

2010-2012  
ENVIRONMENTAL LEADERSHIP  
AWARDS CEREMONY

NOVEMBER 16, 2012



# UNDERGRADUATE STUDENT

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# TANNER BURGDORF

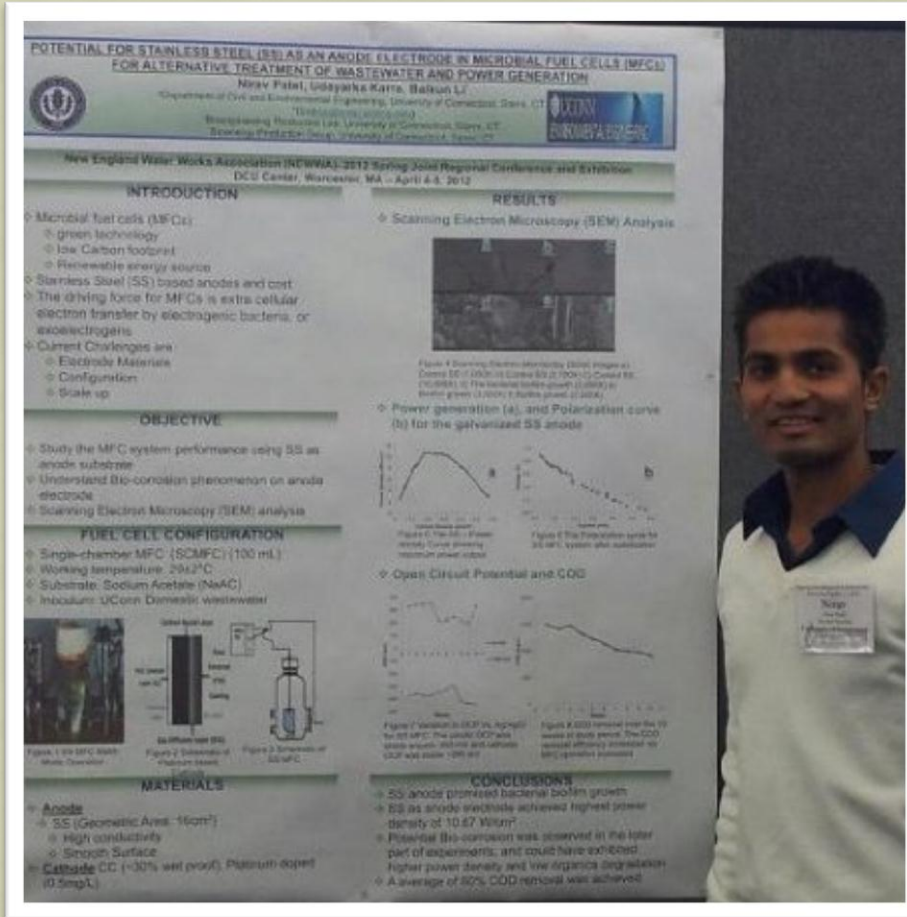
## WINNER



- Senior in Landscape Architecture
- Leader in the EcoHouse Learning Community
- Hard-working resident at Spring Valley Student Farm
- Leading an effort to create a permaculture garden in front of Whitney Dining Hall

NIRAV PATEL  
FINALIST

- Senior in Civil and Environmental Engineering
- Nirav works on biotechnology wastewater treatment
- Conducts outreach activities surrounding microbial fuel cells
- Conducted biotechnology lab demos for high school students during Open House tours



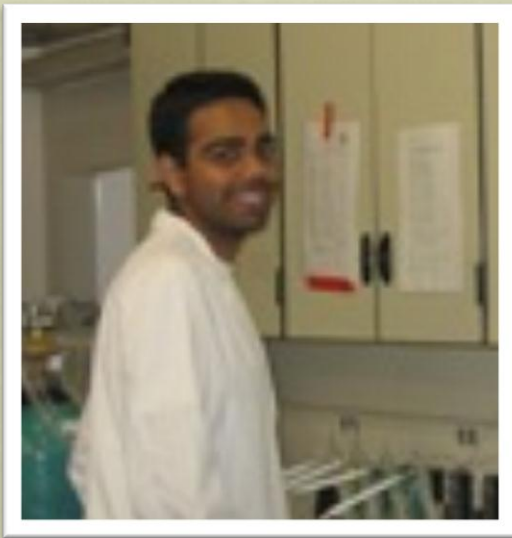


# GRADUATE STUDENT

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# UDAYARKA KARRA

## WINNER



- Ph.D candidate in Civil and Environmental Engineering
- Active in sustainability outreach at UConn and working with high school students on wastewater treatment experiments
- Outstanding Graduate Student Scholarship of New England Water Association (NEWA) in 2011

# CARLO SANTORO

## FINALIST



- Ph.D candidate in Civil and Environmental Engineering
- Research in MFCs and wastewater treatment
- Collaborates with researches from Italy, Austria, France, and England

