



June 2021

"Listen to the trees talking in their sleep,' she whispered, as he lifted her to the ground. 'What nice dreams they must have!'"

– L.M. Montgomery, Anne of Green Gables

New Grant and Scholarship Awards

At the May meeting of the TREE Fund Board of Trustees, the trustees approved the following grants and scholarships. Congratulations to all recipients!

Hyland R. Johns Grant

Richard J. Hauer, PhD, University of Wisconsin-Stevens Point

“Tree Health Implications of Long-term Strategies to Treat Emerald Ash Borer: Long-term Effects on Tree Injections and Tree Tissue”
\$24,967

This project will determine the long-term effects to trees from repeated trunk injection to prevent emerald ash borer (EAB, *Agrilus planipennis*) mortality. Does repeated treatment through injection ultimately lead to trees that are unable to effectively take up chemical due to internal damage and/or wounding from repeated treatments? Further, do these treatments lead to enhanced decay in trees, increasing their tree risk for lower stem or root failure? Observations of bark cracking and discoloration around injection sites have been reported, but not quantified in a scientific manner. This is especially true of trees that have been repeatedly treated over long periods of time. Linking these external indicators (e.g., bark splitting, lack of wound closure, weeping wound sites) to internal damage (e.g., cross-sectional and longitudinal tree dissection), will aid urban tree managers in balancing the risk and rewards of long-term EAB management via injection.

Project Team: Dr. Richard Hauer, Mr. Randy Krouse, Dr. Andrew Koeser, Dr. Jake Miesbauer

Utility Arborist Research Fund Grant

John Goodfellow and John Ball, PhD



"Characterizing the Risk of Electrical Contact to Arborists"
\$50,000

Electrical contact has been among the most common cause of injury to arborist, and about 15% of all fatalities (typically 20-40) each year. The hazards associated with working in proximity of energized electrical conductors is a significant focus of the industry's ANSI Z133 Safety Requirements for Arboricultural Operations.



The 2021 TREE Fund UARF Grant funds a project involves an assessment of risks to arborists from potential adverse exposure to electrical currents and voltages and includes four tasks:

1. Cataloging and summarizing electrical contact incidents that were the result of adverse exposure by arborists to electrical currents and voltages, based on US Bureau of Labor Statistics Occupational Fatal and Nonfatal Injury database, OSHA Fatality and Catastrophe Investigation reports, emergency response databases and industry experience with electrical contact incidents.
2. Conduct high voltages testing of a progressive series of fault pathway lengths through branches, defining the levels of exposure to voltages and currents through a branch in contact with a 15kV class conductor.
3. Developing a series of representative case study incident scenarios used to define the likelihood of electrical contact, the level of exposures to fault currents and voltage gradients, and the medical consequences of such exposure.
4. Once defined, risk mitigation measures will be identified that may be appropriate for inclusion in the next edition (2022) ANSI Z133.

The current safety standards in ANSI Z133 American National Standard for Arboricultural Operations – Safety Requirements (2017) pertinent to electrical hazards will be reviewed. Each of the incidents reviewed in this study will be coded to specific ANSI Z133 standards in place that are intended avoid, eliminate, or reduce the hazard. This dataset will be used to develop case study scenarios representative of these incidents, defined in terms of the likelihood of electrical contact, the level of exposures to fault currents and voltage gradients, and the medical consequences of such exposure. Once defined, risk mitigation measures will be identified. The intent is that this work will support further development of industry standards and best management practices. Results from this investigation will provide guidance to the ANSI Z133 committee and specifically the Electrical Hazards (Section 4) taskforce as they prepare revision for next edition of the Standard (2022)

Ohio Chapter ISA Education Grant

Akron Parks Collaborative "Youth Corps to turn vacant lots into urban forests"
\$5,000

This project brings urban forestry to our neighborhoods and business districts.

