Nationally, there is a lot of buzz around “green jobs” and Colgate students are taking notice. Over the past several months, I’ve been approached by dozens of students seeking advice about careers rooted in the green movement.

Fortunately, Colgate students pursuing good work that is good for the planet may find themselves with growing opportunities. Green jobs are on the rise, which can help save our economy and our environment. According to a June 2009 Pew Charitable Trust study, the renewable-energy industry has added jobs at more than twice the national rate. The US Green Building Council's 2009 Green Jobs Report predicts that the green building industry will create 7.9 million jobs, contributing $554 billion to the U.S. GDP, in the next four years. And the Center for American Progress concluded that “the economic stimulus program and the forthcoming American Clean Energy and Security Act can generate a net increase of about 1.7 million jobs.” Even President Obama promised to create five million green jobs over the next ten years.

For those that don’t know, a “green job” is any job that combines a good paycheck with environmental and social responsibility. To clear up some confusion, green jobs generally fall under three categories.

1. **Green-collar job.** Green-collar jobs are essentially career-track, blue-collar jobs that preserve or enhance environmental quality. Green-collar workers install solar panels, retrofit buildings, conduct home energy audits, construct urban vegetable gardens, refine waste oil into biodiesel, and much more.

2. **Green job.** A green job is a professional-level job specifically created to meet the demands and needs of a growing green movement. Green job employees include sustainability officers, climate change officers, organic farmers, recycling coordinators, social entrepreneurs, and many others.

3. **Job greening.** Job greening is achieved by any employee who adds a green component to their day-to-day responsibilities. Examples include an administrative assistant who implements a recycling program in their workplace, a grounds manager who uses organic fertilizer instead of a synthetic one, a purchasing manager who switches from virgin paper to recycled paper, and many others.

Continued on page 4
College students often study what they love. Students that see beauty in a perfect proof study math. Students impressed with the wonder of life on the planet study biology. My own early experiences with nature translated to a college degree in wildlife science. So, it may not be surprising that students majoring in environmental studies often have a passion for environmental quality that translates to other activities on campus. Katelyn Ciolino, Meg Cronin, Shae Frydenlund, Maria Kryachko, Kathleen Onorevole, and Ben Taylor are among many students in the Environmental Studies Program class of 2010 to generously give their time and energy to campus initiatives related to environmental sustainability. We will miss the efforts of our fine seniors, along with many similarly-minded seniors in other departments and programs, who have worked so hard for environmental quality on campus and beyond.

We also reluctantly say farewell this spring to several faculty and staff that have been important to the program, including Ana Semel, Linda Rauscher, and Jake Brenner. Like me, you have probably been enjoying Ana’s weekly program updates. Ana has been instrumental in organizing the recent Green Careers Forum, a successful seminar series, a first-rate web page, an excellent newsletter, and too many other things to mention. Ana leaves us for law school at Boston College. Study hard, Ana! The Environmental Studies Program also loses our excellent administrative assistant, Linda Rauscher, this year. Linda has been an integral part of the program for many years, and her high-quality work and attention to detail will be sorely missed. Those who know Linda know that she wears many hats and wears all of them well. Good luck in retirement, Linda! We also say goodbye this term to Jake Brenner, who has been working as a Visiting Assistant Professor in Geography. Jake is moving to Ithaca, where he will be an Assistant Professor at Ithaca College. Congratulations and good luck, Jake!

Our new curriculum went “live” this year. So, the Environmental Biology, Environmental Economics, Environmental Geography, and Environmental Geology majors as well as the Environmental Studies minor have slightly modified requirements. Students also can now major in Environmental Studies—an interdisciplinary major that can be linked to depth in any academic area on campus. I am pleased to report that nine students in the class of 2012 have declared a major in Environmental Studies. Three of these students are linking their degree in ENST to an academic focus not possible in the old curriculum. So, even this early in the process, it is evident that the new major is doing what we had hoped—allowing for the sort of flexible, interdisciplinary environmental training that will be so important to students after graduation. (If you don’t believe me, read John Pumilio’s article about the Green Economy on page 1.)

Spring registration is almost upon us. Please see the partial listing of ENST-related courses on page 3. Generally, we plan to offer ENST 202, ENST 232, and ENST 390 every term and ENST 490 once per year. We will continue to offer ENST 100 and ENST 101 as teaching and student interest allows. See details of the exciting new extended study to Norway led by Beth Parks on page 4. There are now three extended study options specifically for students with an interest in environmental studies: (1) Study of environmental health in Uganda, (2) study of tropical ecology in Costa Rica, and (3) study of energy and climate change in Norway. Environmental Studies continues to participate in the autumn study abroad program in Wollongong, Australia. Students should consider whether they can fit any of these exciting off-campus experiences into their academic program.

