



DoubleTree Hotel  
 1973 Craigshire  
 St. Louis, MO  
 314-434-0100

**Welcome to the 2009 Thousand Cankers of  
Black Walnut National Conference!**

**Notes:**

Dear Meeting Participants:

On behalf of the Missouri Department of Agriculture, we welcome you to St. Louis and the 2009 Thousand Cankers of Black Walnut National Conference.

We have planned a meeting that we hope will be informative, collaborative and move us towards safeguarding one of our most important forest and agricultural resources. It is our hope that this time together will help forge new relationships, improve the information flow about this pest complex, and spur on needed research, outreach and survey work. We also hope that the facilities of the Doubletree Hotel and the various eating, shopping, and entertainment venues of Westport Plaza make your visit to Missouri an enjoyable one.

We wish to thank Doug LeDoux for his work in developing the meeting agenda, coordinating the speakers and assisting with the industry sponsors. We also thank Bonnie Russell for her work with local arrangements and registration, and Donna Brandt for coordinating the industry sponsors' support of the meeting. We thank each of the sponsors for their contributions and support of our meeting and invite attendees to visit with the sponsors and thank them.

For our invited speakers, we thank you for your time and participation which will help make the meeting a valuable experience for everyone.

We thank the Missouri Department of Conservation for their invaluable assistance and generous support.

Please enjoy your time at the meeting and let us know how we can make your visit to Missouri even better!

Sincerely,

Collin Wamsley, State Entomologist

**Notes:**

**Sponsors**

Central Plant Board  
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National Wild Turkey Federation  
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Mauget — Inject-A-Tree  
Missouri Community Forestry Council

## Agenda

**Tuesday, November 3, 2009**  
**Plaza I & II**

8:00-8:15a.m. – Welcome – Dr. Jon Hagler, Director – Missouri Department of Agriculture

8:15-9:00a.m. - Ned Tisserat (Colorado State University) - **Walnut in the West: Death by a Thousand Cankers.**

9:00-10:00a.m. - Whitney Cranshaw (Colorado State University) - **Issues Surrounding Management of Thousand Cankers Disease.**

10:00-10:30a.m.-Break

10:30-11:00a.m. – Kathleen Alexander (City of Boulder, CO) – **The City of Boulder Story: Thousand Cankers Disease Management from a Municipal Perspective.**

11:00-12:00 - Steve Seybold (US Forest Service) - **An Overview of the Walnut Twig Beetle and Thousand Cankers Disease in California**

12:00-1:15p.m.-Lunch (Plaza III) -Speaker-Larry Frye (National Walnut Council) - **The Challenge- Failure is Unacceptable-Stop 1000 Cankers Disease in Black Walnut [*Juglans nigra*] from Spreading.**

1:30-2:30 p.m. Mark Coggeshall (UMC, Department of Forestry Research Analyst / Tree Improvement Specialist) - **Black Walnut Germplasm Preservation & Nut Economics.**

2:30-3:15p.m. Bruce Moltzan (Pathologist-U.S. Forest Service) - **Developing a National Response Framework for Thousand Cankers Disease on Black Walnut.**

estry Insect & Disease Committee and has been active on the ISA-Rocky Mountain Chapter Education Committee both organizing and participating in the annual Plant Health Care workshop and the ISA certified arborist training.

She has collaborated with Drs. Ned Tisserat and Whitney Cranshaw from Colorado State University over the past 4 years to host walnut tree dissections and to help in any way possible to identify Thousand Cankers Disease and educate local foresters, state and federal agencies on the severity and management of the disease.

**Manfred Mielke**  
**U.S. Forest Service**  
**Acting AD NRS**  
**St. Paul, MN**  
[mmielke@fs.fed.us](mailto:mmielke@fs.fed.us)  
**Phone: 651-649-5267**

Manfred has been with the FS for 32 years. He has worked in Forest Health Protection since 1979 and as a Plant Pathologist in the Northeastern Area since 1981. While stationed in Morgantown WV, he worked on spruce decline, beech bark disease, oak wilt and nursery diseases. In 1986 he moved to St. Paul where he continued to work on BBD, OW, butternut canker, sapstreak disease, ash decline and

SOD. He currently is the lead pathologist in NA coordinating pathology activities. He is the current Vice President of the Walnut Council, and was the former long-time Chair of the Protection Committee.

