SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

SUSTAINABILITY COUNCIL

2013 ANNUAL REPORT

TO THE CHANCELLOR ON GREEN FUND ACTIVITIES AND SUSTAINABILITY PLANNING/ASSESSMENT
SIU SUSTAINABILITY TEAM 2013-2014

SUSTAINABILITY COUNCIL

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Executive Committee Chair
Graduate Student - School of Law

BILL CONNORS - Vice Chair
Assessment/Planning Committee Co-Chair
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DREW FOXX
Undergraduate Student - Geography & ER

LESLIE DURAM
Professor - Geography & Environmental Resources

SUSTAINABILITY STAFF

KRIS SCHACHEL
Sustainability Coordinator

THOMAS REICHERT
Recycling Graduate Assistant

JANET DONOGHUE
Sustainability Graduate Assistant

JAMIE KIDD
Undergraduate Assistant

ROY BUCK
STARS Graduate Assistant
Instituted in 2009, the Sustainability Council has made great strides in promoting sustainability on the Carbondale campus, largely due to the implementation of the $10 per student Green Fee paid each semester. This has enabled us to fund green projects across our campus and student research/travel opportunities, and hire a full time Sustainability Coordinator. Particularly, we would like to highlight the following accomplishments:

• Being named as one of Princeton Review’s “Green Colleges” for the second year in a row [http://www.princetonreview.com/green-guide.aspx],

• Crossing the $1 million threshold in funding of Green Fund projects across our campus,

• Hiring Kris Schachel as our full-time Sustainability Coordinator and hiring several graduate and undergraduate students to implement programs focusing on sustainability across campus,

• Establishment of a Going Green LLC (Living Learning Community) in Neely Hall,

• Recycling 705.63 tons of materials, diverting 24% of the waste produced on campus from landfills. This is a 2.8% increase in recycling over FY12 while simultaneously decreasing overall campus waste by over 205 tons!

The exciting part of our job is that there are still many more opportunities to improve sustainability on the Carbondale campus, making our job that much more important to help guide our campus to realize all of its potential “green” benefits. This report serves as both the annual update on Green Fund activities in the past academic year, as well as our biannual report on sustainability assessment and planning activities of the Council. An appendix is attached showing the financial status of the Green Fund account.
In the 2012-2013 academic year, out of 28 applicants, the Green Fund Committee awarded 17 projects $397,327 in Green Fund grants, ranging from composting food waste from the dining halls to buying rechargeable batteries for use across campus. The lists below show the distribution of the Green Fund both by campus unit and by type of project:
LOGIC (Local Organic Gardening Initiative of Carbondale) is the SIU student organic farm located at the Center for Sustainable Farming which is run by volunteers who are organized by graduate assistants funded from the Sustainability Council’s Green Fund. These graduate assistants have been very busy over the last year, with an on-campus farm stand each Wednesday in the Faner Hall Breezeway, a Field Day drawing visitors from all over the state, and participation in the local farmers’ market. Students from all academic programs are welcome, with the following programs represented: animal science, anthropology, aviation, plant biology, criminal justice, forestry, geography, master public health, nutrition, plant and soil science, zoology, and others.

LOGIC has many goals. First, it addresses the issue of local food. There is concern among the students about the ways in which food is produced and the distances it travels before it reaches our plate. Growing food less than a mile away from where it is eaten is a way to combat this problem and help to reduce the carbon footprint of the university. The second goal of LOGIC is to grow food organically, without synthetic pesticides or fertilizers. A third goal of LOGIC is to educate the university and larger community about how to grow food organically and why it is important to know where your food comes from. Fourth is the goal of connecting with the larger community of organic farmers in the area in order to collaborate for workshops or other learning opportunities. LOGIC connects with the campus community and community schools, as well. Finally, LOGIC seeks to be sustainable and to demonstrate a closed loop system.

