
Environmental Advisory Committee:

2006-2007 Year-End Report

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I. INTRODUCTION

In 2004-2006, the EAC was successful in supporting particular sustainable initiatives such as increased recycled paper content, the green roof project, and a draft of sustainable ethos for the college. With the help of strengthening sustainability movement at large, Carleton's sustainability is gaining momentum and synergy throughout the college, beyond individual projects. This cooperation is due to the open communication of Carleton's leaders and members, seen in the signing of the President's Climate Commitment (<http://www.presidentsclimatecommitment.org>). Below is a summary of the successes of the individual subcommittees of the EAC this year.

II. SUBCOMMITTEE REPORTS

A. CARBON NEUTRALITY

Situation:

This group originally started as the Energy subcommittee in the Fall, focusing on energy saving technologies and behaviors. Since the President signed the Climate Commitment at the end of February, this subcommittee has focused on planning the process for Carleton to become Carbon Neutral.

Actions Taken:

Perhaps the most significant action taken this year was the signing of the President's Climate Commitment, pledging that Carleton would one day become carbon neutral. A student on this subcommittee, Whit Jones, placed the pledge on the President's desk which was then later signed and returned to the committee, asking us to be in charge of developing a plan to become carbon neutral.

Another significant gain this year was the development of the Sustainability Revolving Fund. Sustainability programs will no longer be limited by lack of funding at Carleton. Thanks to money from the Carleton Student's Association, the Environmental Advisory Committee (EAC), and the College Administration, Carleton now has seed money for sustainability initiatives that reduce greenhouse gas emissions. The cost savings from projects will accrue to the SRF (i.e. from reducing electricity use), so that it may grow and fund more projects in the future. Project ideas may be submitted to the EAC, who will decide how to allocate the funding. More information can be found in the Sustainability Revolving Fund Charter below.

The SRF success was largely due to the motivation of a particular group of Carleton students: the Carbon Neutrality ENTS Capstone group. These students produced a proposal of particular steps for Carleton to become Carbon Neutral (a summary report can be found below). This student group also developed a website to organize and advertise college steps towards carbon neutrality: www.carbonneutralcarleton.org

Thanks to the strong leadership of Carleton's Facilities Director Steve Spehn, our facilities program is taking active steps towards making our campus more sustainable. This year, facilities has investigated sustainability consulting companies, hired consultants to complete a greenhouse gas inventory, and also hired a consultant from Northfield, Bruce Anderson, to help bring in local resources and knowledge to benefit this process. One project that has resulted was a grant application to Xcell for an alternative energy project at Carleton such as solar panels.

Information gathered/documents produced:

Sustainability Revolving Fund

Purpose

Carleton College is committed to advancing sustainability and eliminating its contribution to global warming by becoming carbon neutral, as outlined in the Environmental Statement of Principles, the Carbon Neutrality Value Statement and the President's Climate Commitment. In this vein, the Sustainability Revolving Fund (SRF) strives to transition Carleton to a sustainable, climate benign future by funding projects that provide financial returns while reducing the College's greenhouse gas (GHG) emissions. The impacts of the revolving fund will be both concrete and pedagogical; projects will lead to tangible emissions reductions, and project development and implementation will provide invaluable educational opportunities. Through heightened awareness and empowerment, the SRF will nurture an environmentally conscious student body and community, transitioning the College to a benign, just and sustainable future.

Goals

- Enable development and implementation of projects that reduce the College's GHG emissions by providing a source of funding.
- Empower students, faculty and staff by inviting project proposals from the entire campus community.
- Enable investments in renewable energy, alternative fuel, and energy efficiency.
- Encourage cost-saving projects that reduce the College's GHG emissions by providing a methodology whereby cost savings may accumulate and provide future funding for similar projects.
- Fund pilot projects that prove the functionality and cost-effectiveness of innovative methods of emissions reductions that could then be implemented on a wider scale.
- Encourage broader societal action by exemplifying best practices in greenhouse gas mitigation.
- Train students to be proactive and engaged in the process of transitioning the world to a sustainable future.

Methods and Financing

Projects will be selected based on two main criteria: potential to decrease the College's GHG emissions, and ability to repay the fund. The Environmental Advisory Committee (EAC) will decide which projects to fund based on these criteria. Once in place, projects will repay the fund from proven reductions in use (e.g. electricity conservation).