He looks forward to becoming a gentleman forester managing central hardwoods, including black walnut, on his acreage in the Wisconsin Coulee's.

and management of diseases of all fruit, nut, and ornamental/nursery crops. He is also co-editor of regional publication The Pacific Northwest Plant Disease Management Handbook.

**Harlan Palm**  
2605 Westbrook Way  
Columbia, MO 65203  
[PalmH@missouri.edu](mailto:PalmH@missouri.edu)  
Phone: 573-228-0898

**Title: A Walnut Grower's Worst Nightmare and Some Perspectives.**

MS and PhD in Weed Science, University of MO. Employed 29 years by DuPont with experience as Global Product Development Manger. Employed 10 years by University of MO Precision Ag regarding GPS and variable-rate technology. Retired in April, 2009. Owns a tree farm with 800 walnuts and other hardwoods. He has managed walnut growth through pruning, weed control, and thinning practices of 3,000 walnut trees on 15 farms and a MU Exp. Station for the past 7 years. He is currently serving his third term as President of the MO Chapter of the Walnut Council.

**Kathleen Alexander**  
City Forester  
Urban Resources Section,  
Parks and Recreation Department  
City of Boulder  
Phone: 303-441-3406  
Fax: 303-441-4061  
[AlexanderK@bouldercolorado.gov](mailto:AlexanderK@bouldercolorado.gov)

**Title: The city of Boulder Story; Thousand Cankers Disease Management from a Municipal Perspective**

Kathleen Alexander is the City Forester for the Boulder, Colorado. She received her B.S. in Forest Biology and M.S. in Forest Management from Colorado State University.

Kathleen serves as co-chair of the Front Range Urban For-

3:15-3:45p.m. Break

3:45-4:30p.m. Scott Pfister (USDA APHIS PPQ) – **Thousand Cankers Pathways Analysis and Regulatory Considerations.**

4:30-5:00 p.m. Collin Wamsley (Mo. Dept. of Ag.) - **Regulation of Thousand Cankers Disease-A State Perspective.**

Evening: 6:00-8:00p.m.-Missouri Wine Tasting served with an array of Hors d'oeuvres (Plaza IV, V & VI).

Dinner on your own-free shuttle provided to local restaurants.

**Wednesday, November 4, 2009**  
**Plaza I & II**

8:00–8:30a.m. Jerry Van Sambeek (US Forest Service) and Stephen Shifley (US Forest Service)- **Occurrence of Walnut on Forest Land in the United States.**

8:30-9:00a.m. Brian Hammons (Hammons Products) - **The Importance of Nuts From Black Walnut Trees to Industry as Well as To Consumers, Harvesters, and Many Towns in Rural America.**

9:00-10:00a.m. Jay Pscheidt (Oregon State University) – **Black Walnut Decline in Oregon.**

10:00a.m.-10:30 a.m.-Break

10:30-12:00 Jason Oliver (Tennessee State University) and Chris Ranger (USDA-ARS) - **Advances In Understanding Ambrosia Beetle Chemical Ecology and Utilizing the Findings to Improve Insecticide Management Studies.**

12:00-1:15 p.m. (Plaza III)-Lunch-Speaker-Harlan Palm (President-Missouri Walnut Council) **A Walnut Grower's Worst Nightmare and Some Perspectives.**

1:30-2:45 - Panel Discussion- Moderated by Manfred Mielke, (U.S. Forest Service) - **Thousand Cankers Disease of Black Walnut -Where do we go from here on Science, Regulation, Education, and Monitoring?**