As LOGIC has grown, the Sustainability Council has provided funding for both its infrastructure and the garden’s continued maintenance. Since its inception, the Green Fund has awarded grants to LOGIC to expand its vegetable production site, explore and demonstrate the benefits of permaculture, and fulfill other needs of the garden. In spring 2012, the Council committed $27,000 in funding for graduate assistantships for each of the next two years to continue the work that LOGIC has done on our campus.
Fall 2012 marked the seventh round of Green Fund project awards. A total of 11 projects were awarded by the Council, totaling over $246,700. These projects include:

• Composting Facility – $103,000 was awarded to PSO to build a brand new, state-of-the-art composting facility for the dining hall food waste produced on campus. This compost facility will be an aerated static pile (ASP) type, and capable of handling all organic waste – including not only pre-consumer kitchen waste but also post-tray waste. It is conservatively estimated that this facility will allow diversion from the waste stream of more than eighty-seven tons of food scraps annually. A $50,000 DCEO grant is supplementing the cost of construction.

• Solar Dok Outdoor Charging Stations – $13,795 was also awarded to PSO to buy and install two solar powered charging station tables on campus. These stations have an umbrella with solar panels, which provide enough electricity to charge small devices such as phones, MP3 players, and laptops. These stations will be located in front of Morris Library and near Lawson Hall.

• Biodigester – $5,500 was awarded to engineering students and faculty to research and build a prototype biodigester: an efficient heater fueled by wastes, such as grass, leaves, and other organic materials. This heater was then monitored and tested remotely using wireless sensor networks. This prototype project has met with much success, and a journal paper about the project is currently under review for the Technology Interface International Journal.
Imagining Geographies (IG) is a university- and region-wide interdisciplinary initiative, which has been partly funded by the Green Fund ($4,475). It has two primary missions: first, to advance investigations, knowledge creation and mobilization, discussion, and multiple forms of expression by faculty, staff, and students across SIU related to space, place, culture, and identity. Secondly, IG shares these efforts with the SIU community and residents of Southern Illinois. Throughout spring and fall 2013, IG has been programming across campus to explore numerous environmental issues in Southern Illinois, culminating in an exhibit in the Morris Library rotunda and a 16-page newspaper insert.

The Civic Communication Collective is a student-founded and led group established in fall 2012, supported by a Green Fund grant of $5,000. It has two purposes: to provide full media services to SIU units, RSOs, and community groups; and to enable students to gain experience in managing a wide-range of media efforts as well as producing media materials. Many of the services provided thus far have been in support of the Imagining Geographies initiative.

- Center for Ecology Distinguished Speaker Series – $1,000 was awarded to students from the Center for Ecology to bring in two guest lecturers for their Distinguished Speaker Series. Dr. Scott Collins was brought in to talk about Pulse dynamics, climate change, and plant species interactions in a Chihuahuan desert grassland, which had 150 people in attendance. Dr. Joel Heath was also brought in to talk about Developing NGO-supported, citizen science in a subsistence-based Inuit community, which 120 people attended.

- Campus Native Prairie Garden – $3,100 was awarded to the SIU Restoration Club, a registered student organization, to turn the overgrown garden by Life Sciences II into a garden with different specimens of herbaceous prairie grass. The original site was tilled and weeded, and a new
Through several Green Fund projects, the Theater Department has been able to significantly improve the sustainability of their operations. In fall 2012, they received $20,750 to buy new LED lights and control consoles, reducing the energy usage of the lighting for theater productions by almost 75%, while allowing vivid colors to be produced for theatrical effect.

Additionally, $49,536 was awarded to the Theater Department for the purchase of a new Steeldeck stage platform to replace the wood platform the department had been using, significantly reducing the amount of lumber waste used in building and designing sets for theatrical productions.