The "Revolving" element of the SRF is of the utmost importance; that the fund grows over time and is able to continue funding projects well into the future makes this a sustainable, lasting effort to mitigate climate change. In order to achieve this permanence, the SRF will grow when savings achieved by funded projects accrue to the fund, and are then available to fund future projects. The fund will not capture these savings indefinitely; after six years of avoided costs accruing to the SRF, the savings will then accrue to the general budget. In this way, cost savings from the fund will contribute to the long-term bottom line of the College, freeing up scarce financial resources to enable the school to better fulfill its mission of providing excellence in education. Ideally, projects will have payback periods of four years or less, so that excess returns may accrue to the fund for at least two years. Projects with longer payback periods may still be considered for funding, especially if their environmental or educational impacts are outstanding.

To encourage broad student awareness and interest in the fund, and because the fund will exist in large part due to the efforts and contributions of the CSA, some of the returns will accrue to the CSA to provide a steady revenue source for funding worthy student activities. Twenty five percent of excess returns – meaning those that accrue after project costs have been fully recouped - to *CSA funds* will accrue to the CSA directly, with the long-term goal of paying back the CSA contribution to the CNRF plus ten percent interest. The CSA repayment monies will come only from project funding provided directly by the CSA. The committee may decide to partition the CSA funding for accounting purposes to ensure this goal. Periodic assessments of the repayment status will be issued to the CSA to ensure compliance with the long-term goal of full repayment with ten percent interest. The CSA may also decide to invest more money in the fund in the future, in which case the same system of returns to this additional CSA money will apply.

Governance

The SRF will be administered by a new subcommittee of the EAC comprised of students, faculty, and staff. The EAC-CSA liaison will be one of the student members, and the committee will have at least one other student member. The subcommittee will field proposals for the use of SRF funds, and then will prioritize the projects based on both financial returns and capacity to reduce greenhouse gas emissions. These recommendations will come before the EAC, who will be the final arbiter in distributing SRF funds. Prior to final EAC approval, projects will be brought before the CSA in an attempt to garner ideas and foster broader student involvement in the fund and the projects it enables. The college business office and the EAC will develop procedures for accounting, monitoring and reporting. At least once a year, the EAC will release a public document outlining the financial performance of each individual project and the fund as a

whole. Further, project reports will be issued every term, including accurate accounting, to ensure long-term monitoring of each individual project.

Carbon Neutrality at Carleton **Summary Framework of ENTS Capstone Project**

Purchased Electricity

Purchased electricity currently accounts for about 55% of the College's greenhouse gas emissions¹. Paring down these emissions will require a two-pronged attack, electricity must be conserved, and the remaining electricity Carleton uses must be obtained from less GHG intensive sources.

Conservation

The Sustainability Revolving Fund will provide funding for many of these worthy, cost-saving initiatives. Limits to SRF funds may require that some are pursued through other means.

- Energy-saving computer software that uses sleep mode sooner, and shuts down when not in use for longer periods
- Lighting (T5 or T8 ballasts, CFL's in campus fixtures and in dorms, etc.)
- Occupancy sensors (lights, smart powerstrips shut off printers and computer hardware when room unoccupied)
- Vending misers
- Dorm appliances (mini-fridges, clothes washers and driers, etc.)
- Reflective roofing
- Energy monitor student workers
- More efficient lighting control systems in library and rec center
- Outside lighting with sensors that turn the light on rather than off when tripped
- Surge protectors in dorms and offices
- Large behavioral campaign

New Technology

- Photovoltaic electricity generation cannot yet compete with wind in terms of cost per delivered kilowatt-hour. Possesses advantage of peaking with use (on sunny summer days). Not viable without outside assistance (Xcel's Renewable Development Fund), but could become competitive in the near future as technology develops.
- Wind turbine generation is currently cost-competitive per delivered kilowatt-hour with utility rates faced by the college. Three more turbines, whose power would be used directly by the campus, would offset about 90% of campus use (given similar spread across months as '06 and net metering agreement with Xcel). Best-Guess IRR is between 9.1 and 11.8% over 22 years.
- Cogeneration, where waste heat from electricity generation is captured to heat (or cool) buildings or water, has been successfully implemented at other colleges. Still emits GHGs, but more efficient than separate stand alone generators or boilers.

Heating

Conservation

- Improved insulation
- Air quality regulation with CO2 sensors to minimize waste when room unoccupied
- Lower water temperature setting in hot water heaters
- Better HVAC management
- Better temperature controls (some buildings are unanimously agreed to be too hot in winter and too cold in summer)

New Technology

- Cogeneration (discussed earlier)
- As boilers age, replace with biomass compatible to minimize the GHG emissions associated with heating the campus
- Geothermal uses constant temperature underground to help heat and cool buildings. Implementing on a building-by-building basis could preclude the need for new boilers as the campus expands (new arts building, new dorm represent good opportunities). Use these as pilot programs, and if they are successful, consider retrofitting old buildings.

