, I. 2015. Urban Tree Height Assessment using Pictometry Hyperspatial 4-Inch Multispectral Imagery. *Journal of Forestry*, 113(1):7-11. <http://dx.doi.org/10.5849/jof.14-020>
- \*Kulhavy, D., Unger, D., Hung, I., and Douglass, D. 2015. Integrating Hands-On Undergraduate Research in an Applied Spatial Science Senior Level Capstone Course. *International Journal of Higher Education*, 4(1):52-60. <http://dx.doi.org/10.5430/ijhe.v4n1p52>
- \*Kulhavy, D., Unger, D., Hung, I., and Douglass, D. 2015. Integrating Hands-On



Undergraduate Research in an Applied Spatial Science Senior Level Capstone Course.  
Undergraduate Research Highlights, 35(4):29.

- \*Unger, D., Hung, I., and Kulhavy, D. 2014. Comparing Remotely Sensed Pictometry Web-Based Height Estimates with In Situ Clinometer and Laser Range Finder Height Estimates. *Journal of Applied Remote Sensing*, 8(1): doi:10.1117/1.JRS.8.083590.
  
- Unger, D., Wade, M., Kulhavy, D., Williams, J., Creech, D., Hung, I., and Zhang, Y. 2014. Measuring Baldcypress Tree Height Using Pictometry Hyperspatial Multispectral Imagery. 9<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia, December 8-10, pp. 97-99.
  
- Kulhavy, D., Unger, D., Wade, M., Hung, I., and Zhang, Y. 2014. Use of AR.Drone, iTree, and Shade Tree Hazard Rating for Urban Trees. 9<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia, December 8-10, pp. 21-23.
  
- Unger, D., Kulhavy, D., Wade, M., and Hung, I. 2014. Measuring Tree Height using Pictometry Hyperspatial Imagery. *Journal of Forestry*, 112(1):96. (Abstract)
  
- Kulhavy, D., Wade, M., Unger, D., and Hung, I. 2014. Use of AR.Drone, iTree and Shade Tree Hazard Rating for Urban Trees, *Journal of Forestry*, 112(1):136. (Abstract)
  
- Wade, M., Kulhavy, D., and Unger, D. 2014. Applying Principles of Landscape Ecology to Baldcypress Corridor Management. *Journal of Forestry*, 112(1):176. (Abstract)
  
- \*Unger, D., D. Kulhavy, I-K. Hung and Y. Zhang. 2014. Quantifying natural resources using field-based instruction and hands-on application. *Journal of Studies in Education* 4(2):1-14.
  
- \*Unger, D., Stovall, J., Oswald, B., Kulhavy, D., and Hung, I. 2014. A Test of the Mean Distance Method for Forest Regeneration Assessment. *Mathematical and Computational Forestry & Natural Resource Sciences*, 6(2):54-61.
  
- \*Unger, D., Hung, I., Zhang, Y., and Kulhavy, D. 2014. Evaluating GPS Effectiveness for Natural Resource Professionals: Integrating Undergraduate Students in the Decision-Making Process. *Journal of Studies in Education*, 4(4):30-44.  
<http://dx.doi.org/10.5296/jse.v4i4.6389>
  
- \*Kulhavy, D., Wu, D., Unger, D., Hung, I., and Sun, J. 2014. Comparison of Tree Condition and Value for City Parks and Stephen F. Austin State University in Nacogdoches, Texas. *Arboriculture & Urban Forestry*, 40(3):165-177.
  
- \*Unger, D. R., I-K. Hung and D. L. Kulhavy. 2013. Accuracy assessment of land cover maps of forests within an urban and rural environment. *Forest Science* 60(3):591-602.
  
- \*Unger, D. R., I-K. Hung, Y. Zhang, J. Parker, D. L. Kulhavy and D. Coble. 2013. Accuracy assessment of perimeter and area calculations using consumer-grade GPS units in southern forests. *Southern Journal of Applied Forestry* 37(4): 208-215.