# BIOENERGY GROUP

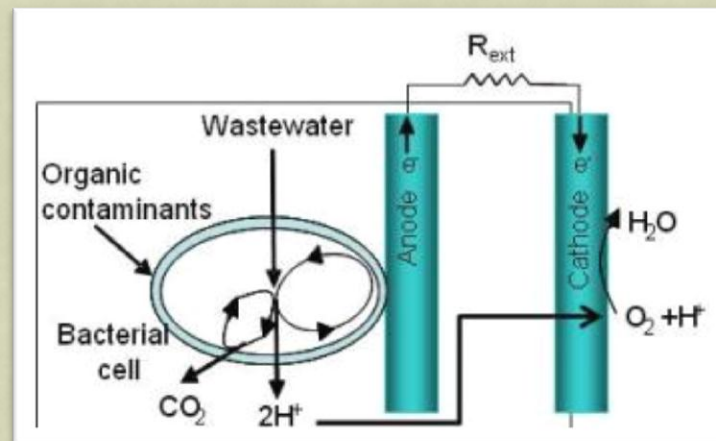
(R-L) CARLO SANTORO, PROF. BAIKUN LI,  
UDAYARKA KARRA



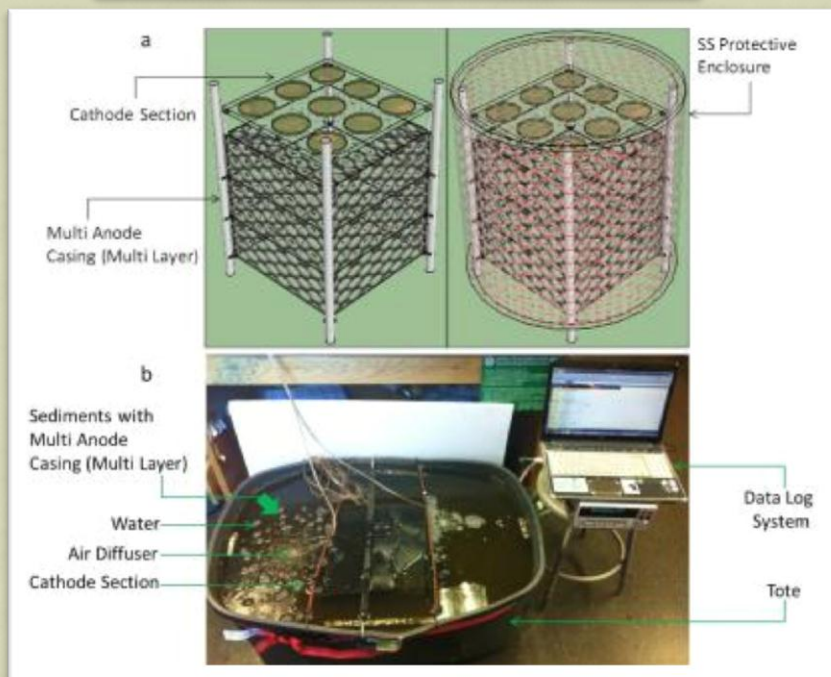




Biofermentor



Microbial Fuel Cell



Underwater Energy Harvesting System



Pilot-Scale MFC

# FACULTY & ADMINISTRATION

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# DR. ALLISON MACKAY

## WINNER



- ENVE 1000 taken by students from 25 different majors
- Associate Professor in Civil and Environmental Engineering
- Won Provost grant and developed ENVE 1000, first UConn GenEd course in Environmental Sustainability
- The course covers broad impact of human activity and how to reduce negative effects



# DR. ALLISON MACKAY

## WINNER



- Also developed course, “The Environmental Debate” and co-taught advanced sustainability principles class
- Recognized as a strong faculty mentor of graduate and undergraduate students
- Teaches and mentors students in the LLC for Women in Math, Science, and Engineering (WIMSE)



# CHARLOTTE RAND

## FINALIST



- Program Coordinator for Natural Resources Conservation Academy (NRCA) within NRE
- The NRCA is a new program in conservation and land use planning targeting Connecticut high school students
- Students spend one week at UConn and receive field experience in climate, water, wetlands, wildlife, forestry, soil and habitat protection, then work on 7-month land use conservation project at home

# NATURAL RESOURCES CONSERVATION ACADEMY

Week long field  
experiences for CT high  
school students

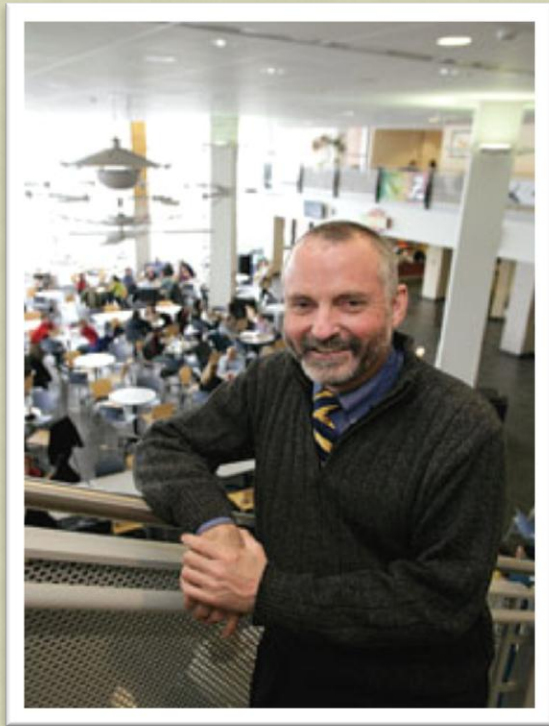


# STAFF

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# DENNIS PIERCE - WINNER

## DIRECTOR OF DINING SERVICES



- Director of Dining Services
- Low impact purchasing:
  - Local Routes
  - Recycled content containers and beverage cups
- Introduced 3 eCorrects into UConn Dining Units