Transportation

Transportation comprises about a tenth of Carleton's GHG emissions. To reach neutrality, these proposals offer a practical, cost-efficient strategy to make significant progress:

Technology

- Phase out the College transportation fleet and replace with efficient hybrids
- Purchase efficient, clean-burning electric vehicles for maintenance and service needs

Conservation

- Encourage students, faculty, and staff to carpool by starting a web-based carpooling program: 'Carpool'
- Meet transportation fleet needs with a car-sharing program administered by an outside entity (that provides hybrids)

Offsets

While pursuing operational methods of reducing greenhouse gas emissions, the college should simultaneously pursue a carbon offsets program to offset its unavoidable emissions and achieve full carbon neutrality. These offsets can be scaled back as other operational programs provide concrete reductions on the campus. The general idea behind such programs is that individuals, businesses, and institutions can reduce their greenhouse gas emissions by investing in projects that produce concrete emissions

reductions elsewhere. Offsets are distinguished from other types of renewable energy purchases by the concept of additionality. In other words, by purchasing carbon offsets, the consumer is funding projects that would not have otherwise been financially feasible. Based on our analysis, NativeEnergy, based in Charlotte, Vermont, seems to provide the best provider of carbon offsets for the college.

In addition to its competitive pricing, NativeEnergy is an attractive option based on the types of carbon offset projects it funds. Based on initial calculations to estimate what it would cost to offset all our emissions (using Jason Lord's 2004-2005 GHG emissions inventory as the baseline), the methane capture program, based at a family farm in Pennsylvania, is the cheapest at \$4/ton or \$106,400. The price for carbon offsets for farmer-owned distributed wind, located in Minnesota, is \$6.30/ton, totaling \$167, 580 while the price for offsets for the Native American-owned wind farm, located in South Dakota, is \$6.70/ton, totaling \$174, 200. Based on the fact that the farmer-owned wind turbine projects are located in-state and thus, have the added benefit of stimulating the local job market through the installation and maintenance of new renewable energy facilities, we recommend that the college purchase offsets from this portfolio.

Publicity: www.carbonneutralcarleton.org

In progress/Follow-up actions:

The following is suggested for the upcoming academic year:

- Pay close attention to the new structure of the EAC and its success in developing a plan for Carleton to become carbon neutral; given the urgency of global warming, this is a sustainability priority and should be the main focus of the EAC next year
- Find undersclassmen to continue the great work of the ENTS Carbon Neutral website and project proposals
- Be involved with the Carbon Neutrality Sustainability Assistant who will be working with Rob Lamma all of next year to support EAC efforts
- Continue to not only pursue technology investments such as vending misers and long term systems, but decrease energy consumption on campus in creative ways
- In starting the Sustainability Revolving Fund, make sure there is a detailed system and plan for tracking and organizing projects; the organization of this fund and its first projects will set the pace for other future projects and administrative support
- Pursue the possibility of working with the Rocky Mountain Institute and other consulting firms in helping Carleton reach its' goals as quickly and efficiently as possible
- Utilize academic programs and student energy wherever possible in pursuing carbon neutrality projects
- Continue to communicate the value and impact of carbon neutrality to the campus and celebrate successes (announce the signing of the commitment at large community events!)

B. TRANSPORTATION

Situation:

This year, President Rob Oden signed the American College and University President's Climate Commitment. As the College is now committed to taking steps to reduce carbon emissions, ultimately striving to achieve carbon neutrality, it must necessarily begin examining transportation issues. The Environmental Advisory Committee identified and divided work on transportation issues into five separate sections, namely: fleet vehicles, maintenance and service vehicles, student transportation and transit, faculty and staff commuting, and parking space.

Fleet Vehicles

Carleton owns a fleet of 13 minivans, 3 sedans, 3 compact cars, and 1 security vehicle. In addition to purchasing these vehicles, the department provides for their maintenance and insurance. These vehicles are available to faculty, staff, and students for administrative purposes, academic trips, and student teams and organizations. Campus departments and organizations pay a per mile rate as well as gasoline costs to operate these vehicles. In 2005, these vehicles logged 247,820 miles. According to the EPA, the fleet's average fuel efficiency is 21 miles per gallon. According to Jason Lord '05, the fleet's gasoline consumption dropped 20% in 2003, after larger passenger vans were replaced with the current fleet of minivans and cars. This improvement in efficiency has already helped Carleton's fleet to be more efficient, reducing fuel costs and greenhouse gas emissions.