2:45-3:15p.m. – Break

3:15-4:30p.m. – Panel Discussion Continued and Wrap Up

Hotel Provides Free Shuttles To/From St. Louis Lambert International Airport

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## **SPEAKER INFORMATION**

### **List of Speakers and Contact Information:**

**Ned Tisserat**  
**Colorado State University**  
**1225 Gregory Rd**  
**Fort Collins, CO 80524**  
[Ned.tisserat@colostate.edu](mailto:Ned.tisserat@colostate.edu)  
**Phone: 970-231-3134**  
**Fax: 970-491-3862**

**Title: Walnut in the West: Death by a Thousand Cankers**  
Ned Tisserat received his B.S. from Colorado State University, his M.S from Texas A&M University and a Ph.D. from the University of Wisconsin-Madison in plant pathology. He currently is an extension specialist and professor in the Department of Bioagricultural Sciences and Pest Management at Colorado State University. His research includes studies on the biology and management of turfgrass, tree, ornamental, and small grain diseases. His research group is currently studying the biology of 1000 cankers disease of black walnut.

**Chris Ranger**  
**Agricultural Engineering Bldg.**  
**1680 Madison Ave**  
**Wooster, OH, 44691**  
[Christopher.Ranger@ARS.USDA.Gov](mailto:Christopher.Ranger@ARS.USDA.Gov)  
**Phone: 330-263-3897**  
**Fax: 330-263-3696**

**Title: Advances in Understanding Ambrosia Beetle Chemical Ecology and Utilizing the Findings to Improve Insecticide Management Studies.**

Chris Ranger is a Research Entomologist within the Application Technology Research Unit, USDA-ARS, Wooster, Ohio. He has been with the USDA-ARS since 2004. Chris primarily uses chemical ecology principles to improve the detection, monitoring, and management of ambrosia beetles attacking ornamental nursery stock. His research program also focuses on developing reduced-risk and botanically-based formulations for controlling ambrosia beetles and Scarab white grubs. Chris collaborates extensively with Dr. Oliver and other colleagues on improving ambrosia beetle and white grub management strategies.

**Jay W. Pscheidt**  
**Extension Plant Pathology Specialist**  
**Oregon State University**  
**Department of Botany & Plant Pathology**  
**1089 Cordley Hall**  
**Corvallis, OR 97331-2903**  
[pscheidj@science.oregonstate.edu](mailto:pscheidj@science.oregonstate.edu)  
**Phone: 541-737-3472**  
**Cell: 541-740-6621**  
**Fax: 541-737-2412**

**Title: Black Walnut Decline in Oregon.**

Jay W. Pscheidt received his Ph.D. in Plant Pathology from the University of Wisconsin-Madison in 1985. Since 1988 he has been a professor at Oregon State University as an Extension Plant Pathology Specialist. His principal duties are to lead a statewide extension program related to the diagnosis

souri State University, and serves on the Boards of Directors for the Missouri Chamber of Commerce & Industry, and the Stockton Community Development Corporation.

Brian lives in Stockton with his wife of 29 years, Kim. They have 3 children: April, 25, a graduate student in Washington, DC; David, 24, who just earned his MBA at Missouri State University; and Adam, 19, a student at Missouri State University. Brian's primary hobby is running, having completed 27 marathons including the Boston Marathon 9 times.

**Jason Oliver**  
**Research Associate Professor**  
**Tennessee State University**  
**School of Agriculture and Consumer Sciences**  
**TSU Otis L. Floyd Nursery Research Center**  
**472 Cadillac Lane**  
**McMinnville, TN 37110**  
[joliver@tnstate.edu](mailto:joliver@tnstate.edu)  
**Phone: 931-668-3572**  
**Fax: 931-668-3134**

**Title: Advances in Understanding Ambrosia Beetle Chemical Ecology and Utilizing the Findings to Improve Insecticide Management Studies.**

Dr. Jason Oliver is a Research Associate Professor of Entomology at the Tennessee State University Otis L. Floyd Nursery Research Center, McMinnville, TN. He has been at the Center since 1997, working primarily on new treatments to certify field-grown nursery stock against Japanese beetle grubs and imported fire ants. Dr. Oliver also performs research on the chemical management of flatheaded borers and ambrosia beetles, as well trap development to improve the timing of treatments and monitoring of wood-boring beetles. Dr. Oliver and Chris Ranger collaborate on Japanese beetle and wood-borer research.

