

# Student Sustainability Council

## Meeting Minutes

Fall Retreat - 8/19/17 & 8/20/17

### Members Present:

Name	P/A	Name	P/A	Name	P/A
Zoe Gabrielson	P	Rachel Cook	P	William Varney	P
Nachie Braga	P	Sophie Beavin	P	Maya Collins-Patterson	P
Cassie Odom		Amanda Williams	P	Shane Tedder	P
Zack Beavin		Julianna Dantzer	P		
Braydi McPherson-Hathaway	P	Leslie Potts			
Alan Xu		Mitch Mullins	P		
Rachel Kreppert		Jared Miniard	P		
Sarah Peter		Viktor Halmos	P		
Beungchan Lee		Ryan Lark			
Gabriel Smith	P	Maya Gershtenson			
Lauren Thomas	P	Abby Shelton			

### 1) Beginning of Meeting

[4:04 PM] - Reading of the Preamble and Introductions

### 2) Proposal Presentations

[4:06 PM] - Proposal #1 (Campus Wood Utilization Program) Presentation

Begins

[4:16 PM] - Proposal #1 Presentation Ends and Q&A Begins

Q: How many trees come down on campus annually barring construction?

A: 5 to 6 annually without construction. However in the next few Years all trees from the Kirwan-Blanding Complex must come down to proceed with Demolition Work.

Q: Is There a plan to replant trees that will be coming down?

A: Yes, for every inch in diameter of trees cut down, that same amount of inches in diameter must be replanted. For example, if a tree of 10" in diameter comes down, 5 2" diameter trees must be replanted.

Q: Why not allow other colleges to participate in the construction of the Solar Kiln?

A: Hadn't thought of the Idea, but departments like the Mechanical Engineering Department would be more the Welcome to participate. Faculty from the College of Design offered first.

[4:21 PM] – Motion to Extend by 5 min. (Move – Lauren, 2<sup>nd</sup> Mitch)

[4:29 PM] - Proposal #1 Q&A Ends

[4:30 PM] – Proposal #2 (Bleed Blue, Live Green) Presentation Begins

[4:33 PM] – Proposal #2 Presentation Ends and Q&A Begins

Q: Are the Non-Profits which will be receiving the donations sustainability focused or local to the area?

A: Yes, they are either Sustainability focused or local charities that will be receiving the donations.

[4:38 PM] – Motion to extend by 5 min. (Move – Gabe, 2<sup>nd</sup> – Will)

[4:44 PM] – Proposal #2 Q&A Ends

### 3) Proposal Discussions

[4:47 PM] - Discussion of Proposal #1 (Campus Wood Utilization Program)

Begins

1. Amendment to strike Solar Kiln from Line Item Budget Passes

[4:57 PM] – Motion to Extend by 5 min. (Move – Will, 2<sup>nd</sup> – Mitch)

[5:03 PM] - Motion to vote on Proposal #1 (Motion by Rachel, 2nd Mitch)

**VOTE RESULTS - FAILED** - Yes [ 2 ] No [ 13 ]

[5:06 PM] - Discussion of Proposal #2 (Bleed Blue, Live Green) Begins

1. Expressed a desire to suggest that all the charities receiving the donations be local.

[5:16 PM] - Motion to vote on Proposal #2 (Motion by Lauren, 2nd Sophie)

**VOTE RESULTS - PASSED** - Yes [ 12 ] No [ 2 ] Ab [ 1 ]

### 4) End of Meeting

[5:17 PM] - MEETING ADJOURNED

No Committee Business discussed at Meeting.

### 5) Proposals From Meeting

## University of Kentucky Student Sustainability Council 2016-2017 Grant Application

1. Name: Stacy Borden
2. Email: stacy.borden@uky.edu
3. UK Affiliation: UK CPPD Grounds Department
4. Proposed Project Title: Campus Wood Utilization Program
5. If applicable, please provide the sponsoring or overseeing organization. (e.g. the Office of Sustainability, Wildcat Wheels, the Dept. of Ag. Economics, etc.): CPPD Grounds, Department of Forestry
6. Total Amount Requested from the Council: \$31,106.83
7. Would you like to make a presentation to the Council before your proposal is reviewed? Yes
  
