

Student Sustainability Council

Meeting Minutes

2/17/2020

Taken by: Claire Hilbrecht

1. Beginning of Meeting

- a. 7:00 - Reading of the Preamble and Introductions

1. Proposal Presentations

- a. 7:03- Design Society Presentation Begins
- b. 7:13 – Design Society Presentation Ends and Q&A Begins
 - a. Is the Design Society as an organization helping or just you two?
 - i. There are two other leaders and 15-20 students in the organization
 - ii. It is a great opportunity for students; there will be a speech for students outlying the process
 - b. Can you speak to the relationship between UK and the Parachute Factory
 - i. We have had shows from UK students and professors; we bring on student and alumnae interns and volunteers
 - c. Fundraising clarification- is the budget including fundraising
 - i. The Parachute Factory fundraised \$1,300; most of the money will go toward a mural designed by the local artist
 - d. Is wood commonly used for wheelchair ramps
 - i. Yes
 - e. Did you all look at the price of solid concrete
 - i. Yes, but it would be so much more expensive
- c. 7:20– Design Society Q&A Ends

- d. 7:20 - UFI Tree Week Presentation Begins
- e. 7:31–UFI Tree Week Presentation Ends and Q&A Begins
- f. 7:31 – UFI Tree Week Q&A Ends
- g. 7:32 - Quantifying Microplastics Presentation Begins
- h. 7:40 - Quantifying Microplastics Presentation Ends and Q&A Begins
 - a. You are trying to determine which areas of campus have the most plastic, correct?
 - i. Yes
 - b. What are you using for your control
 - i. Thinking about the Arboretum, but that may change; will be higher topography, higher up from water table and less developed
 - c. What is your timeline for presenting the info
 - i. There are several groups on campus who would be interested in receiving the info, with a timeline of the project being ready by mid October
 - d. SGA would be interested in these data
 - e. How many samples can you process with those materials
 - i. Approximately 100
 - f. How do you foresee your info being used as a solution
 - i. In informing some type of management
 - g. Can you differentiate the different plastic sources and types
 - i. No
 - ii. The College of Engineering may have one
 - h. Are you exploring this methodology yourself

- i. Yes, but it is a simple process and I have done lots of research prior to engaging with the methodology
- i. 7:47- Motion to extend by Joel, 2nd- Cameron
- j. Where will the materials from the membrane go
 - i. Onto a tray and do a randomized selection of the different grids
- k. Are you taking any water samples
 - i. No, but I wish
- i. 7:49 - Quantifying Microplastics Q&A Ends

3. Proposal Discussions

- a. 7:54 - Discussion of Design Society begins
 - i. Did they meet the funding requirement as per the Constitution
 - 1. The fact that they reduced the cost so much counts as seeking funding; they also had a GoFundMe page
 - ii. Connection to sustainability is tenuous at best- wood doesn't necessarily mean sustainable
 - 1. They have a weak grasp of sustainability
 - iii. The economic equity and the social inclusion aspects of their application are strong
 - 1. Supporting local artists and bringing the design students in
 - iv. The environmental stewardship portion is weak but it is important to support the arts and inclusion
 - v. Was suspicious at first but probably putting too much weight into the pillar of the environment
 - vi. Could transportation help with funding

1. Perhaps some
- vii. Student involvement and connection to UK
1. Good opportunity for design students
 2. Similar to tree stand in McConnell Springs that design students worked on; have a precedent of funding projects off campus
 3. The space itself is used for student ideas that are sometimes sustainable-art piece of renewable materials
- viii. Could the design school help fund this
1. They had meetings with the college of design but can assume that they were unfruitful
- b. 8:02- Discussion of Design Society ends
- c. 8:02 - Motion to vote on Design Society (Motion by Joel, 2nd- Cameron)

VOTE RESULTS - PASSED Yes [14] No [4] Abstain [1]

PROPOSAL #1 VOTING RECORD

| Name | Y/N/A | Name | Y/N/A | Name | Y/N/A |
|------------------|-------|-------------------|-------|----------------|-------|
| Josh Ehl | N | Cameron Luker | Y | Isabel Jenkins | N |
| Sophie Beavin | N | Kristen Gould | | Edward Lo | A |
| Beth Evers | Y | Joel Huether | Y | Megan Reinhart | Y |
| Camille Harn | Y | Sam Leuthold | Y | | |
| Bethany Schagane | | Alyssa Archer | | | |
| Jake Simanek | Y | Brittany Lefebvre | | | |
| Bri Stanley | Y | Madi Syndor | Y | | |
| Darren Tosh | N | Olivia Tussey | Y | | |
| Claire Hilbrecht | Y | Sydney King | | | |
| Kelly Walker | Y | Ashlee Edmonson | | | |

| | | | | | |
|-----------------|---|------------------|---|--|--|
| Skyler Hornback | Y | Danielle Doering | Y | | |
|-----------------|---|------------------|---|--|--|

Amount requested: \$6,784.00

Amount approved: \$6,784.00

If no, why:

I like the project, but I feel that the group could try a bit harder for fundraising the project (at the \$6000 cost, since they already had over \$1000 pledged) and then come back to us for partial funding.

I don't believe there's enough connection to environmental stewardship, and I also don't buy that this is going to help economic inequality- the night market is a pretty notorious example of gentrification in Lexington

I feel that the seeking of funds was not meet, being it was started funding in 2017 for a different idea. The Pillars was not strong enough for Sustainability funding for me. Great project just should not be all funded by this funding source.

not comfortable with spending student money on this project. want more correlation to UK students

a. 8:04 - Discussion of UFI Tree Week begins

1. Tree Week is one of the most comprehensive displays of urban forestry information; it includes all of Lexington
2. Issue with counting employee hours as 25% of funding
 1. Funding can be in kind; the professors that work for UFI do not have UFI as their full time jobs- donating a lot of their time
 2. Is the salary to support one person? - Yes
3. How well attended is Tree Week

1. Very

4. Worry about sustainability of this funding long term- could be problematic to fund someone's salary each year

1. Language in the Constitution to help avoid problems here

5. Is the SSC logo included on any of their materials

1. Yes

b. 8:09- Discussion of UFI Tree Week ends

c. 8:09 - Motion to vote on UFI Tree Week (Motion by Claire, 2nd- Josh)

VOTE RESULTS - PASSED Yes [18] No [0] Abstain [1]

PROPOSAL #2 VOTING RECORD

| Name | Y/N/A | Name | Y/N/A | Name | Y/N/A |
|------------------|-------|-------------------|-------|----------------|-------|
| Josh Ehl | Y | Cameron Luker | A | Isabel Jenkins | Y |
| Sophie Beavin | Y | Kristen Gould | | Edward Lo | Y |
| Beth Evers | Y | Joel Huether | Y | Megan Reinhart | Y |
| Camille Harn | Y | Sam Leuthold | Y | | |
| Bethany Schagane | | Alyssa Archer | | | |
| Jake Simanek | Y | Brittany Lefebvre | | | |
| Bri Stanley | Y | Madi Syndor | Y | | |
| Darren Tosh | Y | Olivia Tussey | Y | | |
| Claire Hilbrecht | Y | Sydney King | | | |
| Kelly Walker | Y | Ashlee Edmonson | | | |
| Skyler Hornback | Y | Danielle Doering | Y | | |

Amount requested: \$9,551.00

Amount approved: \$9,551.00

d. 8:09 - Discussion of Quantifying Microplastics begins

1. Loved it!
2. Have we historically funded research projects
 1. Historically by faculty, one of few that is student led
3. The ideal student project

e. 8:06- Discussion of Quantifying Microplastics ends

f. 8:06 - Motion to vote on Quantifying Microplastics (Motion by Josh, 2nd- Joel)

VOTE RESULTS - PASSED Yes [18] No [0] Abstain [1]

PROPOSAL #3 VOTING RECORD

| Name | Y/N/ A | Name | Y/N/ A | Name | Y/N/ A |
|------------------|-----------|-------------------|-----------|----------------|-----------|
| Josh Ehl | Y | Cameron Luker | Y | Isabel Jenkins | Y |
| Sophie Beavin | Y | Kristen Gould | | Edward Lo | Y |
| Beth Evers | Y | Joel Huether | Y | Megan Reinhart | Y |
| Camille Harn | Y | Sam Leuthold | Y | | |
| Bethany Schagane | | Alyssa Archer | | | |
| Jake Simanek | A | Brittany Lefebvre | | | |
| Bri Stanley | Y | Madi Syndor | Y | | |
| Darren Tosh | Y | Olivia Tussey | Y | | |
| Claire Hilbrecht | Y | Sydney King | | | |
| Kelly Walker | Y | Ashlee Edmonson | | | |
| Skyler Hornback | Y | Danielle Doering | Y | | |

Amount requested: \$631.00

Amount approved: \$631.00

ATTENDANCE

| Name | P/ A | Name | P/A | Name | P/A |
|------------------|---------|-------------------|-----|----------------|-----|
| Josh Ehl | P | Cameron Luker | P | Isabel Jenkins | P |
| Sophie Beavin | P | Kristen Gould | A | Edward Lo | P |
| Beth Evers | P | Joel Huether | P | Megan Reinhart | P |
| Camille Harn | P | Sam Leuthold | P | | |
| Bethany Schagane | A | Alyssa Archer | A | | |
| Jake Simanek | P | Brittany Lefebvre | A | | |
| Bri Stanley | P | Madi Syndor | P | | |
| Darren Tosh | P | Olivia Tussey | P | | |
| Claire Hilbrecht | P | Sydney King | A | | |
| Kelly Walker | P | Ashlee Edmonson | A | | |
| Skyler Hornback | P | Danielle Doering | P | | |

Funding Application

Before beginning the application process, please verify that you understand the terms and conditions for receiving funding from the SSC:

- The SSC cannot apply retroactive funding, all budget items must occur after the meeting date where the proposal is reviewed.
- Proposals are accepted on a rolling basis and the due date for consideration at each meeting is one week prior to that meeting.
- If approved, the project leader has twelve months to spend the funds. If the project requires an extension beyond this timeline, the project leader will need to submit an extension request.
- The money disbursed from this fund comes from student fees, so sustainability-related student impact is a necessary component for any proposal.
- Presenting the project to the Council is mandatory.
- In order to preserve the Council's ability to effectively review and consider proposals we are limited in the amount of proposals we may review per meeting. In the case that more proposals are received than can be reviewed for a given meeting, Council directors will decide which proposals are heard based on project timeline and order of submission.

I verify that I understand and accept these terms and conditions (please write Yes): YES

Project title: Accessibility for All at the Parachute Factory

Organization: The Design Society

Project leader name: Alexa King

Project leader email: alexa.king@uky.edu

Project leader additional contact information: Trevor Cox, trevor.cox@uky.edu

Total amount requested from the Council (round up to the nearest whole number): \$6, 784

UK affiliation (Student, Faculty or Staff):

Alexa King – UK Graduate Student; Trevor Cox – UK Graduate Student; Bruce Swetnam – UK Faculty

Please fill out the following information about yourself and any other individuals involved on the project. Previous involvement with the SSC may include membership, funding requests, or involvement with an organization affiliated with the SSC. Answer to the best of your knowledge.

Please list the following information:

| Name | Major/Department | Academic Year Based on Project Graduation Date | Previous involvement with SSC |
|------------|--|--|--|
| Alexa King | Interior Design / Urban Design – Graduate Student – College of Design | Project completion - 2020 Graduation - 2021 | 2018 - funded by SSC to attend AASHE |
| Trevor Cox | Architecture – Graduate Student – College of Design | Project completion - 2020 Graduation - 2021 | n/a |

How did you hear about the SSC?: I was funded by the SSC to attend the ASHEA conference in 2018.

