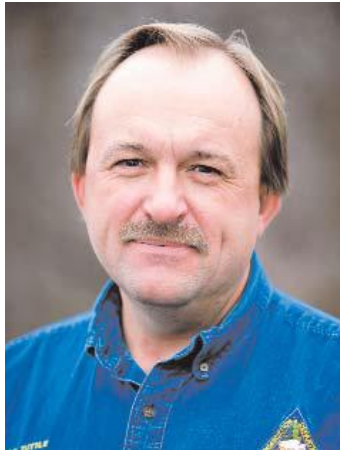




Missouri Society of American Foresters

2015 Fall Newsletter – Vol. 31, No. 2

From the Chair
John Tuttle, MOSAF Chair



I can hardly believe that my two year term as MOSAF chair is almost over. I have been blessed to serve as chair of an organization that I have admired since I was in school at the University of Missouri. I am proud to be a forester and to have the opportunity to give back to the profession that I love. On January 1st, Nate Goodrich will assume the role of Chair for MOSAF. I have known Nate for most of my career and he is an outstanding forester that will do well as Chair. I will still be on the MOSAF Executive Committee as Past Chair and I intend to help Nate with the transition in any way he requests.

Recently MOSAF members had a chance to vote on their Chair-Elect and for Secretary. Dan Dey was elected as Chair-Elect to replace Nate Goodrich. Russell Hinnah was elected as Secretary to replace Susan Troxel-DeWitt. I know both Dan and Russell will do an outstanding job in their new roles with MOSAF.

I had the privilege to attend the National SAF conference in Baton Rouge, Louisiana the first week of November. I represented MOSAF at the House Society of Delegates (HSD) meeting at this event. The HSD

meeting was a day and half event that discussed many issues facing state societies. The main topic that I heard at this meeting was how to recruit members into leadership roles and new members into our society. It seems that most state chapters are declining in membership and having problems getting members to step up to the plate to take leadership roles. Fortunately, MOSAF is blessed to have leaders stepping up to fill our leadership roles. We are experiencing declining membership and hopefully we can turn this membership decline around in the near future. Overall the conference was a good one and if you haven't attended a SAF Conference, I highly recommend you attending. Next year the SAF Conference will be in Madison, Wisconsin.

Our outreach and education efforts have been going well. Thanks to Lynn Barnickol, MOSAF member and MOSAF contractor, for his efforts on recent events. Lynn helped set up an outstanding event at Kansas City with the help of MOSAF member Alice Harmon and many others. This event focused on the Emerald Ash Borer (EAB) management in Kansas City. KC Parks and Recreation hosted this meeting where we observed their EAB management efforts. Late in the day we also went to the Urban Wood Company to observe their work utilizing urban trees for lumber. Overall this was an outstanding event. The second event that Lynn set up was a combined MOSAF and Missouri Consulting Foresters meeting at Salem, MO. This event met at the Pioneer Forest headquarters for our business meeting and social. The next day we met at the MU Wurdack Farm to listen to speakers talk about technology such as LIDAR and Drones. This was an outstanding event.

It is my hope that MOSAF's outreach efforts will demonstrate to existing members and potential new members the value of being a member of the Society of American Foresters. It is an outstanding organization and it is my hope all foresters will eventually decide to join our society.

Again thank you for allowing me the opportunity to serve as your MOSAF Chair for the past two years. I look forward to helping MOSAF in the future in any way I can.

Missouri Natural Resources Conference, hosted by MOSAF, February 3-5, 2016 – Shane Botard, MNRC Advertising Executive



The upcoming 2016 MNRC is set for February 3rd through the 5th at the Tan-Tar-A Resort on the Lake of the Ozarks. The theme for the conference is "Balancing Economics, Conservation, and Adaptive Management in a Changing World". The conference will kick off with a Wednesday night mixer and poster session as well as a student job fair. Thursday morning will feature two plenary speakers; David Batker, the Co-founder and Executive Director of Earth Economics and Matt Menashes, the CEO of the Society of American Foresters. Following the plenary speakers, there will be workshops and presentations from different natural resources management disciplines. There will also be a Safety workshop that will have an ALICE (active shooter) training. We hope you will join us to learn about new research information and management techniques for the field of natural resources and to network with colleagues and friends. Early Bird Registration for the conference begins November 1st. You can visit www.mnrc.org to register for the conference. See you there.

Editor's Notes - Joe Alley, Newsletter Editor



Hello MOSAF! Another exciting year has nearly come and gone. MOSAF has been busy as usual and the information contained in this newsletter is a testament to that. From my perspective, we made several big steps forward in 2015 and I'd like to draw attention to a few of them. First, our decision to hire an Outreach Coordinator (a term position) has produced great results in terms of providing excellent training opportunities for our members. Way to go Lynn Barnickol! Another big step was our decision to become an affiliate member of the Conservation Federation of Missouri. Among other things, this membership will give us a bigger voice in the political arena while also giving us the opportunity to "talk forest management" with other CFM members and affiliate organizations. Finally, I feel like we have really made great strides in making a connection with the student SAF chapter, something that is critically important in these times of evolving definitions.