It engages neighborhood youth, residents and businesses in the process of creating and stewarding a forest, while educating on its importance and introducing urban forestry job skills to youth. In partnership with the City of Akron, we are applying for funding to initiate forest creation on city-owned vacant lots. Utilizing Akron's Tree Canopy Study and the City's new Treekeeper Canopy GIS system, data will direct the selection of one city lot for this pilot project. Site selection will be based on proximity to a water source, such as a hydrant, to one of the city's "Great Streets" areas, and to potential neighborhood collaborators. Program partner, Summit Build Corps, will recruit 6-10 youth (age 16 and up) within the selected neighborhood to prepare the site, plant trees, mulch and water. They will be trained and supervised and gain an understanding of the urban forestry field. Working on the project will help build an understanding of its importance for the environment, the neighborhood, and the health of the residents. An educational sign will inform the neighborhood on what to expect visually and how the forest benefits them directly as well as the larger benefits in relation to the city and climate change. This pilot and tracked results will help us build a larger scale initiative to create forests on vacant lots with a youth corps that engages residents, educates on the process and builds necessary canopy.

Robert Felix Memorial Scholarship

Alexander Martin, University of British Columbia
\$5,000

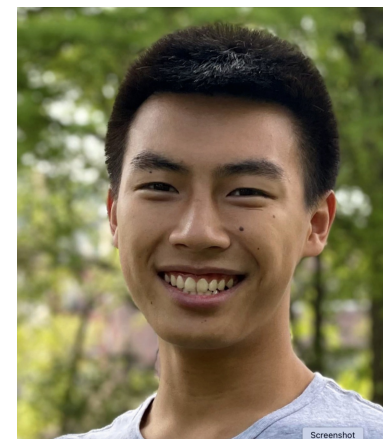
Alexander Martin is an ISA Board Certified Master Arborist and a TCIA Certified Treecare Safety Professional studying in the University of British Columbia's urban forestry program. Originally from Manitoba, he lives part-time in Vancouver. Alex's research interests focus on the merger of anthropology and arboriculture/urban forestry. He believes in the importance of discussion between practitioners and researchers to develop comprehensive and field-applicable current standards



John Wright Memorial Scholarship

Matthew Le, University of Wisconsin
-Stevens Point
\$5,000

My first steps into the tree industry were at The Morton Arboretum as a research technician fellow. I was just out of high school and had minimal knowledge about trees. But very quickly, I witnessed the many possibilities within a career working with trees. The time I had at the Arboretum was pivotal in my decision to pursue a tree degree. After my first semester at UW-Stevens Point, I joined Kramer Tree Specialists as a plant health care applicator. Though my education continued from home for this past year, I was lucky to be able to stay with Kramer and join the tree crews. And this summer, I couldn't be happier to be returning to The Morton Arboretum, the place that started it all. Before I took off to college, I developed a goal and mission to help communities



actualize the many benefits of trees. I'm on this path because I want to bring natural beauty into our built landscapes by thoughtfully planting trees so those now and after us may stop, look, appreciate, and realize the importance they have to the environment. I believe that it is only the trees on our public grounds that are free to all members of society to enjoy and it's these trees that will have the biggest impact on our communities. As such, I plan to become a municipal forester one day and to deliver those benefits at the community level.

Bonnie Appleton Memorial Scholarship

Ignacio Moreno, Cal Poly Pomona
\$5,000

My name is Ignacio Moreno and I am senior at Cal Poly Pomona. I am currently double majoring in Landscape Architecture and Plant Science. To get to where I am today, I started with English Language classes and two Associate degrees of Science in Turfgrass Management and Environmental Horticulture at College of the Desert. It has been a tough but rewarding academic journey. I grew up in a rural part of Mexico and this is where my love for the outdoors and arboriculture began to grow as I was surrounded by it. On my free time, I enjoy spending time in the outdoors, watching movies, and spending time with my family. Thank you, TREE Fund. Your generosity is helping me achieve my goals.



Fran Ward Women in Arboriculture Scholarship

Joanne Kim, Pennsylvania College of Technology
\$5,000

In suburban Philadelphia I was raised by an immigrant family who embraced the benefits of the outdoors. My grandmother would have me help her forage chestnuts, harvest vegetables, and prepare cultural foods. Motivated by a combination of international travels to Korea and a keen enjoyment of nature, I travelled all over the United States as a young adult.

It was at an unsophisticated nursery in Charleston, South Carolina where I gathered an honest depiction of plant production and greenhouse maintenance. It was where my passion flourished. Later I departed from the South and returned back home to Pennsylvania. After several years of training at institutions such as Longwood Gardens and Chanticleer Garden, I gained a diverse set of skills under mentors like Yoko Arakawa, Joe Henderson and Ed Snodgrass. As someone who aspires to create opportunities for others, I firmly believe there is a natural progression from team player to strong leader, but the best always remains curious. The ability to take on responsibilities in multiple areas of floriculture allows me to share my freedom of expression. That is why I am determined to graduate from the Plant Science program at Penn State University. With goals to achieve a graduate degree and become a passionate instructor for the future generations of Horticulturists.