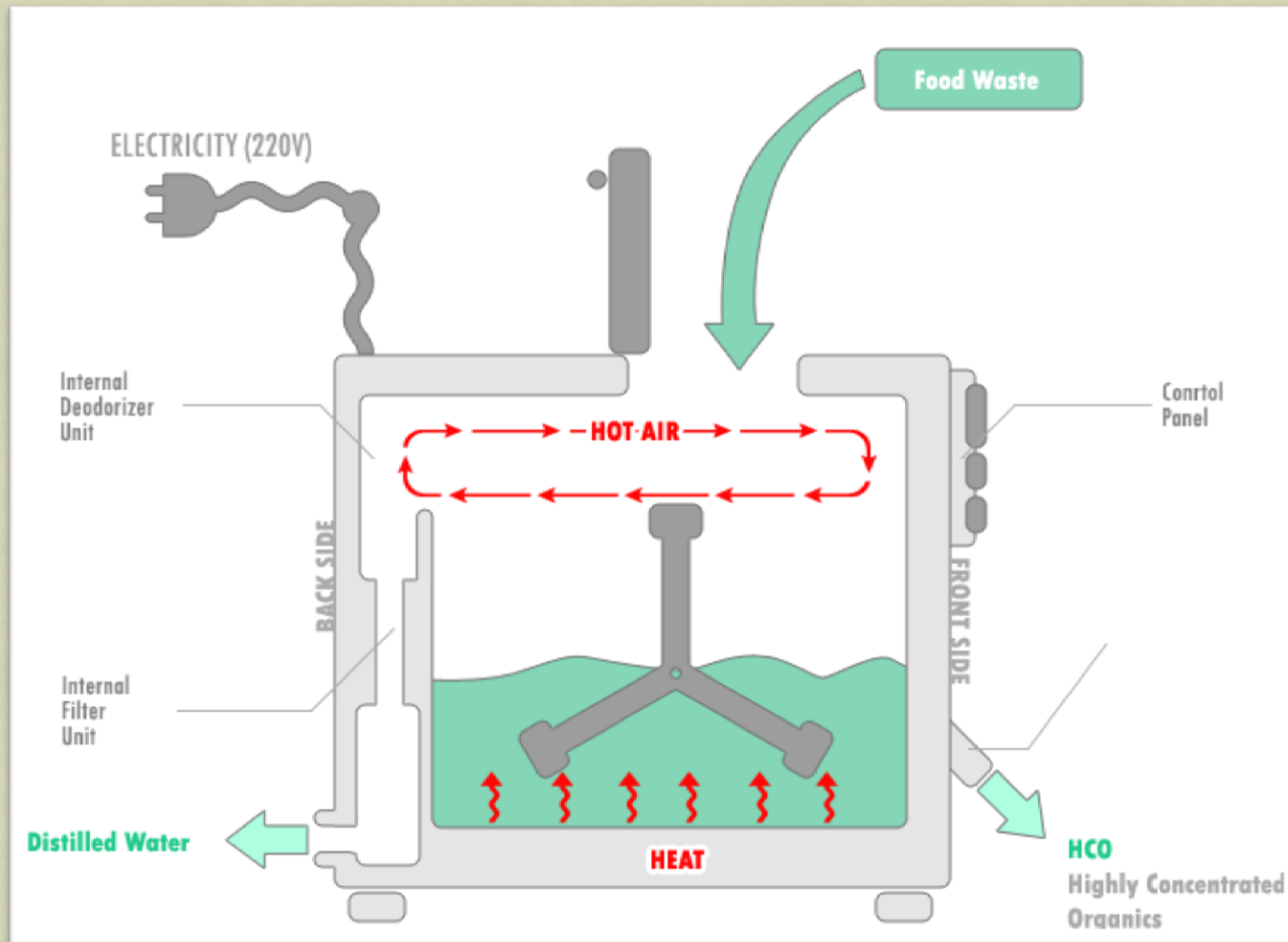
# DENNIS PIERCE - WINNER

## DIRECTOR OF DINING SERVICES



- Initiated on-campus weekly Farmer's Market
- Supports student-run farms and environmental outreach
- Coordinated Think Outside the Bottle and tray-less dining





- E-corrects are currently in 3 dining halls, with plans to install in all UConn Dining Units
- Convert waste can be used elsewhere
- \$40K cost are recovered in three years due to reduced trash haul costs