**SPOTLIGHT ON GREEN FUND**

**SUSTAINABLE THEATER LIGHTING AND STAGE**

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**SPOTLIGHT ON GREEN FUND**

**BIG BELLY SOLAR TRASH/RECYCLING COMPACTORS (SPRING 2013)**

PSO was awarded $10,909 for four solar compactors, which are double-unit trash/recycling containers featuring a solar-powered compacting mechanism and a “smart belly” function to indicate when a container is nearly full. The containers were placed in high visibility locations on campus in late July, including around Lawson Hall, the Student Center bus stop, and the crosswalk by the Engineering building. To date, they have collected a quarter of a ton of trash waste, and almost 200 lbs. of bottles and cans.
GREEN FUND AWARDED PROJECTS SPRING 2013

In Spring 2013, the Council awarded approximately $150,000 to six projects in its eighth Green Fund award round. The projects include:

• Electronic Dental Records – $116,000 to fund the Dental Hygiene Program’s move to a completely paperless and chemical-free patient record system. The program currently serves 1,600 patients each semester, resulting in extensive paperwork and thousands of X-ray chemicals; this project will eliminate that. The computer system and patient record software have been purchased, and plans are underway to buy the needed radiology equipment.

• Rechargeable batteries – $2,232 to Building Services to start a campus-wide move to using rechargeable batteries, calling for phasing in rechargeable batteries within a campus unit and monitoring the results for reduction in waste and money. Building Services used 3,791 batteries costing $2,106 in FY ‘12.

• Sustain II: National Collegiate Juried Exhibit – $15,728 to the University Museum for a three-phase project focusing on changing its infrastructure and methods to lessen the environmental impact of its exhibits. The work includes installing LED bulbs and funding a Sustainable Art Fair in the Faner Breezeway featuring creations by local and statewide artists, which was successfully held on September 28. The final facet will be a presentation by guest artist David Edgar, who turns discarded plastic into art, who will give a lecture and lead a workshop with a juried exhibit in early 2014.

• SIU Bike Days – $3,000 to fund day-long events promoting bicycling and bicycle safety on campus and in Carbondale. The interactive events include installation of up to 200 bicycle mirrors to promote safety along with the environmental and health benefits of cycling. The first of these events was held on October 4.

• Learn & Gather at LOGIC – $2,757 to LOGIC for reusable garden plans and plant labels to help volunteers and visitors understand the process of garden planning and crop rotation, along with various features of the site on Pleasant Hill Road. Also included in the project were a picnic table and planters that the Student Center Craft Shop made from recycled materials to give visitors a place to relax, meet and enjoy the garden.
In November of 2012, based on the recommendation of the Sustainability Council Assessment Committee, SIU Carbondale began AASHE’s (Association for the Advancement of Sustainability in Higher Education) nationally recognized Sustainability, Tracking, Assessment and Rating System, or STARS.

STARS is designed to provide a framework for understanding sustainability in all sectors of higher education, enable meaningful comparisons over time and across institutions using a common set of measurements, and create incentives for continual improvement toward sustainability. STARS is a points-based system, with credits awarded overall in three primary categories of Education and Research; Operations; and Planning, Administration, and Engagement.

The point of any assessment is to see where you are strong and where you can make improvements. As our completion deadline is November 30, information is still being gathered, but a few things already stand out. For example, we received every point possible in the Diversity, Access and Affordability section of the report (PAE Credits 6, 7, 8, 9 and 10). We also did very well in the Curricular portion of the assessment; provisionally we have 70% of the total points possible.

The sections of STARS we can strive for improvement are Coordination and Planning, Human Resources, and Transportation. We failed to receive Coordination and Planning points for lack of prominent mention of Sustainability in our Strategic Plan, and for having neither an overall Sustainability Plan nor a Climate Action Plan. In Human Resources we will likely miss points for not conducting an employee satisfaction survey, and in Transportation we lack support for certain commuter trends: facilities for bicyclists, telecommuting, and prohibited idling. Examples of low-hanging fruit that we’ve yet to achieve include Sustainability in New Student Orientation and being a registered Tree Campus USA through the National Audubon Society.

During initial STARS data collection there were 304 possible points (100 in Education and Research, 100 in Operations, 100 in Planning and Administration and 4 for Innovation). Of the first 175 points we collected data on we earned 95.8 points – or 54.7% of those possible. We currently have a provisional rating of Bronze in STARS. There are 127 points we have yet to report on and if we stay at the same 54.7% we should get 67 of those points, putting us firmly in the running for a Silver rating.

