



H A V E R F O R D C O L L E G E A R B O R E T U M A S S O C I A T I O N

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SUMMER 2018

FULL SPRING

By Claudia Kent, Arboretum Director

Finally, the snow ended and we saw spring starting to raise its sleepy head. A few days of warm weather and all of a sudden we were in full swing. Thank goodness! We ramped into high gear with planting as soon as the weather broke. After years of planning, the College Lane Allée was installed. Forty oaks of varying species were planted in a matter of days. In a few years it will be impressive site.

The formal definition of an *allée*, (French for path or avenue), is a road or driveway that is lined along each side with trees or shrubs. Allées mark the arrival to a landscape or architectural feature that is a place of significance. Picture the antebellum plantations of the South with allées of Live Oak draped in Spanish Moss. Traditionally, they are one species and very formal, but recent history has told us that planting one species can spell trouble. A disease can wipe out the entire planting in several years. Our Red Oak allée has been suffering from Bacterial Leaf Scorch and we've been removing one to two trees per year for the last decade.

We debated, squabbled and sweated the allée species selection. We talked about mixing Sugar Maples, Lindens and Oaks. Should we plant further away from the road because of salt spray in winter and overall compaction from

(continued on page 6)



Photo by Michael Startup

While change can be difficult, it is nice to have a hand in something that the next generation will see and value.

GREETINGS FROM SALLY ANDERSON, OUR NEW PLANT CURATOR

By Sally Anderson



I've been meandering and running the Haverford Nature Trail, dodging geese, playing on the fields, and utilizing the children's summer camps on campus over a span of twenty years, so even though I have only just begun this adventure that is the Plant Curator position, it feels comfortable and I'm thrilled to be here.

Questions I'm being asked often are where do I come from and what brought me here? About 17 years ago I had someone convince me to enroll in some horticulture classes on the Temple Ambler campus. I really haven't looked back since. I continued in the Horticulture program, later becoming a Pennsylvania Certified Horticulturist, and started at the very beginning by jumping on a crew shoveling endless yards of mulch, learning everything I could about landscaping, and realizing I had a love of design and creating dynamic outdoor spaces. I've had the opportunity to work with talented professionals who inspired me to create my own design/build company, BloomThyme Design & Gardens. Eventually with all these experiences behind me, it was time to embark on a new venture — so I kept knocking on Claudia Kent's door until the right position became available here at Haverford.

One of my primary goals here is to help facilitate the Tree Replanting and Revitalization Project which is aimed at maintaining the historic landscape and keeping it sustainable, ensuring that the arboretum is a space for leisure and learning for future generations to enjoy as well.

Save the Date

Arboretum Annual Dinner

Thursday, October 11, 2018 • 6 to 8 p.m.

Guest Speaker to be announced soon



WE SPEAK FOR THE TREES

By Raina M. Fitzpatrick, '18

Thanks to the hard work of Daniel Larkins of the Haverford Arboretum and MaryAnn Boyer of Boyer/Sudduth Environmental Consultants, and Briana Riley of the Student Conservation Association (SCA), I had the opportunity to work with an amazing group of high schoolers from Philadelphia on issues related to climate change and, more specifically, trees. We used a Climate and Urban Systems Partnership (CUSP) grant to fund a program designed to introduce these students to the environmental education missing from most high school curricula. At John Heinz National Wildlife Refuge, we sought to teach the SCA crew members how trees play a role in the carbon cycle and how taking care of these enormous, long-living organisms can help save the planet. Our first lesson was designed to teach students about the carbon cycle, tree anatomy, and how trees sequester carbon. We watched as they worked through complexities together, such as where the xylem should fit in relation to the pith. We also worked with them to create thought webs expressing their working knowledge of trees. During the second lesson we introduced the class to field work. Students learned how to use dichotomous keys and even how to use some trigonometry to estimate the carbon content of trees in the field. It must have only taken 3 seconds for one of my students to ID our first tree as a white oak and I was able to sit back as an otherwise fairly quiet boy took it upon himself to make sure all tree measurements were properly obtained. It was this level of engagement, which I had never seen in my own high school classes, that let me know that this was a great program — not only because it was designed by intelligent and thoughtful people, but also (and perhaps most importantly) because it had recruited such a good group of kids.