I am sure more great things are to come in 2016. One of those is the MOSAF sponsored Missouri Natural Resources Conference (see previous article). As you all know, George Kipp is our Special Funds Committee Chair. George does a great job of running our booth at MNRC and last year we pulled in \$1,100 from the Silent Auction. Lets see what we can do to increase this to \$1,500 in 2016. All it takes is a little time on your part soliciting donations from businesses that you know. And it doesn't have to be something big. Last year, for example, I stopped in at my local Army Surplus Store and asked if they could donate anything. They fixed me up with a hodge-podge of items that I fashioned into "survival kits", and George sold them at a flat rate, and they sold out! So help out MOSAF and ask for donations (December is a good time to get donations – think taxes!) for our Silent Auction. And plan to help George out by working the booth for a while.

And finally, thanks to all of the contributors to the newsletter. As always, this is your newsletter and it needs your input to be informative, interesting, and up-to-date.

Treasurers Report – Frances Main, Treasurer

Checkbook - \$13,269.04

Project Learning Tree - \$11,827.54

6 month CD - \$18,444.08

12 month CD - \$18,281.52

University of Missouri Student SAF Chapter Update – Dustin Collier, President

This past fall semester, Mizzou chapter of SAF has been busy. We grew in members, raised money for activities, and participated in a number of forestry related events. A goal for this past semester was to grow membership and to be more active in events within the department. To grow membership we changed our meeting time from the evening of Wednesday nights to noon on Wednesdays. By having the meeting around the typical lunch time for students and scheduled for every other Wednesday, students are able to attend the meeting without conflicting with their work and class schedules. A BBQ fundraiser was held earlier in the semester that made considerable profit. We were glad to see the amount of support from our fellow classmates.

With more members we were able to attend more events that are forestry related. The events we attended were diverse in nature allowing for a wide exploration of the forestry industry. Two of our members went to AborMeister homebrew festival in St. Louis held by Forest ReLeaf. The event showcased some of the urban forestry side. The Chestnut festival was at HARC located in New Franklin and was held by the agroforestry department. Here three of our members volunteered and demonstrated how to use forestry measurement equipment to festival guests. They also helped keep the festival clean by picking up trash and recyclables. The event with the most members in attendance was the MOSAF conference. This two day event included a sit in with the Missouri Consulting Forester Association meeting and SAF seminar. The seminar was educational for forestry students because it demonstrated innovative technology of drones and LIDAR in the forestry industry.

We will be ending the semester with two of our fellow classmates, Jordan Clough and Curtis Frazier graduating with degrees in forestry. We will miss seeing them in class and are excited for what awaits for them in the forestry industry. Once graduated, Curtis will be working with Matt Arndt and Jordan is still searching for opportunities. Many of our members will be graduating this spring semester as well, while others will be looking for work this summer before classes start in the fall.

Nominate a Forester for the Blackjack Award! – Jon Skinner, Communication Committee Chair

Do you know someone that meets the standards of the Blackjack Forester Award? The award is presented to the forester which displays the following blackjack characteristics: Swollen butt; fire scars; dead limbs; low vigor; low value; poor form; and wormy. The awardee is determined by dollar donation at the MNRC mixer. Donations go toward MOSAF activities. Nominees and nominators may solicit donations for and against themselves. Like the lowly blackjack tree, the bids are usually low for the awardee. This year, nominate a forester you think is worthy of this award, and has a good sense of humor. Also, let's bid it up and pay veneer prices.



Fall 2015 MOSAF meeting with MCFA – Jon Skinner, Communication Committee Chair

Our meeting on Oct. 26 and 27 was jointly hosted by MCFA and MOSAF. It provided some great education on technology many of us have not used yet. We had several seniors from MU join us for the meeting with MOSAF. Pioneer Woods hosted the business meetings and social. MU Wurdak Farm hosted the education portions. Lynn Barnickol was the lead organizer of the meeting.



(Editor's Note – How many knees do you see?)

The education day of Oct. 27 was wet, but the rain was welcome to help reduce the droughty conditions. In the morning portion of the program, Arthur Crawford, Technical Manager, Professional Services, Environmental Systems Research Institute, (ESRI) based out of St Charles, MO presented. He explained what LIDAR (Light Detection and Ranging) is. In layman's terms (which I need), LIDAR is a laser sent from a source, often a plane or helicopter, and a detector that accepts the bounced back light from what the laser hit. With this information, points where light bounced back from can be pin pointed to X,Y,Z positions on the planet. Mostly this has been used for creating very detailed DEM files for making base maps. Other uses have been to build 3-D models of areas, especially buildings in urban centers. Arthur showed several applications he has been working on to assist with forested areas. At this point, he was way over my understanding. His examples showed how he was able to use and manipulate the data to find things of interest to him. One of the items of possible use to foresters is height estimation of trees. While the science cannot determine specie or volume (yet), there is the possibility of inventorying the location of all the trees in an urban setting, including their heights and canopy coverage. I see how this data could be extrapolated to run in the i-Tree benefit calculator for a quick analysis of a community's benefits from trees without having to manually inventory every tree in town.