- \*Unger, D. R., D. L. Kulhavy and I-K. Hung. 2013. Validating the geometric accuracy of high spatial resolution multispectral data. *GIScience and Remote Sensing* 50(3):271-280.
- Kulhavy, D., D. Unger, Y. Zhang and K. Palmer. 2012. Multi-criteria site-evaluation methodology for oil and gas exploration. (abstract) *Journal of Forestry* 110:542.
- Kulhavy, D. L., C. Jones and M. Rozic. 2012. Incorporating A Forest Insect Alphabet and Edge of Life: Forest Pathology Art, into a forest insects and disease class. UENR 9th Biennial Conference. <http://digitalcommons.usu.edu/cuenr/9thBiennial/Sessions/10/>
- Whisenant, P., B. Compton, C. Barkley, B. P. Oswald, and D. L. Kulhavy. 2011. Piney Woods Country Club: A Firewise community golf course in Texas. *Journal of Forestry* 109 (8):572 (abstract).
- Kulhavy, D. L. and C. D. Jones. 2011. Study guide for *A Forest Insect Alphabet and Song Cycle*. Museum of East Texas, Lufkin, Texas.
- Kulhavy, D. L. and C. D. Jones. 2011. *Cancion dei Cicle de la Vida*, Cuaderno de Trabajo, Museum of East Texas, Lufkin, Texas.
- Rozic, M. and D. Kulhavy. 2011. Seeing the forest through the trees. In Rozic, M. and D. L. Kulhavy. 2011. *Edge of Life: Forest Pathology Art*. SFA Press, Stephen F. Austin State University, Nacogdoches, TX. pp. 1-7.
- Stephens Williams, Pat; Oswald, Brian P.; Stafford, Karen; Jones, Justice; Kulhavy, David. 2011. The changing roles of natural resource professionals: providing tools to students to teach the public about fire. In: McCaffrey, Sarah M.; Fisher, Cherie LeBlanc, eds. 2011. *Proceedings of the second conference on the human dimensions of wildland fire*. Gen. Tech. Rep. NRS-P-84. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 33-35.
- \*Zhou, L., D. L. Creech, K. Krause, Y. Youlong, D. L. Kulhavy. 2010. Can we improve the salinity tolerance of genotypes of *Taxodium distichum*? *HortScience* 45: 1773-1778.
- Hung, I., Chapman, J., Tippen, J., Unger, D., and Kulhavy, D. 2010. How Accurate are Your Forest Measurements Derived from LIDAR? Society of American Foresters National Convention, Albuquerque, New Mexico, October 27-31, CD-ROM.
- Grogan, J. B.; Kulhavy, D. L.; Kroll, J. C. 2010. Southern pine beetle infestation probability mapping using weights of evidence analysis, pp 319-324. In: Stanturf, John A., ed. 2010. *Proceedings of the 14th biennial southern silvicultural research conference*. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. [http://www.srs.fs.fed.us/pubs/gtr/gtr\\_srs121/gtr\\_srs121.pdf?](http://www.srs.fs.fed.us/pubs/gtr/gtr_srs121/gtr_srs121.pdf?)
- Kulhavy, D. L., J. Gonzalez, D. R. Unger and I-K. Hung. 2009. Assessing impact of Hurricane Rita on habitat of the red-cockaded woodpecker (*Picoides borealis*) clusters in

- the Angelina National Forest. In: Opportunities in a forested world: Society of American Foresters National Convention, September 30-October 4, 2009, Orlando, Florida.
- Kulhavy, D., Clanahan, M., Unger, D., and Brahman, D. 2009. Ghosts of Nacogdoches Historical Trail. Society of American Foresters National Convention, Orlando, Florida, September 30–October 4, CD-ROM.
- Kulhavy, D., Gonzales, J., Unger, D., and Hung, I. 2009. Assessing Impacts of Hurricane Rita on Habitat Red-Cockaded Woodpecker Clusters in Angelina National Forest, Texas. Society of American Foresters National Convention, Orlando, Florida, September 30-October 4, CD-ROM.
- Wu, D., Hung, I., Kulhavy, D., and Unger, D. 2008. Shade Tree Evaluation in City Parks Using GIS. Proceedings of the 6<sup>th</sup> Southern Forestry and Natural Resources GIS Conference (2008), Orlando, Florida, March 24-26, pp. 275.
- Conway, T., J. Shannon, M. H. Legg and D. L. Kulhavy. 2009. Effects of the Teachers' Conservation Institute on knowledge and attitudes of participants. In: Opportunities in a forested world: Society of American Foresters National Convention, September 30-October 4, 2009, Orlando, Florida. 3 pp.
- Kulhavy, D. L., D. R. Unger, F. B. Shockley and J. Bardwell. 2007. Landscape analysis of George W. Pirtle Scout Reservation. In 21st Biennial Workshop on Aerial Photography, Videography and High Resolution Digital Imagery for Resource Assessment, Indiana State University, Terra Haute, Indiana, pp. 71-73.
- Unger, D.R., Kulhavy, D.L., and Benson, J.E. 2007. Merging GPS Data with High Spatial Resolution Multispectral Imagery: An Urban Case Study. Society of American Foresters National Convention, Portland, Oregon, October 23-27, CD-ROM.
- Unger, D. R., D. L. Kulhavy and J. E. Benson II. 2007. Pecan Park disc golf course: A visual interpretation using high spatial resolution multispectral imagery. In 21st Biennial Workshop on Aerial Photography, Videography and High Resolution Digital Imagery for Resource Assessment, Indiana State University, Terra Haute, Indiana, pp. 74-76.
- Lilin Zhao, Wei Wei , David L. Kulhavy, Xingyao Zhang and Jianghua Sun. 2007. Low temperature induces two growth-arrested stages and change of secondary metabolites in *Bursaphelenchus xylophilus*. *Nematology*, 9(5):663-670
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Unger, D., Kulhavy, D., and Hung, I. 2014. Pictometry: Revolutionizing Field Based Measurements. YouTube (uploaded August 28): <https://www.youtube.com/watch?v=GVUu5PeA2MQ&list=UUCL0JXzh4lW0i6LpqA9YENQ>