8. Please mark the primary and secondary focus areas of your project with a **1** and **2**, respectively.

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● Recycling: 1</li> <li>● Transportation:</li> <li>● Agriculture/Gardening:</li> <li>● Water:</li> <li>● Renewable Energy/<br/>Energy Conservation:</li> </ul> | <ul style="list-style-type: none"> <li>● Climate Change:</li> <li>● Local Environment:</li> <li>● Behavioral Change:2</li> <li>● Species Diversity/Conservation:</li> <li>● Other (Please Describe):</li> </ul> |
|---|---|

9. Please name any other project leaders:

<b>Name:</b>	Chad Niman
<b>Title &amp; Department:</b>	Primary Forest Products Specialist- UK Forestry Extension
<b>Project Role</b>	Mill Operator and Trainer
<b>Email</b>	chad.niman@uky.edu
<b>Name</b>	
<b>Title &amp; Department</b>	
<b>Project Role</b>	
<b>Email</b>	

*Please note that any project leaders listed will be excused for closed discussion of their project proposal.*

10. Please describe the project, its goals, and how it contributes to UK student knowledge, attitudes & culture, or practices of the 3 pillars of sustainability (i.e. economic, environmental and social), including potential long term effects.

The current protocol for dealing with wood from large limbs and trunks of trees is to cut them to 6 feet or less in length so it can fit into the bucket of a loader. The loader puts the wood into a dump truck that hauls the wood to Avon where it is run through a tub grinder and turned into mulch. The Campus Wood Utilization Program (CWUP) will redirect UK trees from being ground into mulch and instead utilized to their highest and best use. By simply making an effort to turn our trees into lasting, functioning and artistic forms we will be changing the behavior of

processing felled trees and making a positive move toward sustainability by sequestering carbon and reducing diesel emissions. The goal of the CWUP is to create awareness of the potential uses for urban wood and experiment with these uses in undergraduate and graduate learning through the living laboratory of our campus.

Large oaks are succumbing to Bacterial Leaf Scorch, ashes are dying from Emerald Ash Borer infestations and trees will be removed to accommodate construction. There are numerous outlets for the lumber that is generated from campus trees as they are eventually removed. This wood can be used to create unique and beautiful products that have a low environmental impact due to the renewable, biodegradable, and carbon storing features of wood. These benefits last for the life of the product while providing a strong connection to our flagship University and campus. Students in Forestry, Architecture, Landscape Architecture, Fine Arts, and Natural Resources and Environmental Science will have the opportunity to discover the potential uses of urban trees when they are no longer standing. Socially we will be advancing undergraduate and graduate education through the living campus laboratory. We will demonstrate higher uses for urban trees that can be demonstrated locally and shared nationally. CWUP will further the sustainability conversation and explore deeper avenues of sustainability throughout our urban and campus environments.

CWUP will operate a portable mill that can be taken to the log. This will reduce hauling expenses, eliminate dump fees and create educational opportunities for UK students, the UK campus community, the Lexington community and those throughout the Commonwealth in which we serve. Our trees can be milled into lumber that can then be turned into furniture, diploma frames and other functional pieces. Smaller sections of wood can be made into blanks that can be turned on a lathe or carved by hand. Beyond what can be utilized on the UK campus there is potential to generate a surplus of raw material that can be branded as Wildcat Wood and sold to local craftsmen. In summary, economically we can reduce our dumping expenses significantly and potentially generate a bit of revenue through "Wildcat Wood" merchandise partnerships and reduce the cost of lumber for student classes and studios.

Milled lumber will be dried in a solar kiln that can be designed and built by Architecture students. The solar kiln will utilize solar panels to provide energy that power the air circulation fans. Once the lumber reaches the desired moisture content it will be made available for student projects, special UK projects and sale of surplus material under the Wildcat Wood brand.

Name any anticipated project affiliates and describe the extent of their support, including any financial, matching or in-kind support. Specific details are encouraged.

**Physical Plant Grounds Department**-Mary Vosevich, Tim Clark, Jerry Hart: Transportation and handling of wood and lumber, site for log storage, milling and drying, ongoing maintenance of site, machinery to move materials on milling site.

**Department of Forestry**-Jeff Stringer: Contributions of equipment recently purchased for these purposes and \$10,000 towards the purchase of WoodMizer sawmill. Forestry will provide training on equipment, assistance in processing and utilization of the site for undergraduate and continuing education training.