The following graphs display, as of mid-October, the possible points in each credit (blue) and points SIU Carbondale qualifies for (green). The Education and Research portion covers three main categories: co-curricular education, curriculum, and research. The Operations portion covers nine areas: buildings, climate, dining service, energy, grounds, purchasing, transportation, waste, and water. Planning, Administration and Engagement portion covers five areas: coordination and planning; diversity, access and affordability; human resources, investment, and public engagement.
We’re still working to gather data for ER Credits 14-19 for Research.

Staff at PSO is planning to self-report on many of the incomplete credits below; the Sustainability office does not have access to the information needed.
We currently have 37.5% of the total possible points in Education and Research, 16.5% in Operations, 41.5% in Planning, Administration and Engagement and 2 extra points in the Innovation category for the LOGIC project and the green wall in the Agriculture Building.

These numbers and brief remarks give us a snapshot of how we as an institution compare with others, and can also direct our efforts to further our sustainability commitment. This assessment is not an easy undertaking – it represents months of information gathering. Whether we ultimately garner enough points to earn a Bronze or Silver rating, we can be very proud of this achievement, and continue to strive for even further campus-wide implementation of sustainability.

SUSTAINABILITY PLANNING

There have been many accomplishments since 2010 and the initial Sustainability Council Report to the Chancellor. SIU Sustainability continues to be an emerging program and presence on campus. We are approaching the 5th anniversary of our formation and have taken the opportunity to review earlier goals set forth and revise and adapt these goals for continued growth and improvement. In these pages we detail our progress so far as well as remaining opportunities.

Longer-term goals will soon be revisited, and there is a definite interest among Council members to provide informational resources and assistance regarding campus design and building standards for new and renovated buildings in terms of sustainability features and energy efficiency.

GOALS (from Sustainability Council planning retreat, November 2010)

1. The Council’s operating papers anticipate the need for a Sustainability Coordinator in the university administration. We remain committed to this objective. We are currently developing a job description, rationale, and supporting documentation for the formation of this position.

   This goal was successfully achieved with the hiring of a full-time Sustainability Coordinator in July 2012. The position has been an integral component to increasing overall effectiveness of sustainability programs.

2. Create leadership and networking opportunities for students with an interest in sustainability.

   The Sustainability Council has provided opportunities for students to cultivate leadership and networking opportunities both directly and indirectly. Since 2009 the composition of the council (as mandated in the operating papers) includes three student members. Ten different students have served, some for multiple one-year terms. Frequently the Council Chair position is held by a graduate student, providing an incredible leadership opportunity. By design the students are influential on the Council as they all serve on the Green Fund committee and vote on matters of funding. Student
Sustainability Council members have gone on to utilize their leadership experience in a variety of ways that advance their personal and professional aspirations, and many of them have pointed to their experience on the Council as one of the main influencing factors for their growth.

In addition to directly serving on the council, many students have found unique leadership and networking opportunities by submitting their projects for funding and leading the efforts if funding is approved. Student-led initiatives are a bright spot in our funding profile and point to the meaningful success of student efforts. One such highlight is LOGIC, where students run many aspects of the program. Another student led initiative that is greening our campus is the Prairie Garden currently in the completion stages and initiated by the Restoration Club, a Registered Student Organization.

In coordination with the Center for Service-Learning and Volunteerism the Environmental Ambassador Award program was initiated to spotlight volunteering and service efforts with a significant sustainability component. Students are recognized for their service with a special ceremony each spring. The program has been successful and will remain in place.

3. **Promote and advertise campus sustainability initiatives and programs better.**

One of the benefits of our presence on campus has been the growth in visibility of campus projects involving sustainability. Many of the individual Council members have initiated work that promotes sustainability. In addition, each semester there are programs and initiatives highlighted, from the Green Fund Award process to special events such as Campus Sustainability Day and RecycleMania. One very recent success was in getting the word out about our funding support for students traveling to sustainability-oriented conferences and training events. Such opportunities definitely enhance the overall educational experience for SIU students.