In 2005, a Transportation Fleet Business Plan was developed by Transportation Services and a number of alternative models were considered for Carleton's fleet. Recommendations were made to the college to continue to provide vehicles internally (keep the College-owned fleet) and to encourage less use of vehicles by increasing and restructuring rates for campus departments and organizations. The report considered a car sharing option with Saint Olaf College and recommended that the college continue to look into such an option. The document also researched options for alternative fuels, diesels, and hybrids, but determined that such models are not presently an option, due to lack of cost effectiveness and a lack of appropriate vehicles in the market. They also note that "this is an area we can review as more models become available."

Maintenance and Service Vehicles

Carleton's Facilities and Maintenance Department operates 33 full-sized vehicles, 6 'Gators' and 7 tractors. The larger vehicles—trucks and cargo vans—have an average fuel economy of 18 miles per gallon. The Gators are gas powered and the tractors run on diesel. Last year, the College experimented with B20, but did not continue its use this year. Also last year, a number of students worked on a project examining the possibility for biodiesel production on campus. One student furthered the research by taking the project on as his ENTS Capstone Project. In short, the students proposed that maintenance and service vehicles be run on biodiesel produced on-campus from food waste.

Student Transportation and Transit

Carleton's proximity to the Twin Cities appeals to students, but unfortunately, busy schedules and infrequent bus service equal few trips to the Cities. A similar situation exists even in Northfield; it's often more convenient to borrow a car to make a grocery store run than to use available public transportation. Though not always convenient, walking and bicycling are viable options in a town the size of Northfield; however, traveling beyond city limits requires other means of transportation. The following transportation services are currently available to Carleton students: 1) The Co-op Bus, 2) The Love Bus, 3) Dial-A-Ride/Northfield Transit, 4) A & R Taxi and Taxi First Choice, 5) Jefferson Lines, 6) Care Tenders, and 7) a Car Pool Conference on Caucus as well as a Ride Share section in the Noon News Bulletin (NNB). All of these services are underutilized.

Faculty and Staff Commuting

Carleton employees must commute to and from the College on a near daily basis. While some live close by in Northfield, many others commute from the Twin Cities or surrounding cities like Owatonna and Faribault. The College, in working towards carbon neutrality, must consider carbon emissions from outside sources such as faculty and staff vehicles.

Parking Space

Parking space at Carleton is, at best, limited. However, whether parking is a pressing issue is debatable. This year Carleton issued 455 student and 1,178 faculty and staff parking permits. The Carleton Master Plan states that "Parking should be eliminated from the interior of the campus and placed around the campus perimeter to minimize vehicle/pedestrian conflicts and to remove it from view from within the campus". The EAC agrees that green spaces on campus ought to be preserved, and vehicle/pedestrian conflict minimized. However, ideally no or very few new lots would need to be constructed; instead, alternative forms of transportation would be more widely utilized.

Actions taken:

Fall term of this year, the Transportation subcommittee focused its research on biodiesel fuel. We aimed to determine whether biodiesel production might occur on campus using waste vegetable oil from the dining halls and even local restaurants. The committee contacted a number of local restaurants in order to determine how much waste oil they produced, as well as met with interested students at Saint Olaf to discuss possible collaborative efforts. However, little administrative support existed because of concerns over waste management and safety of production, as well as the location of the production facility. Further, many restaurants in town had contracts with local waste oil haulers and were hesitant to discuss breaching this contract. And unbeknownst to us at the time, the College had agreed to sell its waste vegetable oil to a local farmer. Ultimately, we learned of discussions that were occurring at REnew Northfield meetings about the possibility of siting a biodiesel production facility in town in collaboration with Sundays Energy of Minneapolis, and decided that producing biodiesel on the small campus scale would not be the most effective means of reducing our fuel dependence.

Fleet Vehicles

The EAC recognizes that the vehicle fleet is widely and frequently used by students, faculty and staff. Rather than seeking to eliminate or cut down on fleet vehicle usage, the Transportation subcommittee focused its research on replacing current fleet vehicles with more fuel-efficient models and particularly, with models owned by companies like HourCar, a car sharing service that allows for access to vehicles on a per trip basis. The EAC Transportation subcommittee met with an HourCar representative on 26 April 2007. The representative then presented his case to the entire EAC at our regularly scheduled meeting.