(Editor's note – I remember this scene from Terminator III)

The afternoon session was all about drones. Three drones were on display. Two were helicopter style, but with 8 propellers each, one larger than the other. The other was a fixed wing plane style. The professors and students from Missouri S&T provided a great overview of the current state of the technology and the regulatory and political hurdles that restrict its commercial and research use. They explained how difficult it is to get a license from the federal government to operate a drone. The restrictions seemed beyond the average foresters' time and cost ability. In reality, most foresters would hire the work done by a drone. Drones are being used in research for collecting all sorts of data. They are only limited in what they can carry, by the size of the drones payload capacity. The smaller helicopter style could carry about 8 pounds and the larger one about 55 pounds. The drones are controlled with joy stick style, model plane remote controllers and a computer. The computer is used to enter preset directions for the drone. The controller is used for takeoff and landings and emergency override of the preset program if needed. The rain let up just enough the students were able to provide us a demonstration of flying one of the drones.

Membership Campaign Update – Paul Johnson, Membership Committee Chair

The society of American Foresters National office debuted a month long member-get-a-member recruitment campaign that ran through September. The Campaign was designed to be a recruitment competition among current SAF members. To participate, current members were asked to approach colleagues and friends that had not yet joined SAF with an optional 6 month trial membership. The SAF member that recruited the most new members received a Forestry Suppliers gift card in the amount of \$300.00, second most received \$150.00. Results of the program have been good. The National office reported that membership is up and is currently 11,494 strong. Nationally, SAF hopes to reach 11,500 members by the end of 2015 and 12,000 by the end of 2016.

If you missed out on the member-get-a-member campaign and know of friends and colleagues that would benefit from MOSAF, don't worry. The national office will kick start a second membership campaign in 2016, details of which have not yet been released. This program however will replace the old sponsorship program in which members could receive reduced rates on their own yearly dues by bringing a new forester to membership. Watch your email and the E-Forester for details on the program following the holidays.

As for MOSAF membership, membership totals have dropped to 165. The membership committee, in cooperation with executive director Lynn Barnickol, recently reached out to potential members through a mailing campaign. Those receiving the mailing were invited to upcoming events including both the Kansas City EAB/urban wood utilization workshop and the fall meeting. Look for new members at upcoming events and make an effort to reach out to those that may be interested in MOSAF membership. For more information on outreach efforts and ways to approach potential members contact membership chair Paul Johnson.

Missouri Consulting Foresters Association (MCFA) Business Meeting Report to MOSAF Newsletter

Lynn Barnickol – MCFA Executive Director

The following is a brief report of the Missouri Consulting Foresters Fall Business Meeting held on October 26, 2015 with 47 members and guests present:

- Lynn Barnickol is to continue to serving as executive director.
- MCFA 2015 to 2016 Member directories have been printed and distributed to MDC and NRCS State Office for haring with foresters in field offices. MCFA member information is available on the web site: www.missouriforesters.com
- After a full year of selected MCFA Members implementing Call Before You Cut Program referrals continues to progress: 86 Site Visit Reports and Maps have been submitted to Steve Westin on 9,523 acres in 46 counties. A few referrals have resulted in timber harvests.
- Please mark your calendars: The MCFA Winter Meeting is to be held in Jefferson City at the Capitol Best Western Hotel on February 25 and 26, 2016. We are working toward filling out the program with presentations about conservation easements, the 2015 Business Survey of MCFA members, technology applications, forestry topics, and wildlife habitat. SAF CFE credits range from 8 to 10 hours depending on program time.
- Shelby Jones, Mike Morris and Mark McCarthy are working toward holding a couple of tree and log grading training sessions for MOSAF, other foresters, loggers, and others who would like to attend. Dates are not set but look for more information after January 1, 2016.

MOSAF OUTREACH PROJECT REPORT - URBAN FORESTRY WORKSHOP, OCTOBER 5, 2015

Lynn Barnickol – Outreach Coordinator

The Urban Forestry Workshop is the first completed training session of three that are components of the Missouri SAF Outreach Project. The following is a summary of the Workshop activities. The lion's share of the workshop logistics goes to Alice Hannon, Kevin Lapointe, and the arborist staff of the Kansas City, MO Parks and Recreation Forestry Division. A total of 47 people attended the workshop representing 2 states, 19 cities, 6 partner groups, 4 state and federal agencies, and 2 private consulting companies.

Charles Conner, urban forester with the Missouri Department of Conservation, provided an overview of the emerald ash borer infestation (EAB). Arriving in the US during the 1990's EAB has spread from its suspected origin of a port city killing any ash tree in its path. The global economy is a wonderful feature but the downside features potential invasives, such as EAB, that can hitch a ride in just one of the 57,000 containers delivered daily to US ports. Over 450 non-indigenous insects and 16 pathogens have colonized forest and urban trees since European settlement. That is only the tip of a bigger iceberg that involves many invasive species. Invading alien species in the US causes major environmental damage and losses totaling approximately \$120 billion annually. Over 42 percent of the species listed as rare or endangered are at risk due to non-indigenous species. Non-indigenous invasives are with us and it's likely more are on the way. The local solution is continuing to be vigilant, collect, identify, and report any unfamiliar insects, animals, or conditions in your forest areas.