# DOUGLAS GOODSTEIN

## FINALIST



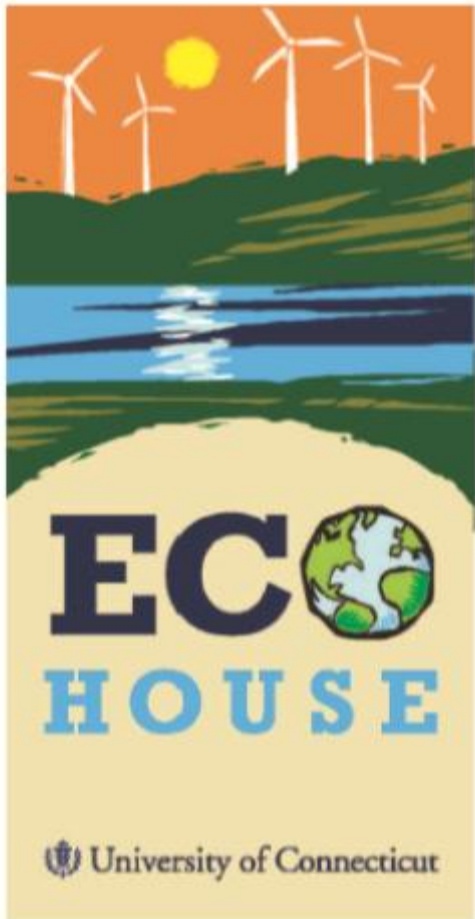
- Hall Director at the Connecticut Commons
- Behind the initiative to create Eco-Reps for each dorm, and also formed an ad-hoc committee of Hall Directors and RAs to implement sustainability initiatives
- Assisted with EcoMadness, a dorm competition which helps reduce energy and water consumption

# UCONN AFFILIATED GROUP

ENVIRONMENTAL LEADERSHIP AWARDS 2012



# ECOHOUSE & SPRING VALLEY STUDENT FARM WINNER

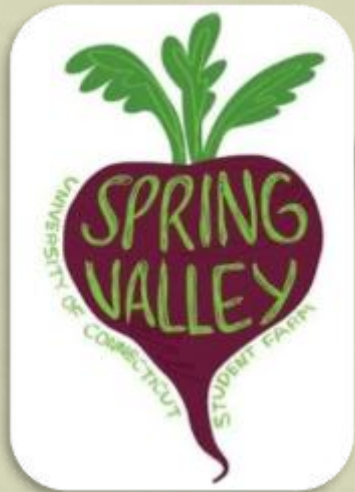


## EcoHouse Living and Learning Community

- Students immerse themselves in sustainable living & learning
- Students complete community service relating to the environment
- Participate in hands-on learning through service projects and alternative break trips

# ECOHOUSE & SPRING VALLEY STUDENT FARM WINNER

Students living at SVSF gain first-hand experience in organic farming

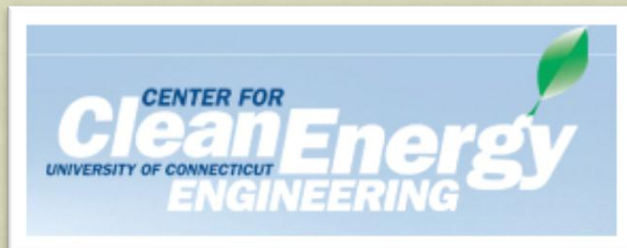




# ECOHOUSE & SPRING VALLEY STUDENT FARM WINNER



# CENTER FOR CLEAN ENERGY ENGINEERING (C2E2) FINALIST



- In 2012, C2E2 installed a 400kW hydrogen fuel cell on Depot Campus
- Helps cool, heat, and supply clean & efficient energy
- New energy system will result in a net reduction of 840 tons of CO<sub>2</sub> yearly



# CENTER FOR CLEAN ENERGY ENGINEERING (C2E2) FINALIST



Bryan Garcia, CEFA president speaks at the fuel cell ceremony. At left are Prabhaker Singh, Director of C2E2, and Mun Choi, Dean of the School of Engineering

# UCONN STUDENT AFFILIATED GROUP

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# UConn CHAPTER OF ENGINEERING WITHOUT BORDERS (NICARAGUA TEAM) WINNER



Dana Boyer and Scott Cipoletti working on the pilot for the road repair





# UConn CHAPTER OF ENGINEERING WITHOUT BORDERS (NICARAGUA TEAM) WINNER



The road in La Prusia,  
Nicaragua, the location of  
the EWB UConn Project



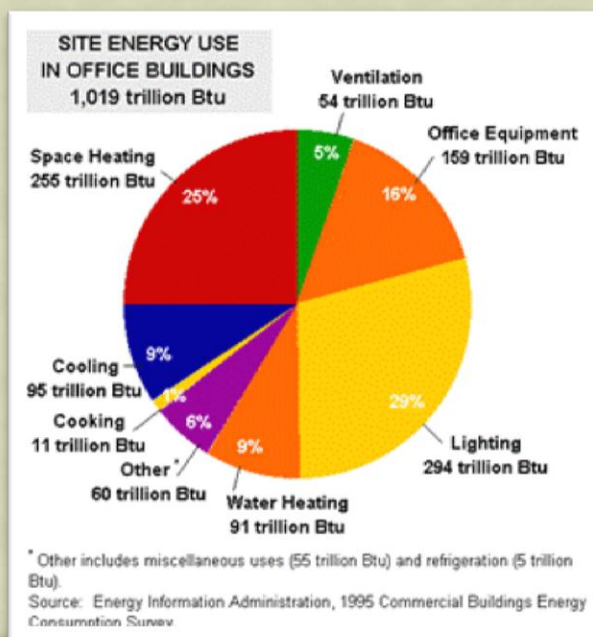
Marisa and Scott  
Cipoletti accepting  
the 2012 EPA P3  
award from Lek  
Cadeli, U.S. EPA  
Assistant Administrator  
for Research and  
Development