**College of Design**- Bruce Swetnam: End user of processed wood material in undergraduate courses and graduate courses.

**College of Fine Arts**- Michael Bell: End user of processed wood material in undergraduate and graduate courses.

**Landscape Architecture**- Ned Crankshaw: End user of processed wood material in undergraduate and graduate courses.

**UK Alumni Association**- Stan Key: Marketing of "Wildcat Wood" and products to UK alumni.

11. Please mark the primary target population of your project with a 1.

- UK (general):1
- Undergraduates:
- Graduates:
- Community:
- Faculty:
- Other (Please Describe):

**In 250 words or less, please answer the following questions.**

12. Describe the intended University of Kentucky audiences and potential number of people impacted including any potential diverse segments such as student or community organizations and supporting evidence (e.g. expected or historical event/speaker attendance).

Opportunities for students, faculty and staff across campus having access to the unique wood materials produced on campus through the living laboratory holds the greatest weight and so these audiences are very important to this program. Another key audience for the CWUP is university alumni. The products that will be produced from campus trees will include picture frames for diplomas, wood engraved diplomas, pens, cutting boards, furniture, walking sticks, and other keep sakes to commemorate the life of the tree, while strengthening the roots of our campus community. Forestry students as well as the forestry club will have many opportunities to advance their learning through this program. Students enrolled in the College of Design and Fine Arts will benefit by having access to lumber produced by CWUP at a reduced price (or free) from lumber available on the retail market. The wood processing site will be utilized in undergraduate course work in the Forestry Program as well as hosting workshops for the larger Commonwealth community and beyond. Surplus wood produced will be sold to the community under the branding of "Wildcat Wood". We strongly believe this program has the potential to impact many people and estimation of these figures is difficult due to the large populations in urban areas and the difficulty in estimating how much reach this program will have if practices are adopted by other universities and cities. Millions of people could potentially be impacted over time.

13. Are there any students involved in the proposed project? If so, do they benefit from professional or technical skills, outputs, or experiences such as presentations, posters, or reports?

Forestry students will be involved in the milling of logs and processing of lumber. Architecture, Fine Arts, and Landscape Architecture students will utilize wood and lumber output from CWUP.

14. Please describe any previous history and to what extent you, other project leaders, or the sponsoring organization may have with the UK Student Sustainability Council. N/A.

15. Please outline a timeline and milestones to ensure project efficacy prior to and after project implementation.

September 2017- Construct solar kiln

October 2017- Mill logs currently being held at PPD Greenhouse Facility and Spindletop.

December 2017- Remove first round of dried lumber from kiln and make available for student projects.

16. Does the success of your project require prior approval of other UK or non-UK entities (e.g. IRB or venue approval, etc.)? If so, please provide supporting documentation. No.

17. Please demonstrate how the Student Sustainability Council will be credited or advertised in your project (this can include promotional material). Would a project leader be available for a radio interview? PPD will be developing a website for its Arboriculture operations. The CWUP will be a featured highlight of this and SSC will be credited and linked, as well as usage of SSC logo on any promotional materials as desired. Project leader will be available for a radio interview.

18. Using the following format, please provide a line item budget for the total amount request and what percent of the project is being sponsored by SSC funding. Provide information sources or reasoning for the budget estimates.

Description	\$ Total Cost	\$ Request from SSC	Source of remaining funds
Portable Sawmill (Woodmiser LT40)	\$27,231.00	\$22,231	Forestry
Solar Kiln Chamber (materials and Equipment [ie. fans, solar panels, moisture meter])	\$3,000.00	\$2,000.00	Forestry
DH Kiln Equipment	\$5,110.59	\$3,110.59	Forestry
DH Kiln Chamber	\$5,765.24	\$3,765.24	Forestry
Total:	\$41,106.83	\$31,106.83	

19. Are you willing to accept a general reduction in your budget? Yes. The solar kiln would not be necessary at first and can be added into the program at a later date.
20. Are you willing to accept line item changes in your budget? Potentially
21. You may include additional attachments to supplement the application such as promotional material, resumes, letters of collaborative funding, etc.

Submit project proposals and/or questions on proposal processes to [ukstudentsustainabilitycouncil@gmail.com](mailto:ukstudentsustainabilitycouncil@gmail.com) with 'SSC Proposal' as the subject line.

If successfully funded, a councilmember will be assigned to your project. Failure to communicate with this person can result in a total or partial loss of funding. **Any changes in the use of approved funding must be resubmitted and re-approved by the Council. Unused funds are automatically returned to the SSC.**

Project proposals will be considered on a rolling basis and must be received 1 week prior a scheduled meeting in order to be considered for the agenda. If SSC and applicant are able to confirm that project, if funded, would be in compliance with University Business Procedures. The Fall 2016 meeting schedule is listed on the following page.