Maintenance and Service Vehicles

Members of the subcommittee looked into replacing the present maintenance and service vehicle fleets. Presently, we conclude that it is not cost effective at this time to consider replacement of these vehicles with more fuel efficient prototypes. It is a large investment, and would save only a small amount of fuel. However, over time, as used hybrid or alternative-fuel-vehicles become available, presumably at a reduced cost, it may be prudent to reconsider.

Student Transportation and Transit

Presently the EAC is exploring transportation options for students for both around Northfield and to and from the Twin Cities. This involves consideration of bus system operation and scheduling, namely, whether it would be feasible to offer more departure and arrival times and whether this would ultimately increase ridership. Further, alternatives to bus transit are being explored. For instance, students might use a service like HourCar, as previously mentioned (see Fleet Vehicles), or NuRide, an online ride share network, allowing members to arrange ride sharing trips and to earn rewards in the process. Additionally, this term, students Becky Dermbach, Mikaela Hagen and Cristina Sainati conducted a transportation survey for an ENTS class project. Their research and findings were useful to our subcommittee (this project and survey can be found by the ENTS Educational Associates).

Faculty and Staff Commuting

The EAC is presently compiling information on the location of faculty and staff residences, how faculty and staff get to and from work at the College, and their proximity/access to, and the availability of, public transportation. As with student transportation and transit, the following options are being explored for both faculty and staff transportation: ride share networks like NuRide, car sharing services like HourCar, and a searchable online database/directory of College employees to encourage carpooling, as well as the viability of faculty and staff use of public transportation or bus systems.

Parking Space

The Transportation subcommittee conducted a vehicle count with the aid of volunteers on 4 May 2007 to determine the availability of parking spaces on campus, and how many students, faculty and staff vehicles are parked on streets in neighborhoods directly adjacent to campus (parking data can be found on the ENTS Educational Associate

computer). At present, the results are inconclusive. Parking space was widely available in lots further from the center of campus, such as the Recreation Center parking lot, and also on streets further from campus, but limited on the campus itself.

Information gathered/documents produced:

The above information was compiled, as well as raw data, detailed information about Carleton vehicles, and information regarding transportation options the College may consider. The transportation subcommittee has put together a proposal including suggestions and recommendations for the College.

Publicity:

An article was recently published in the Carletonian regarding parking on campus in which the EAC's work was mentioned. To our knowledge, no other publicity related to the EAC Transportation subcommittee has occurred.

In progress/Follow-up actions:

Adam Smith and Bruce Anderson will be working together this summer and next fall to develop detailed recommendations concerning fleet vehicle options, as well as options regarding alternatives to single-occupant vehicle commuting to and from campus by faculty and staff. They plan on presenting this information to College administrators in the fall.

Long-term goals and plans:

- Replace fleet vehicles with more fuel-efficient models, hybrid or alternative-fuel vehicles, and in conjunction with car-sharing services like HourCar
- Replace maintenance and service vehicles as necessary, over time, with used hybrid or alternative-fuel vehicles
- Encourage use of public transportation by students and develop effective car-pool/ride-share service
- Develop effective car-pool/ride-share service for use by faculty and staff
- Limit the number of parking permits issued

Suggested Student Projects:

- Develop effective car-pool/ride-share service for use by students
- Develop effective car-pool/ride-share service for use by faculty and staff

C. COMMUNICATION

Situation:

The function of the Communications Subcommittee is to increase awareness of the work of the EAC and sustainability initiatives on campus generally. The committee aims to inform and update the campus on EAC projects and goals. This year, we focused on newspaper, radio, and website media to accomplish this task.

Actions taken:

Communications worked with local Carleton media, such as KRLX and the Carletonian to infiltrate information about the EAC. Additionally, Communications has taken on the designing and creation of the Carleton Sustainability Website.

Information gathered/documents produced:

KRLX Weekly Local featured Lizzy Shephard. There were several Viewpoint articles published in the Carletonian regarding EAC and sustainability related events on campus. Communications worked with website developer, Matt Ryan and student worker, Bedrich Rios to produce a sustainability website mock-up of website.

Below is a letter to potentially be sent to departments and programs at Carleton, initiating regular communication between the community and the EAC:

Dear members of the {XX} Department,

As you may well know, Carleton has a long legacy of environmental awareness and progressive action. Therefore, it may come as no surprise that the College is taking steps to confront climate change on a very local level. Recently, President Oden signed the national President's Climate Commitment, which commits Carleton to developing and implementing a plan to achieve carbon neutrality (or, net zero greenhouse gas emissions). On an institutional level, the Environmental Advisory Committee is taking on this challenge and will be developing a timeline over the next two years to achieve this ambitious goal.