Describe how your project relates to the three pillars of sustainability (environmental stewardship, economic equity, and social inclusion):

Social Inclusion Pillar:

The project is to build a handicap access ramp. The Parachute Factory is a non-profit organization that values art, culture, and its Lexington community. This non-profit serves as an art gallery that exhibits local artists. Also, the Parachute Factory's space is used for community engagement events. By building a ramp for people to easily access the Parachute Factory will enhance that public space as well as social inclusion for all

With help from the Student Sustainability Council, the funding will directly benefit the Lexington community. It has been disheartening for the Parachute Factory to not be able to invite community members who are wheelchair-bound, to their events and art exhibitions. We the Design Society, are offering free design work and labor to make art accessible for ALL. We want nothing more than to dedicate our semester to this project, so the Parachute Factory can truly fulfill their purpose to be an inclusive art and culture community center.

Environmental Stewardship:

Initially, Gray Construction designed the ramp to be made from concrete. Our alternative is to make it from wood. There are a few reasons why wood is more beneficial. Not only is concrete substantially more expensive, it also leaves a greater carbon footprint compared to wood. Wood is not only a natural resource; it carries high strength and tension in wood construction. Concrete is great in compression, but the method of construction would require in-cast construction. This means that the ramp would be there permanently. A benefit of the wood ramp, it is affordable

and can be easily repaired. Not only is wood sustainable environmentally, but it also is sustainable financially.

Economic Equity:

The Parachute Factory participates in the Night Market which occurs on the first Friday of each month. All vendors who participate in the Night Market are all local businesses. In 2018, three-thousand people went to the Night Market.

The ramp will bring more visitors to the Night Market and to the Parachute Factory, which allows income for the events and supports the local community. While the Parachute Factory is a non-profit, the artists who exhibit their work at the gallery benefit financially if the space is all-inclusive.

Please provide an in-depth description of your project:

“When people find an entrance difficult to navigate we are essentially blocking or barring access, Looking at this from a Civil Rights perspective is also informing. On an essential level, why purposely bar those of us who will only add to the creative potential of such an organization?”

Bruce Burris

Founder and former Director of Latitude Arts Community, Lexington KY

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At The Parachute Factory, we prioritize eliminating all barriers that might keep our community from experiencing the art and events we host in our space—whether social, economic, or physical.

We know that our entryway is not accessible to those with physical disabilities, and it’s vital for us that we eliminate that barrier.

Not only is there no wheelchair ramp for one to access our space, but our door—our only entrance—is too narrow for a wheelchair to enter through.

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Hello, my name is Alexa King and I am an Interior Design graduate student at the College of Design. Not only am I a graduate student, but I am the Vice President of a student organization known as the Design Society. The Design Society is a multi-disciplinary group of student designers (interior, architecture, engineering, and urban design), who wish to use their newly developed design skills towards community projects.

For our first community project, we are working with the Parachute Factory. The project is to build a handicap access ramp and entrance which includes a deck, stairs, and new door. Also, we will have to hire a master electrician to remove and relocate an electrical panel that is stationed where the proposed ramp will be.

Our contact is Sarah Brown, who is a Digital Media and Printmaking Instructor at the University of Kentucky and is the Cofounder and Gallery Director of the Parachute Factory. For the last few years, The Parachute Factory's goal is to build a ramp. They have sought out professional help; however, the costs to design and build by professional designers are expensive.

As of right now, we have the original iterative construction drawings and artist renderings drawn by Gray Construction. We the Design Society have completed the first draft of the estimate and material inventory needed to construct the ramp, deck, stairs, and new door.

The Design Society will start drawing the final construction documents for the ramp, deck, and stairs. We do have a licensed Architect, Bruce Swetnam, who will be overseeing and giving the final architectural stamp.

The Environmental Stewardship Fee is a \$4 per semester student tuition fee. Given that the SSC is in charge of distributing these funds, please describe your project's plan to maximize student impact:

Half of the staff at the Parachute Factory are professors at the University of Kentucky. In addition, the organization offers internship opportunities to Art and Design students.

Please list all groups that your project is intended to impact (Faculty/Staff, Graduate Students, Lexington Community, Undergraduate Students, UK Community as a Whole):

Lexington Community and the UK Community as a whole.

Please select the type of project that best describes your project. Mark all that apply:

- ☐ Campus Infrastructure
- ☐ Conference
- ☐ Career Development
- ☐ Education
- ☐ Award
- ☐ Research
- ☐ Seminar/Speaker Series
- ☒ Other: Community Project

Please select up to three disciplinary categories that best describe your project:

- ☐ Agriculture/Food Systems
- ☒ Arts/Architecture
- ☐ Campus Sustainability
- ☐ Economics/ Behavior
- ☐ Engineering
- ☐ Entomology
- ☒ SSC- External

- ☐ Forestry/Gardening/Landscaping
- ☐ SSC- Internal
- ☐ Recycling/ Waste Management
- ☐ Solar Energy
- ☐ Water Conservation
- ☒ Other: Non-profit

The SSC is always seeking further outreach opportunities. Please place an X next to one or all of the following with your project to help us reach more people:

Green Talks Radio segment (recommended)
Feature SSC logo on promotional material X
Social Media Promotion
Other

Does this project require the approval of any outside or UK entity (Yes/No)?

Building permits are required from city. The city approved the ramp project when Gray Construction was going to build it. All we need to do is resubmit new drawings with update architect.

**** If yes, please include documentation of support at the end of this document.**

Have this, or any related project, been funded by the SSC in this or previous years (Yes/No)?: If Yes, explain how this project differs from previously funded projects. Projects deemed as repeat projects by the council will be subject to the funding requirements under Article VII Section H of the SSC Constitution.

Please attach out an itemized budget for your project or complete the table below.

| Category | | | |
|------------------------|----------------------------------|------------------|---------|
| Material | 4"x4" | 18' | \$24 |
| | 2"x8" | 220' | \$303 |
| | 2"x6" | 130 - 10' boards | \$1,000 |
| | Safety Tread | | \$130 |
| | Fasteners / 3" deck screws | 3 boxes | \$90 |
| | Post bases | | \$187 |
| | Brackets | | \$42 |
| | Railing | | \$78 |
| | Ballasts | | \$140 |
| | Wood Paneling | | \$150 |
| | Corrugated Plastic Paneling | | \$200 |
| | Hinges | | \$30 |
| | Door | | \$250 |
| | Outdoor LED lighting and channel | | \$250 |
| *Electrical Contractor | Electrical work | | \$3,000 |
| *Building permits | Permits | | \$1,000 |
| | | | |
| | | Estimated total: | \$6,874 |

Are you willing to accept partial funding for this proposal? Yes

Please describe who will be in charge of dispensing the funds. If it is not a UK department, how will the funds be dispensed?:

-The College of Design – Kimberly Light - kimberly.light1@uky.edu

Does this project have any additional funding partners? If so, please list them and briefly describe their contribution and involvement:

The Parachute Factory is fundraising; however, their contribution at this point is not sufficient to jump start the project. The Parachute Factory will continue fundraise and contribute what they are able to. If the Design Society receives contribution from the Parachute Factory or receives funding from other sources, we will return that amount received from other funding sources back to SSC.

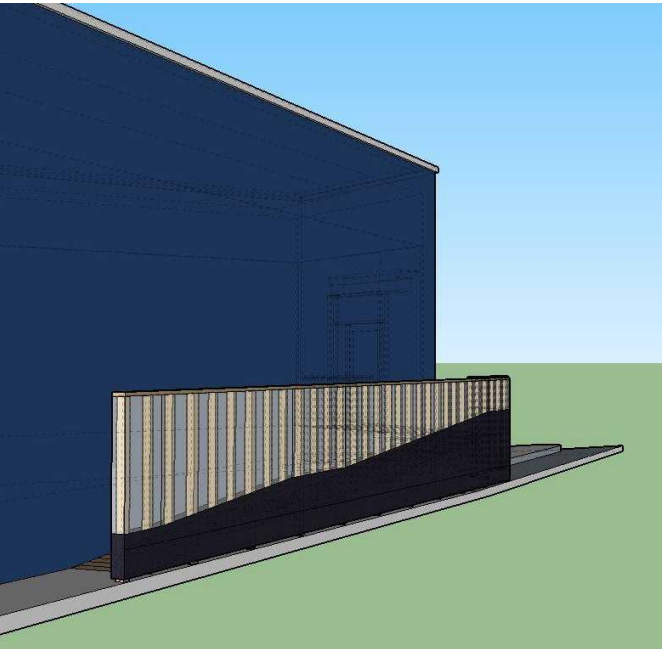
Use table below to provide a list of the major milestones of your project. This should include all relevant events to your proposals, such as dates for completion of key presentations and/or equipment purchases. Include project start and completion dates.

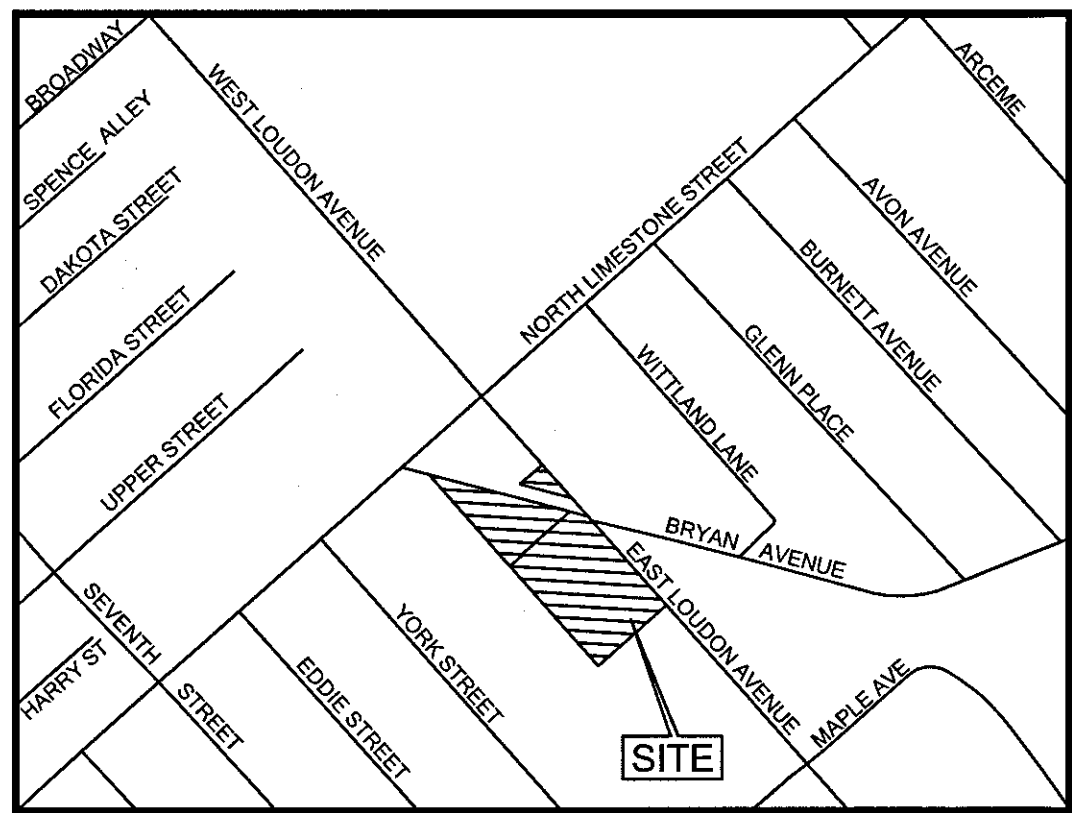
| Date | Event Title | Brief Description |
|----------------------------|---|--|
| October, 2019 | Field & Client visit | Site visit to Parachute Factory to take measurements of the site and structure. |
| November '19 – January '20 | Estimate | Development of fabrication strategy and cost estimate |
| February | Per-construction schematics and permits | Complete construction documents, obtain building permits, and finish final digital model |
| March | Construction | Being prefabricating structural elements of the ramp off-site |
| March - April | Construction | Within a three-day – S, M, & T between 3/18 to 4/10 being construction of ramp. |

If your project timeline is greater than a month, please provide a date around the middle of the project when sufficient progress will have been made to update the SSC.:

