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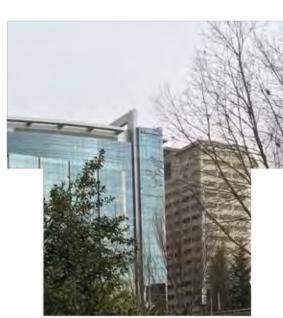














In This Issue

CHAIR'S PERSPECTIVE	2
ALUMNI NOTES LETTER FROM THE FAA PRESIDENT	3
	4
GROWTH IN THE DEPARTMENT OF FORESTRY INFOGRAPHIC	5
SIX NEW FACULTY IN THE DEPARTMENT	6
RECOVERED: HISTORIC PINE MOTIF HINGES	8
GIVING: TINA GUO-WANDERI UST AND IDEALS	9

The MSU Forester is a publication of the Department of Forestry. It is a complimentary newsletter for Forestry alumni, students, staff, faculty and friends.

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Forestry Alumni **Association President:** Lee Mueller

Editorial Staff:

Jeana-Dee Allen and Juli Mack

Contact us with address changes, questions or alumni updates:

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On the cover, research images from Assistant Professors: "G" Phoebe Zarnetske—Community and Spatial Ecology, "R" Mojgan Nejad-Green Bioproducts, "O" Scott Stark-Forest-Atmosphere Interactions, "W" Jessica Miesel—Applied Forest Ecology and Management, "T" Emily Huff-Human Dimensions of Forestry and "H" Monique Sakalidis-Forest Pathology (more on our new faculty, page 6). Left, a custom memorial bench made by the MSU Shadows Collection. Right, students in FOR 204: Forest Vegetation participate in a tree identification scavenger hunt with Professor David Rothstein in Baker Woodlot. Back cover, students in FOR 202: Introduction to Forestry learn different methods to estimate the number of board feet a log may contain.

The Department of Forestry has grown tremendously in the last four years! From 2012-2016, we've had **enrollment growth of approximately 75 percent** (or more) for undergraduate, master's and doctoral students. Our students are excelling academically, with **26 of 68 undergraduates on the Dean's List** (GPA>3.5) and an additional **19 students on the honor roll** (GPA>3.0) for Fall 2016. Our graduate students are **receiving the most competitive fellowships**, including Fulbright and National Science Foundation. Also, **job placement for graduating seniors is approaching 100 percent**.

Support from our alumni has been critical to our recent success. Endowed scholarships enable us to attract the brightest students, many of whom come from modest backgrounds. Annual donations support special activities—such as the attendance of 20+ MSU Forestry students at the recent National SAF Convention, field trips and upgrades to labs and work spaces. All of these factors put MSU Forestry on a trajectory towards being one of the best and most dynamic forestry programs in the world.

Towards fulfilling that vision, we recently established 10 goals (all of which are high priority):

- Develop the urban and community forestry program
- 2. Develop the sustainable forest bio-products/ wood science program
- 3. Strengthen our leading position in forest carbon science, policy and management
- 4. Educate future leaders
- 5. Grow undergraduate enrollment (to>100), diversity and academic competitiveness
- 6. Grow graduate enrollment (to>50), diversity and academic competitiveness
- 7. Broaden and deepen relationships with alumni
- 8. Boost research productivity
- 9. Enhance communication and relationships with stakeholders and the non-forestry public
- 10. Modernize building space to meet contemporary needs

We'd love to have your engagement in attaining these goals; please feel free to contact me. On behalf of the faculty, staff and students of MSU Forestry, thank you for your support.



PAUL BIGFORD | MS '74

After graduation, I co-founded a non-profit for youth adventure travel. Our most ambitious trip was an 800-mile raft excursion near the Arctic coast—no commercial group had ever accomplished such a trip! Then, I worked at Mt. Rainier National Park, moved back to Michigan, taught part-time at MSU and took a teaching job—near family property on the Pere Marquette River. I ended my education career as the General Education Director for an Intermediate School District—I founded a Math/Science Center. which was named high school of the year. Our property is managed as a certified Tree Farm. My three kids are 5th generation MSU grads!