Overwhelming for a small forestry staff is a key point made by Kevin Lapointe, urban forester, in describing the EAB situation in Kansas City. Based on reports from other cities and states Forestry staff knew the insect was on its way to KC, but its arrival was as secretive as the insect is small. Kansas City Parks and Recreation Forestry staff is faced with managing Kansas City, MO forest resource that is situated on over 330 square miles or over 211,200 acres of land. Over 400,000 ash trees are in the Kansas City Metro area. Prior to the infestation an estimated 20,000 ash trees existed on Kansas City rights-of-way, easements, and park lands. Kansas City, MO is the 37th largest US city in terms of population and 23rd largest in terms of area.

Kevin emphasized that making city leaders and residents aware of the problem is probably the biggest challenge for city forestry staff. However, the technical part of the problem is challenging as well. Our Workshop focused strategies to attack the EAB infestation including: Identifying the borer's presence, containing the borers, and controlling their spread.

When you are faced with EAB it is an eye-opener and is best to get in contact with professionals who are literally living the bug's life. Most of us have seen photos of the emerald ash borer and its D shaped exit holes on tree trunks. Digging into the bark of tree trunks we see the "S" shaped galleries made by the EAB as it feeds on cambial material. To compound the problem there are other borers that have similar exit holes.



Exposed EAB "S" shaped galleries under the bark of a dead ash

Kevin described learning to detect the presence of EAB before it kills the tree is an important step in gaining control of the green varmint. The Ah-Ha moment of detecting occurs when Kevin and his staff coached us into looking at the crown of seemingly healthy ash trees. Look for woodpecker damage as a first step of detection. Then use a step ladder or work from the bed of a pick-up truck positioned under the crown of a suspected ash. Look for tan colored splits, 2 to 3 inches long in the bark of limbs. Finally, using sharp drawknife or pocket knife, expose the bark to find actively working borers. Chris Lohmann described detection as slow, methodical work where the reward is finding an EAB larvae or an adult that is too small to use as fish bait. The reality is the tree may be doomed if not caught in time for chemical treatment.



Bark splits 2 to 3 inches long



Using a draw knife on a limb to expose a gallery and EAB larvae



Poised to emerge from a dead ash, an EAB adult is exposed

Containing and controlling EAB in younger trees having a DBH of 6 inches or more is possible but it takes repetitive injection treatments. The chemical used is micro-encapsulated liquid formulation of 4% Emamectin Benzoate, known by the brand name; **TREE-age® Insecticide**. Contractors can do the work at a City's contract price of \$5 to \$8 per inch of diameter. A home owner would pay more for the treatment. However, the treatment is short-lived and will need retreatment in 2 to 3 years. Compounding the situation is the homeowner that initiated the treatments may move away and the new home owner may not be interested in or know to continue the treatments.

Controlling EAB in larger diameter trees serving as incubators for population growth is nearly impossible so removal is the best decision eliminating a source of larvae and adults. The cost to remove an 18 inch diameter tree ranges around \$800-\$1500. Factors such as diameter, tree height and crown spread all influence the removal cost. Safety of the removal crew is top priority as is avoiding damage to structures, electrical service components, and other features of neighborhoods. Blocking off city streets and removing any vehicles in proximity of the tree being removed can also complicate the removal process where a number of large trees are to be removed one limb and stem chunk at a time.

Our tour bus negotiated a narrow, winding forested city street through a neighborhood of less than modest homes. Treated ash trees within the 12 foot wide public right-of-way either side of city streets are identified with circular aluminum tags embossed with a number that indicates a GPS location, tree condition, and other data. The data is maintained by the KC Parks forestry staff. In this neighborhood the ash tree diameters are in excess of 18 inches at DBH, over 60 feet tall, and have large crowns. Ash trees that were not treated are beginning to show signs of decline. The KC forestry staff can send in contract arborist crews or have the forestry arborist staff remove dead and dying trees from the City's rights of way. It is the responsibility of the owner to remove dead ash from their property.

Alice asked the arborist staff to demonstrate their techniques on a tall, large diameter bur oak featuring a dead top and large limbs growing over the Swope Park Lake of the Woods Lodge. The two part demonstration involved acrobatic rope work, personal safety gear, and a chainsaw to remove limbs, and rope them to the ground avoiding damage to the Lodge. The second technique involved an employee, operating from a boom mounted bucket; navigate between limbs and electrical lines to chain saw large limbs. The ground staff piled the limbs into a waiting truck and be hauled way for processing into mulch. Arborist training is a must and the work is time intensive requiring liability insurance and specialized equipment. Beware of the two brave men with chain saws and a pickup truck. Limbs and rotten logs end up being processed into mulch but solid logs can be hauled to the Urban Lumber Co. for processing into specialty lumber.