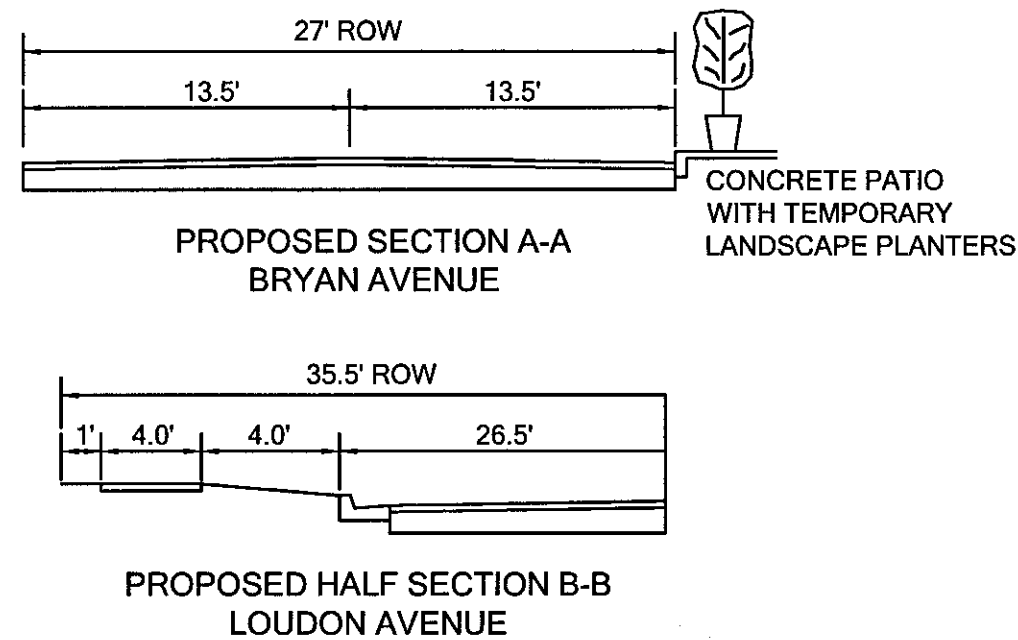
**** Please attach supporting documents such as promotional material, letters of collaborative funding, or a budget spreadsheet, in addition to the budget provided previously. If you are working in partnership with a UK entity such as the Physical Plant Division, an academic department, etc., their letter of support should be uploaded here as well. Please only attach documents necessary to your proposal, so documents such as individual resumes or cover letters should not be included. All supporting documents should be in PDF format.:**

**** Please email your completed application to ukstudentsustainabilitycouncil@gmail.com**





VICINITY MAP
N.T.S.



TREE PROTECTION PLAN NOTES:

1. TPA'S SHALL BE FENCED WITH A MINIMUM OF 3' TALL FENCING LOCATED ALONG THE DRIPLINE OF THE TREE CANOPY WITH SIGNS POSTED EVERY 100 FEET THAT READ "TREE PROTECTION AREA". WRITTEN APPROVAL OF THE INSTALLED FENCING BY THE URBAN COUNTY FORESTER (U.F.) SHALL BE OBTAINED PRIOR TO ISSUANCE OF LFUG PERMITS OR OTHER CONSTRUCTION ACTIVITY. THE FENCE SHALL BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE PROJECT AND SHALL NOT BE MOVED WITHOUT PRIOR PERMISSION OF THE U.F. NO TREE REMOVAL, GRUBBING, OR CLEARING IN THE TPA SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE U.F.
2. ALL OTHER REQUIRED TREES SHALL CONFORM TO THE LFUG PLANTING MANUAL. ALL TREES SHALL BE PLANTED A MINIMUM OF TEN FEET FROM BUILDINGS. TREES TO BE LOCATED WITHIN UTILITY EASEMENTS MUST FIRST CALL KENTUCKY UNDERGROUND CALL BEFORE YOU DIG 1-800-752-6007.
3. THE SOILS IN THE AREA OF THE SITE ARE MIB AS PER THE SOIL SURVEY FOR FAYETTE COUNTY, KENTUCKY PUBLISHED BY THE USA DEPARTMENT OF AGRICULTURE ISSUED 1968.
4. THE IS NOT A TREE GENERA FOR THIS SITE
5. SOIL TYPES ARE BASED ON THE UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE SOIL SURVEY OF FAYETTE COUNTY, KENTUCKY.

NOTES

1. THIS DEVELOPMENT PLAN MAY BE AMENDED WITH THE APPROVAL OF THE PLANNING COMMISSION.
2. ACCESS SHALL BE LIMITED AS INDICATED ON THIS PLAN.
3. STORMWATER MANAGEMENT AND SANITARY SEWERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE DIVISION OF ENGINEERING MANUALS.
4. NO GRADING, STRIPPING, EXCAVATION, FILLING OR OTHER DISTURBANCES OF THE NATURAL GROUND COVER SHALL TAKE PLACE PRIOR TO APPROVAL OF AN EROSION CONTROL PLAN. SUCH PLAN MUST BE SUBMITTED IN ACCORDANCE WITH CHAPTER 16 OF THE CODE OF ORDINANCES.
5. DETAILED DESIGN GEOMETRY OF ENTRANCES SHALL MEET THE APPROVAL OF THE URBAN COUNTY TRAFFIC ENGINEER.
6. SCREENING AND LANDSCAPING SHALL BE PROVIDED AS REQUIRED BY ARTICLE 18 OF THE LFUG ZONING ORDINANCE AND ARTICLE 6-10 OF THE LFUG LAND SUBDIVISION REGULATIONS.
9. THIS DEVELOPMENT PLAN SHALL NOT BE USED AS A BASIS FOR SALE OF THIS PROPERTY.
10. SURVEY INFORMATION PROVIDED BY RANDY MARTIN.
11. SIGNAGE SHALL BE IN ACCORDANCE WITH ARTICLE 17 OF THE LFUG ZONING ORDINANCE.
12. THIS PLAN IS FILED AS AN ADAPTIVE REUSE PROJECT SHOWN IN ARTICLE 8-21 WHOLESALE AND WAREHOUSE BUSINESS (B-4) ZONE OF THE LFUG ZONING ORDINANCE.
13. THE LOCATION OF FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS, OR FIRE SERVICE FEATURES IF REQUIRED, SHALL BE APPROVED BY THE DIVISION OF FIRE WATER CONTROL OFFICE.
14. PARKING FOR 130 LOUDON AVENUE WILL BE PROVIDED AT 720 BRYAN AVENUE. ADDITIONAL PARKING FOR FUTURE USES AT 720 BRYAN AVENUE WILL BE PROVIDED OFF SITE AT THE TIME OF SITE RE-DEVELOPMENT.

OWNER'S CERTIFICATION

I (WE) DO HEREBY CERTIFY THAT I AM (WE ARE) THE ONLY OWNER(S) OF THE PROPERTY SHOWN HEREON, DO FULLY AGREE TO ALL GRAPHIC AND TEXTUAL REPRESENTATIONS SHOWN HEREON, AND DO ADOPT THIS AS MY (OUR) DEVELOPMENT PLAN FOR THIS PROPERTY.

OWNER: *Chris Hark* DATE: *11/10/16*
OWNER: *Chris Hark* DATE: *11/10/16*

COMMISSION'S CERTIFICATION

I DO HEREBY CERTIFY THAT THIS DEVELOPMENT PLAN WAS APPROVED BY THE URBAN COUNTY PLANNING COMMISSION AT ITS MEETING HELD ON *OCTOBER 13, 2016*.

PLANNING COMMISSION SECRETARY: *Wm. J. Belcher* DATE: *11/17/17*

SITE STATISTICS:

| 130 LOUDON AVENUE | |
|-------------------------|---|
| PROPOSED USE: | RESTAURANT |
| EXISTING ZONE: | LIGHT INDUSTRIAL (I-1) |
| AREA OF SITE: | 7,218.29 S.F. (0.166 AC.) |
| GROSS: | 2,654.30 S.F. (0.061 AC.) |
| NET: | 786.77 S.F. |
| AREA OF BLDG.: | 29.6% |
| LOT COVERAGE: | 29.6% |
| FLOOR AREA RATIO: | 15' |
| BUILDING HEIGHT: | 1 |
| NUMBER OF LOTS: | 1 |
| PARKING: | |
| REQUIRED: | 3 SPACES |
| (DETERMINED BY SEATING) | (20 INDOOR SEATS @ 1 SPACE / 4 SEATS) (8 OUTDOOR SEATS @ 1 SPACE / 8 SEATS) (50% REDUCTION) |
| PROPOSED: | 3 SPACES (OFF-SITE) |
| 720 BRYAN AVENUE | |
| EXISTING USE: | RETAIL (10,944.87 S.F.) COMMUNITY SPACE (1,200 S.F.) |
| EXISTING ZONE: | LIGHT INDUSTRIAL (I-1) |
| AREA OF SITE: | 23,400.01 S.F. (0.537 AC.) |
| GROSS: | 19,481.50 S.F. (0.447 AC.) |
| NET: | 12,144.87 S.F. |
| AREA OF BLDG.: | 62.3% |
| LOT COVERAGE: | 62.3% |
| FLOOR AREA RATIO: | 23' |
| BUILDING HEIGHT: | 1 |
| NUMBER OF LOTS: | 1 |
| PARKING: | |
| REQUIRED: | 18 SPACES |
| RETAIL | (15 SPACES) (10,000 S.F. / 400 + 944.87 S.F. / 200) (30 SPACES / 50% REDUCTION) |
| COMM. CTR. | (3 SPACES) (5 SPACES + 1 SPACE / EMPLOYEE) (6 SPACES / 50% REDUCTION) |
| EXISTING: | 13 SPACES |

SITE STATISTICS TOTALS:

| | |
|-------------------|--------------------------------------|
| PROPOSED USE: | RESTAURANT, RETAIL & COMMUNITY SPACE |
| EXISTING ZONE: | LIGHT INDUSTRIAL (I-1) |
| AREA OF SITE: | 30,618.30 S.F. (0.703 AC.) |
| GROSS: | 22,135.80 S.F. (0.508 AC.) |
| NET: | 12,931.64 S.F. |
| AREA OF BLDG.: | 58.4% |
| LOT COVERAGE: | 58.4% |
| FLOOR AREA RATIO: | 15' |
| BUILDING HEIGHT: | 2 |
| NUMBER OF LOTS: | 2 |
| PARKING: | |
| REQUIRED: | 16 SPACES |
| PROPOSED: | 16 SPACES |

TREE CANOPY SITE STATISTICS:

| 130 LOUDON AVENUE | |
|--------------------------------------|------------------------|
| SITE AREA: | 2,654.30 SQ.FT. |
| REQUIRED TREE CANOPY COVERAGE (10%): | 265 SQ.FT. |
| EXISTING TREE CANOPY COVERAGE: | 0.00 SQ.FT. |
| PRO TREE: | |
| LARGE TREES: | 750 SQ.FT. (1 x 750) |
| TOTAL TREE CANOPY COVERAGE (12%): | 750 SQ.FT. |
| 720 BRYAN AVENUE | |
| SITE AREA: | 19,481.50 SQ.FT. |
| REQUIRED TREE CANOPY COVERAGE (10%): | 1,948.15 SQ.FT. |
| EXISTING TREE CANOPY COVERAGE: | 0.00 SQ.FT. |
| PRO TREE: | |
| LARGE TREES: | 2,250 SQ.FT. (3 x 750) |
| TOTAL TREE CANOPY COVERAGE (12%): | 2,250 SQ.FT. |

DEVELOPER

KENTUCKY FOR KENTUCKY
GRIFFIN VANMETER
720 BRYAN AVENUE
LEXINGTON, KY 40505

GRAPHIC SCALE: 1" = 20'
0' 20' 40' 60'

LOUDON PARK ADDITION
BLOCK 2, LOTS 3-10

130 LOUDON AVE. D.B. 3357 PG. 211
720 BRYAN AVE. P.C. "E" SL. 31 LOT 4 BLK 2
LEXINGTON, FAYETTE COUNTY, KENTUCKY

FINAL DEVELOPMENT PLAN

S. Mark McCain, RLA
LANDSCAPE ARCHITECTURE / SITE DEVELOPMENT
3213 SUMMIT SQUARE PLACE, LEXINGTON, KENTUCKY 40509
PHONE: (859) 489-8821 EMAIL: SWARKMCCAIN@GMAIL.COM