**Whitney Cranshaw**  
**Colorado State University**  
**1225 Gregory Rd**  
**Fort Collins, CO 80524**  
[Whitney.cranshaw@colostate.edu](mailto:Whitney.cranshaw@colostate.edu)  
**Phone: 970-491-6781**  
**Fax: 970-491-3862**

**Title: Issues Surrounding Management of Thousand Cankers Disease**

Whitney Cranshaw is professor of entomology in the Department of Bioagricultural Sciences and Pest Management at Colorado State University in Fort Collins, Colorado. He is the author of *Pests of the West* (Fulcrum Press, 1992) and *Garden Insects of North America*. Princeton University Press.

**Steve Seybold**  
**Chemical Ecology of Forest Insects**  
**USDA Forest Service, Pacific Southwest Res. Station**  
**720 Olive Drive, Suite D**  
**Davis, CA 95616**  
[sseybold@fs.fed.us](mailto:sseybold@fs.fed.us)  
**Phone: 530-297-1072**  
**Fax: 530-297-1098**

**Title: An Overview of the Walnut Twig Beetle and Thousand Cankers Disease in California**

Steven J. Seybold is a research entomologist with the USDA Forest Service. He is trained in forest entomology and chemical ecology with a B.S. in Forest Resources (University of Wisconsin-Madison, 1983) and a Ph.D. in Entomology (University of California at Berkeley, 1992). He also did postdoctoral work at the University of Nevada related to the origin of chemical signaling systems in bark beetles.

Seybold has 20 years of research experience with the chemical ecology and biology of bark and wood-boring beetles. He has published over 60 scientific articles in refereed jour-

nals or books on a range of topics related to these insects, most recently with an emphasis on invading species. His most notable and highly cited research publications include the first demonstration of *de novo* pheromone biosynthesis in bark beetles (*Proc. Nat. Acad. Sci. USA* 92:8393-8397), a geographic study of pheromone distribution in a pine bark beetle (*JCE* 21:995-1016 and *Proc. R. Soc. Lond. B.* 266:1843-1850), and a review of isoprenoid biosynthesis in pine bark beetles (*Ann. Rev. Entomol.* 48: 425-453). He has also published numerous non-refereed reports and extension bulletins on related topics. From 1998-2002, Seybold was on the faculties of Entomology and Forest Resources at the University of Minnesota where he directed the research activities of five graduate students and taught a course in forest and shade tree entomology to undergraduate and graduate students majoring in various resource sciences on the St. Paul campus. Since October 2002, Seybold has been a research entomologist with the Chemical Ecology of Forest Insects Project at the USDA Forest Service Pacific Southwest Research Station in Davis, California.

**Larry Frye**  
**National Walnut Council**  
**35 Village Court**  
**Zionsville, IN 46077**  
[frylarryr@aol.com](mailto:frylarryr@aol.com)  
**Phone: 317-873-5630**

**Title: The Challenge- Failure is Unacceptable-Stop 1000 Cankers Disease in Black Walnut [*Juglans nigra*] from Spreading.**  
Former Executive Director and Association Forester [Retired American Walnut Manufactures Association Fine Hardwood Veneer Association. Frye retired in 2003 after 40 years within the Forestry profession and the hardwood lumber and veneer industry. During his career, he worked as a Service Forester for the Pike Lumber Company; Marketing Director for Indiana Veneers Corporation; Forester and Executive Director to the Fine Hardwood Veneer Association; Forester and Executive Director to the Walnut council, Inc.; and For-

visory positions. Much of his research deals with dynamics, modeling or analysis of Central Hardwood Forests. He is interested in broad-scale issues of forest sustainability and has been working collaboratively on landscape-scale modeling and decision-support projects for the past decade. He recently co-authored the second edition of *The Ecology and Silviculture of Oaks*, published by CABI Press.