# TEAM

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# RETRO-COMMISSIONING AND RE-LAMPING TEAM WINNER



- Lighting can account for 40% of the energy used in campus buildings
- Working with CT-based ConServ, UConn Facilities Management has retro-fitted lighting in 73 campus buildings since 2010
- More efficient bulbs, advanced motion & occupancy sensors and controls
- Annually saves UConn \$500K in energy costs and avoids 4,000 tons of CO<sub>2</sub>

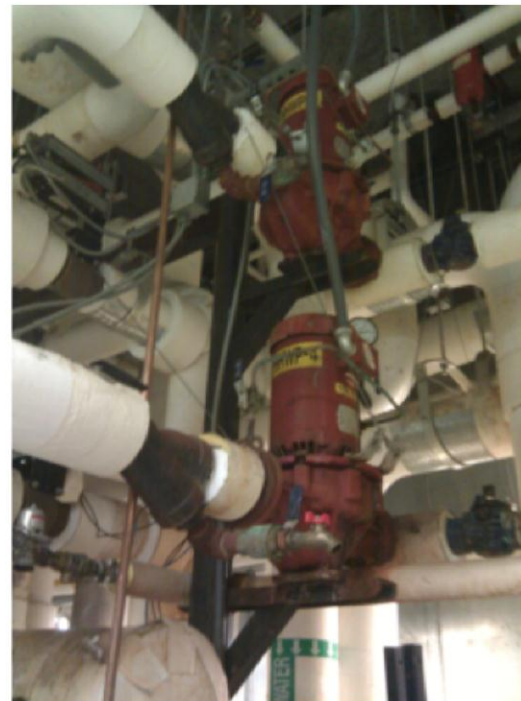


# RETRO-COMMISSIONING AND RE-LAMPING TEAMS WINNER



Retro-commissioning (RCx) adds things like variable frequency drives to control HVAC/air flow through a building based on monitoring actual use

The pumps controlled by the variable frequency drive

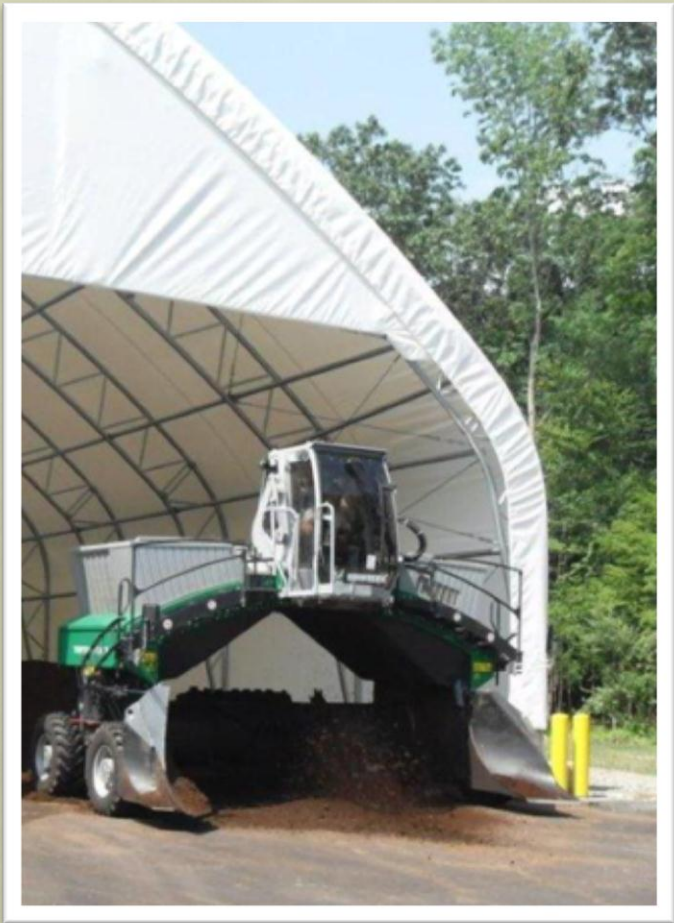


Working with CL&P/NU through "Energize CT" Program, UConn has completed 13 RCx projects since 2010 – annually saving more than \$500K in building energy costs and cutting 4,400 tons of CO2 emissions