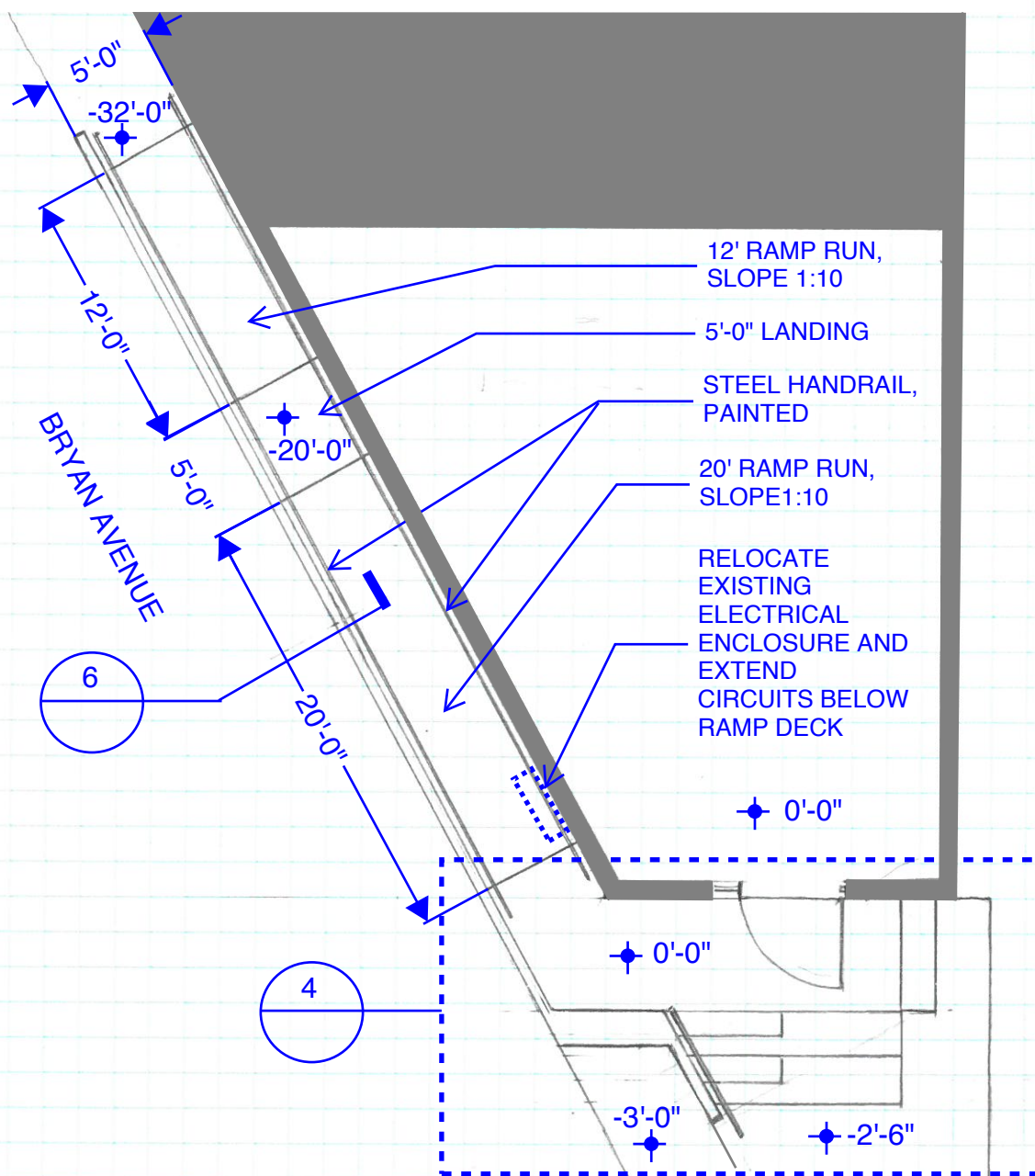
| | |
|-------------|----------|
| JOB NO: | 2016.15 |
| DATE: | 10/03/16 |
| DRAWN BY: | SMM |
| CHECKED BY: | SMM |

| REVISIONS | |
|-----------|--|
| 10/10/16 | |
| 10/19/16 | |
| | |
| | |
| | |
| | |

SHEET

DP 2016-12

← NORTH



1 RAMP PLAN

4' X 7' HM DOOR AND FRAME,
PANIC HARDWARE,
TEMPERED GLAZING,
EXISTING MASONRY
OPENING, GROUT FRAME
AND ADJACENT CMU CELLS

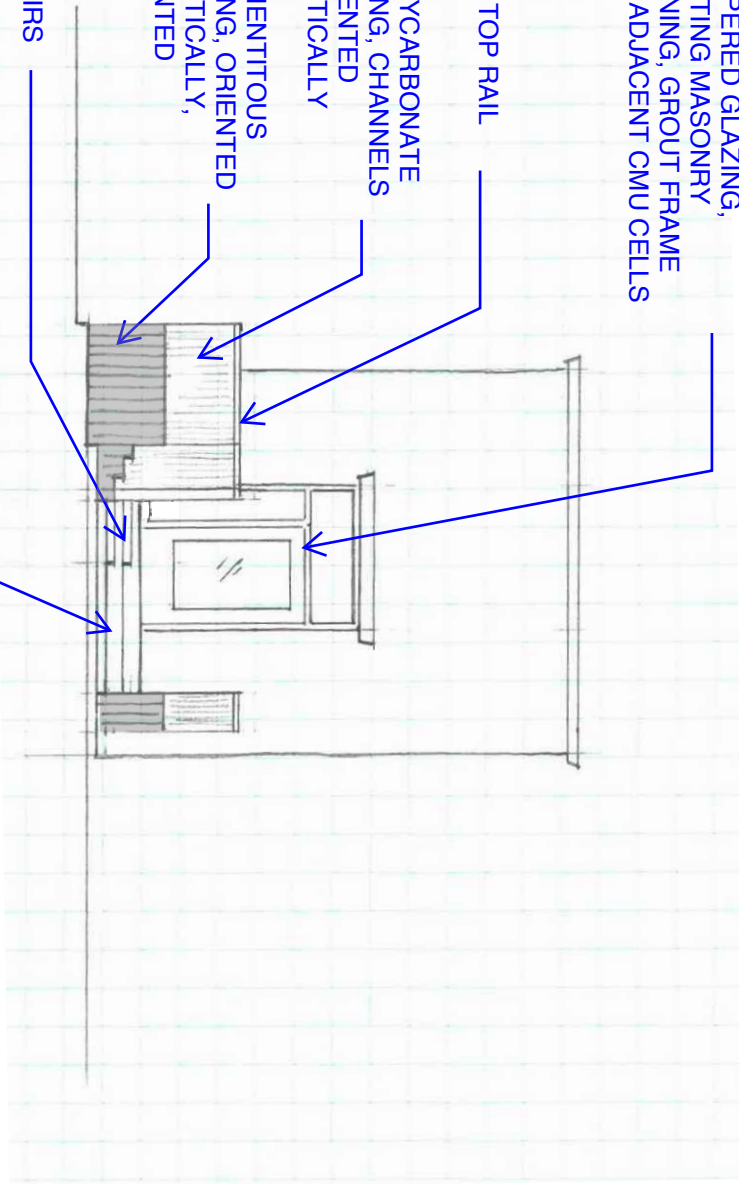
P.T. TOP RAIL

POLYCARBONATE
SIDING, CHANNELS
ORIENTED
VERTICALLY

CEMENTITIOUS
SIDING, ORIENTED
VERTICALLY,
PAINTED

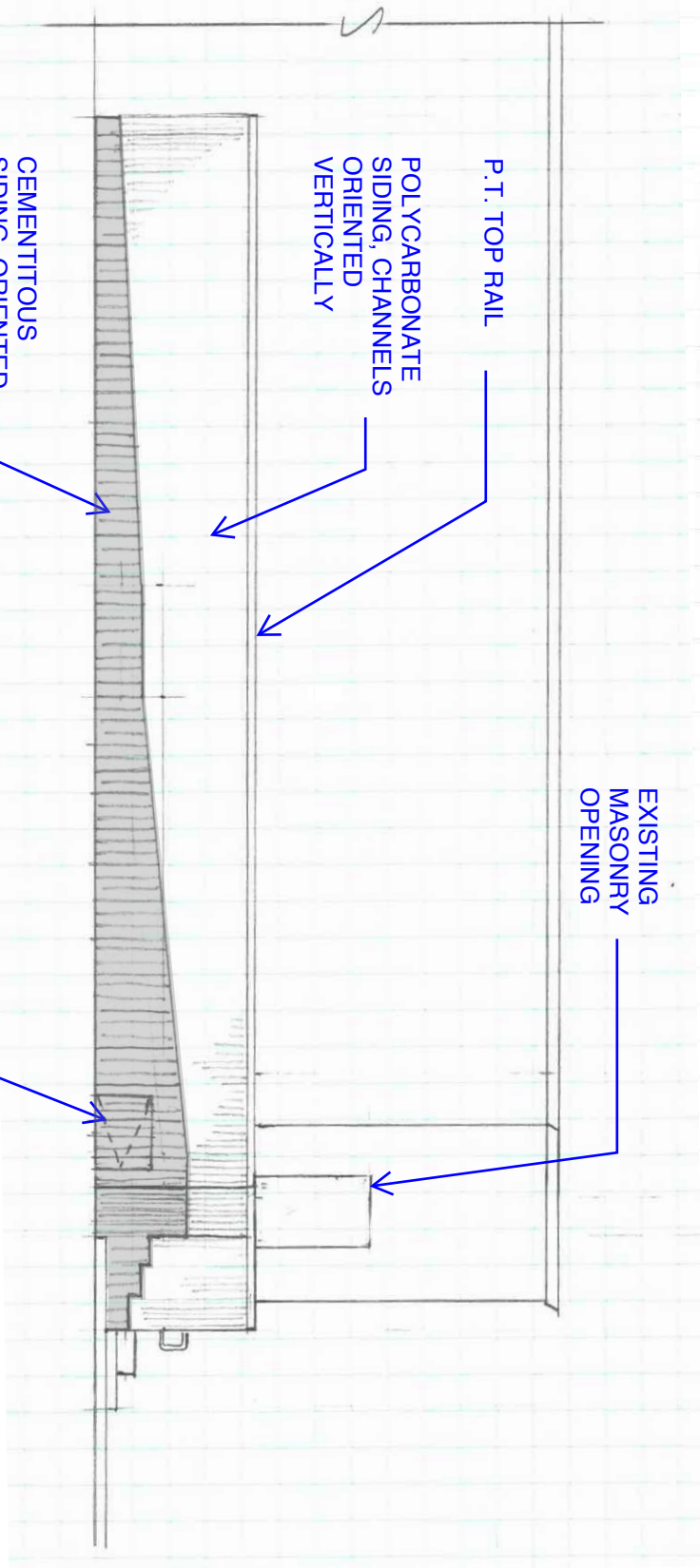
STAIRS

SEATING AREA



2

WEST ELEVATION



3

NORTH ELEVATION

HM DOOR AND FRAME, PANIC HARDWARE,
EXISTING MASONRY OPENING

STEEL HANDRAIL,
PAINTED

1:10 SLOPE

P.T. TOP
RAIL

STEEL
HANDRAIL,
PAINTED

P.T. STAIRS

P.T. SEATING AREA

13'-4"

1'-6"

5'-0"

9'-0"

8'-0"

9'-0"

4'-5"

11'-0"

4

ENTRY STAIR PLAN

STEEL HANDRAIL, PAINTED

P.T. TOP RAIL

POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY

CEMENTITIOUS
SIDING, ORIENTED
VERTICALLY,
PAINTED

6'-6"

2'-6"

5 RISERS, 0'-6" EACH

1'-0"

4 TREADS, 1'-0" EACH

4'-0"

3'-1"

4'-0"

P.T. FRAMING
AND DECKING

LINE OF EXISTING STAIRS

P.T. FRAMING ATTACHED TO EXISTING CMU
WALL WITH MASONRY ANCHORS

5 STAIR SECTION

P.T. TOP RAIL

POLYCARBONATE
FLASHING

16" LED WEATHER
EXTERIOR RATED LIGHT
FIXTURE ROUTED TO
EXISTING LIGHTING PANEL

STEEL HANDRAIL,
PAINTED

0'-1 1/2"

POLYCARBONATE
SIDING, CHANNELS
ORIENTED
VERTICALLY

POLYCARBONATE
SIDING, CHANNELS
ORIENTED
VERTICALLY

P.T. DECKING
AND FRAMING

POLYCARBONATE
FLASHING

CEMENTITIOUS
SIDING, ORIENTED
VERTICALLY,
PAINTED

4X4 P.T. FRAMING

ADJUSTABLE SIMPSON
POST ANCHOR ATTACHED
TO EXISTING CONCRETE

SIMPSON JOIST
ANCHOR

Funding Application

Before beginning the application process, please verify that you understand the terms and conditions for receiving funding from the SSC:

- The SSC cannot apply retroactive funding, all budget items must occur after the meeting date where the proposal is reviewed.
- Proposals are accepted on a rolling basis and the due date for consideration at each meeting is one week prior to that meeting.
- If approved, the project leader has twelve months to spend the funds. If the project requires an extension beyond this timeline, the project leader will need to submit an extension request.
- The money disbursed from this fund comes from student fees, so sustainability-related student impact is a necessary component for any proposal.
- Presenting the project to the Council is mandatory.
- In order to preserve the Council's ability to effectively review and consider proposals we are limited in the amount of proposals we may review per meeting. In the case that more proposals are received than can be reviewed for a given meeting, Council directors will decide which proposals are heard based on project timeline and order of submission.