Tour des Trees Registration

Deadline: **June 25**

June 25 is the deadline for registering to ride in the 2021 Tour des Trees. This year's tour will include over 300 miles of riding over five days around the Denver area, with beautiful views of the Rocky Mountains.

See www.treefund.org/tourdestrees for more details on this year's ride and to register.

Contact [Jonathan Cain](#) if you have any questions.

Registration Deadline: Now - June 25

Ride Check-In and Orientation: Aug. 28

Ride Dates: Aug. 29 - Sept. 2

Closing Breakfast and Bike Shipping: Sept. 3

Fundraising timeline: Now - Oct. 31

All riders must register for the event, create a fundraising page, order their Tour des Trees jersey, and email proof of their COVID-19 vaccination by the [deadlines](#) listed on the website. Be sure to look at the [Travel Logistics](#) page for details on airports and hotels.

Not able to ride with us in-person, but still want to support the TREE Fund? Participate in our virtual ride, **Tour des Trees: Rollin' in Place!** It is free to participate in the virtual event. All you have to do is fill out the registration form and create a fundraising page.

**Raise funds. Ride bike.
Look cool!**



fully vaccinated against COVID-19.

[Register Now](#)



Check out this year's official Tour des Trees bike jersey! All in-person riders receive a voucher for one or two of these, so register and get yours.

*Safety is of the utmost importance to us at this year's ride. We will follow the current advice of CDC and local officials in regards to activities and gatherings while on the ride and will make adjustments based on recommendations. For 2021, we will require all riders to be

Lead Donors

We are deeply grateful to the following people and



organizations who contributed \$2,500 or more to the TREE Fund in May 2021:

**SavATree
Wright Tree Service**

See the full list of lead donors who make our vital tree research and education work possible on our [website](#).



TREE Fund Webinar Series 2021

The TREE Fund is proud to partner with the Alabama Cooperative Extension System to bring you free education offerings. We are now able to accommodate up to 3,000 participants! Mark your calendars for these upcoming free webinars from TREE Fund:

Why do some trees transplant better than others? A look at some new research on water uptake

Tuesday, June 22, 2021, at 12 p.m. Central

Nina Bassuk, PhD, Cornell University

[Register here.](#)

A three-pronged approach to understanding the defensive mechanisms in Green Ash resistant to EAB

Tuesday, July 27, 2021, at 12p.m. Central

Jeanne Romero-Severson, PhD, University of Notre Dame

Long-term effects of electrical right-of-way vegetation management on floral and faunal communities

Tuesday, Sept. 14, 2021, at 12 p.m. Central

Carolyn Mahan, PhD, Penn State Altoona

Digging into the Science of Tree Planting and Removing Packaging Materials

Tuesday, October 19, 2021 at 12 p.m. Central

Richard Hauer, PhD, University of Wisconsin - Stevens Point

Andrew Koeser, PhD, University of Florida

Jason Miesbauer, PhD, The Morton Arboretum

Growing trees in paved sites

Tuesday, Nov. 16, 2021, at 12 p.m. Central

Alessio Fini, PhD, University of Milan

The TREE Fund's 1-hour webinars are free and offer 1.0 CEU credit for live broadcasts from the International Society of Arboriculture, the Society of American Foresters, the National Association of Landscape Professionals and sometimes the Landscape Architecture Continuing Education System. Registration information becomes available on our website approximately one month before each webinar date.

Missed a webinar? Watch it anytime on our [website](#).

CEU Credit for Recorded Webinar

Missed the TREE Fund's webinar, "Loading of a Tie-in Point While Climbing"? Now you can watch the recording of this live webinar and earn ISA CEU credits by completing a 20 question quiz with 80% accuracy. Learn more on our [website](#).

Visit our Website

THANK YOU TREE Fund Crown Partners!



TREE Fund

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Donate now

TREE Fund is a 501(C)3 nonprofit with a mission to explore and share the science of trees contributing to the lives of people, communities, economies, and the environment, and of the planning, planting, and sustainability of urban and community trees.