We are constantly working to improve our website and increase our social media presence.

4. **Complete STARS assessment by June 2011.**

Since STARS is a comprehensive study of all campus systems and practices – requiring tremendous and dedicated information-gathering, the initial deadline of this project was unrealistic. It was necessary to have a graduate assistant focused solely on this project for two semesters in order to complete it properly. The Sustainability Council is very pleased that the first SIU Carbondale STARS assessment will be done in the next few weeks. This is exciting, as the knowledge gained presents many opportunities going forward.

5. **Bring sustainability initiatives to the forefront of recruiting efforts.**

In a recent study conducted by the Princeton review noting parents’ and students’ expectations and experience of choosing a college, over 60% said that the schools “commitment to environmental issues (from academic offerings to practices concerning energy use, recycling etc.)” played a
significant role in contributing to the decision to apply or attend the school [http://www.princetonreview.com/college-hopes-worries.aspx]. We believe that being recognized as a “Green School” in the Princeton Review has been a positive contribution to recruiting efforts. We plan to strengthen and refine these efforts with regard to recruitment in the future, and have already made valuable connections by providing presentations to Admissions trainings and brainstorming how Sustainability may have a presence in Open House and New Student Orientation events.

6. Enhance sustainability course offerings in the curriculum.

Course offerings have been enhanced due to our efforts and the increasing popularity and need for sustainability curriculum. SIU Sustainability has just completed the first comprehensive course offering list (part of STARS) that indicates classes with either a primary focus or just related component of sustainability. We continue working in conjunction with other departments and individuals to further streamline these efforts. It has been a boon that Saluki First Year and University College have recently featured themes of ‘Sustainability’ and ‘Water,’ and Council member Leslie Duram is working diligently to revitalize the Environmental Studies minor program.

7. Increase student, faculty, and staff interest in sustainability.

Student, faculty and staff interest in sustainability has increased since our first report in 2010. One of the most notable measures of this increase in interest has been the steady (and for this semester, record) increase in Green Fund proposals and inquiries each semester. Faculty and staff have taken the lead on several key initiatives. One such program is Imagining Geographies, which has been successful in fostering collaboration across different issues, many of them highlighting sustainability. Another successful program that has shown a marked increase in interest is the Sustain program facilitated by the University Museum for two consecutive years now.

Another popular way to help the campus community consider everyday sustainability has been the Sustainable Saluki Pledge, which encourages a specific list of actions that reinforce positive personal habits. As incentive, we give a reusable water bottle to those who take the Pledge; this is shown at other universities to be a strong influence in helping people practice sustainability. Since its inception at SIU in Spring 2012, over 1,000 people have taken the Pledge.

This year, one very self-motivated student in zoology, Katie Billing, entered SIU in an online competition called ‘Small Steps, Big Wins’ – run by Net Impact [smallsteps.netimpact.org]. The program awards points for participants’ actions, and allows them to raise money for a charity of their choice. It also provides a way for students to learn about the broader implications of their choices and resource use. With a late start and only 123 participants to date, SIU has been as high as #4 on the national leaderboard! Katie plans to use the results from this endeavor in a class paper, and we look forward to continuance and expansion of this program.
8. Create a 4-year freshman class sustainability project by August 2011.
   Although it is not a 4-year program, it is worth again noting the Saluki First Year themes of
   Sustainability and Water; both have enabled many freshmen to frame their experience here within
   the expansive subject matter of sustainability. We are also partnering with University Housing to
   improve the Going Green LLC, which would ideally provide a real submersion in sustainability.

9. Create a liaison position between the Undergraduate Student Government and the Sustainability
   Council.
   This year, student members of Sustainability Council have recommitted to attendance of both
   USG and GPSC meetings, serving as liaisons to keep the student constituent bodies informed of
   programs and opportunities in Sustainability.

