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)


**PROPOSAL #1 VOTING RECORD**

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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**

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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

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Amount requested: $631.00

Amount approved: $631.00
## ATTENDANCE

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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:

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

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.

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.
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Estimate 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.

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

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
STEEL HANDRAIL, PAINTED

12' RAMP RUN, SLOPE 1:10
5'-0" LANDING
STEEL HANDRAIL, PAINTED
20' RAMP RUN, SLOPE 1:10
RELOCATE EXISTING ELECTRICAL ENCLOSURE AND EXTEND CIRCUITS BELOW RAMP DECK

BRYAN AVENUE

RAMP PLAN

NORTH
POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY
P.T. TOP RAIL
CEMENTITIOUS SIDING, ORIENTED VERTICALLY, PAINTED
POLYCARBONATE
SEATING AREA
STAIRS

2 WEST ELEVATION

EXISTING MASONRY
TEMPERED GLAZING
PANIC HARDWARE
4 X 7 HM DOOR AND FRAME
AND ADJACENT CMU CELLS
OPENING, GROUT FRAME
PANIC HARDWARE
STEEL HANDRAIL, PAINTED
POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY
P.T. TOP RAIL
CEMENTITIOUS SIDING, ORIENTED VERTICALLY, PAINTED
4'-0"
4 TREADS, 1'-0" EACH
2'-6"
5 RISERS, 0'-6" EACH
P.T. FRAMING AND DECKING
LINE OF EXISTING STAIRS
P.T. FRAMING ATTACHED TO EXISTING CMU WALL WITH MAISONRY ANCHORS
STAIR SECTION
3'-1"
4'-0"
6'-6"
1'-0"
10.6"
POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY

P.T. TOP RAIL

POLYCARBONATE FLASHING

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

STEEL HANDRAIL, PAINTED

POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY

P.T. DECKING AND FRAMING

POLYCARBONATE SIDING, CHANNELS ORIENTED VERTICALLY

CEMENTITIOUS SIDING, ORIENTED VERTICALLY, PAINTED

4X4 P.T. FRAMING

ADJUSTABLE SIMPSON POST ANCHOR ATTACHED TO EXISTING CONCRETE

SIMPSON JOIST ANCHOR

0'-1 1/2"
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

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

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 website 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.

| Dates             | SSC budget proposal for Tree Week 2020 support |  
|-------------------|---------------------------------------------|---------------------------------------------|  
|                   | Descriptions | hrs/wk | no. wks | total hrs | Rate  |
| 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        |       |  
|                   |               |        |         |           | 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.

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

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
**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 | Tates 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  
You, Me, & Rumi  
300 E Third St | Lyric Theatre  
Lakshmi Sriram

**Saturday, October 14th**

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 13th**

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

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

10:00 AM - 11:30 AM  
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

**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, Tate’s Creek Elementary, Crawford Middle, Frederick Douglas High School

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

**For More Details, visit:**  
ufi.ca.uky.edu/treeweek2018

**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

10:00 AM - 1:00 PM
Amazing Autumn
500 Alumni Dr | KY Children’s Garden
UK-LFUCG Arboretum

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

10:00 AM - 12:00 PM
UK Campus Tree Planting
685 Sports Center Dr
Urban Forest Initiative

4:00 PM - 7:00 PM
Tree Week Kickoff
610 W 3rd St | Blue Stallion Brewery
Urban Forest Initiative

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 - 3:30 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

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 | Tates Creek Library
Lexington Public Library

1:30 PM
Imagination Station: Tree
3080 Fieldstone Way | Beaumont Library
Lexington Public Library

Thursday, October 11th

10:30 AM
Preschool Play + Learn Storytime
3628 Walden Dr | Tates Creek Library
Lexington Public Library

11:00 AM
Preschool Play + Learn Storytime
140 E Main St | Central Library
Lexington Public Library

1:30 PM
Art Start: Trees
3628 Walden Dr | Tates Creek 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

5:00 PM - 6:00 PM
Imagination Station: Apple Orchards
886 Furlong Dr | Village Library
Lexington Public Library

Sunday, October 9th

10:00 AM
Raven Run 10K & Robin 5K
3885 Raven Run Way
Raven Run Nature Sanctuary

11:00 AM - 12:00 PM
Yoga Amongst the Trees at Ashland
120 Sycamore Rd | Ashland Estate
Yoga at Ashland

12:00 PM - 2:00 PM
Balled & Burlapped: How Arborists Plant the Big Guys
1877 Pensacola Dr | Pensacola Park
Trees Lexington!