Colgate’s Environmental Studies Program continues to change and expand in response to student interest and global needs. Thanks for making this program great through your active involvement.

~ Tim
Fall 2010 Course Offerings*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>BIOL 211</td>
<td>Evolution, Ecology &amp; Diversity</td>
<td>Fuller/McHugh/Watkins</td>
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<td>BIOL 336</td>
<td>Advanced Ecology</td>
<td>Fuller</td>
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<tr>
<td>BIOL 371</td>
<td>Molecular Ecology</td>
<td>Ingram</td>
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<td>ECON 228</td>
<td>Environmental Economics</td>
<td>Sirianni</td>
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<td>ENST 101</td>
<td>Social Science Perspectives on Environmental Issues</td>
<td>Baptiste</td>
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<td>ENST/PHIL 202</td>
<td>Environmental Ethics</td>
<td>Blackman</td>
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<tr>
<td>ENST 232</td>
<td>Environmental Justice</td>
<td>Baptiste</td>
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<td>ENST 390</td>
<td>Community-Based Study of Environmental Issues</td>
<td>McCay</td>
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<td>GEOG 111</td>
<td>Global Change: Geographic Perspectives</td>
<td>Hays-Mitchell</td>
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<td>GEOG 121</td>
<td>Human Impact on the Environment</td>
<td>Klepeis</td>
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<td>GEOG 245</td>
<td>Geographic Information Systems</td>
<td>Yamamoto</td>
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<td>GEOG 320</td>
<td>Globalization, Development &amp; Environment</td>
<td>Hays-Mitchell</td>
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<td>GEOG 326</td>
<td>Environmental Hazards</td>
<td>Klepeis</td>
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<td>GEOL 101</td>
<td>Environmental Geology</td>
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<td>GEOL 135</td>
<td>Oceanography</td>
<td>Leventer</td>
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<td>GEOL 302</td>
<td>Stratigraphy and Sedimentation</td>
<td>Selleck</td>
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<tr>
<td>GEOL 430</td>
<td>Acid Rain Seminar</td>
<td>April</td>
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<tr>
<td>HIST 220</td>
<td>American Environmental History</td>
<td>Bouk</td>
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</tbody>
</table>

* Courses are subject to change. Not all courses that fulfill the major and minor requirements are listed. Please check the online course offerings for a complete list.

How Does the Environmental Studies Program Work?

Environmental studies is an interdisciplinary program within the Division of University Studies. Environmental studies has one full-time faculty member and six other faculty members with a partial appointment in the program. However, the program largely exists because of generous contributions from faculty in other departments.

Faculty with full or partial appointments in environmental studies: April Karen Baptiste, Frank Frey, Randy Fuller, Jason Kawall, Tim McCay, Paul Pinet, and Bob Turner.

The Environmental Studies Program is administered by a director (currently Tim McCay) with guidance from a steering committee of interested faculty from across campus, currently: April Karen Baptiste, Keith Broekhuizen, Adam Burnett, Chris Henke, Jason Kawall, Paul Pinet, and Bob Turner. Invaluable help is provided by our program assistant, Ana Semel, and administrative assistant, Linda Rauscher.

Need to know more? Ask any of the faculty listed above or our program assistant, Ana Semel. 🦋
Colgate’s high-quality liberal arts education, including the Environmental Studies program, offers a great jumping off point for a green job. February’s Green Careers Forum offered a snapshot of a few Colgate graduates who have impressive green jobs. View the video clip: www.colgate.edu/green.

A few of the many resources in the search for green jobs include:

- Green Dream Jobs: http://www.sustainablebusiness.com/index.cfm/go/greendreamjobs.main
- Green Jobs Spider: http://www.greenjobspider.com
- GreenBiz: http://jobs.greenbiz.com
- Grist: http://jobs.grist.com
- Treehugger: http://jobs.treehugger.com/

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**On-campus Class Followed by Three Weeks in Norway**

Beth Parks, Study Group Director and Associate Professor of Physics and Astronomy

Norway is in an unusual position with regards to energy: it has become a prosperous nation on the basis of its oil reserves, but it is a socially liberal country with a deep commitment to halting global warming. Norway developed the first commercial carbon sequestration site, and it has since built a second, with a third site in development. Additionally, it has committed substantial research funds to energy conservation and alternative energy technologies. The Norway extended study program works at four sites in Norway: Bergen, Oslo, Trondheim, and Hammerfest. The first three sites house centers of research on alternative energy and carbon capture; the fourth site is a working carbon capture and storage plant. The group will travel nearly the entire length of Norway, moving about 1000 miles from south to north, so that by the end of the trip, we will (weather permitting!) experience the famed midnight sun.

