

*The University created a focus on sustainability this past year, with numerous initiatives designed to educate and engage members of the University community in saving energy, enhancing environmental awareness, reducing carbon footprints and learning as much as possible about how one person — and one campus — can take steps that will make a difference to future generations and allow this generation to live sustainably and responsibly in the present.*

# Global Sustainability

UNH offers  
Tools, Inspiration  
for the Challenge  
at Hand

This summer, UNH Marine Biology graduate student Justin Goggins gathered algae from Long Island Sound during research supported by a grant from the Connecticut Center for Advanced Technology. UNH faculty members and students will determine whether the algae can be used as biofuel.





# Academic Initiatives



- The University attracted significant media attention for Dr. Carmela Cuomo's biodiesel research, which examined the viability of using algae from Long Island Sound for fuel. Her research was awarded a \$135,276 grant from the Connecticut Center for Advanced Technology (CCAT), one of three awarded through the Connecticut Fuel Diversification Grant Program administered and funded by the state Department of Economic and Community Development.

- A new course, EAS 300, Global Solutions for Sustainability, has been introduced by Tagliatela College of Engineering faculty Agamemnon Koutsospyros and Amy Thompson for the Fall 2009 semester as part of the University's core curriculum. The course will take an interdisciplinary approach that includes team-based work, hands-on projects and lectures from guest speakers.



“There is a need for engineering and design students to understand the impacts of their designs on the global environment, society and marketplace.”

Amy Thompson



- Three undergraduate and three graduate students from the Tagliatela College of Engineering volunteered their time to research methods for calculating the University's carbon footprint. Their research presented descriptions of a carbon, climate and ecological footprint and greenhouse gas emissions, and investigated the variety of approaches taken by top universities in calculating their own carbon and climate footprints.

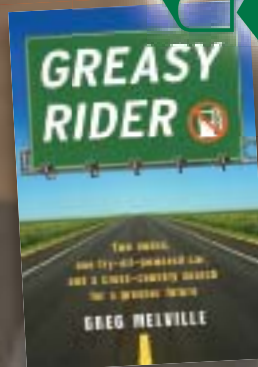
- Dr. Sam Daniels took a sabbatical this past spring to develop new courses in sustainable engineering for juniors and seniors in Chemical, Mechanical, Computer and Electrical Engineering. He also submitted two manuscripts for publication, and developed a proposal for a bachelor's degree and/or a master's degree in Sustainable Engineering.



- Inspired by an article in The New York Times on wind power in New England, practitioner-in-residence Joseph Smolinski created the Tree Turbine project. Research shows that wind-generated electricity is a clean, sustainable alternative to fossil fuels. The use of cellular tower 'trees' moved Smolinski to build a spinning tree turbine that would generate useable electricity while camouflaging the cellular tower.
- Interior Design students focused on sustainable and green design and historic preservation in the ID412 Interior Design VI course.
- A Senior Honors program student prepared extensive research on 'Green Labeling.'
- Students completed an energy audit of Buckman Hall, home to the Tagliatela College of Engineering, as part of Dr. John Sarris' ME305 Engineering Thermodynamics class, and suggested ways to improve the building's energy efficiency.



- "Greasy Rider: Two Dudes, One Fry-Oil-Powered Car, and a Cross-Country Search for a Greener Future," an informational and entertaining work by freelance journalist Greg Melville, was the Common Read Committee's choice for a 2009 work with an environmental theme. The author will speak at the fall 2009 Convocation.



- Carry your own water or coffee in a reusable container (stainless steel, BPA-free plastic).

- Choose recyclable containers when purchasing refreshments. Avoid foam cups with plastic lids and straws.



- Bring your own reusable shopping bags rather than using paper or plastic.



- Recycle! Remember — don't throw away non-recyclables into the bins — one bad apple ruins the whole bunch.

- Reduce. One of the biggest things we can all do is just buy less — buying more fuels our consumerist habits, and hurts our environment in the long run.



# Go Green Campus Initiative

- A Sustainability Committee comprising faculty, staff and students was formed to encourage sustainable activities on and off campus. The group created a campus sustainability webpage that offers tips for saving energy and reducing an individual's carbon footprint and details the University's green effort. Visit [www.newhaven.edu/sustainability](http://www.newhaven.edu/sustainability)



- The University won a grant from the National Recycling Coalition/Coca-Cola Bin Grant Program to equip the campus with recycling bins. Students in the newly formed Go Green Club have posted testimonials on the University's Sustainability webpage detailing their experience with environmental awareness and encouraging other students to go green.

- On Campus Sustainability Day last fall, students, faculty and staff joined in to tidy up the campus in an initiative organized by the University's Student Government Association; the webcast "Climate Realities, Challenges and Progress in Higher Education" attracted an audience to Bartels Hall, the campus center; and Assistant Professor of System Engineering Amy Thompson and undergraduate and graduate students demonstrated the use of the Clean Air Cool Plant (CA-CP) greenhouse emissions spreadsheet for use in calculating a university's carbon footprint.



## Students Make a Difference

The student-run Go Green club creates environmentally friendly initiatives for those on campus and promotes green efforts through various on-and off-campus events. Projects led by the club, headed by Sarah Hosford, who was also a "green leader" at her high school, have included raising the money for compost bins in UNH cafeterias and staging friendly competitions to encourage their use.



"We also established contacts with local organic food producers to do a "taste test" of their foods with the students," Hosford notes. "If the students liked the foods, they were then able to sign a petition to get these foods incorporated into our lunch menu," said Hosford. "This project was such a success that our cafeteria is now beginning to purchase from local food producers."

## Facilities and Transportation

- The new Soundview Residence Hall and Henry C. Lee Institute of Forensic Science are registered projects of the U.S. Green Building Council Leadership in Energy and Environmental Design Program.
- UNH conducted a campus-wide survey to establish benchmarks in researching commuting alternatives to help alleviate greenhouse gas emissions and parking challenges.
- The University implemented a shuttle service to provide transportation within the Greater New Haven area for students, faculty and staff.



- Take quick showers, and turn the water off while soaping.

- Turn off water while brushing teeth/shaving.
- Switch to biodegradable and organic soaps, shampoos and toothpaste — they're better for you and the environment.



- Use eco-friendly cleaners — or make your own!

- Buy recycled products (paper, toilet paper, paper towels, trash bags) or items that contain recycled content.



- Set your thermostat 2 degrees cooler in the winter and 2 degrees higher in the summer and turn it off when you're not at home.

Learn more at [www.newhaven.edu/sustainability](http://www.newhaven.edu/sustainability)