I verify that I understand and accept these terms and conditions (please write Yes): Yes

Project title: Tree Week 2020, October 10-17

Tree Week celebrates Lexington's trees and all the ways in which trees positively affect our lives. Our successes in 2018 (60 registered events) and 2019 (68 events) has encouraged UFI to continue the Tree Week tradition.

Project leader name: Lynne Rieske-Kinney, Urban Forest Initiative (UFI)

Project leader email: Lrieske@uky.edu

Project leader additional contact information:

Lynne Rieske-Kinney (Prof, Dept of Entomology; Lrieske@uky.edu)

Mary Arthur (Prof., Forestry; marthur@uky.edu)

Chris Sass (Assoc. Prof, LA; chris.sass@uky.edu)

Total amount requested from the Council (round up to the nearest whole number): \$9,551

UK affiliation (Student, Faculty or Staff): Faculty

Please fill out the following information about yourself and any other individuals involved on the project. Previous involvement with the SSC may include membership, funding requests, or involvement with an organization affiliated with the SSC. Answer to the best of your knowledge.

Please list the following information: The UFI core team

| Name | Major/Department | Previous involvement with SSC |
|---------------------|--|---------------------------------|
| Mary Arthur | UFI co-Lead and Professor, Dept of Forestry | Funding requests |
| Lynne Rieske-Kinney | UFI co-Lead and Professor, Dept of Entomology | Funding requests |
| Chris Sass | UFI co-Lead and Assoc Professor, Landscape Arch. | |
| Nic Williamson | UFI Coordinator | |
| Bryan Kist | UFI Outreach and Tree Inventory Supervisor | |
| Cameron Luker | UFI intern | Current member; Funding request |

How did you hear about the SSC?:

UFI has had many SSC members (current and past) as interns, in training workshops, and at various events. We've been very fortunate to have SSC support in the past.

Describe how your project relates to the three pillars of sustainability (environmental stewardship, economic equity, and social inclusion):

Many Tree Week events directly address the three pillars of sustainability. For instance, in 2018 UFI sponsored a Tree Week tree mulching event in Duncan Park, a city park in a high needs area on Lexington's north side, where UK students worked side-by-side with neighborhood residents to care for Lexington's urban tree canopy, demonstrating environmental stewardship, economic equity, and social inclusion. UFI has similarly sponsored mulching events with neighborhood engagement in Castlewood Park in 2017 and 2019. These community events bridge the three pillars of sustainability, in addition to the many other UFI-associated activities that include community support. We anticipate similar offerings in Tree Week 2020.

Please provide an in depth description of your project:

Tree Week was created in 2018 to celebrate Lexington's trees and all the ways in which trees positively affect our lives. During the inaugural Tree Week there were over 60 registered activities, and although we didn't track attendance, we do know that these activities engaged hundreds of attendees from the UK campus and greater Lexington communities. In 2019 we grew. Tree Week 2019 registered 68 events from 30 different sponsoring entities, and with about 1500 attendees. Many of these attendees were from the campus community, and at least 80 were UK students. [See supporting documents and visit <https://ufi.ca.uky.edu/>].

Since its inception, UFI has provided significant support for Tree Week in the form of infrastructure and personnel, including web site development and maintenance, solicitation and registration of event hosts, development of an interactive event map, recruitment of volunteers, soliciting attendees, and tracking events and engagement. This proposal requests funds to support Tree Week 2020.

We request funds to support our UFI Outreach and Tree Inventory Supervisor, Bryan Kist, who spends significant time in support of Tree Week development and implementation. We are requesting monies to cover Bryan's salary (hourly rate + benefits) for his Tree Week associated effort leading up to, during, and following Tree Week. We also request additional funds to support development of miscellaneous promotion materials.

The Environmental Stewardship Fee is a \$4 per semester student tuition fee. Given that the SSC is in charge of distributing these funds, please describe your project's plan to maximize student impact:

All UFI activities, including Tree Week, are heavily reliant on student engagement. We will continue to engage the SSC, the UK student body, and the greater campus community in all our activities.

Please list all groups that your project is intended to impact (Faculty/Staff, Graduate Students, Lexington Community, Undergraduate Students, UK Community as a Whole):

The UK community, including students (undergrad and grad), staff, faculty; UK operations; the Lexington community.

Please select the type of project that best describes your project. Mark all that apply:

- ☒ Campus Infrastructure
- ☒ Conference
- ☒ Career Development
- ☒ Education
- ☐ Award
- ☐ Research
- ☐ Seminar/Speaker Series
- ☐ Other: _____

Please select up to three disciplinary categories that best describe your project:

- ☐ Agriculture/Food Systems
- ☐ Arts/Architecture
- ☒ Campus Sustainability
- ☐ Economics/ Behavior
- ☐ Engineering
- ☐ Entomology
- ☐ SSC- External
- ☒ Forestry/Gardening/Landscaping
- ☐ SSC- Internal
- ☐ Recycling/ Waste Management

☐ Solar Energy☐ Water Conservation☒ Other: Community engagement

The SSC is always seeking further outreach opportunities. Please place an X next to one or all of the following with your project to help us reach more people:

X Green Talks Radio segment (recommended)

X Feature SSC logo on promotional material

X Social Media Promotion

Other

Does this project require the approval of any outside or UK entity (Yes/No)?

**** If yes, please include documentation of support at the end of this document.**

No.

Have this, or any related project, been funded by the SSC in this or previous years (Yes/No)?

The SSC has supported various UFI projects in the past; including help sponsoring the UFI seminar series, and support for our TreeCats workshops that engage students interested in educating and involving themselves in the urban tree canopy. This is our first request for Tree Week support, and we ask for monies to cover the considerable time spent by our UFI Outreach and Tree Inventory Supervisor, Bryan Kist, in Tree Week-associated activities (see itemized budget). We also request monies to support miscellaneous purchases associated with supporting Tree Week activities, including paper, copying, signposts, etc.

UFI does not have an established funding stream or a set budget, and Tree Week has no funding. We receive support in the form of personnel and partnerships from the Kentucky Division of Forestry and Lexington-Fayette Urban County Government. The larger UFI working group is also supportive of Tree Week activities by registering their events.

Please attach out an itemized budget for your project or complete the table below.

| SSC budget proposal for Tree Week 2020 support | | | | | |
|--|---------------------|--------|---------|-----------|-------------|
| Dates | Descriptions | hrs/wk | no. wks | total hrs | |
| Apr 01-Jun 30 | Pre-planning | 10 | 13 | 130 | |
| Jul 01-Aug 15 | Planning | 20 | 6 | 120 | |
| Aug 16-TW (Oct 10-17) | Implementation | 30 | 9 | 270 | |
| TW-Nov 15 | Post TW assessments | 10 | 4 | 40 | |
| | | | | | Rate |
| | | | | 560 | \$15.27 |

| | | | | | |
|----------------------|--|--|--|--|----------------|
| | | | | | |
| Personnel | | | | | \$8,551 |
| Misc. supplies | | | | | \$1,000 |
| Total request | | | | | \$9,551 |

Are you willing to accept partial funding for this proposal? Yes

Please describe who will be in charge of dispensing the funds. If it is not a UK department, how will the funds be dispensed?:

Lynne Rieske-Kinney and Mary Arthur will oversee dispersing funds. Funds will be housed in the Department of Entomology.

Does this project have any additional funding partners? If so please list them and briefly describe their contribution and involvement:

All UFI core team activities are funded by grants; UFI does not have an established funding stream or a set budget, and Tree Week is not funded. However, we receive tremendous support in the form of personnel and partnerships from the Kentucky Division of Forestry and Lexington-Fayette Urban County Government, and other entities. We were also fortunate to receive Tree Week 2019 funding support from the Lexington Tree Board (\$500). The larger UFI working group is also supportive of Tree Week activities by offering input and registering their events.

Use table below to provide a list of the major milestones of your project. This should include all relevant events to your proposals, such as dates for completion of key presentations and/or equipment purchases. Include project start and completion dates.

| SSC timeline for Tree Week 2020 support | | | | |
|---|---|--------|---------|-----------|
| Dates | Descriptions | hrs/wk | no. wks | total hrs |
| Apr 01-Jun 30 | Pre-planning (monthly meetings) | 10 | 13 | 130 |
| Jul 01-Aug 15 | Planning (bi-monthly meetings soliciting TW event hosts) | 20 | 6 | 120 |
| Aug 16-TW (Oct 10-17) | Implementation (continue soliciting event hosts; advertising; recruiting volunteers; interactive map; soliciting attendees) | 30 | 9 | 270 |
| TW-Nov 15 | Post TW assessments | 10 | 4 | 40 |
| | | | | |
| | | | | 560 |

If your project timeline is greater than a month, please provide a date around the middle of the project when sufficient progress will have been made to update the SSC.:

We will update the SSC at the beginning of the academic year (immediately in advance of TW 2020).

** Please attach supporting documents such as promotional material, letters of collaborative funding, or a budget spreadsheet, in addition to the budget provided previously. If you are working in partnership with a UK entity such as the Physical Plant Division, an academic department, etc., their letter of support should be uploaded here as well. Please only attach documents necessary to your proposal, so documents such as individual resumes or cover letters should not be included. All supporting documents should be in PDF format.:

** Please email your completed application to ukstudentsustainabilitycouncil@gmail.com

Tree Week Sponsors



FOR MORE DETAILS, VISIT:
UFI.CA.UKY.EDU/TREEWEEK2018

THURSDAY, OCTOBER 13TH (CONT.)