## Fine Art Exhibitions and Presentations

- Kulhavy, D. L., Miki Lynn Fryar and C. D. Jones. *A Forest Insect Alphabet* in Art, Song and Science. Biennial College and University Natural Resource Education Conference, Stephen F. Austin State University, Nacogdoches, Texas.
- Jones, C. D. and D. L. Kulhavy. 2018. *Pollinators of the World* fine arts edition, La Nana Creek Press, Stephen F. Austin State University, Nacogdoches, Texas.
- Jones, C. D. and D. L. Kulhavy. 2017. *Pollinators of the World* art exhibition, Cole Art Gallery @The Old Opera Building, Stephen F. Austin State University, Nacogdoches, Texas.
- Jones, C. D. and D. L. Kulhavy. 2016-2017. Dirty Bugs--What's That Lurking Out There! Museum of East Texas Exhibition for 4000 youth, June 2016-February 2017.
- Kulhavy, D. L. and C. D. Jones. 2016. Study Guide for Dirty Bugs Exhibition, Museum of East Texas. Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas.
- Kulhavy, D. L. 2016. Reticulum and Raconteur. In *East Texas Impressions, the Art of Charles D. Jones*, pp. 324-325. SFA Press, Stephen F. Austin State University, Nacogdoches, Texas.
- Kulhavy, D. L. and C. D. Jones. 2106. *A Forest Insect Alphabet*. In *East Texas Impressions, the Art of Charles D. Jones*, p. 305. SFA Press, Stephen F. Austin State University, Nacogdoches, Texas.
- Kulhavy, D. L., C. D. Jones and M. L. Fryar. 2013. *A Forest Insect Alphabet and Song Cycle* fine arts book. February 12, 2013, Panola College, Carthage, TX.
- Kulhavy, D. L. 2013. *A Forest Insect Alphabet* fine arts book and CD. Texas AgriLife Extension, Jasper, Texas. <http://jasper.agrilife.org/files/2012/04/JMG-2013.pdf>
- Kulhavy, D. L. and C. D. Jones. 2014. *A Forest Insect Alphabet and Song Cycle*. Mother Dog Studios Gallery, Houston, Texas.
- Kulhavy, D. L. and C. D. Jones. 2013. *A Forest Insect Alphabet and Song Cycle*. Jasper County History Museum, Jasper, Texas.
- Jones, C. D., D. L. Kulhavy and M. L. Fryar. 2014. *A Forest Insect Alphabet and Song Cycle*. Wynne House, Huntsville, Texas, January 15, 2014. <http://www.itemonline.com/local/x1724060150/Jones-exhibit-to-close-with-a-bang>
- Kulhavy, D. L. and C. D. Jones. 2011-2012. *A Forest Insect Alphabet and Song Cycle*. Museum of East Texas Exhibition for 6000 youth, September 2010-June 2011.
- Kulhavy, D. L. 2012. Bug clay day. Museum of East Texas, Lufkin, Texas, April, 2012.

- Kulhavy, D. L. 2012. Insects for Children, Journey magazine, April 2012.  
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- Kulhavy, D. L and C. D. Jones. 2012. A Forest Insect Alphabet and Song Cycle, fifth grade presentation. Museum of East Texas, Lufkin, Texas, January 27, 2012.  
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- Kulhavy, D. L., C. D. Jones and M. L. Fryar. 2012. A Forest Insect Alphabet in art and music. January 29, 2012, Museum of East Texas, Lufkin, TX.  
[http://examiner\\_drupal\\_7.bsumerlin.runs80.com/article/music-harmony-with-science-and-art](http://examiner_drupal_7.bsumerlin.runs80.com/article/music-harmony-with-science-and-art)
- Kulhavy, D. L. 2012 (February). PollinatorLIVE song and dance, KIPP Houston High School, Houston, TX presentation and video taping of song and dance with the USDA Forest Service safety bee. PollinatorLIVE program, USDA Forest Service.
- Kulhavy, D. L. 2011. Forest insects in science and art, informal discussion. Jarvis Christian College, Hawkins, Texas. [http://www.news-journal.com/mineola/news/butterflies-bugs-and-more-to-be-featured-in-museum/image\\_fd97d434-8ba9-5cba-ae54-4b2ea2f94f5f.html](http://www.news-journal.com/mineola/news/butterflies-bugs-and-more-to-be-featured-in-museum/image_fd97d434-8ba9-5cba-ae54-4b2ea2f94f5f.html)
- Rozic, M. and D. L. Kulhavy. 2011. Edge of Life: Forest Pathology Art exhibition, Eagle Exhibit Hall, Environmental Education, Science and Technology, North Texas University, Denton, TX <http://untstudioart.blogspot.com/2011/04/edge-of-life-at-unt.html>
- Rozic, M. and D. L. Kulhavy. 2011. Gallery talk, Eagle Exhibit Hall, North Texas University, Denton, TX <http://untstudioart.blogspot.com/2011/04/edge-of-life-at-unt.html>
- Kulhavy, D. L., C. D. Jones and M. L. Fryar. 2010 (November). A Forest Insect Alphabet presentation and opening of exhibition. Griffith Art Gallery, Stephen F. Austin State University, Nacogdoches, Texas [http://www.thecherokeean.com/news/2010-11-10/Colleges/SFA\\_to\\_open\\_A\\_Forest\\_Insect\\_Alphabet.html?print=1](http://www.thecherokeean.com/news/2010-11-10/Colleges/SFA_to_open_A_Forest_Insect_Alphabet.html?print=1)
- Kulhavy, D. L. and C. D. Jones. 2010. A Forest Insect Alphabet Book and Song Cycle. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010
- Rozic, M., D. L. Kulhavy, C. Peterson and S. Robinson. 2010. Life at the Edge: Forest pathology art. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Kulhavy, D. L., M. Rozic, and C. D. Jones. 2010. Forest Pathology as Art; and a Forest Insect Alphabet Book and Song Cycle. East Texas Forest Entomology Seminar, April 2010, Kurth Lake, Texas.