A large part of this effort will be a fundamental change in institutional ethos. Individual and collective behavioral change can go a long way in reducing the College's greenhouse gas emissions. In this vein, the President's office, at the recommendation of the Environmental Advisory Committee, requests that your department identify opportunities to reduce wasted energy and materials, and pursue strategies to institutionalize these efforts. Please know that the EAC is also available for assistance – both informational and funding – to departments in search of guidance and project ideas to create sustainable changes on campus. Information on the role, function, and schedule of the EAC can be found on this website: <https://apps.carleton.edu/governance/environment/>. Additionally, in the fall, we will be

sending you a list of actions that your department can take to reduce its energy consumption and accompanying greenhouse gases emissions. We hope you will take the time to consider these potential actions and commit to doing your part to move Carleton towards a carbon neutral future.

Carbon neutrality, and sustainability in general, will require broad support and significant action from all of us. Thank you and your department for helping the College in its transition to a healthy, just, and sustainable future.

Sincerely,

Fred Rogers and the Environmental Advisory Committee

Publicity:

In order to inform others of our communication projects, we sought out specific help from individual community members to work with us.

In progress/Follow-up actions:

Communications should focus on more consistency with ensuring the local media is continually updated on the work of the EAC. One suggestion to accomplish this is to delegate the responsibility of writing such articles to one person to make sure the job gets done. Another suggestion is to appoint EAC members to be interviewed on KRLX. Also, the EAC website needs to be continually updated and this could ideally be done by the secretary or one of the co-chairs.

A big challenge this committee faces is the upkeep of the sustainability website. This is a huge task that requires several individuals. We suggest that this responsibility continues to expand to multiple people, with each individual having one section of the site to update and control. Under the Initiatives section, we suggest that one staff member be asked to continually update their respective section with the help of next year's sustainability workers. The other sections should be divided among the ENTS and Sustainability Intern, as well as ENTS faculty (it would be helpful for one faculty member in particular to be responsible to update the Faculty Resources and Academic Programs sections). The sustainability website will be open to the public by the end of the term.

Finally, the EAC should create an organized framework to regularly work with the wider campus community in becoming more sustainable on a day to day, behavioral basis. In early Fall, the EAC should send out a letter to the heads of all Departments and Programs urging them to take specific sustainable behaviors. Be creative in finding ways for faculty, students, and staff to help brainstorm sustainable solutions. Perhaps a frequent EAC newsletter with updates as well as highlights of the success and efforts of particular departments/organizations may be helpful in building a greater culture of sustainability. This final suggestion is highly recommended.

Long-term goals and plans:

In the future, Communications plans on pitching more stories to the media so that the function of the EAC and Carleton sustainability initiatives may be communicated to a wider audience. The website should eventually be a central hub of information on sustainability. Additionally, Communications aims to improve its communication with St. Olaf and Northfield.

D. PAPER

Situation:

We've worked on two projects this year – helping ITS select print management software and encouraging the college to switch to 100% Post-Consumer Waste (PCW) recycled paper. The former has moved slowly and steadily on its own accord, and hopes to conclude its selection process by June, 2007. The latter has been a less successful, ongoing project, as it has been for many years.

Actions Taken:

The ITS-led Print Management Software Committee will implement a new print management software system in the fall of 2007.

Information Gathered / Documents Produced:

All print management software information and documents are in the hands of Sue Traxler and other ITS staff. The accumulated correspondence, prices quotes and contacts regarding recycled paper have been passed on to rising junior Eliza Berry (class of 2009).

Publicity:

None

In progress / Follow-up actions:

Print management software implementation will take place over the summer. If there is any hope on the recycled paper front, it is in the EAC bargaining for a lower 100% PCW price from either the existing distributor or a new distributor. Carleton's buying power is limited, so such a switch might involve cooperation with other southern Minnesota colleges. This will be easier to coordinate next September of 2007, when other colleges are in session.

Long-term goals and plans:

Thanks to the new print management software, ITS should soon be able to implement a print system with quotas and individual costs, which would further reduce campus consumption of paper. In terms of moving towards 100% PCW paper, working with other area colleges to bargain for a zero-cost switch would be a good next step.

III. STEWSIE SUSTAINABILITY AWARDS

This year, the EAC formalized a process for giving out annual sustainability awards (see below). Next year, this award should be more publicized and celebrated by the wider community.