7:00 PM Living With Ancient Trees in Lexington
3080 Fieldstone Way | Beaumont Library
Lexington Public Library

FRIDAY, OCTOBER 12TH

9:00 AM – 11:00 AM Empowering Communities to Lead Sustainable Urban Tree Initiatives
203 E Fourth St | Episcopal Mission House
Lissa Pohl

10:30 AM Movers & Shakers Storytime
3628 Walden Dr | Bates Creek Library
Lexington Public Library

1:30 PM – 2:30 PM Prescription for Nature
730 Rose St | Thomas Poe Cooper Bldg
Brianna Damron, Urban Forest Initiative

6:00 PM – 9:00 PM Holler for the Trees
161 N. Mill St | ArtsPlace Performance Hall
Eric Sutherland

7:00 PM – 9:00 PM You, Me, & Rumi
300 E Third St | Lyric Theatre
Lakshmi Sriraman

SATURDAY, OCTOBER 13TH

ALL DAY Kentucky Tree Climbing Championship
120 Sycamore Rd | Ashland Estate
Jesse Hesley

10:00AM – 11:30AM "FernGully: The Last Rainforest"
140 E Main St | Central Library,
Farish Theater
Lexington Public Library

10:00AM – 11:30AM The Forest for the Trees
3885 Raven Run Way
Raven Run Nature Sanctuary

11:00 AM Family Storytime
140 E Main St | Central Library
Lexington Public Library

11:00 AM – 2:00 PM

Take Care of Duncan Park's Trees
Duncan Park
Urban Forest Initiative

12:00 PM – 3:00 PM

Tour des Trees Lexington
800 N Limestone | Broomwagon
Bikes + Coffee
LFUCG Urban Forestry

2:00 PM – 6:00 PM

Party for the Pumpkins
500 Alumni Dr | UK-LFUCG Arboretum
UK-LFUCG Arboretum

6:00 PM – 9:00 PM

Tree Week Party
501 W 6th St #100 | The Barrel
Room at West 6th Brewing
Urban Forest Initiative

SATURDAY, OCTOBER 14TH

11:00AM – 12:00PM

Yoga Amongst the Trees at Ashland
120 Sycamore Rd | Ashland Estate
Yoga at Ashland

2:00 PM

Happy Little Trees:
Paint Along with Bob Ross
140 E Main St | Central Library
Lexington Public Library

WEEKLONG EVENTS

Leaf and Tree Identification Scavenger Hunt
Tates Creek Library, Northside Library, & Beaumont
Library

Fayette County Public School Tree Plantings
Clays Mill Elementary, Yates Elementary, William Wells
Brown Elementary, Bates Creek Elementary, Crawford
Middle, Frederick Douglas High School

TreeSnap Tree Week Contest
Visit treesnap.org or download the Tree Snap app!

TREE WEEK 2018 DIRECTORY



OCTOBER 6-14TH

TREE PLANTING
TREE CARE AND TREE BENEFITS
TREES IN ART AND CULTURE
TREES' ROLES IN OUR BODIES,
MINDS + SPIRITS

SATURDAY, OCTOBER 6TH

| | |
|-------------------|--|
| 8:30 AM – 4:30 PM | Sustainable Urban Landscape Symposium 3591 Leestown Rd Locust Trace HS Wild Ones |
| 10:00AM – 1:00PM | Amazing Autumn 500 Alumni Dr KY Children's Garden UK-LFUCG Arboretum |
| 10:00AM – 11:30AM | "FernGully: The Last Rainforest" 140 E Main St Central Library, Farish Theater Lexington Public Library |
| 10:00AM – 12:00PM | UK Campus Tree Planting 685 Sports Center Dr Urban Forest Initiative |
| 4:00PM – 7:00PM | Tree Week Kickoff 610 W 3rd St Blue Stallion Brewery Urban Forest Initiative |

SUNDAY, OCTOBER 7TH

| | |
|-------------------|--|
| 10:00AM | Raven Run 10K & Robin 5K 3885 Raven Run Way Raven Run Nature Sanctuary |
| 11:00AM – 12:00PM | Yoga Amongst the Trees at Ashland 120 Sycamore Rd Ashland Estate Yoga at Ashland |
| 12:00PM – 2:00PM | Balled & Burlapped: How Arborists Plant the Big Guys 1877 Pensacola Dr Pensacola Park Trees Lexington! |
| 1:00PM – 2:30PM | Tree Tour of Lexington Cemetery 833 W Main St Lexington Cemetery Venerable Trees |
| 1:00PM – 4:00PM | Oaks and Hickories of the Palisades: A Tree ID Hike 8000 Elk Lick Falls Rd Floracliff Floracliff Nature Sanctuary |

| | |
|-------------------|--|
| 2:00 PM | Extreme Explorers: Dendrochronology 140 E Main St Central Public Library Lexington Public Library |
| 2:30 PM – 4:00 PM | A Wheelchair Tour of the Trees of Lexington Cemetery 833 W Main St Lexington Cemetery Venerable Trees |
| 3:30 PM – 4:45 PM | Caterpillars...Beyond Monarchs & Woolly Worms 416 Rebmann Lane McConnell Springs City of Lexington |

MONDAY, OCTOBER 8TH

| | |
|---------------------|---|
| 10:00 AM – 11:30 AM | Tree Planting - Growing Lexington's Urban Forest through Community 2044 Deauville Dr LFUCG Urban Forestry |
| 2:00 PM – 3:35 PM | Dr. Seuss' "The Lorax" 140 E Main St Central Library, Farish Theater Lexington Public Library |
| 5:30 PM – 6:30 PM | A Walk with the Trees of Transylvania 300 N Broadway Transy's campus Sarah Bray |
| 5:30 PM – 7:00 PM | The Making of the Kentucky Native Cafe 417 E Maxwell St Kentucky Native Cafe John Michler |
| 6:00PM | Imagination Station: Apple Orchards (in Spanish & English) 2185 Versailles Rd Village Library Lexington Public Library |

TUESDAY, OCTOBER 9TH

| | |
|-------------------|--|
| 10:00AM – 3:00 PM | Revisiting Floracliff’s Old Oaks: A TreeSnap Training and Citizen Science Workshop 8000 Elk Lick Falls Rd Floracliff Floracliff Nature Sanctuary |
|-------------------|--|

| | |
|---------------------|---|
| 11:00 AM – 12:00 PM | Discovering Neighborhood Orchards 245 E. Third St London Ferrill Garden Sean Gladding |
| 12:30PM – 1:00 PM | Poetry & Art Under the Trees 300 N Broadway Transy's Alumni Plaza Simonetta Chochis |
| 1:00 PM | Grow Your Family Tree: Genealogy 101 1733 Russell Cave Rd Northside Library Lexington Public Library |
| 3:00 PM | Play + Learn: Dendrochronology 1733 Russell Cave Rd Northside Library Lexington Public Library |
| 4:00 PM | Extreme Explorers: Dendrochronology 3080 Fieldstone Way Beaumont Library Lexington Public Library |
| 5:00 PM – 6:30 PM | Autumn Trees at The Arboretum (5PM tree planting and 5:30 tree tour) 500 Alumni Dr Visitor Center UK-LFUCG Arboretum |

WEDNESDAY, OCTOBER 10TH

| | |
|-------------------|--|
| 10:00 AM | Tree-Themed Movers & Shakers Storytime 140 E Main St Central Library Lexington Public Library |
| 10:30 AM | Tree-Themed Little Listeners Storytime 3628 Walden Dr Bates Creek Library Lexington Public Library |
| 1:30 PM | Imagination Station: Tree 3080 Fieldstone Way Beaumont Library Lexington Public Library |
| 3:00 PM – 5:00 PM | Conifers of the Lexington Cemetery 833 W Main St Lexington Cemetery Urban Forest Initiative |
| 6:00 PM – 7:00 PM | Tree Walk at Springhouse Gardens 185 Catnip Hill Rd Richard Weber |

| | |
|-------------------|--|
| 6:00 PM – 8:00 PM | Public lecture: Neighborhood Engagement in Planting & Nurturing Urban Trees 300 E Third St Lyric Theatre Urban Forest Initiative & UK Dept of Community & Leadership Development |
| 6:30 PM | DIY Wednesday: Painted Acorns 3080 Fieldstone Way Beaumont Library Lexington Public Library |

THURSDAY, OCTOBER 11TH

| | |
|-------------------|--|
| 10:30 AM | Preschool Play + Learn Storytime 3628 Walden Dr Bates Creek Library Lexington Public Library |
| 11:00 AM | Preschool Play + Learn Storytime 140 E Main St Central Library Lexington Public Library |
| 11:00 AM | Little Listeners Storytime 3000 Blake James Dr Eastside Library Lexington Public Library |
| 1:30 PM | Art Start: Trees 3628 Walden Dr Bates Creek Library Lexington Public Library |
| 3:00 PM | Art Start: Trees 1733 Russell Cave Rd Northside Library Lexington Public Library |
| 5:00 PM – 6:30 PM | Tree Week Magic Hour Hike 8000 Elk Lick Falls Rd Floracliff Floracliff Nature Sanctuary |
| 5:30 PM – 7:00 PM | Tree Planting: Building a Greener Lexington 886 Furlong Dr LFUCG Urban Forestry |
| 6:00 PM | Imagination Station: Apple Orchards 886 Furlong Dr Village Library Lexington Public Library |
| 6:00 PM – 7:00 PM | Health Benefits of Being Outdoors 141 E Main St Downtown Arts Center Greg Davis |



PARTNERS

ASHLAND HENRY CLAY ESTATE * ARBORETUM STATE BOTANICAL GARDEN OF KENTUCKY * BROOMWAGON COFFEE AND BIKES * CARNEGIE CENTER FOR LITERACY AND LEARNING * CRICKETPRESS * DAVE LEONARD TREE SERVICE * FAYETTE COUNTY PUBLIC SCHOOLS * FRIENDS OF THE PARKS IN FAYETTE COUNTY * FLORACLIFF NATURE SANCTUARY * KEEP LEXINGTON BEAUTIFUL * KENTUCKY ARBORISTS ASSOCIATION * KENTUCKY ASSOCIATION FOR ENVIRONMENTAL EDUCATION * KENTUCKY DIVISION OF FORESTRY * KENTUCKY NATIVE PLANT SOCIETY * KENTUCKY NATURAL LANDS TRUST * KENTUCKY WRITERS AND ARTISTS FOR REFORESTATION * LEXARTS * LEXINGTON CEMETERY * LEXINGTON PUBLIC LIBRARY * LEXINGTON TREE BOARD * LFUCG DIVISION OF ENVIRONMENTAL SERVICES * LFUCG URBAN FORESTRY * LFUCG PARKS AND RECREATION * MICHLERS/ KENTUCKY NATIVE CAFE * MCCONNELL SPRINGS * NORTH AMERICAN ASSOCIATION FOR ENVIRONMENTAL EDUCATION * OAKLAND FARM TREES * RAVEN RUN NATURE SANCTUARY * SEEDLEAF * SOUTHLAND PRINTING * SPRINGHOUSE GARDENS * TOWN BRANCH TREE EXPERTS * TRACY FARMER INSTITUTE FOR SUSTAINABILITY AND THE ENVIRONMENT * TRANSYLVANIA UNIVERSITY * TREES LEXINGTON! * UNDER MAIN * UK FOREST HEALTH RESEARCH AND EDUCATION CENTER * UK HORTICULTURE CLUB * UNIVERSITY OF KENTUCKY INTEGRATIVE MEDICINE AND HEALTH * UNIVERSITY OF KENTUCKY DEPARTMENT OF ENTOMOLOGY * UNIVERSITY OF KENTUCKY DEPARTMENT OF FORESTRY AND NATURAL RESOURCES * UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION * URBAN FOREST INITIATIVE * WILD BIRDS UNLIMITED * WILD ONES * WINDBURN COMMUNITY ACTION COUNCIL

Tree Week would not be possible without our partners, and the generous support of LFUCG, Lexington Tree Board, the Barnhart Fund for Excellence, and the Tracy Farmer Institute for Sustainability and the Environment

THURSDAY, OCTOBER 17TH CONT.