1:00 PM - 2:30 PM
Tree Tour of Lexington Cemetery
833 W Main St | Lexington Cemetery
Venerable Trees

1:00 PM - 4:00 PM
Oaks and Hickories of the Palisades: A Tree ID Hike
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
Simoneitta 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
140 E Main St | Central Public 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

5:30 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

10:30 AM
Preschool Play + Learn Storytime
3628 Walden Dr | Tates Creek Library
Lexington Public Library

11:00 AM
Preschool Play + Learn Storytime
140 E Main St | Central Library
Lexington Public Library

1:30 PM
Art Start: Trees
3628 Walden Dr | Tates 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
<table>
<thead>
<tr>
<th>Thursday, October 17th Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30 PM - 7:30 PM</td>
</tr>
<tr>
<td>Chrisie Tune</td>
</tr>
<tr>
<td>140 E. Main St.</td>
</tr>
<tr>
<td>6:30 PM - 7:30 PM</td>
</tr>
<tr>
<td>with Dave Leonard</td>
</tr>
<tr>
<td>140 E. Main St.</td>
</tr>
<tr>
<td>Lexington Public Library</td>
</tr>
<tr>
<td>6:30 PM - 8:30 PM</td>
</tr>
<tr>
<td>140 E. Main St.</td>
</tr>
<tr>
<td>Lexington Public Library</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Saturday, October 19th Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 PM - 3:00 PM</td>
</tr>
<tr>
<td>500 Alumni Dr.</td>
</tr>
<tr>
<td>5:00 PM - 10:00 PM</td>
</tr>
<tr>
<td>417 E. Maxwell St.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Saturday, October 19th</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL DAY</td>
</tr>
<tr>
<td>160 Ave. of Champions</td>
</tr>
<tr>
<td>Student Center</td>
</tr>
<tr>
<td>9:00 AM - 10:00 AM</td>
</tr>
<tr>
<td>1608 Winchester Rd.</td>
</tr>
<tr>
<td>10:00 AM - 2:00 PM</td>
</tr>
<tr>
<td>2034 Williamsburg Dr.</td>
</tr>
<tr>
<td>LFUCG</td>
</tr>
</tbody>
</table>

Go See Trees Fall Challenge Scavenger Hunt! Sep. 28th - 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 at events listed in CADERI - Indicates Tree Week Signature Event

For More Details, visit ufi.ca.uky.edu/TreeWeek2019

Urban Forest Initiative Presents
### Saturday, October 12th
- **9:00 AM - 12:00 PM**
  - Bell Court Neighborhood Tree Planting at 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 Kimerer
- **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 PI. | Marlboro Park
  - Sishopramat 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 floraclick.org | Floraclick 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 floraclick.org | Floraclick 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 - 12:30 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 - 6:30 PM**
  - New Ideas on Increasing Lexington’s Urban Tree Canopy
  - 417 E. Maxwell St. | Kentucky Native Cafe
  - Michlers

### Wednesday, October 16th
- **10:10 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

### 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 floraclick.org | Floraclick Nature Sanctuary
- **5:00 PM - 8:00 PM**
  - Lavish! Art Project Workshop
    - 301 W. 4th St. | Sherer Art Building
    - Transylvania University

### Wednesday, October 16th (cont.)
- **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 floraclick.org | Floraclick Nature Sanctuary
- **5:00 PM - 8:00 PM**
  - Lavish! Art Project Workshop
    - 301 W. 4th St. | Sherer 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@uky.edu

Project leader additional contact information:

<table>
<thead>
<tr>
<th>Contact type</th>
<th>Contact info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>8592218068</td>
</tr>
</tbody>
</table>
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.:

<table>
<thead>
<tr>
<th>Name</th>
<th>Major(s)/department</th>
<th>Academic year based on projected graduation date</th>
<th>Previous involvement with the SSC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jake Simanek</td>
<td>NRES/ Ag/ EES</td>
<td>Senior</td>
<td>Member at large, Green Talks Chair</td>
</tr>
</tbody>
</table>

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 < 1mm 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 sieves 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 hot plate 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 florescence 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. JanssenOccurrence 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. SwanPlastics, 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.:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event title</th>
<th>Brief description</th>
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<tbody>
<tr>
<td>10/10/2020</td>
<td>present findings</td>
<td>completed research will be formatted and presented at the NRES internship forum.</td>
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<tr>
<td>10/10/2020</td>
<td>present findings</td>
<td>presentation will also be prepared for parties of interested within UK (grounds crew, water management, SAB, Greek council)</td>
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<tr>
<td>10/10/2020</td>
<td>findings used for PSA</td>
<td>partner with office of sustainability on this and SSC (perhaps Green Talks)</td>
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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.:
<table>
<thead>
<tr>
<th>Category</th>
<th>Item Name</th>
<th>Amount Requested From SSC</th>
<th>Amount Requested outside SSC</th>
<th>Name Other Funding Source</th>
<th>Total Cost</th>
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