**Brian Hammons**  
**105 Hammons Drive P.O. Box 140**  
**Stockton, Missouri 65785**  
[bhammons@black-walnuts.com](mailto:bhammons@black-walnuts.com)  
**Phone: 417-276-5181**  
**Fax: 417-276-1762**

**Title: The importance of Nuts from Black Walnut trees to industry as well as to consumers, harvesters, and many towns in rural America.**  
Brian Hammons is President and CEO of Hammons Products Company in Stockton, Missouri. He is the third generation leader of the company, which was started in 1946 and is the leading commercial processor of American Black Walnuts. The company buys about 25 million pounds of wild Black Walnuts every year from people in 15 states, shelling them and selling the nutmeats as a food ingredient and the hard nutshells as an abrasive for machine cleaning, filtration, and oil drilling mud.

Brian has degrees from Missouri State University in Springfield, Missouri, and Southern Methodist University Law School in Dallas, TX. He has been actively involved in the Black Walnut company since 1987. He also has experience with other nuts, having run the company's Ellis Pecan Co. business in Fort Worth, TX in the mid-90's before selling it successfully. Brian was named President of Hammons Products in 1997, and in July 1999 he was also named CEO of the company.

Beyond the company, Brian currently serves as Conference Lay Leader for the Missouri Conference of the United Methodist Church, Chairman of the Board of Governors of Mis-

**Jerry Van Sambeek**  
**U.S. Department of Agriculture, Forest Service**  
**Cooperative Associate Professor**  
**Northern Research Station, USDA Forest Service**  
**202 Natural Resources Bldg., UMC, Columbia, MO**  
**65211-7260**  
[jvansambeek@fs.fed.us](mailto:jvansambeek@fs.fed.us)  
**Phone: 573-875-5341 Extension 233**  
**FAX: 573-882-1977**

**Title: Occurrence of Walnut on Forest Land in the United States.**

J. W. 'Jerry' Van Sambeek has been a Research Plant Physiologist for the USDA Forest Service for over 30 years. In 1979, he joined the research team working on black walnut and high value hardwoods in Carbondale, IL where he remained until transferred to Columbia, MO in 1998. His research interests have included hardwood plantation management, especially effects of alternative ground covers on tree growth and nut production, and hardwood propagation, especially micro propagation of walnut and ash species. He has been on the Walnut Council Board of Directors for almost 30 years and currently serves as chair of their Education Committee. Ph.D. 1990, Washington University, St Louis, MO.

**Stephen R. Shifley**  
**Northern Research Station, U.S. Forest Service**  
**202 Anheuser-Busch Natural Resources Bldg.**  
**University of Missouri**  
**Columbia, MO 65211-7260**  
[sshifley@fs.fed.us](mailto:sshifley@fs.fed.us)  
**Phone: 573-875-5341 x232**  
**Fax: 573-882-1977**

**Title: Occurrence of Walnut on Forest Land in the United States.**

Stephen Shifley has been a Research Forester and Biometrician with the USDA Forest Service for more than 30 years. During that time he worked in St. Paul, Minnesota, and Columbia, Missouri, in a variety of scientific and super-

estry and Veneer Specialist to the Hardwood Plywood and Veneer Association.

Frye is a member of the Indiana Hardwood Lumbermen's Association and in 2000 was elected a "Fellow" by his peers with the Society of American Foresters. He served two-terms as a Boone County Commissioner and was recipient of the 1999 Black Walnut Achievement Award given by the Walnut Council. Frye is an Eagle Scout. He is a Commissioned Officer having served 31 years in the US Army and US Army Reserve, retiring in 1989.