The Stewsie Sustainability Award

Purpose

The Stewsie Sustainability Award is given to a Carleton student and faculty/staff member every year whose character reflects the determination, conviction, and innovation of the life-long service of Dresdon Blake Stewart, better known as "Stewsie". As employee and later Superintendent of Grounds, Stewsie served the college for over 50 years, and was given the title "Landscape Architect" in his later years. Never found without a shovel in hand, he was dedicated to improving his community's environment, keeping strong his deep convictions to preserving the natural order of the local habitat. Through his problem-solving, will-power, and enthusiasm, Stewsie ensured the health and vitality of our environment.

Funding

A natural symbol, provided by the Dean of Students Hudlin Wagner, will be given to each recipient. The student will also be awarded a cash prize determined by the Environmental Advisory Committee (this will come from the EAC budget) as well as funds to attend a sustainability conference the following year (total award amount given is under \$300).

Eligibility

- 1) Student
 - Nomination (unsolicited) by a member of the Carleton faculty, staff, or students
 - Full-time Carleton student
 - Sophomore or Junior standing
 - Nominee embodies Stewsie's spirit through a specific sustainability project that improves the health of human-environmental relationships on campus and beyond
 - Nominee whose experiences and character best reflect the spirit of Stewsie's conviction and dedication to our human relationship to the natural world
 - Non-winners may be re-nominated in subsequent years
- 2) Staff or Faculty
 - Nomination (unsolicited) by a member of the Carleton faculty, staff, or students
 - Full-time Carleton faculty or staff member

- Nominee embodies Stewsie’s spirit through a specific sustainability project that improves the health of human-environmental relationships on campus and beyond
- Nominee whose experiences and character best reflect the spirit of Stewsie’s conviction and dedication to our human relationship to the natural world
- Non-winners may be re-nominated in subsequent years

Award Process

Any member of the Carleton community is invited to submit a student name in nomination to Hudlin Wagner, Dean of Students, or Mark Kanazawa, Director of ENTS.

All faculty and staff nominations should be submitted to Lizzy Shephard who will confirm all nominations by contacting the nominator and form a committee to choose winners. Nominations will be requested in early spring.

Deadline for Nomination and Letter of Support

April 15th, One week prior to Earth Day.

Faculty Adviser

Mark Kanazawa

Quotes about Stewsie, taken from *In Search of Fulfillment: Episodes in the Life of D. Blake Stewart*, by Merrill E. Jarchow

“Carleton’s superintendent of grounds seems invincible so long as he can remain in contact with mother earth”

“With his planting, he follows what might be termed ‘a pattern of planned confusion,’ making his landscaping reflect natura at its best, rather than imitate some formal geometric design.

“crusty, cantankerous, hard-driving—these are descriptions which associates have been known to hurl at Stewsie...Stewsie does harbor strong convictions and he does not care who knows what they are...One who loves beauty can only be really harsh with those who mar and revile it.”

“...the powers-that-be at Carleton have recognized the College’s good fortune of winning the devotion and the talent of the man whose vision and effort transformed a barren-looking campus landscape into one of rare beauty...On June 15, 1974, with a Distinguished Service Award, presented him ‘as architect of the campus landscape”

IV. CONCLUSION

Organization, communication, and cooperation have been the pillars of success for the EAC this year, but can still be well improved. The EAC is transforming with greater responsibility and expectations than previous years and it is obligated to continue to surpass those expectations. The EAC has a responsibility to coordinate our privileged resources and capabilities to make Carleton a sustainable community. By being a leader and example in higher education may we not only reach our mission as a college campus, but also show others that a healthy, sustainable community can be created anywhere—even in the cold tundra of Minnesota winters. This community transformation is required worldwide in order for future generations to also thrive in the same biodiversity and healthy environment we experience today. Be proud to serve and support the EAC.

V. REVISED CHARTER

Charter of the Environmental Advisory Committee

Environmental Statement of Principles

“Carleton College recognizes that it exists as part of interconnected communities that are impacted by personal and institutional choices. We are dedicated to investigating and promoting awareness of the current and future impacts of our actions in order to foster responsibility for these human and natural communities. Carleton strives to be a model of stewardship for the environment by incorporating ideals of sustainability into the operations of the College and the daily life of individuals.”

Endorsed by the Board of Trustees, Building and Grounds Committee, 18 May 2001

Carbon Neutrality Value Statement

“Carleton College recognizes that global warming is one of the greatest local and global challenges of our time. The College values the goal of carbon neutrality as a priority for our community, recognizing that this goal merits the consideration of allocation of resources to research and implement technological and behavioral change. The College commits to developing a framework to reduce greenhouse gas emissions with the input of students, staff and faculty. In doing so, Carleton reaffirms its commitment to sustainability as articulated in the Environmental Statement of Principles.”