1.

1. Navigating the bucket through limbs and lines



2.

2. Arborist is at work in the tree: Where is "gold bug?" The ground crew ropes down a limb.

Tim O'Neil, owner of Urban Lumber Co., says trees have stories to tell, especially if it's a large tree. Urban Lumber Co. helps owners tell the story. Solid logs salvaged from trees that are impacted by EAB infestation or damaged by storms arrive at the Urban Lumber Co from the KC metro area to be sawed, kiln dried, and marketed for their unique character in the company showroom. Logs having potential for specialty lumber for use by architects, cabinet shops, and woodworkers are identified and sawed using thin kerf sawing equipment. It's a milling company where natural or live edge lumber, worm holes, stains, and spalting are considered character marks. Folks who are looking for lumber having unique shapes, distinctive figure, or specialty woods come to the Urban Lumber Co.



1.

1. *Tim O'Neil describes Urban Lumber Co operations*



2.

2. *Urban Lumber Co. band sawmill*



3.

3. *Unique shapes in a wide selection of woods are available in the Urban Lumber Co. show room*



4.

4. *A natural edge table top*

Two handouts describe the situation with non-indigenous forest pests:

(1): Historical Accumulation of Non-indigenous Forest Pests in the Centennial United States by Aukema, Juliann E; et.al Bioscience December 2010. Vol. 60 No. 11 www.fs.fed.us/.../psw_2011_frankel/Aukema

(2): Update on the Environmental and Economic Cost Associated with Alien-invasive Species in the United States by Pimentel, David Ecological Economics 52 (2005) 273 – 288.
<http://www.plantright.org/pdfs/Pimentel-et-al2005.pdf>

We summarized the day's events and concluded that dealing with EAB is challenging, but here is some hope through early detection, treatment and containment. It is a staggering thought that when annual budgeting rolls around those treatments will be on-going. In the interim the hope is for researchers to develop a biological control. One point is for sure, foresters and their guests really enjoyed the Kansas City BBQ meal.

Lynn Barnickol, Missouri SAF Outreach Project and Missouri Consulting Foresters Association

Alice Hannon, KC, MO Parks and Recreation urban forester Great Plains and Missouri SAF

Jon Skinner, MDC community forester and Missouri SAF

Participation:

A total of 47 people participated in the field day events representing the following:

19 cities

2 states

3 Professional Societies: Missouri SAF, Great Plains SAF, and ISA

Partner groups whose members have assisted with funds or time:

USFS - Urban Forestry Grant

Missouri SAF - Outreach Grant

Great Plains SAF - Alice Hannon - Local Organizer with KC Parks and Recreation Forestry Division

Kevin Lapointe, urban forester with KC Parks and Recreation Forestry Division – Presenter

KC Parks and Recreation Forestry Arborist staff ISA – Pruning demonstration

Missouri Department of Conservation – Charles Conner – Presenter

Missouri Consulting Forestry Association – Organizer and 3 consulting companies

Forest and Woodland Association of MO - Registration and Promotion

Urban Lumber Co - Tour

Zarda's BBQ - Catering

Government agencies:

Missouri Department of Conservation

Kansas Forest Service

Natural Resource Conservation Service

US Fish & Wildlife Service

Kansas City Parks and Recreation, Forestry Division

Missouri State University

City of Joplin

City of St Louis

City of Springfield

City of Overland Park, KS

IMPORTANT NOTE from Lynn: Alice Hannon, a dual member of Great Plains and Missouri SAF, responded on the Missouri SAF Member Survey indicating she was interested in doing an event on a forestry project in the local area. Without Alice's volunteering and Kevin Lapointe, her supervisor, approving her involvement this touring event would have been very difficult to organize. Partnering with local assistance makes this a successful event.

Missouri Consulting Foresters Association (MCFA) Business Meeting Report to MOSAF Newsletter

By Lynn Barnickol, October 26, 2015

The following is a brief report of the Missouri Consulting Foresters Fall Business Meeting held on October 26, 2015 with 47 members and guests present:

- Lynn Barnickol is to continue to serving as executive director.
 - MCFA 2015 to 2016 Member directories have been printed and distributed to MDC and NRCS State Office for haring with foresters in field offices. MCFA member information is available on the web site: www.missouriforesters.com
 - After a full year of selected MCFA Members implementing Call Before You Cut Program referrals continues to progress: 86 Site Visit Reports and Maps have been submitted to Steve Westin on 9,523 acres in 46 counties. A few referrals have resulted in timber harvests.
 - Please mark your calendars: The MCFA Winter Meeting is to be held in Jefferson City at the Capitol Best Western Hotel on February 25 and 26, 2016. We are working toward filling out the program with presentations about conservation easements, the 2015 Business Survey of MCFA members, technology applications, forestry topics, and wildlife habitat. SAF CFE credits range from 8 to 10 hours depending on program time.
 - Shelby Jones, Mike Morris and Mark McCarthy are working toward holding a couple of tree and log grading training sessions for MOSAF, other foresters, loggers, and others who would like to attend. Dates are not set but look for more information after January 1, 2016.
-

Living on the Edge – Lynn Barnickol, Outreach Coordinator

Editor's Note: Lynn developed this article for all of us to use. Consider distrusting it to your local newspaper, gardening club, homeowner's association, or anyplace else that might find it useful. If you can't figure out how to pull it out of this newsletter for your own use, contact Lynn or myself and we'll send you a clean copy. Spread the word!