Kulhavy, D. L. 2010. A Forest Insect Alphabet and Song Cycle. HIVE Exhibition Fine Arts Panel Discussion, Cole Gallery, Nacogdoches, Texas, November 16, 2010.  
[http://texaswaxhouston.blogspot.com/2010\\_11\\_01\\_archive.html](http://texaswaxhouston.blogspot.com/2010_11_01_archive.html)

Kulhavy, D. L. and M. Rozic. 2010. Edge of Life: Forest Pathology Art. Exhibition, Cole Art Center, Nacogdoches, Texas.

Kulhavy, D. L. and C. D. Jones. 2010. A Forest Insect Alphabet and Song Cycle. Exhibition, Griffith Art Center, Stephen F. Austin State University, Nacogdoches, Texas

Kulhavy, D. L. 2007. Dr. Dave's Bugs: Insects for Children. Panola College, Carthage, Texas. <http://mpbakerlibrary.wordpress.com/category/david-kulhavy/>

Kulhavy, D. L. and P. C. Johnson. 1995. Butterflies 'n Beetles Poster Display, Smithsonian Institution, Museum of Natural History, Orkin Insect Zoo, poster 1100 feet long by 5th grade students depicting the monarch butterfly migration.

#### **Presentations and Posters**

Zhang\*, Y., Unger, D., Hung, I., and Kulhavy, D. 2016. Accuracy Evaluation of Current Consumer-Grade GNSS Receivers. American Association of Geographers Annual Meeting, San Francisco, California, April 1.

Hung, I., Unger, D., Zhang, Y., and Kulhavy\*, D. 2016. Incorporating Geospatial Technologies in Forestry Field Station Teaching. 11th Biennial Conference on University Education in Natural Resources, Stevens Point, Wisconsin, February 25-27.

Unger, D., Kulhavy\*, D., Hung, I., and Zhang, Y. 2016. Quantifying Natural Resources Using Field-Based Instruction and Hands-On Applications. 11<sup>th</sup> Biennial Conference on University Education in Natural Resources, Stevens Point, Wisconsin, February 25-27.

Henley\*, R., Unger, D., and Kulhavy, D. 2016. Incorporating Applied Undergraduate Spatial Science Research in a Senior Level Remote Sensing Class. East Texas GIS User Group, Nacogdoches, Texas, February 19.

Unger, D., Kulhavy, D., and Hung, I. 2016. Quantifying Resources from a Spatial Perspective: Old School versus New School Methodologies. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, May 4.

Kulhavy, D., Unger, D., Hung, I., and Zhang, Y. 2016. Comparing the Parrot AR.Drone2.0 UAS to the CTLA Method for Urban Tree Hazard Rating. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, May 4.

Sewell, S., Hung, I., Unger, D., and Zhang, Y. 2016. Spatial Distribution and Habitat Suitability Modeling of White-tailed Deer in a High Fenced Area in East Texas. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, May 4.

- Cross, M., Kulhavy, D., Unger, D., and Hung, I. 2016. Public Opinion of Firewise Based on Principles of Landscape Ecology. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, May 4.
- Kulhavy, D., Unger, D., and Hung, I. 2015. Comparing the AR.Drone2.0 Hazard Rating of Urban Trees with the CTLA Method. Society of American Foresters National Convention, Baton Rouge, Louisiana, November 3-7.
- Kulhavy, D., Cross, M., Oswald, B., and Unger, D. 2015. Public Opinion of Firewise Based on Principles of Landscape Ecology. Society of American Foresters National Convention, Baton Rouge, Louisiana, November 3-7.
- Hung, I., Unger, D, and Zhang, Y. 2015. Spatial Analysis of White-tailed Deer in a High Fenced Area of East Texas. Society of American Foresters National Convention, Baton Rouge, Louisiana, November 3-7.
- Kulhavy, D., Hung, I., Unger, D., and Williams, H. 2015. Comparing AR.Drone2.0 to CTLA Method for Visual Hazard Rating of Urban Trees. Texas Chapter International Society of Arboriculture, Waco, Texas, September 30 – October 2.
- Kulhavy, D., Wu, D., Hung, I., and Unger, D. 2015. Urban Tree Assessment of University and Park Trees using the CTLA Method. Texas Chapter International Society of Arboriculture, Waco, Texas, September 30 – October 2.
- Unger, D., Kulhavy, D., Hung, I., and Zhang, Y. 2015. Using Field-Based Instruction and Hands-On Applications to Quantify Natural Resources, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 29.
- Kulhavy, D., Hung, I., Unger, D., and Williams, H. 2015. Comparing AR.Drone2.0 to CTLA Method for Visual Hazard Rating of Urban Trees. Texas Chapter International Society of Arboriculture, Waco, Texas, September 30 – October 2.
- Kulhavy, D., Wu, D., Hung, I., and Unger, D. 2015. Urban Tree Assessment of University and Park Trees using the CTLA Method. Texas Chapter International Society of Arboriculture, Waco, Texas, September 30 – October 2.
- Unger, D., Kulhavy, D., Hung, I., and Zhang, Y. 2015. Using Field-Based Instruction and Hands-On Applications to Quantify Natural Resources, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 29.
- Neville, M., Kulhavy, D., Grant, G., Unger, D., and Weber, S. 2015. Landscape Ecological Principles: Invasive Species Management on the Pineywoods Native Plant Center, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 29.
- Kulhavy, D., Unger, D., Hung, I., and Douglass, D. 2015. Comparing Pictometry and Lidar for Height Measurement: Integration into Spatial Science, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 29.