I am glad to have participated in this program, especially as a student living in an arboretum. The influence of the SCA led me to acquire new information to impart to the students, which meant learning more about trees in general and also increased my appreciation for this campus. The skill sets we employed in the program are ones I hope to use in future when engaging with other groups about environmental issues, and I believe I broadened my own understanding of the importance of these issues to the communities of these kids. The trees at Haverford are an important part of the identity of the College, and my experience with these high schoolers reminded me of that. All I can say is that I felt my heart warmed by the knowledge that so many young people were willing to dedicate every Saturday to learning about the environment and to actively engaging in ecosystem restoration. While I would caution against complacency on this issue, I found that my time with these students made me feel that our situation may not be so dire if our generation follows their lead.

FROM DAN'S DESK

By Dan Larkins, Program Coordinator



We need you. The Arboretum has had the privilege of hosting more than one hundred volunteers in the last few months. Some of the visitors are life-long lovers of the Arboretum, while others we've welcomed have come for the first time. About 30 volunteers came out for our TreeVitalize planting in October and

over 50 volunteers came from Harriton High School in the fall. They planted more than 50 trees. About ten students and staff from the Shipley School worked on our trail this spring. It has been wonderful to see the diversity of ages, abilities, backgrounds, and interests that our visitors and volunteers represent. This spring, we kicked off our grant project with the Student Conservation Association, John Heinz National Wildlife Refuge, and Boyer-Sudduth Environmental Consultants. Haverford student including Kaitlin Reese '20, and new alumna Raina M. Fitzpatrick volunteered to teach Philadelphia high schoolers about trees' role in mitigating climate change.

Volunteer work might involve anything from helping register people at our events to planting dozens of native species on a summer morning. Our pumpkin carving and night hike would not have been a success without the time and energy of over thirty dedicated volunteers. We had a new student volunteer from Lower Merion High School named Levi Rovner give over fifty hours. Volunteers learn plant identification, build their resumes, network, and socialize. Not only that, they teach us a lot! Our volunteer trail crew has monthly summer dates set up to restore and revitalize our nature trail. On Saturday, August 4, the Tired Hands Volunteer Crew will visit Haverford College Arboretum to work on our trail. We are planning a November 5K Run/Walk and will definitely need volunteers to prepare. In the future, we are looking to have *volunteer-led* events including gardening workshops, bird walks, and more. We are open to all of your ideas. Non-profits thrive thanks to the support of volunteers. There is something really transformational about devoting a weekend, a morning, or an hour to a place you love. Thank you for giving back.



SCA crew members and crew leaders with Kaitlin, Raina and MaryAnn.

Photo by Dan Larkins

NEXT STOP: NORTH DORMS

By R. Austin Huber '19, Student Worker and Executive Committee Representative

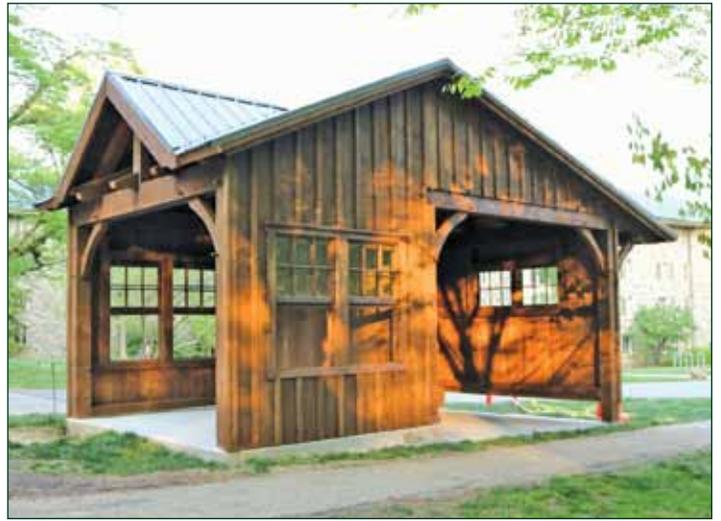
Joining the litany of Haverford's recently completed and ongoing construction projects, yet another structure will be welcomed this spring by our community: a new, student-designed Blue Bus stop and bike shelter, located near the North Dorms at the corner of Carter and Harris Roads.