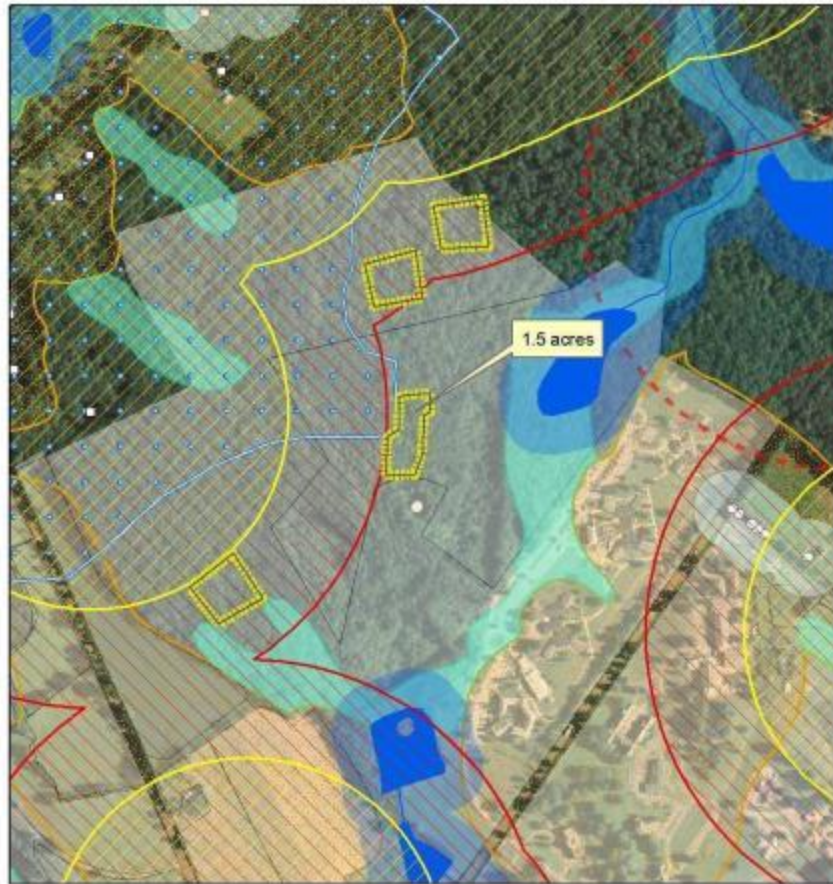
# UConn COMPOST FACILITY FINALIST



- Compost Facility envisioned since 1992!
- Feasibility Study and Siting Process driven by a 2005 petition signed by 400 students
- Facility finally constructed in 2010
  - reduces GHG emissions
  - increases watershed protection
  - provides research grant opportunities
  - Example of CANR's best management practices



# UCONN COMPOST FACILITY – A MULTI-YEAR FEASIBILITY STUDY AND PUBLIC SITING PROCESS



Site 8:  
NW of prison

- Potential site
- Private Wells
- Residential building
- Residential buffer (1000 ft)
- Residential buffer (1500 ft)
- Ecologically sensitive area
- Aquifer protection area
- Prime farmland soils
- Wetland soils
- Well buffer (200 ft)
- Hydrography buffer (200 ft)
- UConn property

Compost Facility Site  
Advisory Committee  
During a Site Walk

GIS mapping used at public meetings  
To illustrate potential sites and  
environmental buffers



# ELECTRIC VEHICLE (EV) INITIATIVE

## HONORABLE MENTION

- Motor Pool & OEP obtained \$75K grant to buy UConn's first EV
- E-Star Van has excellent payload capacity and power for daily campus deliveries
  - 100-mile range per charge
  - Clean, efficient, low carbon footprint



- UConn partnered with CL&P to install the University's first EV charging station
- School of Engineering & CL&P researching its use
- Free to users in the campus community from 8:30 a.m. – 4 p.m.
- Installed in Motor Pool parking lot



# HYDROGEN FUEL CELL TEAM

## HONORABLE MENTION



- Example of UConn's commitment to lowering our carbon footprint, in accordance with our Climate Action Plan
- 400kW fuel cell provides clean, efficient, and reliable energy to Depot Campus

# CLIMATE IMPACT MITIGATION & ADAPTATION ORGANIZING TEAM HONORABLE MENTION



- Comprised of a diverse group of UConn Faculty, Staff, Students and Mansfield community members
- Organized 4-day colloquium promoting CIMA, reaching a wide audience and encouraging groups to take active roles in UConn sustainability



# REGIONAL CAMPUS

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# DAVID PORTEOUS

## WINNER



- Chair of Greater Hartford Campus (GHC) Green Team
- David assembled a diverse team to improve recycling at the GHC
- Tripled GHC's campus recycling rates, introducing a 6-ton recycling bin

# MICHAEL ALFULTIS

## REGIONAL CAMPUS FINALIST



- Regional Director at Avery Point
- Driving force in the ISE energy audit of Avery Point campus
- Working with Groton Utilities to implement clean energy at Avery Point
- Strong advocate for EcoHusky students and regional campus sustainability
- Active member of UConn's Environmental Policy Advisory Council (EPAC)





# ALUMNI

ENVIRONMENTAL LEADERSHIP AWARDS 2012

# CHRISTOPHER BELLUCCI

## ALUMNI WINNER



- Supervising Environmental Analysis for CT Department of Energy and Environmental Protection
- Earned a Masters (1993) from UConn's Department of Natural Resources Management and Engineering
- Developed the first impervious-cover-based Total Maximum Daily Load regulation in the nation
- The UConn/DEEP/Mansfield collaboration formed to respond to the TMDL has resulted in a significant change in the treatment of stormwater on campus