The on-site component will consist of lectures, tours, and projects at research labs. We will also have excursions to glaciers and fjords, and we will speak with experts about attitudes of Norwegians on fossil fuel and alternative energy.

The extended study experience will be a required component of an on-campus course entitled “ENST 334: Alternative Energy and Mitigation of Global Warming” (0.5 credit on campus / 0.5 credit extended study). In the on-campus portion of the course, students will learn the fundamentals of existing alternative energy technologies such as wind energy (including land, shallow water, and deep water), solar energy, tidal and wave energy, as well as carbon capture and storage technology. This groundwork will allow students to understand (and, in some cases, participate in) current research.

**Dates:** Spring 2011 (on-campus course), May 9–31, 2011 (travel)

**Course credit:** One credit (.5 credit on campus, .5 credit extended study)

**Prerequisite:** Students will be accepted from all concentrations, with preference given to ENST concentrators. Secondary preference will be given to students who have completed ENST coursework or science classes that will allow them to contribute to the knowledge basis of the class.
Chef Nash believes in providing high quality food to the young men of Colgate University’s Theta Chi Fraternity House. To Chef Nash, “It is nicer when you can attach a place or a face to a product. It tends to be a better product… people take more pride and appreciation in what they’re doing when they know it will be consumed within their own community. [He has] always found better quality from the smaller producers.”

Before CNY Bounty, although Chef Nash wanted to support local farmers and processors, it was difficult. “It is inconvenient to call all of the purveyors. My time is better spent preparing the food.” But CNY Bounty makes it easy. “The beauty of the Bounty is that they do all of the leg work.”

CNY Bounty supports local farmers and producers by creating new markets for locally produced foods, thereby strengthening the local economy and providing healthy food to all citizens of Central New York in an environmentally responsible way. Each week, Bounty staff coordinate weekly product availability with farmers and producers and upload the products, prices, photos and descriptions on the website. Consumers can go online to www.cnybounty.com before Monday at noon to place an order. Orders are collected from the farm on Wednesday morning by Bounty staff, taken to the shared distribution center, and distributed by Bounty staff to customers’ doorsteps or strategically located drop off points on Wednesday or Thursday afternoon. Delivery is free for orders over $35 or for orders of any size to drop off points. CNY Bounty operates year-round and currently works with over 90 farmers and producers.

This week, Chef Nash ordered meats, breads, produce, and some dairy. He is using herbs he purchased from Finger Lakes Fresh and Heritage Farms in tonight’s sauerbraten dinner. (Sauerbraten is a German pot roast marinated before cooking in a mixture of vinegar, water, spices, and seasonings). Tomorrow for lunch he will use the whole wheat pasta he got from The Pasta Shoppe in an alfredo dish.

Chef Nash says that he is going to encourage other fraternities to buy through CNY Bounty. “You have a bigger effect on the local economy and environment when you are buying local and that is a priority for me. The young men of the house are aware of high quality products and they have really encouraged this buying process.”

Jerry Nash is the Chef for the Theta Chi Fraternity House at Colgate University in Hamilton, NY. Chef Nash has worked at Theta Chi for over 10 years. Becca Jablonski is the Agricultural Economic Development Specialist for Madison County, NY. For more information about CNY Bounty, please visit: www.cnybounty.com
Colgate Community Garden
Maria Kryachko ‘10

To forget how to dig the earth and to tend the soil is to forget ourselves.
Mohandas K. Gandhi

In the fall 2009, a group of students in the ENST 480 class started researching the possibility of having a community garden on Colgate campus. The Garden would serve as an educational tool for the Colgate community and provide opportunities for experiential learning through student jobs and volunteering. It would promote local foods and, along with the college compost facility, participate in the food cycle at Colgate. Some of the produce would be taken by volunteers as their share for working and the rest of it would go into Frank Dining Hall towards a featured meal.

The idea had been implemented by many of our peer institutions, such as Hamilton, Middlebury, Cornell, and had long been advanced at Colgate by a club called Green Thumbs. However, nothing tangible was achieved and surprisingly so, considering how many land and knowledge resources Colgate has simply by being located in Central New York. At the end of the fall semester, the ENST 480 team consisting of Meg Cronin ’10, Teddi Hofmann ’10, Maria Kryachko ’10, and Kate Pavelich ’10, came up with a thorough report that outlined how the garden could be implemented and maintained. The idea was welcomed by Lyle Roelofs, the Interim President, and it was decided to continue with it into the spring. In addition to the ENST students, the working group has expanded to include the Green Thumbs and its President Emily Sabo ’11, members of faculty and staff, such as Chris Henke, Assistant Professor of Sociology, and John Pumilio, Sustainability Coordinator, along with other representatives of the Sustainability Council.