This project began in February of 2017 following a rainy commute to Bryn Mawr, when my classmate, Nicky Rhodes '19, and I submitted a proposal to the Facilities Fund, which annually offers students the chance to refresh existing and create new community spaces on campus. Responding to the inadequate bus stop infrastructure (composed of only a small bench and a trashcan) and accounting for the increased use of the North Dorms bus stop following the opening of Kim and Tritton Halls, Nicky and I sought to design a bus stop that effectively accommodated the needs of its users and reflected Haverford's rich architectural character.

Since its inception, this project's scope and physical form have undergone a number of transformations. After successfully securing funding through the Facilities Fund, Nicky and I, with the unwavering support of the College Architect, David Harrower, embarked upon an intensive design phase. During this process, our design and scope expanded as we joined forces with Haverford's Committee for Environmental Responsibility (CER), which was developing a new bike share program, also slated to be located near the North Dorms. Recognizing our common goals and the benefits of collaboration, we partnered with CER and merged our two projects, which ultimately determined the structure's dual function: half Blue Bus stop and half bike shed.

Taking inspiration from the late nineteenth-century Victorian architecture of SEPTA's Regional Rail stations and many of Haverford's faculty residences, the final form of the structure is the result of dozens of iterative architectural models, many traffic circulation schemes, and overriding practical considerations that all strove to establish an elegant balance between form, function, and economy. Currently under construction, the wood beam structure will feature a patio, sheltered waiting area with seating, a covered rack for both personal and bike share bikes, and air pump and bicycle "fix-it" stations.

More than a year in the making, we are incredibly excited for this project to come to fruition in the next few weeks. This project owes its realization to the generous support of CER, the President's Office, and Facilities Management. We would also like to personally thank David Harrower for his instrumental and continued mentorship, commitment, and friendship throughout this endeavor — he showed us the importance of persistence and integrity in all of our efforts.



Beautiful in purpose and design

Photo by Austin Huber '19

Upon its completion and ultimate assimilation into the daily movements of the Tri-College community, we sincerely hope that this structure will benefit all those who ride the Blue Bus, and become a valuable asset to Haverford's campus.

A STUDENT'S LOOK BACK

By Daniel Sax, '18



Photo by Carol Wagner

For most, a 6:30 am alarm means fire drill; for me it means that adventure, intrigue, and hard work are waiting. Working with the Arboretum has not only given me an excuse to see more sunrises than any self-respecting student should, but it has pushed me to engage with Haverford as something beyond a purely academic space.

I am grateful that, as I reflect on my experiences here, fond memories of particularly productive and energizing classes are paired with recollections of time spent pruning rose bushes in anticipation of their bloom and pulling English ivy from cherry trees in the orchard.

But what would these memories be without folks to share them with? The community I've found in the Arboretum has pushed me to explore Haverford's natural environment in ways I could have never imagined. I've seen every nook and cranny of this beautiful campus, and I owe it all to the loving spirits and dedication of the horticulturalists who have taken me under their wings. I'm not sure who I'd be without the Arboretum, and, frankly, I'm glad I never have to find out.

HAVERFORD CELEBRATES EARTH WEEK

By Jeremy Graf Evans, '18

From April 21st to April 28th, the Haverford community engaged in a barrage of events in honor of Earth Week and of Earth Day on April 22. Included in these events were a clothing swap, an electronics recycling event, a bird walk, Nature trail workdays, a foraging walk, a vegan food festival, and daily efforts to aid in the restoration of the tree population on campus (the tree:student ratio must be preserved!).