10. Sustainability training of PSO staff.
    PSO leadership has been instrumental in facilitating many of the advances in sustainability at
    SIU. In the past year, additional training and presentations have been conducted for recycling
    (RecycleMania), composting processes, and alternative fuel vehicles. Also, the Green Fund project
    involving rechargeable batteries affords tremendous cost savings and waste avoidance with only
    minor change in practice.
Several other successful initiatives will be strengthened in future planning. One such endeavor was the “Move Out” campaign in May 2013. This program provided strategically placed containers in all residence halls for students moving out at the end of the year to donate items they would have thrown away. SIU Sustainability partnered with several local non-profit organizations to coordinate donations of items. The “Move Out” campaign was a huge success and pointed to a significant need for such a program to continue with additional support.

For Campus Sustainability Day 2013, SIU Sustainability coordinated and conducted “Green Tours.” These walking tours highlighted sustainable initiatives on campus and were met with much enthusiasm. We will continue to improve the tour and offer it in conjunction with special programming and events. In addition we plan on making a virtual tour available via our website.

SIU’s presence at the national conference for the Association for the Advancement of Sustainability in Higher Education (AASHE) was the strongest it has ever been with faculty, staff, administration, and students all attending. AASHE is the premier organization for sustainability in higher education, and the national conference draws professionals and scholars from across the country and world. Participation in such a cross-pollination of great ideas will no doubt lead to more exciting developments at SIU.

For two years SIU Sustainability has conducted a campaign that asks students, staff and faculty to take the Sustainable Saluki Pledge, agreeing to the following: I pledge to join SIU Carbondale’s efforts by developing personal habits that foster social, economic, and environmental health. I choose to use the knowledge and experience I gain at SIU to improve sustainability in the communities where I live, learn and work. To further advance the idea of becoming a Sustainable Saluki, we are crafting strategic communication for the purpose of engaging students, staff and faculty in three components of SIU Sustainability. These three components frame a comprehensive approach to growing an overall culture of sustainability on the SIU campus. To become a Sustainable Saluki people are encouraged to:

1. Take the Sustainable Saluki Pledge,
2. Join the network of faculty, staff and students working on sustainability initiatives, and
3. Engage in service on behalf of sustainability.
CONCLUSION

Sustainability has become a very popular concept in higher education and beyond and we expect this to continue. The Department of Labor began tracking “green” jobs specifically in 2010 and has noted since that time that the green jobs sector has experienced some of the most significant overall growth. This means sustainability as a concept and practice is not just a trend but a viable and worthy component of our changing world that the university has a vested interest strengthening.

This is an exciting time for sustainability at SIU Carbondale, as we have accomplished many of our original goals and look to future planning with enthusiasm. Sustainability is applicable to every endeavor on campus; from the classroom to the boardroom, it provides opportunity to foster efficiency, conserve resources and train future generations – all while being celebrated for being bold and exceptional in our efforts. SIU has joined the ranks of most other major universities by having a dedicated staff to facilitate and foster the implementation of sustainability at all levels. Believing that institutions of higher education should be ecologically sound, socially just and economically viable allows students to live and learn in a healthy environment with consideration for and investment in the future. As the Council sees each semester, the possibilities to improve sustainability on our campus are endless, and we are excited about the new opportunities that await us as we consider new Green Fund projects this academic year. The continued support of the administration is vital to our efforts and greatly appreciated.
## APPENDIX 1: GREEN FUND FINANCIAL STATEMENT

**UPDATED OCTOBER 2013**

### GREEN FEE - FY13
For the year ended June 30, 2013

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<tr>
<th>Previous unused balance from prior Fiscal Years:</th>
<th>$ 286,181.40</th>
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| TOTAL UNUSED TO DATE                           | $ 115,092.94 |
GREEN FEE - FY14
For the year ended June 30, 2014

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<td>Closed Projects</td>
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Uncommitted balance, June 30, 2013: $78,973.94

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<td>Closed Projects</td>
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<td>Balance to be paid</td>
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**TOTAL UNUSED TO DATE** | $194,066.88