CRAIG CHENEY | BS '75

An MSU class helped me get a summer internship, which led to a fulltime position in civil engineering and then an engineering position in the automotive parts industry—where I'm still employed as head of business development. In 1987, I earned an Executive MBA from MSU. Mv wife. Sue and I live on 11 acres with the best-looking trees in Lapeer County. Our daughter and her husband (also Spartans) live in Bath Twp. with our wonderful granddaughter. The moral of my story is: look for opportunities, vou never know where a class may take you. Enjoy the ride. Go Green.

DON VAN EYNDE | BS '59

Don received an MS from the University of Kansas and an MA and a PhD from Columbia University. His first career was in the Army (20) years). He served two combat tours in Vietnam and was awarded the Silver Star, two Bronze Stars and the Vietnamese Cross of Gallantry for heroism in action. He also served as the Assistant U.S. Army Attache in the U.S. Embassy in Portugal and later as the Military Advisor to the U.S. Ambassador to the United Nations. From 2004-6. Don worked with NASA's Space Shuttle Mission Management Team. He is a retired Professor of Management—where he: was recognized on 36 occasions as an "Outstanding/Favorite Professor," honored by the faculty for "exemplary leadership and selfless dedication," received the Trinity University Award for Distinguished Service to the University and the Community and was awarded a Faculty Fellowship for outstanding achievement in teaching and advising. He has 29 articles and one book published. Don is currently the Chair of the Trinity University Crisis Management Team and Vice President of the Ranches of Brushy Top Landowners' Association.

JOSE GUILLERMO FLORES-RODAS | BS '69

After graduate studies at the University of Washington, I started working in 18 different countrieswith six international organizations. I am active as a Consultant Forest Economist, especially in projects/ programs related to climate change. REDD+ and community livelihoods. MSU had enormous influence in my life, outlook and vision on international development. I currently live in Honduras, my home country. I feel the difference in my life has been that wonderful Spartan Will.

ALAMGIR KHAN GANDAPUR | MS '83

Currently working as Environment Specialist with IUCN Pakistan and am placed in the Environment Cell of the Planning and Development of FATA Secretariat. My main responsibilities include assessing: level of compliance environmental standards the planning/implementation development interventions, issues related to sustainable use of natural resources, new project documents and PC-1s in FATA Secretariat to see that they have in-built components ensuring environmental sustainability. capacity of the line departments to undertake environmental assessment using EIA/EIS/IEE systems for various development projects.

DONALD GILBERT | B '50

I worked in the wood industry for 35 years (minus a stint during

the Korean War) in management positions and production operations. First retirement at 55, however, I established my own fully-licensed financial service company in Leland, N.C.—including a modular home dealership. Second retirement in the mid-90s. Then, I got into the hydroponic greenhouse business with one of my sons and marketed tomatoes to major supermarket chains in eastern North Carolina.

JERRY MAUTZ | M '66

I am a Packaging grad—in the 60s, Packaging was in the Department of Forest Products (wooden crates). I now live in Marietta, Georgia. I am Regional Sales Manager for Shrink Tech Systems LLC and Vanguard Shrink Films.

DANIELLE MILES | MS '15

I am a TA/enrolled in the Ecology, Evolution and Conservation Biology program at the University of Nevada. I've started research on different sage grouse management sites across the state. My focus will be to see how removals affect the insect and insectivore populations and interactions. I am also trying to start a chapter of the Society for Conservation Biology on campus.

SHAWN MORFORD | BS '81

I am serving as Executive Director for the Network of Oregon Watersheds, representing Oregon's 90 local watershed councils, in Salem Oregon.

CHUCK MORTENSEN | B '61

Recently published an article "Rewards of a Little Cabin in the Woods", WI Dept. Natural Resources Magazine 12/16 (wnrmag.com). Finding the Pipsissewa plant near the lakeshore was reminiscent of seeing it for the first time at the Dunbar Forestry Camp (1960). A time of learning and wonderful faculty/student interactions!