The Missouri Society of American Foresters believes that we all can have a huge and positive effect on trees, wildlife, and insects. Even if you live in an apartment, on a neighborhood lot, or on a farm there are plenty of things to do that do not have to be expensive or involve large expanses of land. Flowering plants, shrubs, and trees attract migratory birds, bees, and butterflies. Even apartment dwellers may provide a potted flowering

plant on a deck, a window box of flowering plants, or a bird feeder. Our food chain depends on bees and butterflies to help pollinate crops. Birds are effective in helping to control destructive insects. Trees and shrubs provide nesting and roosting habitat and at the same time provide summer shade for our homes. Here are some examples of how I am approaching care of my trees, wildlife, and insect habitat.

The main feature of our home, situated on less than an acre of ground but nestled into the woods, is the trees; mainly short-bodied post oaks, a couple of taller black oaks, and shagbark hickories. By looking at the vegetation when we moved in, we identified several habitats. Part of the yard was shaded, part was dappled shade, and on another part full sunlight. We thought we had the beginning of interesting habitats. We get a nice variety of birds at our feeders, especially during the migration periods.

As a forester I knew the best use of these trees was shade for the house and dens for squirrels and woodpeckers. Trees create a lot of leaves, but they get collected, providing exercise and compost. Three post oaks, measuring about 8 inches in diameter at the stump, were cut because the trees were too crowded. By counting the growth rings, I found that the trees were 90 years old. Growth had been slow but steady. I cut an 18 inch diameter, dying black oak for firewood and determined it was 60 years old.

Basically we had a wooded lot with three ages of trees; post oaks 90 years, the black oaks at about 60 years, and some oak seedlings. The openings created by thinning the oaks provide more open space between the remaining trees and helps the surrounding trees remain healthy. We also have a steep, south facing slope, receiving lots of sunlight, which behaves like a glade. Rather than mow we decided to make a woodland and glade area with native, flowering plants. Fortunately we live near a nursery selling native wild flowers, grasses, trees and shrub seedlings. We have noted that the native plants establish and grow nearly effortlessly.

To make life interesting, we have replaced a collapsed retaining wall and corrected some drainage issues. By adding a dry creek, a shallow trench lined with a weed barrier fabric and course rock, water is directed away from the house. We replaced the timbered wall with a rock wall. To expand an existing garden pool we added a wet creek, a shallow trench about 30 feet long that's lined with rubberized pond liner and gravel. Water is pumped through a tube buried in the gravel to the upper end of the creek where it tumbles and eddies back down a gradual slope.

Our wooded lot is taking shape. We have four miniature habitats with trees as the dominant feature. The north side of the house is a moist shade garden featuring native plants. The openings in the woods feature native plants that attract birds and bees, the south facing slope features native grasses and flowering plants that are unique to glade habitat and beneficial to birds. The wet creek, shaded and lined with native plants and shrubs, was a surprise to us. During a spring morning, we had 20 species of birds using the wet creek. Not all the migratory birds have arrived so we hope to get a higher count.

To sum it up, we do some typical yard maintenance like mowing and leaf raking. The wet creek will take some maintenance to prevent algae formation and an occasional cleaning. However, it's interesting to watch the birds frolic in the wet creek like kids in a water park. Located at the edge of town, the benefits of our wooded lot include shade for the house, reducing cooling bills, and enjoying the relaxing atmosphere.

If you would like to take action to care for your trees and plants, animals, and insects here are some links for habitat information: <http://mdc.mo.gov/your-property/wildlife-your-property/backyard-wildlife> , for Missouri

land owners this link provides some details about forest management:

http://mdc.mo.gov/sites/default/files/resources/2010/05/5574_3489.pdf . Additionally the Forest and Woodland Association of Missouri provides an informational web site for anyone interested in our forests and woodlands: <http://www.forestandwoodland.org/> .

If you do not use a computer please call your local Missouri Department of Conservation office, or the State Forester at 573-751-4115.