## Spring 2017 Meeting Schedule

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All meetings 6:30 p.m. - 8:30 p.m., Patterson Hall room 105 unless otherwise noted.

<b>Meeting date</b>	<b>Proposal due date</b>
January 25, 2017	January 18, 2017
February 8, 2017	February 1, 2017
February 22, 2017	February 15, 2017
March 8, 2017	March 1, 2017
March 22, 2017	March 15, 2017
April 12, 2017	April 5, 2017
April 26, 2017	April 19, 2017

*Funding proposals due 1 week prior to meeting date. All meetings start at 6:30 p.m. and are held in room 105 of Patterson Hall. Meetings are open to the public.*



## University of Kentucky Student Sustainability Council 2017-2018 Grant Application

1. Name: Josey Moore
2. Email: Jmo267@g.uky.edu
3. UK Affiliation: Undergraduate
4. Proposed Project Title: Bleed Blue, Live Green
5. If applicable, please provide the sponsoring or overseeing organization. (e.g. the Office of Sustainability, Wildcat Wheels, the Dept. of Ag. Economics, etc.): Department of Agricultural Economics and UK Dining
6. Total Amount Requested from the Council: \$2800
7. Would you like to make a presentation to the Council before your proposal is reviewed? Yes
  
8. Please mark the primary and secondary focus areas of your project with a **1** and **2**, respectively.

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● Recycling:</li> <li>● Transportation:</li> <li>● Agriculture/Gardening:</li> <li>● Water:</li> <li>● Renewable Energy/<br/>Energy Conservation:</li> </ul> | <ul style="list-style-type: none"> <li>● Climate Change:</li> <li>● Local Environment:</li> <li>● Behavioral Change: 1</li> <li>● Species Diversity/Conservation:</li> <li>● Other (Please Describe): 2-Reducing Waste</li> </ul> |
|---|---|

9. Please name any other project leaders:

<b>Name</b>	Jerrod Penn
<b>Title &amp; Department</b>	Post Doctorate; Agricultural Economics
<b>Project Role</b>	Primary Staff (Coordinator)
<b>Email</b>	<a href="mailto:Jerrod.penn@uky.edu">Jerrod.penn@uky.edu</a>
<b>Name</b>	Zoe Gabrielson
<b>Title &amp; Department</b>	Undergraduate; Agricultural Economics
<b>Project Role</b>	Secondary Staff
<b>Email</b>	<a href="mailto:zkg222@uky.edu">zkg222@uky.edu</a>

*Please note that any project leaders listed will be excused for closed discussion of their project proposal.*

10. Please describe the project, its goals, and how it contributes to UK student knowledge, attitudes & culture, or practices of the 3 pillars of sustainability (i.e. economic, environmental and social), including potential long term effects.

During the fall and spring semesters, UK Dining distributes over 20,000 disposable plastic bags each month. Bleed Blue, Live Green is a program designed to encourage students to reduce the use of plastic bags in their everyday lives. This fall, the two largest Wildcat Pantry locations, located at The 90 and at Holmes Hall, will be part of a program to reduce plastic bag consumption on campus. A donation program will be implemented at The 90; students who choose not to use a bag will receive a token that can be used to make a donation to one

of three non-profit charities, while Holmes Hall will serve as a control location. In order to have numerous data, we intend to observe transactions approximately 5 times a week for one hour per session. During these sessions, an observer and surveyor will be present at each location to collect data on students that are shopping and to determine whether there are any common factors that may impact whether students choose to use a bag. The goal of this research is to determine the long-term viability of the Bleed Blue, Live Green. We hope to demonstrate to UK Dining that this program has both financial and environmental benefits that are preferable to continuing the excessive use of plastic bags at Wildcat Pantry locations.

11. Name any anticipated project affiliates and describe the extent of their support, including any financial, matching or in-kind support. Specific details are encouraged.

This project was initially set up by and received approval from Aramark/UK Dining under its former sustainability coordinator, Lauren Moore. UK Dining has already provided the marketing materials and the necessary components for the donation token location, and they will also donate \$0.05 for every forgone plastic bag in the Wildcat Pantry at The 90. Furthermore, UK Dining will permit their sustainability interns to spend two paid hours of each workweek to aid in data collection, assisting the other four researchers in surveying and observing customers. As part of the survey, UK Dining will also supply a Kentucky Proud snack as an incentive to each person who agrees to take the survey throughout the semester, up to 1,200 units. The Department of Agricultural Economics is also contributing through the volunteering of a graduate student to assist in data collection of the project. This graduate student is separate from the coordination and planning efforts of Jerrod Penn.