QHouse kicked off the week with its “Spring Queering” event, a clothing swap seeking to celebrate spring as well as ethical exchange. Sharing our wardrobes is a great way to bring renewed excitement to our own attire and helps ward off that nagging tendency to buy new things when there is so much already out there that may have fallen out of favor with its original keepers.

On Earth Day itself, we had an opportunity to hear from Arboretum Director Claudia Kent to “learn about the impact of climate change on our trees, the importance of our suburban tree canopy to neighbors and other nearby communities, and the College’s ongoing commitment to our 216-acre campus home to over 5,000 trees.” The Haverfarm also continued its Sunday community workday series, encouraging participants to help plant spring crops, harvest, and enjoy the season. In addition to the workday, the Greenhouse saw a lot of action as it also was the site of the panel discussion “Nature and Life: Three Perspectives,” organized jointly by the Arboretum and the College’s Department of Philosophy.

Continuing the celebration into Monday, the Arboretum hosted an electronics-recycling event in partnership with People Advancing Reintegration — Recycle Works. As noted on the organization’s website, “PAR-Recycle Works is a nonprofit that provides transitional employment to people returning to the community from prison through an environmentally responsible electronics recycling service.” A steady stream of cars looped through the south parking lot on campus and loaded up a full truck and then some! Many thanks to Campus Safety for helping to direct traffic as cars lined up to drop off electronics that were ready for a new life.

Celebrating the various kinds of life that cycle through our campus, Arboretum Program Coordinator Dan Larkins led a guided bird walk on campus on Wednesday afternoon. The focus on how we cohabitate with our fellow creatures continued on Saturday as Haverford’s Effective Altruism for Animals hosted its 2nd Annual Veg* Food Festival. The 50+ attendees enjoyed free vegan foods from local businesses in addition to watching videos on factory farming and talking with organizers about the importance of a plant-based diet for one’s health, for the animals, and for the planet.

On Friday, more than fifty people came out to the campus to celebrate Arbor Day, including community members and Jessica Magin’s kindergarten class from Friends School Haverford. On Lloyd Green, the Arboretum planted a swamp white oak and distributed its Annual Plant Dividend species, white heath aster and blue cardinal flower, to the public.

In keeping with the theme of how our environment can keep us well-nourished, Haverfarm fellow Jahzara Heredia, '16 hosted a foraging walk around campus to teach about the various edible plants we can find in our own backyard.

In addition to these many events, each day of the week included a unique tree planting. Over the course of the week, community members joined in planting a Willow Oak and a Black Tulip Magnolia by the North Dorms; a Concordia Oak directly beside Drinker House; a Kwanzan Cherry at the Orchard; a Swamp White Oak on Lloyd Green; and an Autumnalis Cherry by the new Visual Culture, Arts, and Media building (VCAM).

Thanks to the Arboretum staff, the Haverfarm, the Committee for Environmental Responsibility, QHouse, Effective Altruism for Animals, and all other contributors for their help planning a wonderful week. May we continue to be mindful of our relationships to our environments in every moment of every day!



Students, staff and visitors from the community helped plant a tree each day of Earth Week.

Photo by Carol Wagner

WHAT'S THE BUZZ? By Charles Bone, Horticulturist

It may be no surprise to learn that one of the reasons I work at an arboretum is my love of nature. Of course this love has led me to care about my actions as a human and how those actions affect the natural world. All you have to do is look out your window and you will see how our species has shaped and molded the world to suit our needs. Living in the 21st century we are hyper aware of this, which makes it hard to bear when our good intentions turn out to have negative consequences.

The magazine *Science* recently published an article entitled "Conserving honey bees Does Not Help Wildlife." I envision many people spitting out their coffee just reading that title! Haven't we been trying to save the honey bee because it is good for the environment? How could this be true?