# CHRISTOPHER BELLUCCI

## ALUMNI WINNER



- Resulted in a number of on-the-ground Low Impact Design (LID) practices installed in both new and renovated buildings, and an ongoing commitment to minimizing the impacts of stormwater on Eagleville Brook
- Examples can be seen at Oak and Laurel Halls, and the new green roof on the School of Nursing





# CLIMATE ACTION PLAN 2012 ADAPTATION AMENDMENT



The University of Connecticut  
Climate Action Plan:

*Guiding the Path toward Carbon Neutrality*



Storrs Campus  
March 2012

## Section 6: Adaptation



The University of Connecticut  
Climate Action Plan:

*Guiding the Path toward Carbon Neutrality*

AUGUST 2009



# UConn GREEN GAME DAYS 2010-2012





# NEW CAMPUS LID FEATURES

## SUSTAINABLE STORMWATER MANAGEMENT



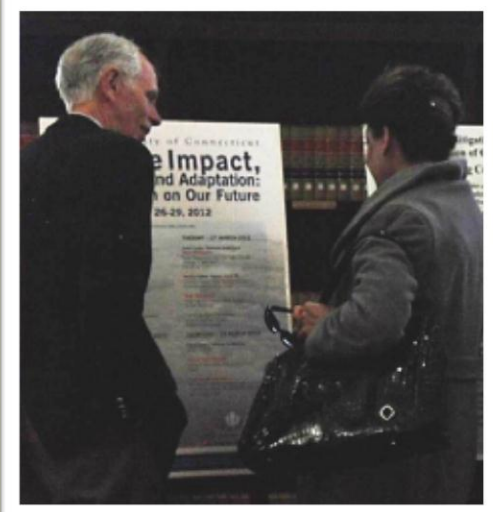


# PRESIDENT'S COMMITTEE ON CORPORATE SOCIAL RESPONSIBILITY (PCCSR) HONORABLE MENTION



Shareen Hertel speaking, the Chair of PCCSR on Environmental and Social Responsibility Standards in the Coffee Sector

# CIMA WEEK: MARCH 26-29, 2012





# CIMA SPEAKERS & PANELISTS





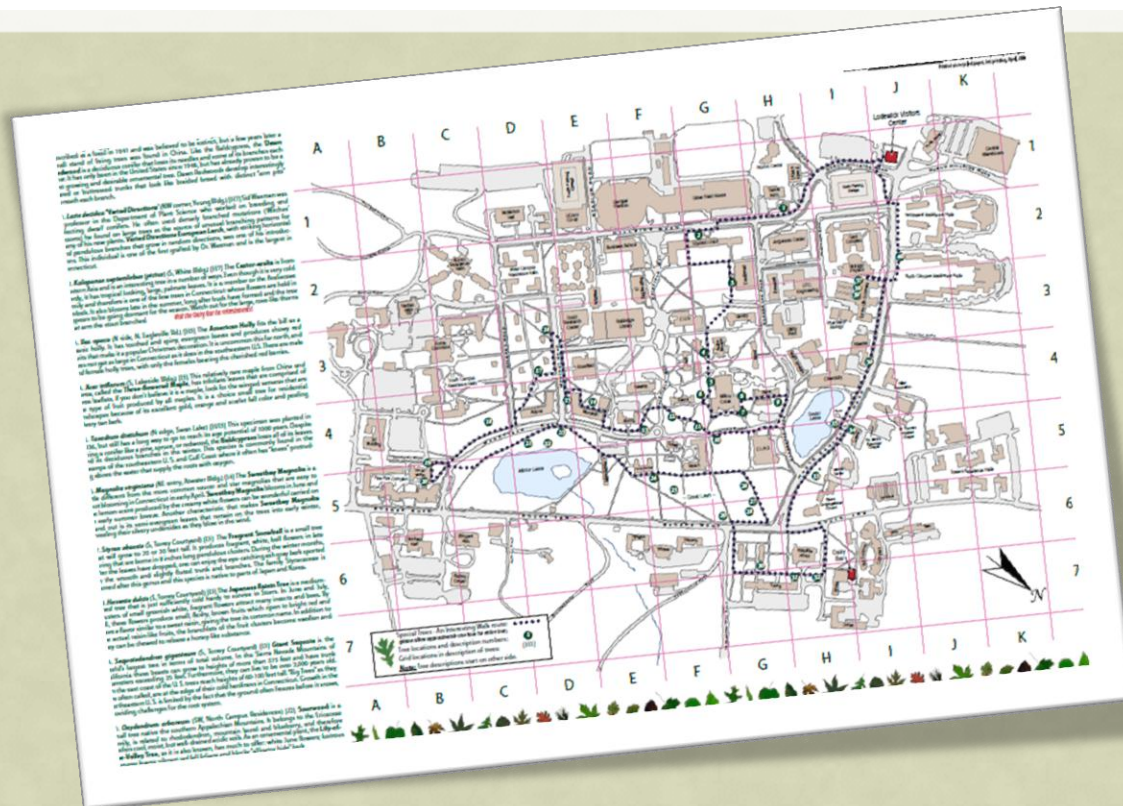
# UConn CYCLES AND CAMPUS BIKE PLAN

- Pavement markings and signs: improved bike, vehicle and pedestrian safety
- UConn Cycles bike sharing program: a collaboration of Homer-Babbidge library, USG, EcoHusky, EcoHouse, and OEP