MERLE PERRINE | B '66

I graduated from MSU and received my commission from Air Force ROTC at the same time. I entered into active duty at one of the Texas

USAF Flight Schools and served in Vietnam for 15 months. I retired from the Air Force after 21 years and joined the Federal Aviation Administration for another 26 years. I've lived in Texas, Taiwan, Vietnam, Thailand, Hawaii, Utah, Germany, Alaska, Michigan and finished my career in Chicago. I never "did forestry" my entire adult life. I flew and managed flying operations the whole time. both military and civilian. At the 2016 Alumni Davs Event, I was selected as the "Class Representative" for the class of '66 and gave the keynote address. In November, I received the Wriaht Brothers Master Pilot Award from Federal the Aviation Administration (more than 50 years of aviation activities as a pilot and no accidents/violations).

TERRY L. READ | BS '66, MS '67

Live in Iron River, Mich. with my wife Sue and Nova Scotia Duck Tolling Retriever. First career was with the Forest Service (25 years)—finished that. I was in Michigan as District Ranger (15 years). Just completed 21 years as a consultant—helping private landowners manage their forest lands in the Western UP. Not planning to stop anytime soon. Still working on our UP cabin in northern Iron County. Good Life!

RENEE THAKALI | MS '85

I retired from the USDA Forest Service in 2016 after 38 years. After finishing my BS in '77, I joined the Peace Corps in Nepal. My Forest Service career began in the Mendocino National Forest as a forestry technician. In 1985, I achieved my MS in Forest Management (Dr.

Marty as advisor). Also, I worked as a forester at Gunnison NF, Assistant Planner and District Ranger Kaibab NF and as Commonwealth Forester on the Pacific Island of Saipan. I returned to the Peace Corps (Nepal) for five years as Associate Director. Always a midwesterner, I ventured to Illinois as the Ecosystem Team Leader at Midewin National Tallgrass Prairie. I lead the team for 16 years restoring the prairie on the former Joliet Arsenal. My final work accomplishment was to back bison on the restored prairie. Retirement now brings a chance to visit family/friends/forests around the world, along with time to enjoy cycling.

COLLIN WASSINK | BS '08

I continue to work for the Colorado State Forest Service, as an Asst. District Forester. I transferred to the Boulder District Office in 2015. My wife, Nia and I live in Longmont, CO.

LAURIE (MARZOLO) WESSING | BS '80

Retired from the DNR for six years now—loving retirement. After almost seven years of widowhood, I remarried October 1. We are planning a move to sunny S. Carolina this year.

IN MEMORIAM

Corey Blake | BS '11

Carl (Bob) Blomquist | B '59

Gordon Colby | B '57

Carlton A. Mahn | B '60

Chuck Michaels | B '66

Roger Rasmussen | B '49

Wolfgang Schumann | B '62

Raphael (Ray) Steinhoff |

PhD '64

David A. Young | B '59

FAA PRESIDENT

As 2016 closes, it's a chance to reflect on the end of one year and the beginning of another. Much like the transition of the calendar, the Forestry Alumni Association has similarly embarked on changes. These were sparked by University-wide Alumni Association reorganization and the retirement of our long-serving and much-appreciated Board of Directors. I wish to have you join me in thanking them ... for their combined, more than 100 years of service.

With this in mind, I am happy to report that we are nearly complete in re-populating our Board of Directors. Jerry Grossman (MS '88), Angela Ayers (BS '98) Jason Darling (BS '08), Joyce Angel (BS '76) and Patty Beyer (BS '82) have agreed to join me (BS '09, MS '11) in carrying the alumni torch. At our first official board meeting this fall we had a chance to get together, talk about future plans and elect officers. The Executive Team for 2017 will include me as President, Jerry Grossman as Vice President, Patty Beyer as Treasurer and Jason Darling as Secretary.