If you have not read the article I highly recommend it. In a nutshell, the authors state there has been a narrow focus of publicity for the plight of a single bee, namely the western Honey Bee (*Apis mellifera*), which is native to Europe and has been shipped all across the globe to pollinate crops. The western honey bee is not the only bee species experiencing problems yet there has been little publicity for these other bee species. To add insult to injury, the western honey bee may be contributing to the struggles of these other bee species through competition for the same resources. Basically the authors are calling for greater publicity for all bee species that are experiencing decline and for a set of regulations for the use of the western honey bee as a domesticated insect.



Eli St. Amour's bees at the Haverfarm.

Photo by Caleb Eckert, '17

Our lives are connected to the use of the western honey bee. We as humans need to eat and the western honey bee helps us to eat by pollinating our food crops. If we lost the western honey bee we would be in serious trouble, but we don't fully understand what the consequences will be if we start losing our native bee populations. Hopefully we will begin to see more media attention on the challenges our native bee populations are facing. There are many resources, including the websites for the Xerces Society and the USDA, that can help us learn what our native bee populations need to be successful. As a species we are continuing to try to live better lives within the natural world and the more information we have the better our good intentions will be.

WINNER OF THE ARBORETUM VISUAL ARTS CONTEST (2018)



Crocus Print by Catherine Kim, '21

A Closer Look . . .



Sometimes a big lunch leaves a toll, like on this Canna.

Photo by Michael Startup

EVENTS

Pre-registration required for all events

Visit our website for all the latest event updates

Saturday, July 21

Tree Tour with Plant Curator, Sally Anderson

10 A.M. Meet at Whitehead Campus Center

Our Plant Curator is designing an exciting new tour open to the public. Join us for a casual stroll of campus to learn about some of your favorite trees on campus.

Saturday, August 4

Tired Hands Volunteer Crew Trail Work Day

Meet 9 A.M. at Facilities

Join volunteers from Tired Hands Brewery as we plant native species and remove invasives.

Sunday, August 5

Bird Walk

8 A.M. Meet at Facilities

This birding tour will focus on the Pinetum and Haverfarm parts of the campus.

FULL SPRING

(continued from page 1)

foot traffic? What about the size? Smaller trees transplant better than larger trees but will they be too small? We took none of these issues lightly. We had to make a decision.

Ultimately we decided to plant a variety of oaks. Oaks, overall, have different forms but are still similar enough to be suitable for an allée. They also can get very big so we'd still have the arching effect over the road. Oaks are categorized as either red or white oaks. Pointy leaf lobes are red; rounded leaf lobes, white. We selected *Quercus bicolor*, *Quercus macrocarpa*, *Quercus prinus* and are classified in the white group, *Quercus imbricaria* and *Quercus phellos* are considered red. White oaks tend to have a lower susceptibility to Bacterial Scorch.

We spent an enjoyable day last December tagging our new trees. We trekked out to Honeybrook, Pennsylvania, where we hand-selected each one. We hired a contractor, who very skillfully completed the job, to plant them for us in early April. With this planting we are continuing to realize William Carvill's original landscape plan. Contrary to what many folks believe, the current Red Oak allée is not considered historic. In fact, it was planted in the late 1950's. Since Carvill planted the first allée circa 1834, this is the fourth time this has been done. Change is inevitable. Moving with the times while still maintaining our historic identity has been a challenge. With this step in our history we are hoping to accomplish both.

ARBOR DAY 2018



Photo by Dan Larkins

Arbor Day, with a little help from our Friends.

"Working at the Arboretum has been a defining part of my experience at Haverford College. It facilitated my interest in soil science and plant biology, and shaped the path of my academic career."

— Abby Fullem, Class of 2016



EXECUTIVE COMMITTEE

Members at Large

Luke Hamilton Laura Patterson
 Marc Inver '71 Doug Ross '69
 Alan Wood

Staff Representatives:

Claudia Kent, *Arboretum Director*
 Daniel Larkins, *Arboretum Program Coordinator*
 Don Campbell, *Director, Facilities Management*
 Jesse Lytle, *Chief of Staff, President's Office*

Student Representatives:

Hannah Doll '21, Brooke Garbarini '20
 Austin Huber '19

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