- Kulhavy, D., Unger, D., Williams, H., and Jamar, D. 2015. Teaching Hands-On Urban Forestry Health Assessment Using Resistograph, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 29.
- Kulhavy, D., Gonzalez, J., Unger, D., and Hung, I. 2015. Assessing Impact of Hurricane Rita on Red-Cockaded Woodpecker Clusters in the Angelina National Forest, Texas. Big Thicket Science Conference, Nacogdoches, Texas, April 17.
- Zhang\*, Y., Unger, D., Hung, I., and Kulhavy, D. 2015. A Study of the Impact of GLONASS and WAAS on the Accuracy of Consumer-Grade GNSS Receivers. Society of American Foresters National Convention, Baton Rouge, Louisiana, November 3-7.
- Zhang\*, Y., Unger, D., Hung, I., and Kulhavy, D. 2015. Accuracy Study of GNSS Unit: Oregon 600. East Texas GIS & GPS User Group Meeting, Nacogdoches, Texas, October 17.
- Unger, D. R., I-K. Hung, I., and D. L. Kulhavy. 2014, April. Accuracy Assessment of Land Cover Maps of Forests within an Urban and Rural Environment. Society of American Foresters, Charleston, South Carolina.
- Kulhavy, D., Unger, D., Hung, I., Creech, D., and Fyne, D. 2014. Is Pictometry Useful in Tree, Shrub and Forest Landscape Ecological Analysis? Society of American Foresters National Convention, Salt Lake City, Utah, October 8-11.
- Unger, D., Kulhavy, D., Hung, I., and Zhang, Y. 2014. Quantifying Natural Resources Using Field-Based Instruction and Hands-On Applications. Society of American Foresters National Convention, Salt Lake City, Utah, October 8-11.
- Creech, D. L., D. L. Kulhavy, D. R. Unger and M. A. Wade. 2014. A spatial analysis of a colony of *Hibiscus dasycalyx*, the Neches River Rose Mallow, established in 1996 in Nacogdoches County, Texas. Floriculture, Ornamentals and Turf Section, 95<sup>th</sup> Annual Meeting, Southern Region of the American Society for Horticulture, January 31-February 2, 2014, Dallas, Texas.  
<http://www.srashes.org/MeetingPrograms/2014%20Dallas/Program%202014%20140116.pdf>
- Creech, D. L., D. L. Kulhavy, D. R. Unger and M. A. Wade. 2014. Is Pictometry a useful tool for tree, shrub and landscape evaluation?. Floriculture, Ornamentals and Turf Section, 95<sup>th</sup> Annual Meeting, Southern Region of the American Society for Horticulture, January 31-February 2, 2014, Dallas, Texas.  
<http://www.srashes.org/MeetingPrograms/2014%20Dallas/Program%202014%20140116.pdf>
- Unger, D., Wade, M., Kulhavy, D., Williams, J., Creech, D., Hung, I., and Zhang\*, Y. 2013. Measuring Tree Height Using Pictometry Hyperspatial 4-Inch Multispectral Imagery. 9<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia, December 8-10.

Kulhavy, D., Unger, D., Wade, M., Hung\*, I., and Zhang, Y. 2013. Use of AR.Drone, iTree and Shade Tree Hazard Rating for Urban Trees. 9th Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia, December 8-10.

Unger\*, D., Kulhavy, D., Wade, M., and Hung, I. 2013. Measuring Tree Height Using Pictometry Hyperspatial Imagery. Society of American Foresters National Convention, Charleston, South Carolina, October 23-27.

Kulhavy\*, D., Wade, M., Unger, D., and Hung, I. 2013. Use of AR.Drone to Hazard Rate Urban Trees. Society of American Foresters National Convention, Charleston, South Carolina, October 23-27.

Kulhavy\*, D., Wade, M., Unger, D., and Hung, I. 2013. Use of the AR.Drone Quadricopter to Hazard Rate Urban Forest Trees. East Texas Forest Entomology Seminar, Nacogdoches, Texas, October 18.

Kulhavy, D., and Unger, D. 2012. Application of CITYgreen in Benefit Assessment of Green Space for Runoff Reduction. Society of American Foresters National Convention, Spokane, Washington, October 24-28.

Kulhavy, D., Unger, D., Zhang, Y., and Palmer, K. 2012. Multi-Criteria Site Evaluation Methodology for Oil and Gas Exploration. Society of American Foresters National Convention, Spokane, Washington, October 24-28.

Kulhavy, D., Wade, M., Unger, D., and McBride, D. 2012. Landscape Ecological Assessment of Campus Wide Recycling at Stephen F. Austin State University. Society of American Foresters National Convention, Spokane, Washington, October 24-28.

Kulhavy, D., and Unger, D. 2012. Using GoogleEarth and ArcGIS 10.0 to Landscape Design in Teaching Urban Forestry. Society of American Foresters National Convention, Spokane, Washington, October 24-28.

Kulhavy, D., Unger, D., and Ochoa, A. 2012. Landscape Analysis of Trails in Nacogdoches County, Texas. Society of American Foresters National Convention, Spokane, Washington, October 24-28.