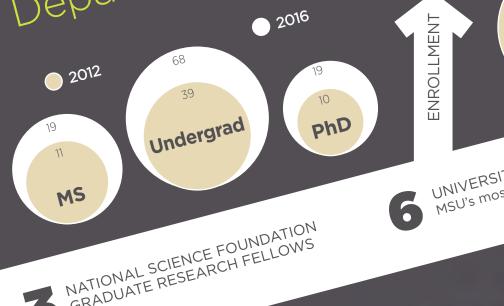
In October, we successfully held an alumni association meeting, reunion and tailgate before the Homecoming weekend game against Northwestern University. While our much beloved Spartans did not prevail, the revelry and reminiscing among compatriots were much appreciated. I look forward to seeing all of our alumni again this fall, where we will report on association activities.

As we move forward, the Forestry Alumni Association will continue to evaluate ways to engage all of our treasured alumni in service, philanthropy and scholarship. If you have ideas, suggestions or interest in being involved, I encourage you to reach out to me at 248-318-1891 or MUELLERL@gmail.com.

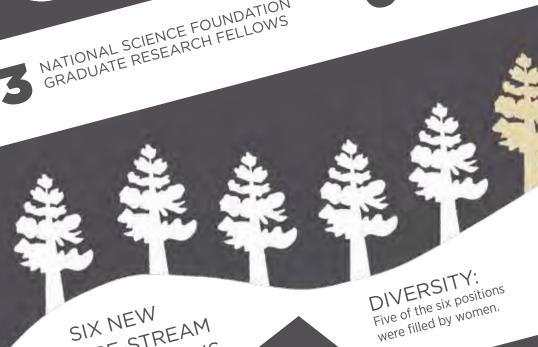
Project Developer
Davey Resource Group
Davey Tree Expert Company



Department of Forestry GROWTH in the



UNIVERSITY DISTINGUISHED FELLOWS, MSU's most competitive graduate fellowship



SIX NEW TENURE-STREAM FACULTY POSITIONS since 2013 (more on page 6).

BEQUEST FOR SCHOLARSHIPS FUTURE James and Doris Ritchie

Endowed

Scholarship

SUPPORT

SIGNIFICANT GIFTS FOR EXPERIENTIAL

LEARNING Ron and Dianne Harris Endowed Fund and the Alan and Connie Fowler Endowment NEW SCHOLARSHIPS Henning Family Memorial Scholarship,

STILL GROWING: currently searching for a forest policy faculty member

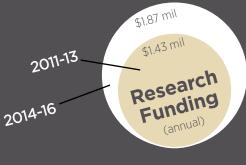
International students

U.S. citizens/

permanent residents

Graduate

Maureen H. McDonough Endowed Scholarship for Social and Community Sendiarship for Social and Community
Forestry and Charles J. Guenther Memorial Scholarship





Emily S. HuffAssistant Professor, Human Dimensions of Forestry

Dr. Huff studies coupled human and natural systems, integrating social and ecological data to predict and explore effects of human behavior on forest ecosystems and the influence of resource quality and availability on decision-making. Dr. Huff holds a BA in Environmental Studies and Music Composition from Brandeis University. an MS in Natural Resource Science and Management from the University of Minnesota and a PhD in Forestry from the University of Maine. Her past research includes long-term structure and development in red pine forests, a meta-analysis of private landowner timber harvesting behavior and an agent-based model of private landowner behavior. She has also researched stakeholder-engaged land use scenario development and a national assessment of women-owning-woodland networks. Prior to joining the faculty at MSU. Dr. Huff worked for the USDA Forest Service as a Research Forester. Her current research projects include the use of ecological momentary assessments (real-time surveys) to understand forest engagement and the measurement of how individuals make decisions that may increase the risk their neighbors face. Dr. Huff enjoys community-engaged and participatory-based research and has an upcoming project in Grand Rapids, Mich. combining social and ecological data to better understand urban tree management.