- 5:30 PM – 7:30 PM** Art and Nature
140 E. Main St. | Central Library
Chrissie Tune
- 6:30 PM – 7:30 PM** "The Hidden Life of Trees" Book Talk
with Dave Leonard
140 E. Main St. | Central Library
Lexington Public Library
- 6:30 PM – 8:30 PM** Take a Virtual Hike at the Library!
140 E. Main St. | Central Library
Lexington Public Library


FRIDAY, OCTOBER 18TH

- 8:00 AM – 10:00 AM** Urban Forest Bird Walk - Rediscovering
Reforest the Bluegrass
300 W. Reynolds Rd. | Shilito Park
LFUCG
- 8:30 AM – 3:00 PM** Tree Climbing Competition Setup
UK Campus Behind Student Center |
Jesse Hesley
- 12:30 PM – 2:30 PM** Tree Planting
E. Third St. | Isaac Murphy Memorial
Garden
- 4:00 PM – 7:00 PM** Tree Planting and Fall Harvest Festival
at Winburn Community Action Council
1169 Winburn Dr. #A | Windburn
Community Action Council
Christine Smith
- 5:00 PM – 6:30 PM** Managing Trees and Shrubs in a Garden
124 Idle Hour Dr. | Lexington Residence
Beate Popkin

SATURDAY, OCTOBER 19TH

- ALL DAY** Kentucky Tree Climbing Championship 
160 Ave. of Champions | UK Gatton
Student Center Area
Kentucky Arborists Association
- 9:00 AM – 1:00 PM** Trees Out in the Country 
1608 Winchester Rd. Paris, KY | Oakland
Farm Trees
- 10:00AM – 2:00 PM** Neighborhood Replanting of Beaumont
Park
2034 Williamsburg Dr. | Beaumont Park
LFUCG

SATURDAY, OCTOBER 19TH CONT.

- 12:00 PM – 3:00 PM** Oaks of Kentucky Workshop
500 Alumni Dr. | The Arboretum Visitor
Center | The Arboretum
- 5:00 PM – 10:00 PM** Tree Week After Gathering 
417 E. Maxwell St. | Kentucky
Native Cafe

PRE TREE WEEK

- 4:00 PM – 5:00 PM** Planting the Tree Week Tree 
1733 Russell Cave Rd. | Northside
Branch Library | Oct. 11th
- 4:00 PM – 6:00 PM** Peek at Tree Movies
140 E. Main St. | Central Library
Oct. 8th, 9th, and 10th
- 5:00 PM – 8:00 PM** Trees - Gallery Hop Photography Show
166 Market St. | Christ Church Cathedral
Sep. 20th
- 5:30 PM – 6:30 PM** Trees Lexington! and the Pocket
Nursery Program
417 E. Maxwell St. | Kentucky Native
Cafe | Oct. 8th
- 6:30 PM – 8:30 PM** Songfarmers of Lexington Community
Music Jam at Tates Creek Branch
3628 Walden Dr. | Lexington Public
Library Tates Creek Branch | Oct. 10th

WEEKLONG EVENTS

Go See Trees Fall Challenge Scavenger Hunt!
Sep. 28 - Oct. 27 2019 | LFUCG

Fayette County Public School Tree Plantings
Clays Mill Elementary School, Stonewall Elementary
School, Lexington Traditional Magnet School, Dixie
Elementary School, Northern Elementary School
Not Open to the Public

TREE WEEK T-SHIRTS SOLD  - INDICATES TREE
AT EVENTS LISTED IN GREEN WEEK SIGNATURE EVENT

FOR MORE DETAILS, VISIT:
UFI.CA.UKY.EDU/TREEWEEK2019

URBAN FOREST INITIATIVE PRESENTS



2019 EVENTS LEXINGTON, KY OCTOBER 12-19TH

A CELEBRATION OF LEXINGTON'S
TREES AND ALL THE WAYS TREES
IMPACT OUR LIVES

TREE PLANTING
TREE CARE AND TREE BENEFITS
TREES IN ART AND CULTURE
TREES IN OUR MINDS, BODIES AND HEALTH
TREES AND KIDS
TREES IN OUR COMMUNITIES

UFI.CA.UKY.EDU/TREEWEEK2019

SATURDAY, OCTOBER 12TH


- 9:00 AM – 12:00 PM

Bell Court Neighborhood Tree Planting
545 Sayre Ave. | Bell Park
Bridget Abernathy
- 9:00 AM – 12:00 PM

Plant for the Planet 2019 - Meadowbrook Park Planting
372 Harvard Dr. | Meadowbrook Park
LFUCG and Sandy Shafer
- 9:00 AM – 11:30 AM

Bike Tour of Lexington's Greatest Trees
800 N. Limestone | Broomwagon Bikes and Coffee | Tom Kimmerer
- 10:30 AM – 1:30 PM


Mindful Nature Photography in Gratz Park
251 W. Second St. | Gratz Park | Karen Lanier
- 11:00 AM – 2:00 PM

Tree Week Kickoff Celebration 
150 Northland Dr. | Seedleaf Urban Farm
Seedleaf
- 12:00 PM – 3:00 PM

Art in the Neighborhood
1870 Benton Pl. | Marlboro Park
Sisohpromatem Art Foundation, Inc.
- 1:30 PM – 3:00 PM

Lexington Cemetery Tree Walk
833 W. Main St. | Lexington Cemetery
William Fountain
- 3:00 PM – 5:00 PM

Cane Run Tree Planting
1416 Bryan Ave. | Cane Run Greenway
Ryan Koch
- 3:00 PM – 5:30 PM

Castlewood Tree Care and Fun 
201 Castlewood Dr. | Castlewood Park
Urban Forest Initiative
- 7:00 PM – 11:00 PM

Raven House: Pine Mountain Sessions (Night 2)
3229 Raven Cir. | The Raven House
Kentucky Natural Lands Trust

SUNDAY, OCTOBER 13TH

- 11:00 AM – 12:00 PM

Yoga Under the Trees
120 Sycamore Rd. | Henry Clay Estate
Yoga at Ashland

SUNDAY, OCTOBER 13TH CONT.

- 11:00 AM – 2:00 PM

Tree Planting @ The Barn 
1451 University Dr. | The UK Good Barn
Urban Forest Initiative and UK Facilities
Management
- 12:30 PM – 2:00 PM

Church Trees
2025 Bellefonte Dr. | St. Michael's Church
Beate Popkin
- 1:00 PM – 4:00 PM

Trees of the Creek
Pre-registration required at floracliff.org |
Floracliff Nature Sanctuary
- 2:00 PM – 3:00 PM

Tween/Teen Crafternoon: Tree Art @ Central Library
140 E. Main St. | Central Library
Lexington Public Library
- 3:00 PM – 5:00 PM

The Trees of Fairway: A Walking Tour
1609 Fairway Dr. | Fairway Dr./Fairwood Ln.
Median | Beate Popkin
- 6:00 PM – 9:00 PM

KNLT Wildlands Social Club
167 Main St. | 21c Museum Hotel
Kentucky Natural Lands Trust
- 6:45 PM – 8:00 PM

Raven Run Full Hunter's Moon Hike
3885 Raven Run Way | Raven Run
Nature Sanctuary

MONDAY, OCTOBER 14TH

- 8:00 AM – 5:00 PM

Shrubs and Understory Trees of Central and Eastern Kentucky
Pre-registration required at floracliff.org |
Floracliff Nature Sanctuary
- 10:00 AM – 10:30 AM

Baby Jam Story-time: Trees!
140 E. Main St. | Central Library
Lexington Public Library
- 11:00 AM – 11:30 AM

Preschool Play and Learn Story-time: Trees
2185 Versailles Rd. | Village Branch Library
Lexington Public Library
- 12:10 PM – 12:50 PM

Tree ID Walk
458 Huguelet Dr. | Thomas Poe Cooper
Forestry Building | UK Forestry Extension

MONDAY, OCTOBER 14TH CONT.

- 6:00 PM – 7:30 PM

Nut Trees for Homeowners
500 Alumni Dr. | The Arboretum Visitor
Center | The Arboretum
- 6:00 PM – 7:00 PM

DIY Leaf Print Book Tote
140 E. Main St. | Central Library
Lexington Public Library

TUESDAY, OCTOBER 15TH

- 10:00 AM – 2:00 PM

Reforest McConnell Springs
416 Rebmann Ln. | McConnell Springs Park
LFUCG
- 12:10 PM – 12:50 PM

All About Oaks Walk
458 Huguelet Dr. | Thomas Poe Cooper
Forestry Building | UK Forestry Extension
- 3:15 PM – 4:15 PM

Little Life on Trees
416 Rebmann Ln. | McConnell Springs Park
LFUCG
- 5:00 PM – 8:00 PM

Lavish! Art Project Workshop
301 W. 4th St. | Shearer Art Building
Transylvania University
- 5:30 PM – 6:30 PM

New Ideas on Increasing Lexington's Urban Tree Canopy
417 E. Maxwell St. | Kentucky Native
Cafe | Michlers

WEDNESDAY, OCTOBER 16TH

- 10:00 AM – 10:30 AM

Movers and Shakers Toddler Story-time: Trees
140 E. Main St. | Central Library
Lexington Public Library
- 10:30 AM – 11:45 AM

Invasive Plant Species Workshop In the Trees
8291 Old Richmond Rd. | Boone Creek
Outdoors
- 11:00 AM – 12:00 PM


Toddler/Preschool Process Art: Chlorophyll Painting
140 E. Main St. | Central Library
Lexington Public Library

WEDNESDAY, OCTOBER 16TH CONT.

- 12:10 PM – 12:50 PM

Walk With A Doc
458 Huguelet Dr. | Thomas Poe Cooper
Forestry Building | UK Forestry Extension
- 4:00 PM – 5:00 PM

Canvas Creations: Tree Week
1733 Russell Cave Rd. | Northside Library
Lexington Public Library
- 6:00 PM – 7:30 PM

Tree Planting at The Arboretum 
500 Alumni Dr. | The Arboretum Visitor
Center | The Arboretum
- 6:00 PM – 7:30 PM

Tree Walk and Talk in Beautiful Springhouse Gardens!
185 Catnip Hill Rd. | Springhouse Gardens
- 6:00 PM – 8:00 PM

Tree Week Movie: The Lorax
2185 Versailles Rd. | Lexington Public Library
Village Branch, Meeting Room A
- 6:00 PM – 7:45 PM

Tree Health Threats: A Journey Through the Past, Present, & Future
152 N. Locust Hill Dr. | Wild Birds Unlimited
University of Kentucky and Wild Ones Native
Landscape

THURSDAY, OCTOBER 17TH

- 9:00 AM – 11:00 AM

Tree Planting on the Legacy Trail
McGrathiana Pkwy. | McGrathiana Parking
Lot Keep Lexington Beautiful
- 11:00 AM – 11:30 AM

Preschool Play & Learn Story-time: Trees
140 E. Main St. | Central Library
Lexington Public Library
- 12:10 PM – 12:50 PM

Wood Around Campus Walk
458 Huguelet Dr. | Thomas Poe Cooper
Forestry Building | UK Forestry Extension
- 5:00 PM – 7:00 PM

Creative Reflections Hike: A Magic Hour with the Trees
Pre-registration required at floracliff.org |
Floracliff Nature Sanctuary
- 5:00 PM – 8:00 PM

Lavish! Art Project Workshop
301 W. 4th St. | Shearer Art Building
Transylvania University

Funding Application

Before beginning the application process, please verify that you understand the terms and conditions for receiving funding from the SSC:

- The SSC cannot apply retroactive funding, all budget items must occur after the meeting date where the proposal is reviewed.
- Proposals are accepted on a rolling basis and the due date for consideration at each meeting is one week prior to that meeting.
- If approved, the project leader has twelve months to spend the funds. If the project requires an extension beyond this timeline, the project leader will need to submit an extension request.
- The money disbursed from this fund comes from student fees, so sustainability-related student impact is a necessary component for any proposal.
- Presenting the project to the Council is mandatory.
- In order to preserve the Council's ability to effectively review and consider proposals we are limited in the amount of proposals we may review per meeting. In the case that more proposals are received than can be reviewed for a given meeting, Council directors will decide which proposals are heard based on project timeline and order of submission.

By checking the box below, I verify that I understand and accept these terms and conditions.

