



STUDENT SUSTAINABILITY COMMITTEE

Funding Award and Acceptance Letter

April 15, 2018

Project: Geothermal exchange for greenhouses at UIUC Woody Perennial Polyculture Research Site

Dear Mx. Stumpf:

On behalf of the University of Illinois at Urbana-Champaign Student Sustainability Committee (SSC), I would like to thank you for considering the funds raised by the Sustainable Campus Environment Fee to implement a project that improves the sustainability of our campus. SSC is pleased to inform you that we are recommending to the Institute for Sustainability, Energy, and Environment (ISEE) that your project **receives \$132,550 in grant funding**. This fully funds all items on your proposal.

In order to remain eligible for this award, you must agree to the following conditions:

1. A final report of all work completed should be provided to the SSC Program Coordinator by May 31, 2020.
2. Project status updates and detailed account statements must be provided at the end of each semester, in the method requested, until the project is completed.
3. The CFOP provided for this award shall strictly be used for the money awarded in this proposal.
4. Any substantial modifications to project scope, budget, or timeline must first be approved by SSC. These requests must be submitted in a formal letter to the Chair and Program Coordinator.
5. All projects will be expected to follow campus policies and procedures as well as any applicable State and Federal laws.
6. A willingness to be an active member of the SSC community, such as mentoring student applicants, while your project is active.
7. SSC reserves the right to revoke funding if the project does not comply with the terms and conditions outlined in this letter.
8. Any press releases or educational/promotional materials involving the project should acknowledge SSC funding.
9. Any signage involving the project or events surrounding this project should include SSC's logo and/or a statement of which fee funded the project. Projects must coordinate with SSC to ensure promotion appropriately highlights the SSC's contributions to the project.

If you agree to the terms and conditions for the funding, please sign on the designated line at the bottom of this letter. If you have any questions regarding these requirements please contact the Chair, Nick Heyek, at nheyek2@illinois.edu or the SSC Coordinator, Cathy Liebowitz, at cwl1517@illinois.edu. You will be notified when the Institute for Sustainability, Energy, and Environment and Vice Chancellor for Student Affairs officially approves this project. Again, thank you for your interest in improving the sustainability of the University of Illinois at Urbana-Champaign. We look forward to working with you in the future.



STUDENT SUSTAINABILITY COMMITTEE

SSC Signatories

Nick Heyek, Chair
Student Sustainability Committee

Olivia Yu, Treasurer
Student Sustainability Committee

Awardee Signatory

Andrew Stumpf
Applicant

iSEE Signatory

Dr. Evan DeLucia, Director
Institute for Sustainability, Energy & Environment

Student Affairs Signatory

Dr. Danita Brown Young
Division of Student Affairs



STUDENT SUSTAINABILITY COMMITTEE

Project Information

Project: Geothermal exchange for greenhouses at Woody Perennial Polyculture Research Site

Funding Source: Sustainable Campus Environment Fee

Funding Amount: \$132,550

Receiving Campus Unit: Illinois State Geological Survey & Prairie Research Institute

Unit Financial Contact: Andrew Stumpf

E-mail: astumpf@illinois.edu

Project Description:

This project will involve the design, construction, and installation of a geothermal system to heat one greenhouse at the UIUC Woody Perennial Polyculture (WPP) Research Site, located near the southwest corner of Race Street and Windsor Avenue. Water circulated through geothermal piping installed in a series of 150 feet deep boreholes will capture the earth's heat (~55°F) and be transported to the surface for heating of the greenhouse. The addition heat directly to the plants through the soil or air heating system will lower propane usage (fossil fuels) and reduce the greenhouse gas emissions; goals outlined in the Illinois Climate Action Plan (iCAP). The outcomes and lessons learned from this project will be available for future development of geothermal exchange systems on UIUC campus. The site will act as a 'living laboratory' for students and professors to better understand renewable energy, geothermal exchange systems, and engineering. The allocated funding will go towards construction costs, publicity, and student wages.

This proposal directly funds:

1. Geothermal equipment
2. Drilling boreholes
3. Fiber optic cables
4. Student wages
5. Publicity fees