By Lynn Barnickol, Missouri Society of American Foresters (MOSAF) - Outreach Project Coordinator

About MOSAF

MOSAF is the Missouri state unit of the Society of American Foresters, a professional society with the following objectives:

- to advance the science, education, technology, and practice of forestry;
 - to enhance the competency of its members;
 - to establish professional excellence;
 - and to use the knowledge, skills, and conservation ethic of the profession to ensure the continued health and use of forest ecosystems and the present and future availability of forest resources to benefit society.
 - For more information about MOSAF see <http://www.mosaf.net/>
-

MOSAF Officers and Committee Chairs

Officers – Terms Ending 12/31/2015

Chair – <i>John Tuttle</i>	Chair-Elect – <i>Nate Goodrich</i>	Past-Chair – <i>Joe Alley</i>
Secretary – <i>Susan Troxel-Dewitt</i>	Treasure – <i>Frances Main</i>	

New Officers – Terms 1/01/2016-12/31/2017

Chair – <i>Nate Goodrich</i>	Chair-Elect – <i>Dan Dey</i>	Past-Chair – <i>John Tuttle</i>
Secretary – <i>Russel Hinnah</i>	Treasure – <i>Frances Main</i>	

Committee Chairs

Audit – <i>Mark Nelson</i>	Awards and Nominations – <i>Mike Hoffman</i>
Communications & Web – <i>Jon Skinner</i>	Education – <i>Dan Dey</i>
Special Funds – <i>George Kipp</i>	Membership – <i>Paul Johnson</i>
Policy and Legislation – <i>Matt Jones</i>	Program – <i>Nate Goodrich</i>
Teller – <i>Aaron Moore</i>	Historian – <i>Greg Hoss</i>
Science & Technology – <i>Ben Knapp</i>	Newsletter – <i>Joe Alley</i>
Long Range Planning – <i>Lisa Allen (term ends 12/31/2015), Terry Truttmann, Mike Fiaoni, Gus Raeker, Joe Alley, and John Tuttle (term begins 1/01/2016)</i>	

MOSAF Fall Meeting Minutes – Susan Troxel-Dewitt, Secretary

Date: October 26, 2015, 3:00 pm – 5:00 pm

Location: Pioneer Forest Headquarters – Salem, MO

Approximately 42 people in attendance.

Purpose

- Business meeting to communicate MOSAF priorities and objectives for 2015 & 2016
- Provide verbal reports from all standing committees present
- Discuss pertinent forestry issues with general membership

Agenda and Minutes

- Introduction: Lead: John Tuttle, MOSAF Chair
 - Welcome members, students and guests: 8 students were present
 - Introduce invited guests and dignitaries
- Minutes from June's Meeting: Lead: Susan Troxel-DeWitt: Minutes were read and approved.
- Treasurer's Report: Lead: Frances Main: Treasurer's report was read and approved.
- Committee Reports:
 - Communications: Jon Skinner: Jon discussed the website and recruitment poster he's been working on with a scale model on display. At 80 inches tall the price is \$400 or less per unit. One to be displayed in ABNR. It can be scaled to fit a display case. Target audience is HS and college students.
 - Council Fellows and Awards: Mike Hoffman submitted a written report. The Ed Stegner Scholarship has been submitted. Fellows nominations voting closes on 10/31/15 plus voting for Vice Chair and Secretary.
 - Membership: Paul Johnson. A BBQ was held on campus for the students with Lynn Barnickol and John Tuttle as speakers. An outreach letter was sent at the end of August to reach potential members, 60 letters were sent. Membership dropped from 188 to 165 including 12 student members. The membership rolls were purged over the summer for non-payers. The University professors usually cover student sponsorships but there are too many this year. Lisa Allen, Frances Main, Justine Gartner, Joe Alley and John Tuttle offered to be sponsors.
 - Nominating: Mike Hoffman submitted a written report. Dan Dey and Mike Bill were nominated to run for Vice Chair and Hank Stelzer and Russell Hinnah were nominated to run for Secretary.
 - Policy and Legislation: Matt Jones. Susan will be covering the CFM Affiliate Conference later in the meeting.
 - Program: Nate Goodrich. Lynn Barnickol will be covering this later in the meeting.
 - Special Funds: Chair spoke for this committee soliciting silent auction items for MNRC.
 - Forest Science: Ben Knapp. The Central Hardwood Conference will be coming to Columbia in 2016 in March 16-20. A tour of MOFEP is in the works.
 - Newsletter: Joe Alley. The fall issue will be coming out soon.
 - Website: Jon Skinner. It is up and running. He placed material on the website according to established policy. MOSAF.net
 - MNRC Steering Committee: Mike Fiaoni. The 13 committees do most of the work for this event and we have a lot of repeat (experiences) committee members. Everything is going smoothly. Papers have been submitted, plus 48 posters and 29 presentations and workshops. A moderator is needed for the Friday 8-10 session and some AV help is needed. Russell Hinnah would also like some help with the washers game and George Kipp could use a hand at the silent auction booth. After this conference, Mike ends his 4 year term as committee chair. MOSAF will host again in 2020.