Kulhavy, D. L. and C. D. Jones. 2012. Incorporating A Forest Insect Alphabet and Edge of Life into a forest insects and disease class. Conference on University Education in Natural Resources, Fort Collins, Colorado, March 2012.

Kulhavy, D. L. 2012. Forest Insects and Diseases: High Impact Teaching. 54<sup>th</sup> Southern Forest Insect Work Conference and 2012 Southwide Forest Disease Workshop, Charlottesville, Virginia. <https://fp.auburn.edu/sfws/enebak/swfdw/programs/SFIWC-SWFDW%202012%20Proceedings%20ver1.pdf>

- Kulhavy, D. L. 2012 (January). The LOT Crew (Leaders of Tomorrow) spatial science as a profession, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas <http://www.nacogdoches.org/news-view.php?id=972>
- Zhou, L., Y. Yunlong, D. Creech, K. Farrish, D. L. Kulhavy and L. Young. 2010. Effects of salt sources and rates on three *Taxodium* genotypes. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Schroeder, A., J. Adkins and D. L. Kulhavy. 2010. Importance of spicebush in the landscape. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Chapman, J., Hung, I., Unger, D., Kulhavy, D., and Tippens, J. 2010. Assessing LIDAR Accuracy for Forest Measurement. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8.
- Stephens Williams, P., D. Kulhavy, K. Stafford, J. Jones and B. P. Oswald. 2010. Changing roles to change the nature of future natural resource professionals: Providing tools to teach the public about fire. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Kulhavy, D. L., D. R. Unger, M. Clanahan and D. Braman. 2010. Historic trails analysis: the Ghost Trail of Nacogdoches. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010
- Unger\*, D., Kulhavy, D., and Hung, I. 2010. Southern Pine Beetle Hazard Rating Using High Spatial Resolution Digital Imagery. Society of American Foresters National Convention, Albuquerque, New Mexico, October 27-31
- Chapman, J., I-K. Hung, D. Kulhavy and J. Tippen. 2010. Assessing LiDAR accuracy for forest management. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Conway, W. C., D. Haukos, S. Saalfield, D. Saalfield and D. L. Kulhavy. 2010. Distributional records of tiger beetles (Coleoptera: Cincindelidae) in saline lakes of the Southern High Plains of Texas. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010
- Conway, T., D. L. Kulhavy, J. Shannon, M. Legg and C. Harris. 2010. Teachers' Conservation Institute: linking educators, kids and nature. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Kulhavy, D. L., D. R. Unger, I-K. Hung and J. Gonzales. 2010. Hurricane Rita impact on red-cockaded woodpecker clusters. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas, April 8, 2010.
- Ward, W., M. McBroom and D. L. Kulhavy. 2010. Landscape ecological processes of constructed wetlands. Bright Ideas Conference, Stephen F. Austin State University,

Nacogdoches, Texas, April 8, 2010.

Unger, D., and Kulhavy, D. 2010. Hazard Rating for Southern Pine Beetle in East Texas. Society of American Foresters National Convention, Albuquerque, New Mexico, October 27-31.

Kulhavy, D. L., J. Gonzales, D. R. Unger and I-K. Hung. 2009. Assessing impact of Hurricane Rita on habitat of red-cockaded woodpecker clusters (*Picoiodes borealis*) in Angelina National Forest, Texas. Forest Biology and Management, Society of American Foresters National Convention, Orlando, Florida, 30 September-4 October, 2009.

Folts, L., M. Legg, R. Darville, F. E. Elliott and D. L. Kulhavy. Landowner opinions and management strategies for the Lake Columbia Reservoir Project. Human Dimensions No. 1, Society of American Foresters National Convention, Orlando, Florida, 30 September-4 October, 2009.

Kulhavy, D. L. 2009. More bugs in the woods: Interpreting insects for children. Outreach and Education, Society of American Foresters National Convention, Orlando, Florida, 30 September-4 October, 2009.

Williams, J. and D. L. Kulhavy. 2009. The social construction of invasive species. Annual Meeting of the American Sociological Association, San Francisco, California.

Kulhavy, D. L. 2009. What's new in the teaching world of forest insects and disease. East Texas Forest Entomology Seminar, Lufkin, TX, April, 2009.

Kulhavy, D. L. and W. C. Conway. 2009. Two forestry members to be honored at Gala. Pine Log, December 7, 2009.

Kulhavy, D., Gonzalez, J., Unger, D., and Hung, I. 2009. Hurricane Rita Impact on Red-Cockaded Woodpecker Clusters in Texas. Society of American Foresters National Convention, Orlando, Florida, September 30-October 4.

Kulhavy, A. L., D. Braman and D. L. Kulhavy. 2009. Trash (In)Action. Clinton Global Initiative University, Austin, TX.

Leon York, Donald Braman, Arika L. Kulhavy and David L. Kulhavy. 2009. Trash (In) Action. Arthur Temple College of Forestry and Agriculture, Division of Environmental Science - 2009 Undergraduate Research Conference: Celebrating Academic Diversity, Stephen F. Austin State University, Nacogdoches, Texas.

D. Wu, I-K. Hung, D. L. Kulhavy & D. R. Unger Bright Ideas Conference, 2008, Shade Tree Evaluation in City Parks Using GIS, Stephen F. Austin State University, Nacogdoches, Texas.