: Yes

Project title: Quantifying Microplastic Concentration in Campus Soils

Project leader name: Jake Simanek

Project leader email: jsi227@g.uky.edu

Project leader additional contact information:

| Contact type | Contact info |
|--------------|--------------|
|--------------|--------------|

| | |
|-------|------------|
| Phone | 8592218068 |
|-------|------------|

Total amount requested from the Council (round up to the nearest whole number): 631.00

UK affiliation: Student

Please fill out the following information about yourself and any other students involved on the project. Previous involvement with the SSC may include membership, funding requests, or involvement with an organization affiliated with the SSC. Answer to the best of your knowledge.:

| Name | Major(s)/department | Academic year based on projected graduation date | Previous involvement with the SSC |
|--------------|----------------------------|---|--|
| Jake Simanek | NRES/ Ag/ EES | Senior | Member at large, Green Talks Chair |

Jobs funded by the Council should be priced at a livable wage. As one of the three pillars of sustainability, economic sustainability is an important component of any project. The Council aims to fund all jobs at a livable wage. If you are requesting funds for an internship/stipend/etc, please explain how that budget was determined in the framework of economic sustainability.: N/A

Understanding the supply chain for any material purchased is an important component of sustainability. If your project requires materials, please include an explanation of their sourcing.: most of these materials are purchased from VWR or Fisher Scientific Supply. Waste and carbon footprint are unfortunate products of the scientific process, we take every precaution to limit environmental impact and follow safe containment and disposal procedures.

How did you hear about the SSC?: I am a member

Describe how your project relates to the three pillars of sustainability (environmental stewardship, economic equity, and social inclusion).:

This research will inform individuals on campus of an environmental state that is otherwise imperceptible. Raising awareness with the study findings will hopefully inform individual behavior. It is my opinion that exercising the scientific method is one of the most effective ways to acquire information about our environment so that we may intimately know its needs. Soils everywhere are subject to the accumulation of microplastics but perhaps none more than locations where plastic parent material is over-represented. These areas correlate to poverty relative to “cleaner” surrounding areas and it is these areas that are first to suffer the effects. Knowing how microplastic debris behaves in smaller surrogate studies such as this one will help direct future large scale efforts. Information is foundational if we aim to make positive changes.

Please provide an in depth description of your project. You will likely want to copy and paste your response into the text box.:

For my senior research project, I will quantify and compare microplastic accumulation on the University of Kentucky (UK) campus. At the end of each semester, groups of graduates and their families and friends take photographs at three iconic spots on campus, on Rose Street in front of the William T. Young Library, on the corner of Maxwell and Rose streets in front of the stone UK sign, and in front of Memorial Hall. A common practice is to take a photograph where the graduate throws glitter into the air. This act of littering has lasting effects and the shiny fragments of plastic can be seen as a permanent fixture on the ground throughout the year. Due to their versatility, chemical stability, and low production costs, plastics of all types are ubiquitous throughout society. For decades, we have been aware that the chemical stability of these products prevents their break down (or slows it considerably) in the environment, which has now presented a serious and global pollution issue. The large observable material waste is a concern, but another concern is the very small particles. While large waste is easily recognized and can be collected, the weathered debris from this material continues to accumulate on land and in the oceans. Little is known about what long-term affects these materials will have on plant and animal life, but there is research suggesting that small plastic particles can have negative health effects when passively ingested by humans (Wright and Kelly, 2017). Adulterants such as BPA, which is a known endocrine disruptor, are present in many commercially available plastics. Certain metals also readily complex with small plastic particles creating a source of toxic material with poorly defined effect and quantity. Due to many, varied and large sources of plastic parent material that already exists in the environment, it is reasonable to surmise that the generation, transportation and accumulation of microplastics in the environment will all increase over time. Therefore I believe it is important to monitor these anthropogenic additions and the environmental response to them. Microplastics are defined differently by different parties, some classify microplastics as particle debris < 10 mm in diameter (Thompson et al., 2009), while others as particle debris < 1 mm in diameter (Claessens et al., 2011). For the purposes of my study, I have adopted the U.S. National Oceanic and Atmospheric Administration’s (NOAA) definition of microplastics, which are particles < 5 mm in any dimension that originate from petroleum derived polymers (Masura et al., 2015). I have chosen this definition because the NOAA reference is a well vetted collection of adaptable methods for detecting and quantifying microplastics in the environment. This reference also employs

techniques that I am familiar with and most importantly, uses materials and instruments that I have access to. Additionally, since I am ultimately relying on my own ability to recognize these particles under a stereomicroscope, the < 5 mm size margin is the smallest I am comfortable with. Study Objectives Microplastic accumulation is predicted to be higher near sites of known glitter deposition, so I will sample from the three sites mentioned above, and from nine other sites (this number is subject to change) This study will not determine the source(s) of microplastics, but will focus on quantifying deposition hot-spots on the UK campus. Variables that I do not intend on measuring due to time and money constraints include, foot traffic frequency, wind behavior, hydrology, site slope and adjacent landscape slope, construction and management history. These would all be requisite in developing a more comprehensive explanation as to why certain sites, if any, display differences in microplastic concentration. Brief Methods - Collect samples (at least three per site, but likely more depending on results from preliminary power analysis) to 5 cm depth for each sample. - Samples will be collected using an aluminum cylinder of uniform cross-sectional area of 44.18 cm² inserted into the turf to extract samples of uniform dimension. - Bulk the three soil plugs collected from each station to achieve a representative mosaic of the site and label it. - Return to the lab and assign each sample an alternate identity so the source of the sample will be unknown to me as I record microscope observations (preventing bias). - Deposit samples into tins of known and recorded mass then record the wet mass. - Dry the samples and record their mass then calculate bulk density. - Combine the sample with DI water in a 2-gallon bucket (labeled) and wait for soil to release from root mass and state of aggregation - Wet sieve samples thoroughly through a sieve stack (2 cm sieve on top of 300-micron sieve). - Material caught by the 2 cm sieve will be plant and rock fragments, dry and archive this material. - Deposit the material that was caught by the 300-micron sieve into a tin of known and recorded mass, dry the sample. - Measure and record the mass of the sample. - Add the sample to a 2-gallon bucket. - Create a 0.5 molar stock solution of FeSO₄ (ferrous sulfate) by dissolving 15 grams of FeSO₄ into 1,000 ml of DI water. - Destroy the organic matter in the sample by adding 30 ml of 30% H₂O₂ to the bucket then add 30 ml of the stock ferrous sulfate solution (this solution catalyzes the oxidation of organic matter by promoting the generation of free hydroxyls). - This reaction will evolve O₂ and CO₂ at room temperature, wait for this reaction to slow before adding the contents of the buckets to labeled 1,000 ml beakers of measure and recorded mass (only 200 ml at a time or you risk boil over and loss of samples). - Place these beakers on a 75°C hotplate and monitor. - Add sample solution from bucket into the beakers as the amount in the beakers reduces from heat. - Continue to heat and add sample until the bucket is empty. - Continue to add H₂O₂ at 75°C until all organic matter has been destroyed. - Heat the solution to rid it of peroxide and add 200 ml of DI water until evaporated, repeat this 3 times to completely remove H₂O₂. - Weigh the dry contents of the beaker and record the mass. - Create a density separation solution with NaCl (heat 1,000 ml of DI water in a beaker and add 350 grams NaCl). - Add NaCl solution to sample in beaker and agitate by gently stirring. - Allow this mixture to settle and stratify overnight. - Carefully decant the mixture (which should now have some material present on the surface) and filter under vacuum using non-cellulose 47 MM (0.4 UM) track etched membrane filters. - Recover the NaCl solution for continued use throughout the project. - Deposit filters onto petri dishes and dry at 60 °C for 24 hours. - Prepare a solution of Nile Red dye in acetone (1,000 microgram Stain/mL acetone). - With the filter paper dry, adhere the filter to the petri dish (if curling is severe enough to affect

microscope performance). - Place 2 – 5 drops of Nile Red dye solution on the sample and allow the acetone to evaporate at room temperature (10 – 30 minutes). This stain is lipophilic/hydrophobic and should adsorb onto microplastic surfaces while avoiding organic matter, preventing particle misidentification - Observe sample under the stereomicroscope in a dark room with a UV light fixture as only light source. - Using an orange to red light filter set (590 nanometer – 720 nanometer wavelength) adjust color contrast until both image and fluorescence is well defined. - Sample photographs will be stored and the quantity of microplastics per sample will be recorded. - If unsure if particle is microplastic, heat a needle- like tool and poke it, if it melts, it is likely plastic. - Use a point count microscopy statistical method to estimate microplastic concentrations per sample. - Take these raw data and match them up with their true identities (since their origin was concealed from me after collection) and compare data from all sites. Citations Masura, J., Baker, J., Foster, G., Arthur, C., Herring, C, 2015. Laboratory methods for the analysis of microplastics in the marine environment: recommendations for quantifying synthetic particles in waters and sediments. NOAA Technical Memorandum NOS-OR&R-48. M. Claessens, S.D. Meester, L.V. Landuyt, K.D. Clerck, C.R. Janssen Occurrence and distribution of microplastics in marine sediments along the Belgian coast. Marine Pollution Bulletin, 62 (2011), pp. 2199-2204 R.C. Thompson, C.J. Moore, F.S. vom Saal, S.H. Swan Plastics, the environment and human health: current consensus and future trends. Philosophical Transactions of the Royal Society B: Biological Sciences, 364 (2009), pp. 2153-2166 Wright, Stephanie L, and Kelly, Frank J. "Plastic and Human Health: A Micro Issue?" Environmental Science & Technology. 51.12 (2017): 6634-647. Web.

Who will this project primarily impact?:

The Environmental Stewardship Fee is a \$4 per semester student tuition fee. Given that the SSC is in charge of distributing these funds, please describe your project's plan to maximize student impact.: Since all study sites are within UK's campus, the information generated will be made available to students through signage at sites of glitter deposition. But more impactful will be presenting the findings to the university grounds crew to inform future management. I have contacted the UK Office of Sustainability with this proposal and have received confirmation that these arrangements can be made once the research has been conducted.

Please select the groups that your project is intended to impact.:

Faculty/Staff

Graduate Students

Lexington Community

Undergraduate Students

UK Community as a Whole

What type of project is this?:

Career Development

Education

Research

Please select up to three disciplinary categories that best describe your project.:

Campus Sustainability

Forestry/Gardening/Landscaping

Recycling/Waste Management

The SSC is always seeking further outreach opportunities. Please consider doing one or all of the following with your project to help us reach more people. :

Green Talks Radio segment (recommended)

Feature SSC logo on promotional material

Does this project require the approval of any outside or UK entity? If so, please check the box and include documentation of support at the end of this document.: No**Have this, or any related project, been funded by the SSC in this or previous years?: No**

Please fill out an itemized budget for your project as it stands. Indicate line items that could be reduced with a check mark. Round up to the nearest whole number for numerical entries.:

Please download the funding pdf from the top right corner of this page and reupload the completed form.:

Please describe who will be in charge of dispensing the funds. If it is not a UK department, how will the funds be dispensed?: Dr. Kevin Yeager

Does this project have any additional funding partners? If so please list them and briefly describe their contribution and involvement.: N/A

Estimated project completion date: 10/10/2020

Please provide a list of the major milestones of your project.: - Completing methods - Sample acquisition - Sample processing - Take and record measurements - Data analysis - Organize findings - Present findings

Include the date (mm/dd/yy) and a brief description of the event. This should include all relevant events to your proposals, such as dates for completion of key project milestones, presentations, or final project completion.:

| Date | Event title | Brief description |
|-------------|-----------------------|---|
| 10/10/2020 | present findings | completed research will be formatted and presented at the NRES internship forum. |
| 10/10/2020 | present findings | presentation will also be prepared for parties of interested within UK (grounds crew, water management, SAB, Greek council) |
| 10/10/2020 | findings used for PSA | partner with office of sustainability on this and SSC (perhaps Green Talks) |

If your project timeline is greater than a month, please provide a date around the middle of the project when sufficient progress will have been made to update the SSC.:

05/01/2020

Please attach supporting documents such as promotional material, letters of collaborative funding, or a budget spreadsheet, in addition to the budget provided previously. If you are working in partnership with a UK entity such as the Physical Plant Division, an academic department, etc., their letter of support should be uploaded here as well. Please only attach documents necessary to your proposal, so documents such as individual resumes or cover letters should not be included. All supporting documents should be in PDF format.:



University of Kentucky Student Sustainability Council
Funding Proposal



| Category | Item Name | Amount Requested From SSC | Amount Requested outside SSC | Name Other Funding Source | Total Cost |
|----------|-----------|---------------------------|------------------------------|---------------------------|------------|
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