**Bruce Moltzan**  
**Plant Pathologist**  
**USDA Forest Service**  
**1601 N Kent Street RPC, 7th Floor (FHP)**  
**Arlington, VA 22209**  
[bmoltzan@fs.fed.us](mailto:bmoltzan@fs.fed.us)  
**Phone: 703-605-5336**  
**Fax: 703-605-5353**

**Title: Developing a National Response Framework for Thousand Cankers Disease on Black Walnut.**

A native of Great Falls, Montana, Bruce Moltzan earned his Bachelor's degree in Biology from Minnesota State University, Moorhead in 1987. He then completed a Master's degree in Plant Pathology with specialization in shelterwood pathology from North Dakota State University in 1991, and acquired his Doctorate in Forest Pathology from the Department of Plant Science, University of Alberta in 1998. Dr. Moltzan then worked as a postdoctoral fellow for Alberta-Pacific Forest Industries, Ltd., a large pulp and paper mill in northeastern Alberta assessing resistance in hybrid poplar and superior aspen clones. Following his postdoc, he then became the State Forest Pathologist for the Missouri Department of Conservation overseeing the plant diagnostic clinic located in Columbia, Missouri from 2000-2008. Dr. Moltzan currently serves as the National Program Leader of Forest Pathology within the Forest Health and Protection Unit (FHP), USDA Forest Service's National Headquarters in

Washington DC. Bruce's on-going pathology interests include tree-microbe interaction, fungal ecology, biological control, oak wilt transmission, emerging exotic forest pests, and fungal systematics. He enjoys an active family life, hiking in the great outdoors, and dining on wild mushroom cuisine. Remember you can eat any mushroom at least once.

**Mark Coggeshall**  
**Department of Forestry**  
**Research Analyst / Tree Improvement Specialist**  
**203 ABNR, Forestry**  
**Columbia, MO 65211**  
[coggeshallm@missouri.edu](mailto:coggeshallm@missouri.edu)  
**Phone: 573-884-1777**

**Title: Black Walnut Germplasm Preservation & Nut Economics.**

Mark Coggeshall has worked on the genetic improvement of eastern black walnut for both timber and nuts in the Mid-western U.S. since 1978. He received a B.S. in Forest Management from the University of Massachusetts, followed by a M.S. degree in Forest Genetics from Mississippi State University and a PhD in Horticulture from the University of Missouri. Since 2000, he has worked as a Research Analyst with the University of Missouri Center for Agroforestry with responsibilities for the development of new, improved nut cultivars of black walnut, pecan and Chinese chestnut. He also serves as the Tree Improvement Specialist for the Missouri Department of Conservation.

**Scott Pfister**  
**Director, Forest Pest Program**  
**Emergency and Domestic Programs**  
**USDA APHIS PPQ**  
**4700 River Road, Unit 137**  
**Riverdale, MD 20737**  
**Phone: 301-734-7338**  
**Fax: 301-734-8724**  
[Scott.e.pfister@aphis.usda.gov](mailto:Scott.e.pfister@aphis.usda.gov)

**Title: 1000 Cankers Pathways Analysis and Regulatory considerations.**

Dr. Scott Pfister was recently selected as Director of Forest Pest Programs. He has 19 years of service working with plant protection organizations. He has worked for the Vermont Department of Forests, Parks, and Recreation as Forest Resource Protection Chief. He has also served as the State Plant Regulatory Official and Plant Pathologist for the Vermont Agency of Agriculture. In addition to a Ph.D in Natural Resources (Forest Health specialization), Dr. Pfister holds a Master of Science degree in plant pathology and a Bachelor of Science degree in Agronomy. Dr. Pfister is a Captain in the National Guard and served a tour of duty in Afghanistan in 2008.

**Collin Wamsley**  
**State Entomologist**  
**Missouri Department of Agriculture**  
**PO Box 630**  
**Jefferson City, MO 65102**  
[collin.wamsley@mda.mo.gov](mailto:collin.wamsley@mda.mo.gov)  
**Phone: 573-751-5505**  
**Fax: 573-522-1109**

**Title: Regulation of Thousand Cankers Disease-A State Perspective.**

Collin has been with the Missouri Department of Agriculture's Plant Pest Control Bureau since 2000, serving as State Entomologist/Bureau Manager since 2007. He is a Missouri native, having grown up on a six generation Missouri farm in the Mississippi River Hills of Pike County. Collin studied at Northwest Missouri State University and Kansas State University, earning degrees in Agronomy and Agriculture/Entomology. The Office of the State Entomologist was established in 1868 and is responsible for preventing the introduction and spread of exotic plant pests into Missouri.