Di, W., Hung, I.K., Kulhavy, D.L., and Unger, D.R. 2008. Shade Tree Evaluation in City Parks using GIS. Sixth Southern Forestry and Natural Resource Management GIS Conference, Orlando, Florida, March 24-26.

- L. Starks, D. L. Kulhavy, D. Young, D. R. Unger, A. L. Kulhavy and C. Denson. Use of GIS Mapping Sidewalk Priority in Nacogdoches, *Texas*, Bright Ideas Conference, 2008, Stephen F. Austin State University, Nacogdoches, Texas.
- K. Ford, D. L. Kulhavy, S. Richardson & D. R. Unger. 2008. Landscape Ecological Analysis of an Historic Trail Using *GIS*, Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas.
- Ford, K., Kulhavy, D.L., Richardson, S., and Unger, D.R. 2008. Landscape Ecological Analysis of an Historic Trail using GIS. Sixth Southern Forestry and Natural Resource Management GIS Conference, Orlando, Florida, March 24-26
- D. R. Unger, D. L. Kulhavy & J. E. Benson. 2008. Merging GPS Data with High Spatial Resolution Multispectral Imagery: An urban recreation case study. Bright Ideas Conference, Stephen F. Austin State University, Nacogdoches, Texas.
- Kulhavy, D. L. 2008. Forest Entomology, Stephen F. Austin State University. Invited paper, East Texas Forest Entomology Seminar, Lufkin, TX.
- Kulhavy, D. L. 2007. Southern pine beetle hazard rating using weights of evidence. Southern Forest Insect Work Conference, Jekyll Island, Georgia, July 23-26, 2007.
- Unger, D.R., and Kulhavy, D.L. 2007. Merging GPS Data with High Spatial Resolution Multispectral Imagery: An Urban Case Study. Society of American Foresters National Convention, Portland, Oregon, October 23-27.
- Unger, D. R. and D. L. Kulhavy. 2007. Merging GPS data with high spatial resolution multispectral imagery: An urban case study. Society of American Foresters National Convention Proceedings, Portland, OR
- Kulhavy, D., Unger, D., Shockley, F., and Bardwell, J. 2007. Landscape Analysis of George W. Pirtle Scout Reservation. ESRI International User Conference, San Diego, California, June 18-22.
- Unger, D., Kulhavy, D., and Benson, J. 2007. Pecan Park Disc Golf Course: Integrating High Spatial Resolution Imagery with GPS Vector Data. The 21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Imagery for Resource Assessment, Terre Haute, Indiana, May 15-17.
- Unger, D.R., and Kulhavy\*, D.L. 2007. Use of GIS and Remote Sensing to Assess Natural Resources. GIS Day, Panola College, Carthage, Texas, November 14.
- Kulhavy\*, D.L., Di, W., Brown, C., Unger, D., Kulhavy, A., and Killough, M. 2007. Landscape Ecological Analysis of Forest Health for Park Planning in Nacogdoches, Texas. Society of American Foresters National Convention, Portland, Oregon, October 23-27.

- Unger, D. R. and D. L. Kulhavy. 2007. Pecan park disc golf course: A visual interpretation using high spatial resolution multispectral imagery. 21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Management Conference Proceedings, Indiana State University, Terra Haute, Indiana.
- Unger, D.R., and Kulhavy, D.L. 2007. A Visual Analysis of Urban Recreation using High Spatial Resolution Imagery. Annual East Texas Geospatial Conference, Nacogdoches, Texas, November 7-9.
- Kulhavy, D. L., D. R. Unger, F. B. Shockley and J. Bardwell. 2007. Landscape ecological analysis of George W. Pirtle Scout Reservation. 21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Management Conference Proceedings, Indiana State University, Terra Haute, Indiana.
- Unger, D., and Kulhavy, D. 2006. Pecan Park Disc Golf Course. Boy Scout Eagle Project (Kiosk and 18 Fairway Maps), Nacogdoches, Texas, October 19.
- Kulhavy\*, D., Hammer, C., Unger, D., Shockley, F., and Bardwell, J. 2006. Landscape Ecological Analysis Using High Spatial Resolution Imagery. Society of American Foresters National Convention, Pittsburgh, Pennsylvania, October 25-29.
- Kulhavy\*, D.L., and Unger, D.R. 2005. Hazard Rating for the Southern Pine Beetle in East Texas. East Texas Forest Entomology Seminar, Nacogdoches, Texas, October 13.
- Unger, D.R., Kulhavy, D.L., and McAfee, G.D. 2005. Evaluating the Geometric Accuracy of QuickBird Imagery: A Users Perspective. Society of American Foresters National Convention, Fort Worth, Texas, October 19-23, CD-ROM.
- Unger, D.R., McAfee, G., and Kulhavy, D.L. 2004. Assessing the Geometric Accuracy of QuickBird Panchromatic and Multispectral Data. 20th Annual Louisiana Remote Sensing and GIS Workshop, Lafayette, Louisiana, April 20-22.
- Kulhavy\*, D.L., and Unger, D.R. 2004. Hazard Rating of Urban Park Trees in Nacogdoches, Texas: Implications for Management. SWAAG and Mid-South ASPRS Fall Meeting, Nacogdoches, Texas, November 10-13.
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Rozelle, K. B. 2001. A comparison of resin production in naturally excavated red-cockaded woodpecker cavity trees with artificial cavity-insert trees. M. S. Forestry Thesis, Stephen F. Austin State University, Nacogdoches, Texas.