Approved by the Environmental Advisory Committee, April 18, 2006

Amended and approved by Administrative Council, May 9, 2006

Approved by College Council, May 15, 2006

A. Mission of the EAC

The Environmental Advisory Committee is a standing College committee dedicated to upholding the Environmental Statement of Principles and the Carbon Neutrality Value Statements at Carleton College, ensuring that these visions and ideals are incorporated into all aspects of College function.

B. Membership

- **Students (3):** Two students shall serve as voting members of the Committee, one of whom shall be a member of the CSA senate. In addition to these two students, one non-voting student will assume the position of Secretary of the Committee. Interested students shall apply for these positions early in fall and be appointed by the CSA Liaison and the ENTS 5th year Educational Associate.
- **Faculty (3):** Three faculty shall serve as voting members of the Committee, one of whom shall be either the Director or Associate Director of the Environmental and Technology Studies Program. The Faculty Affairs Committee appoints the two other faculty members for two-year terms.
- **Staff (4):** Four members of the College staff shall serve as voting members of the Committee, one of whom shall be the Facilities Director, one of whom shall be the Director of Energy, and one of whom shall be the Educational Associate. The other member is appointed by the Vice President and Treasurer of the College.
- The Committee will be chaired by the Educational Associate, the Director of Facilities and either the Director or Associate Director of ENTS. Chairs will meet before every meeting and divide the duties of agenda-writing, meeting facilitation, and treasury.

C. Function

- Strive to incorporate sustainability into all aspects of the College, including current and future plans for campus buildings, landscaping, and construction.
- Ensure that the campus is working towards accomplishing the objectives of the President's Climate Commitment, including but not limited to:
 - Developing and maintaining a greenhouse gas emissions inventory
 - Developing and implementing an action plan for attaining carbon neutrality
 - Proposing specific projects that will reduce the College's greenhouse gas emissions
 - Monitor and support measures to integrate sustainability into the curriculum
- Coordinate the Sustainability Revolving Fund
- Serve as a forum for campus discussion and innovation regarding sustainability at Carleton
- Coordinate and prioritize sustainability projects, in conjunction with students and classes, with environmental organizations on campus, and with the greater Northfield community.
- Coordinate annual Stewsie Sustainability Awards

D. Procedure

The EAC will hold formal meetings with all members every two weeks during the term (a total of four to five times a term). These meetings will always be publicized and open to the public. Subgroups of the EAC will meet regularly, in between formal meetings, throughout the term. Approval of an action will be decided by a majority vote of members that are present at formal meetings. A quorum of five voting members is required for a vote to be taken.

The Co-chairs of the EAC will meet regularly with the Vice-President and Dean of the College to help facilitate and incorporate sustainability values and practices into our community. Furthermore, twice a year (once in the Fall and once in the Spring), Co-chairs will report to the President of the College, updating the President on Committee progress on the President's Climate Commitment.

Coordination and prioritization of sustainability projects, in conjunction with students, classes, on-campus environmental organizations and the greater Northfield community, will primarily be the responsibility of the Educational Associate. He or she will do so by ensuring that the College sustainability website is updated regularly, by organizing meetings, and by seeking the support of the Sustainability Assistants. At every EAC meeting, the Educational Associate will provide a summary report on current campus sustainability projects.

The EAC will prepare an annual report of its activities during each academic year which will be made public. Additionally, one year after its formation, and every second year following, the EAC will review

the effectiveness of its membership, and functional and procedural guidelines, and will propose any changes deemed necessary to appropriate governing bodies.

E. Budget

The EAC is allocated an annual budget. This budget will be used only for projects and initiatives related to the functions of the Committee, and the use of funds will be decided by a majority vote of members present at the formal meetings. A quorum of five voting members is required for a vote to be taken. The Director of Facilities and the Director of the Environmental and Technology Studies Program will manage the EAC's budget and give periodic updates on the status of the budget as well as report any activity of the budget. The EAC will report to the Budget Committee once a year for larger requests.

Proposals for the Sustainability Revolving Fund will be scheduled in advance (contact the Educational Associate) and presented at SRF subcommittee meetings. The SRF subcommittee will then present their recommendations to be endorsed by the EAC.

Revised and approved June 1, 2007 by the Environmental Advisory Committee