Jessica Miesel

Assistant Professor, Applied Forest Ecology and Management

Dr. Miesel seeks to understand how fire (wildfire and prescribed) and forest management influence soil ecosystem properties and processes in temperate coniferous forests. A major current focus is on quantifying black (pyrogenic) carbon in fire-affected ecosystems and characterizing its role in soil ecosystem processes. Her interest in black carbon also includes investigating the use of

NEW FACULTY

biochar as a soil amendment in conifer plantations. Dr. Miesel's research typically involves intensive field measurement and sampling. often in remote locations as well as laboratory analysis (wet chemistry and spectroscopic approaches). Her interest in fire ecology and management developed from experiences in wildfire suppression, prescribed fire management and fire effects monitoring. The majority of her research is conducted in partnership with natural resource managers in the Lake States region and in California. Dr. Miesel is interested in providing research that informs fire and forest management decisions. She is delighted to serve as a member of the Board of Directors of the Association for Fire Ecology and as a co-PI on the Lake States Fire Science Consortium, which works to facilitate fire science information exchange between the fire research and management communities of the Lake States region. Dr. Miesel holds a PhD in Evolution. Ecology and Organismal Biology (minor in Environment and Natural Resources) from The Ohio State University, and a BS in Life and Earth Sciences from Otterbein College.

Mojgan Nejad

Assistant Professor, Green Bioproducts

Dr. Nejad is interested in developing green bioproducts using sustainable feedstocks. One possible candidate is lignin, which is a natural polymer that makes up almost one-third of dry mass of wood and other plants. Prior to joining Michigan State University, Dr. Nejad worked as an Assistant Professor for two years at the Sustainable Bioproducts Department at Mississippi State University. She has a BS in Applied Chemistry from K.N. Toosi University of Technology and PhD in Wood Science from the University of Toronto. Her PhD dissertation focused on "Modeling" correlation between coating properties and their weathering performance on wood." Dr. Nejad also holds a Professor (status only) position at the Mechanical and Industrial Engineering Department in University of Toronto, which allows her to co-supervise graduate students



and projects. Her current research projects are mostly conducted in close collaboration with industry partners and are focused on developing lignin-based adhesives, coatings and foams.

Monique Sakalidis

Assistant Professor, Forest Pathology

Dr. Sakalidis focuses on the use of genomic tools in conjunction with traditional pathology tools to mitigate and respond to forest tree (detection, diseases identification, pathogenicity and population analysis). She is particularly interested in emerging endemic and exotic invasive pathogens. Dr. Sakalidis received her PhD at Murdoch University, where she worked on fungal (Botryosphaeriaceae) pathogens that impact eucalyptus, baobab and mango trees. During this period, she also conducted research at the Forestry and Biotechnology Institute at the University of Pretoria. Her postdoc in population genetics was at the University of British Columbia. She focused on canker and leafspot disease of poplar: Sphaerulina musiva. Her lab is currently focusing on oak wilt, white pine and other conifer diseases (such as spruce decline) but is always on the lookout for new problematic tree diseases in forested and urban settings.

Scott Stark

Assistant Professor, Forest-Atmosphere Interactions

Dr. Stark addresses the interplay between climate and vegetation. He leverages remote sensing (primarily airborne LiDAR) to address how the above-ground structure of the forest canopy impacts tree communities and the function of forest ecosystems. Dr. Stark researches how canopy structure impacts and responds to the climate. His work is aimed at understanding the fundamental mechanisms that connect forests and the atmosphere. He specifically focuses on the Amazon and how changes in North American forests can create climate and vegetation change in other regions, or even other continents, via ecoclimate teleconnections. He shows how the

effects of deforestation, drought, heat and beetle infestations are not only impacting local landscapes, they can also affect weather patterns and the health of vegetation in faraway places. Stark draws on past experiences coordinating tropical forest ecological field investigations in the Amazon Central America, deploying and and analyzing ground-based and airborne LiDAR remote sensing of forest canopies, working with lots of data types and monitoring systems and ecological computer simulations. He has a PhD from the University of Arizona and a BS from the University of Pittsburgh. He has also learned to speak Portuguese, which has greatly improved through interactions with friends and colleagues in the Brazilian scientific community.