Smith, L. A. 2001. Impact of the Texas leaf-cutting ant (*Atta texana* (Buckley)) (Hymenoptera: Formicidae) on foliar nutrient concentrations on droughty sites in East Texas. M. S. Forestry Thesis, Stephen F. Austin State University, Nacogdoches, Texas.

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- Matthews, J. 1998. Pest management strategies for Longhorn Army Ammunition Plant and an assessment of aerial videography for hazard rating pine stands for southern pine beetle infestations. M. S. Forestry Thesis, Stephen F. Austin State University, Nacogdoches, Texas.
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- Ross, W. G. 1995. Physiology and impact of bark beetles on red-cockaded woodpecker cavity tree clusters. Ph. D. Dissertation, Stephen F. Austin State University, Nacogdoches, Texas.
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- Cahal, R. R., III. 1993. The Texas leaf-cutting ant, *Atta texana* (Buckley) (Hymenoptera: Formicidae), and its effects on soil formation on sandy soils in East Texas. M. S. Forestry Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 72 p.
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- Sun, Jianghua. 1991. Effects of fertilizer and herbicide applications on Nantucket pine tip moth, *Rhyacionia frustrana* (Comstock) (Lepidoptera: Tortricidae) infestation rate in young loblolly pine plantations in Nacogdoches County, Texas. Doctoral Dissertation, Stephen F. Austin State University, Nacogdoches, Texas. 110 pp.
- Tracey, W. D. 1989. Land and resource management considerations on Typic Quartzipsamments. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 74 pp.

- Ross, W. G. 1989. Nantucket pine tip moth infestation rates manipulated by nitrogen and phosphorus fertilizers and herbicides. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 96 pp.
- Meeker, J. R. 1987. Site and stand relationships and influences on pine tip moth infestation rates. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 200 pp.
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- Wick, C. W. 1985. Virginia pine Christmas trees: An analysis of the resource in East Texas. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 109 pp
- Bing, J. W. 1985. Associate-induced mortality of *Ips grandicollis* (Eichhoff) on felled loblolly (*Pinus taeda* L.) and shortleaf (*P. echinata*) pines in East Texas. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas
- Wilson, K. H. 1984. Validation and extension of a hazard rating system for the Nantucket pine tip moth *Rhyacionia frustrana* (Comstock) (Lepidoptera: Tortricidae) in East Texas. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 68 pp.
- Bryant, V, C. M. 1983. Pine engraver and black turpentine beetles associated with endemic populations of southern pine beetles in East Texas. M. S. Forestry Thesis, , Stephen F. Austin State University, Nacogdoches, Texas. 81 pp.
- Mask, R. A. 1982. Bark beetle risk and hazard rating for outdoor recreation areas in East Texas. M. S. Forestry, Stephen F. Austin State University, Nacogdoches, Texas. 60pp.
- White, M. N. 1982. Nantucket pine tip moth, *Rhyacionia frustrana* (Comstock) (Lepidoptera: Tortricidae) infestation rates related to site/stand characteristics in Nacogdoches County, Texas. M. S. Forestry Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 73 pp.
- Andersen, B. C. 1980. Estimating infestation rates of Nantucket pine tip moth, *Rhyacionia frustrana* (Comstock) (Lepidoptera: Tortricidae) through sequential sampling. M. S. For. Thesis, Stephen F. Austin State University, Nacogdoches, Texas. 50 pp.

### **Consulting Activities**

**Eisenhower Grant, Tyler Junior College**, Using Insects in the Classroom, program for Elementary School teachers

**Dr. Dave's Bugs, Insects for Children**, presentations for public schools

**Southern Pine Beetle Task Force**, R. F. Billings, Texas Forest Service, Chair, regional Society of American Foresters; Forest Insect and Disease Working Group; Remote Sensing and GIS Working Group; Urban Forestry Working Group; national

### **Other Intellectual or Research Contributions**

**Songs for children composition;** music scored and played on piano and flute; presentation for blind and deaf children. Worked with American Sign Language Interpretation for program on Monarch Butterfly and songs for children on monarch butterfly

### **WORKSHOPS OR SYMPOSIA DIRECTED**

- Southern Forest Insect Work Conference, New Orleans, LA, Program Chair
- East Texas Forest Entomology Seminar, Kurth Lake, TX, Co-chair with Dr. Ron Billings, Texas Forest Service, 39 years
- Wilderness and Natural Areas in Eastern North America: Research, Management and Planning, Gatlinburg, TN, with Dr. Michael H. Legg
- Wilderness and Natural Areas in the Eastern United States: A Management Challenge, Nacogdoches, TX, with Dr. Michael H. Legg and Dr. Richard N. Conner
- Red-cockaded Woodpecker: Ecology and Management, North Charleston, SC, with Ralph Costa and Robert Hooper
- Predators and Parasites of *Dendroctonus* Bark Beetles, Entomological Society of America Symposium with Dr. M. C. Miller
- What's Past is Prologue National Association for Interpretation, Charleston, SC with Dr. Michael H. Legg
- Teaching Conference on Youth Education in Entomology, Entomological Society of America National Meeting, with Dr. Paul C. Johnson