12. Please mark the primary target population of your project with a 1.

- |                    |                            |
|--------------------|----------------------------|
| ● UK (general):    | ● Community:               |
| ● Undergraduates:1 | ● Faculty:                 |
| ● Graduates:       | ● Other (Please Describe): |

**In 250 words or less, please answer the following questions.**

13. Describe the intended University of Kentucky audiences and potential number of people impacted including any potential diverse segments such as student or community organizations and supporting evidence (e.g. expected or historical event/speaker attendance).

We hope to impact students on campus that regularly visit these locations by encouraging them to realize that plastic bags are a non-necessity. UK Dining is another UK entity that this project may influence; we hope to encourage different ordering tactics and a reduction in unnecessary and potentially environmentally harmful products like plastic bags. Demonstrating the viability of an alternative solution to plastic bag use may be effective in ensuring that this program is one that is continued in coming years.

14. Are there any students involved in the proposed project? If so, do they benefit from professional or technical skills, outputs, or experiences such as presentations, posters, or reports?

There will be multiple students assisting in observing, surveying, and analyzing data throughout this projects span. These students will not only be trained in assisting the research process but how to cohesively work with professionals and a company to achieve a common goal.

15. Please describe any previous history and to what extent you, other project leaders, or the sponsoring organization may have with the UK Student Sustainability Council.

Josey Moore has not previously worked with the SSC. Zoe Gabrielson has previously submitted the bee school proposal to the SSC, will serve as an at-large member on the 2017-18 Council, was the summer 2017 SSC intern, and contributed to research in the previous student survey (the Innovative Campus Survey on Student Gift Giving to Support Sustainability) supported in part by the SSC. Jerrod Penn has previously served the SSC in a number of capacities.

16. Please outline a timeline and milestones to ensure project efficacy prior to and after project implementation.

In-person observations and survey data collection will occur from the first week of school until Sunday, November 19<sup>th</sup>, the weekend before Thanksgiving break. This is a total of 14 weeks during which we plan on taking observations five times per week and collecting 10 surveys per hour per location. In order to establish that our methods are ready to roll out we will be doing a soft run on data collection during the week before classes start.

17. Does the success of your project require prior approval of other UK or non-UK entities (e.g. IRB or venue approval, etc.)? If so, please provide supporting documentation.

Yes, this project is possible because we have previously received permission from UK Dining to conduct this study in its facilities. Furthermore, the study requires and has received IRB approval to be conducted.

18. Please demonstrate how the Student Sustainability Council will be credited or advertised in your project (this can include promotional material). Would a project leader be available for a radio interview?

Each student that will be assisting in the project will accredit the Student Sustainability Council for the ultimate success of the project and any publications or presentations regarding this project will feature the SSC as a contributor. A project leader would be available for a radio interview.

19. Using the following format, please provide a line item budget for the total amount request and what percent of the project is being sponsored by SSC funding. Provide information sources or reasoning for the budget estimates.

Description	\$ Total Cost	\$ Request from SSC	Source of remaining funds
2 Observers	\$1400	\$1400	N/A
2 Surveyors	\$1400	\$1400	N/A
Marketing Materials	N/A	\$0	UK Dining
Incentives	\$2400	\$0	UK Dining

There will be four researchers: two observers, and two surveyors. These four individuals will be compensated for their time at a rate of \$10/hour \* 1 hour/session \* 5 sessions/week \* 14 weeks = \$2800. Two additional researchers are sustainability interns and will be receiving compensation for their work as interns from outside sources. Their compensation is not included in this total. UK Dining is providing incentives in the form of KY Proud Toffee Popcorn made by AppleCreek for up to 1200 survey participants, totaling \$2400 in financial support. Of the total budget of \$5200, we are requesting \$2800 (53.8%) from the SSC.

20. Are you willing to accept a general reduction in your budget? Yes  
 21. Are you willing to accept line item changes in your budget? Yes  
 22. You may include additional attachments to supplement the application such as promotional material, resumes, letters of collaborative funding, etc.

Submit project proposals and/or questions on proposal processes to **ukstudentsustainabilitycouncil@gmail.com** with **'SSC Proposal'** as the subject line.

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