The priority questions which are being addressed right now are the location of the Garden and its management. Out of the five proposed sites, the choice has been made in favor of the Old Golf Course, a ½ acre area on its eastern side. The exact location is not yet known and additional soil tests are needed. The management plan has been recently approved and it includes hiring an outside Gardening Consultant (for the first year), one part-time student manager in the fall/spring, and two full-time student workers in the summer. The Green Thumbs would recruit volunteers and be in charge of Garden operations. Additionally, a Garden Advisory Committee of local volunteers would provide support to the Garden group.

The project has gained lots of momentum this year and is very close to becoming reality. But your support is key at every stage and we sincerely hope that you share our excitement. Stay posted!
Colgate Gets Caught Up in RecycleMania!

Lauren Miller ‘11

This year, for the first time, Colgate was entered in RecycleMania (recyclemania.org), a 10-week recycling competition between hundreds of colleges and universities across the U.S. It began on January 17th and ran until March 27th and was intended to increase awareness and improve recycling rates across campus. In addition to encouraging the healthy habit of recycling, the RecycleMania team worked to reduce the overall waste per person, as Colgate was officially entered in the Waste Minimization category. Each week, we measured, reported, and tracked our progress compared to our peer institutions. At last check, Colgate was beating Harvard, Princeton, Duke, Bowdoin, Emory, and Bucknell (but we were just behind Dartmouth and Middlebury). Between the first and sixth week, overall waste per person drastically decreased, recyclables increased, and landfill trash went down by almost 5,000 lbs! Everyone can continue to do their part to reduce waste on campus by 1) reducing overall consumption and disposal of unnecessary things, 2) using a reusable mug or container instead of using throw away cups or one-time use bottled water, and 3) printing double-sided whenever possible. For more ideas on how to reduce waste and be more sustainable, visit the sustainability website (colgate.edu/green), and check out the RecycleMania page!

Colgate Seniors Are Awarded Watson Fellowships

Colgate seniors Shae Frydenlund and Jennifer Rusciano have been awarded the prestigious Thomas J. Watson Fellowship, a $25,000 grant for one year of independent study and travel outside the United States.

Shae, a top student who excels in environmental geography and art, will examine the environmental impact of the demand for valuable plants through the medicinal plant trade. She will travel to Ecuador, Russia, China, Tanzania and Albania to create a documentary that shows the complex ecologies of the medicinal plant markets and promotes sustainability within it.

Jen, a hardworking geography major who, along with Shae, was on this year’s Green Summit hosting committee, will explore the relationship between chocolate, communities, and culture in the United Kingdom, France, Ghana, Madagascar, Costa Rica, Venezuela and Ecuador. She will investigate how the ideas and values of consumers, manufacturers and organizations in the developed world affect the lives of cocoa farmers and their communities in developing regions.

In addition to the Green Summit, Jen and Shae have participated in many ENST and sustainability activities and initiatives at Colgate, including the Campus Ecology Group, RecycleMania, the Sustainability Council and more. Their contributions to the Colgate community are invaluable. We wish them much success next year.
This year’s Green Summit proved to be as exciting and productive as years past, as there was record attendance and a visible atmosphere of enthusiasm. In its 11th year, the event focuses on grassroots environmental activism, and stipulates “action by Earth Day” in 13 different categories. The goal is to enact positive change on campus by April 22; previous successful group efforts include GreenBikes, the Willow Biomass project, and our very own Sustainability Coordinator! Some of this year’s groups include Ban Bottled Water, Fair Trade, Green Events and Green Videos, to name a few. John Pumilio, campus Sustainability Coordinator, opened the event with a short, but inspiring, speech discussing Colgate’s progress with respect to green initiatives, the importance of Green Summit and the current barriers that Green Summit can address.

In a little over three hours, approximately 100 students, faculty, staff and community members had come together to create action plans that outlined specific goals for addressing their issue by Earth Day with the help of Chris and Amy from Commonthread Farms, as well as a panel of experts composed of Ian Helfant, Bob Turner, Chris Henke and Ana Semel. The event came to a close with skits from each group, which encapsulated their efforts and provided for a good laugh. The Green Summit is truly the apex of grassroots organizing on campus, and will continue to provide the foundation for some of Colgate’s most influential environmental campaigns.