Phoebe Zarnetske

Assistant Professor, Community and Spatial Ecology

Dr. Zarnetske focuses on the effects of climate change on species and ecological communities, with an emphasis on biotic interactions and species invasions. Her lab combines landscape-scale experiments. observational data and statistical and theoretical modeling to understand and predict how ecological communities respond to change in space and time. She works with a variety of systems including Michigan grasslands and ponds, coastal dunes, forests, lakes and rivers. Prior to MSU, she was a Yale Climate and Energy Institute Postdoctoral Fellow in the Yale School of Forestry and Environmental Studies. Dr. Zarnetske completed her PhD in Integrative Biology (minors in Ecosystem Informatics and Statistics) at Oregon State University, as an NSF IGERT Fellow. Her MS in Ecology is from Utah State University, with the USGS Cooperative Unit and funding from the Forest Service. Her BA in Biology is from Colby College. Dr. Zarnetske also worked for the New Zealand Department of Conservation and was a visiting scientist with the New Zealand National Institute for Water and Atmospheric Research.



he Chittenden Forestry Cabin was originally conceived in 1931 by student members of the Michigan State College Forestry Club. The cabin was constructed south of the Red Cedar River in a stand of pine, larch and oak trees. It took several years to complete but was finally finished near the end of 1935. The cabin was a spectacular, collaborative project ... The logs were cut in a swamp near Bath, Mich. The shingles were donated by the Southern Cypress Manufacturers Association. The porch floor came from the California Redwood Association. The interior floor was hard maple with birch inlays. A magnificent stone fireplace was built by a Works Progress Administration mason. A glorious tree stump chandelier hung in the main room. Pine tree facsimile hinges were used on the doors. (It's believed

they verification from the second sec

they were specially cast by a Spartan family who owned a foundry in Munising, Mich.) Until recently, all of these handcrafted details were lost.

The Cabin was used by the Forestry Club and other campus organizations for meetings, social

events and meals. In the summer of 1965, the cabin was demolished to make way for the new Wells Hall. Little notice was provided when the razing of the cabin took place. One Forestry graduate student, Rick Magnus, at left, observed the ongoing destruction and was able to liberate a pair of the Cabin hinges.

After his time as a Spartan, Rick went on to a career with the United States Forest Service. He began serving with timber survey crews in Michigan, Missouri and Minnesota. Rick's Forest Service career included nine permanent moves and the hinges went with him to each location throughout the last 50 years. He always intended to use them when constructing a residence, but that opportunity never happened. In the fall of 2016, Rick sent the hinges to the Department with a note that he hoped that the hinges could be appropriately displayed. We are all grateful to Rick for preserving these historic items from MSU Department of Forestry's past. Campus visitors can view the wonderful historical plague commemorating the Cabin (located west of Wells Hall and south of the Red Cedar River). It was dedicated in June 2014.



was fascinated by how I'd gotten there, repeating my modes of transportation, to the amusement of his mother: un bús, un avión pequeño, un avión grande, una camioneta. Johan loved learning to use my camera. Joao was a cutie, talkative and generous. He always made sure to tell me stories about his day. They were comrades, shadows, guides, loads of fun, teachers, students, tormentors, protectors and awesome helpers.

I loved the slower pace of life there. Mornings started off fun and energetic—tuned to the Kichwa

radio station. Each day brought something new: Swinging from a liana at the risk of going a dentro, donde viven los Huaorani and sampling medicinal trees and other non-timber forest products during a hike in the community forest. Setting off before breakfast to cut and gather cacao inserts. Learning to climb trees for seed collection. On days when I wasn't working, I spent my time writing protocol, doing laundry, playing with the kids, sowing seeds and exploring. Evenings, my host family and I shared our lives around the table. We exchanged funny

stories, prices of goods, languages—Kichwa and Chinese. We celebrated a birthday. We murdered a tarantula. My host family showed me how to make chicha, a traditional (alcoholic) beverage, as their kids ran amok. And there was the chuchuwaso fiasco. I had a stomach upset, they gave me medicine that smelled like death and it came back up through my nose. Turns out it was moonshine. It was unforgettable.

To my host family and the people of Campococha: ashka pagracho.

Read the full travelogue: for.msu.edu/news.

THANK YOU. YOU MAKE ADVENTURES POSSIBLE. (Our generous supporters from 2016)

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Donald K. Whittemore

Sally J. Whittemore