# ARBORETUM COMMITTEE

## HONORABLE MENTION

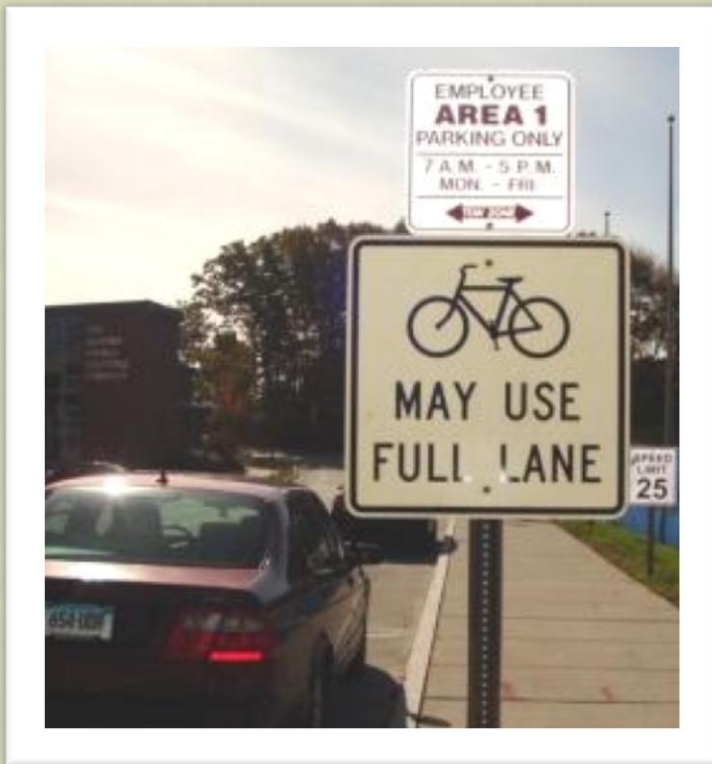


The Arboretum Committee (AC) helps to protect, promote, catalogue and manage the most spectacular natural resources on the Storrs Campus, the trees and shrubs.



# UConn CYCLES AND CAMPUS BIKE PLAN

- Significant step “Bicycle Friendly Campus” designation by the League of American Bicyclists





# UConn CAMPUS SUSTAINABILITY FUND

- UConn “raising the bar” as signatory to ACUPCC and with development of Climate Action Plan
- Lean economic times limit use of operating budget or creation/re-allocation of student fee
- UConn Foundation account – tax deductible, payroll deposits, “Close to Home” option
  - Purpose of CSF
    - Outreach: green campus events, activities, programs
    - Projects: energy dashboards, solar panels, green roofs, rain gardens, signs, benches, plantings, etc.



# 2012 EARTH DAY SPRING FLING







# ECOHUSKY STUDENT GROUP FALL UPDATE

- **Initiatives and Projects:**
- Campus and local cleanups
- Food Waste
  - Plate Waste Study
- Water Conservation Outreach
  - "Flow" Screening
  - Tap Water Taste Test
- Single Stream Recycling







# ECOHUSKY STUDENT GROUP

## HEEP TRAIL CLEAN UP



# UConn's "THINK OUTSIDE THE BOTTLE" CAMPAIGN

- Free reusable water bottles distributed to first-year students, UCPEA and AAUP members
- 5 hydration stations located around campus

*Why Tap Water? Tap water...*

- is safer than bottled water.
- saves energy and reduces our dependence on oil, which reduces your carbon footprint. You'll save  $\frac{1}{4}$  a bottle of oil every time you refill.
- reduces waste. UConn recycles, but even better to reduce your drinking water waste altogether with a reusable bottle.
- is cleaner, more efficient, more convenient, and free of charge at a location near you!







1. University of Washington
2. Green Mountain College
3. University of California, San Diego
4. Warren Wilson College
5. Stanford University
6. University of California, Irvine
7. University of California, Santa Cruz
8. University of California, Davis
9. Evergreen State College
10. Middlebury College
11. University of New Hampshire
12. Appalachian State University
13. Colby College
14. Western Washington University
15. University of California, Los Angeles
- 16. University of Connecticut**
17. Clark University
18. Cornell University
19. Bowdoin College
20. University of Maryland



UConn   
Office of Environmental Policy







# 2012 SIERRA CLUB COOLEST SCHOOLS



## Congratulations Huskies!

1. University of California, Davis
2. Georgia Institute of Technology
3. Stanford University
4. University of Washington, Seattle
- 5. University of Connecticut**
6. University of New Hampshire
7. Duke University
8. Yale University
9. University of California, Irvine
10. Appalachian State University
11. Green Mountain College
12. University of South Florida
13. University of Oregon
14. University of Wisconsin-Oshkosh
15. Cornell University
16. Grand Valley State University
17. University of California, San Diego
18. Harvard University
19. Warren Wilson College
20. University of California, Berkeley



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# SPECIAL THANK YOU

*Special thanks for in-kind contributions in support of  
this ceremony from:*

*The UConn Co-op  
&  
University Communications*

*Awards, food and room for this event were made possible by  
donations to UConn's Campus Sustainability Fund*