- Historian: Justine Gartner spoke for this committee. Records storage is an issue. Currently historical records are stored in Greg Hoss' basement which is not an ideal solution. Some chapters use Universities. We need to investigate a better storage situation for our historical records.
- Old Business
 - SAF Fellows selection procedure. Shelby Jones. The new procedure of formal self or other nomination is a better process than the prior situation which wasn't really a process at all. Two people are thus advanced for online voting.
 - HSD Meeting - John Tuttle will be attending next week. He was drafted as a convener for California, South Dakota, Mississippi, and Georgia. Subject matter will be retaining membership. Also brought up in a prior MOSAF meeting was the issue of credentialing and whether it should be elevated to HSD, Matt Menashes assured John that they are working with ISA and there won't be issues or conflicts.
 - Forester's Fund Grant - Lynn Barnickol reported on his activities. The first outreach event was the Urban Wood Utilization tour in KC on Oct. 5th. 47 people and 6 partners attended and gave the workshop. We toured Swope Park, a local bank, a neighborhood tour and a tree trimming demo. We learned about additional signs to look for with EAB such as with bark splits and woodpecker activity. 19 cities were represented at the event.
 - Lynn was planning a tree scaling and grading event but industry backed out. The private landowner also had concerns about liability. Was noted that SAF does have event insurance.
 - Lynn also wrote and submitted an article for the Green Horizons newsletter called "Living on the Edge" about what homeowners can do to improve wildlife habitat on small tracts and backyards.
- New Business
 - Elections: Fellows, National and local candidates. Voting open now.
 - CFM Affiliated Member
 - Susan Troxel DeWitt reported on the CFM Affiliate Conference (see separate report).
 - Action Item: Do we want to become a CFM affiliate member? Motion made by Jason Jensen, seconded by Matt Jones and motion carried by vote of the membership.
 - Forester's Fund Grant
 - Covered earlier in the meeting.
 - HSD Agenda topics
 - Public sector employer support for SAF involvement of public sector employees. It was noted that while our meeting was held in Salem, no USFS current employees were in attendance. Also noted that NRCS is not supportive.
 - MNSAF- Declining membership – Identification of Best Practices for Membership and Retention. Comment regarding the need to lower dues and that the magazine is irrelevant. Questions regarding what is the financial benefit of membership? Note that National is working on a communication project about this topic.
 - WASAF- Reinvigorating chapter level activity. Nate Goodrich noted a lack of response in recent communication with other chapters.
 - LASAF- Member enablement of influence on policy issues.
 - MNRC Job Fair
 - Joe Alley is looking for help for this event. They are trying to grow the event and any employers are welcome. They are moving from the upstairs meeting room to Salon C to allow more room for vendors, tables and employers. A speed networking activity is planned. Shelby suggests to include industry.
 - Scouting Event

- Joe Alley reported on a scouting event he coordinated in Cooper County in the style of a timber games conclave for 400 people. Lynn Barnickol, Hank Stelzer, Dusty Walters and other assisted with various components.
- Reports from Agency and Organization Representatives
 - Greg Hoss – not present
 - MTNF - Not present
 - NRCS – Nate Goodrich The national level project involving the Forest Service and in Missouri the Mark Twain was able to obligate funding and have two more years of funding available. EQIP signup is ongoing with a November 20th cutoff. It was earlier this go around to allow more time for planning.
 - University of Missouri- Ben Knapp. There's been lots of movement and retirements in the university. There is a committee looking at integration of programming however they are still strongly focused on SAF accreditation as a priority. They have deferred their accreditation review to next year. They are focusing on delivery of content versus the idea of having particular classes. The vacancies in teaching positions need a permanent fix but that may take a year. Vacancies are being covered by adjuncts. They are also looking at abbreviating the forestry field studies coursework and adding the requirement of an internship. This would shift the program from 5 weeks to 3 weeks with the remainder of the summer in an internship. Forestry Club is hosting a conclave at the Hallsville Fairgrounds in April.
 - Missouri State- Not present
 - MDC- Lisa Allen. Agency revenue is good. Don Bedell was reappointed to the Commission. Forestry will be pursuing SFI certification for Forestry and Wildlife managed forest lands. This will include a Certification Manager position. The old Forest Cropland Program is being revised and renamed the Missouri Managed Woods program and it will have a certification component via Tree Farm. Tax abatement is included updated from the old program. Forestry has set a goal in conjunction with the 40th anniversary of TCUSA to add 40 new TCUSA over a 5 year period. FIA expansion to urban inventory plots will be partially supported by MDC.
 - Consulting Foresters- Lynn Barnickol. Lynn will continue as Executive Director for another year. The winter meeting is planned for Feb 25-26 at the Capitol Best Western in Jefferson City. The CBYC grant from MDC has covered about 8500 acres. Their membership is stable at 43 total 10 retired. They have a new directory out and online. They testified at a legislative hearing at Jason Jensen's request and noted that the legislative process was not really designed for public input. They conducted a business survey of their membership. They are looking to gain access to digitized plat maps using leftover CBYC grant monies.
 - Others? Justine Gartner notes that the Conservation Federation Conservation Leadership Corps for students from junior high to sophomore in college has only had one student interested in forestry last year. There's an Oct 31st deadline if you know of any students interested.
- Discussion on evening and tour activities and directions.
- Chris Lohmann notes that he has 3 foresters on staff and a FT vacancy coming up.
- Lisa Allen discusses recruitment and vacancy issues in Forestry in MDC. 25 jobs open. She notes that we need to take ownership of recruitment of new foresters.
- Call for a recruitment subcommittee to Membership.
- Adjourn at 5:40 pm