ECO-AMBASSADORS
SESSION #1

Grafton Campus
January 30, 2014
Please ask your partner...

- Name
- Office and school
- Years at Tufts
- What is your office currently doing to be “green”?
- What opportunities do you see for improvement?
Today’s Agenda

• Eco-Ambassador Program Overview
• Intro. to Sustainability & Sustainability at Tufts
• Climate Change
• Purchasing
• Green Events
• Energy
What does an Eco-Ambassador do?

1. Act as a point of contact and resource

2. Model sustainable behaviors

3. Implement office sustainability initiatives and foster behavior change
What is Sustainability?
Sustainability

Environmental

Social

Economic
The ability to meet the needs of the present...

...without compromising the ability of future generation to meet their own needs.
Sustainability Highlights at Tufts

Tufts CLEAN!
Env’l Policy
Talloires Declaration
Environmental Improvement Committee
New England Governors/Eastern Canadian Premiers Climate Action Plan
Kyoto Protocol
Tufts Climate Initiative
Energy Affairs Council; Eco-Reps; Recycling Coordinator hired
Greening Grafton Committee
Chicago Climate Exchange
Office of Sustainability formed
Sophia Gordon Hall – Tufts 1st LEED bldg opens
Sustainability incorporated into Administrative Excellence Plan
President Monaco establishes Council on Campus Sustainability
Dental School Vertical Expansion receives LEED Silver Excellence in Energy Efficiency Award
Sustainability Council Report Released
Dental School 2nd Floor receives LEED Gold
Sustainability Council Report Released

Campus Sustainability Council Report

1. Waste
2. Water
3. Energy & Emissions
The **Waste Working Group** envisions the entire Tufts community playing an intentional role in fostering a cradle-to-cradle economy.

**Goal:**

- Reduce waste by 3 percent each year on average, through **source reduction**, **waste management strategies**, and **behavior change**.
Water Working Group Goals:

• Develop a plan to evaluate and prioritize targets to reduce consumption.

• Identify and (where appropriate) implement water re-use opportunities.

• Institutionalize policies and protocols to meet and exceed federal, state and local regulations related to storm and wastewater.
The Energy and Emissions Working Group Goals:

- Reduce energy consumption **5 to 7 percent per year** for 3 years starting in 2013.
- Reduce **greenhouse gas emissions** 10 to 25 percent below 1990 levels by 2020 and 75 to 85 percent below 2001 levels by 2050.
- Develop a **Renewable Portfolio Standard**.
- Begin the process of **Adaptation Planning**.
- Address **non-carbon greenhouse gas emissions**.
- Develop **transportation** initiatives to reduce the impacts of campus vehicles (fleet), commuting, and business travel.
Sustainability Council Report Highlights

Education and Behavior Change goals

Within five years the entire Tufts community will:

• Know how to reduce energy consumption as building occupants and use that knowledge to create less energy intensive habits.

• Understand how individual actions impact water usage and quality, why water conservation is important and how to reduce use and mitigate negative impacts on the watershed.

• Know how to divert and reduce waste and actively participate in waste reduction and diversion practices.
Climate Change
ACCORDING TO THE 1,325 SCIENTISTS ON THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE,

“Warming of the climate system is unequivocal.”

Source: 2007 IPCC Report
The 10 Hottest Years on Record
1880-2012


Source: NASA/GISS/NOAA
More intense storms... (Shelburne, 2011)

Increased flooding... (Quincy, 2010)

More heavy precipitation events... (Boston, 2010)

More frequent droughts... (Hingham, 2011)
How will climate change affect Massachusetts?

Source: http://www.neoscape.com/images/splash/11_BostonSkyline_Photo_WEB.jpg
High-Degree Days—Projections

Boston, MA

Observations
Lower Emissions
Higher Emissions

Days over 100°F

<table>
<thead>
<tr>
<th>Period</th>
<th>Observations</th>
<th>Lower Emissions</th>
<th>Higher Emissions</th>
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</thead>
<tbody>
<tr>
<td>1961-1990</td>
<td>1</td>
<td>6</td>
<td>24</td>
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<tr>
<td>2070-2099</td>
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Source: A Climate of Progress: City of Boston Climate Action Plan Update 2011
Current 100 year flood zone
Projected 100 year flood zone (higher emissions scenario)

Source: Sparking Boston’s Climate Revolution
Who are the 6 Americas?

Source: Yale/George Mason University
Purchasing
Green Claims – “Green” or Greenwashing?

Between 2009 and 2010, the number of “green” products increased 73%.

Source: TerraChoice
What can you do in your office?

• Reduce and reuse first
• When you buy, buy sustainable
  - “Buy green, buy fair, buy local, buy used, and most importantly, buy less.” – Story of Stuff
• Talk with co-workers, purchasing staff, and suppliers
Meetings & Events
How could you “Green” these events?

#1 - You are organizing a staff meeting for your office. You need to provide participants with both an agenda and several documents for discussion, and lunch will be provided.

#2 - You are coordinating a large guest lecture for students, staff and faculty from all three Tufts campuses. You need to know how many people are participating in the event and will also have to decorate the lecture hall.
Green Event Links and Resources

Tufts Specific
- Tufts Green Event Planning Checklists

Policies and planning guides from other places
- Green Event Guideline – Hosting Green Events for COP17 in Durban – excellent, easy to read
- Eco-Logo Green Event Standard
- BlueGreen Meetings – has a list of 10 easy tips to creating a green event
  As they say, "Whether you are a host, planner, or supplier, this is where you'll find the tips, tools and
  resources to make environmentally responsible choices for your meetings."
- The EPA-developed Guide to Planning Environmentally Friendly Events
- EPA press release with link to 14-point checklist to use when assessing event locations.
- The US Environmental Protection Agency’s One Stop Information Source for Green Meetings
  - actually links to BlueGreen Meetings, but also has additional information.
- MeetGreen is a conference management, consulting and training firm that works with associations
  and corporate organizations. We are dedicated to making your conference a premiere industry
  event while using our unique environmentally friendly approach to your advantage.
- Meeting Strategies Useful Links
- MIT’s Zero Waste Event Planning Wiki

Hotels
- "Green" Hotels Association®'s purpose is to bring together hotels interested in environmental
  issues. From adding "Drinking water served on request only" to the menu to installing new HVAC
  systems, and with every measure in between, "Green" Hotels Association® encourages, promotes
  and supports the "greening" of the lodging industry. Includes list of hotels
- Ceres' Green Hotel Initiative (GHI) is designed to increase and demonstrate market demand for
  environmentally responsible hotel services. The GHI leverages purchasing power to increase the
  supply of green hotels available to businesses and individual travelers.
- GreenSeal's list of certified green hotels. Not very extensive, but a start.
- TerraChoice list of green hotels: also not extensive
- Green Resorts: Uno Lodge, Copper Canyon, Mexico Papoose Creek Lodge, Cameron Montana
- Canopy Tower Soberania National Park, Panama
- Bucuti – has complete list of green practices

Restaurants and Food
- Green Restaurant Guide
- Seafood Watch List
- Decoding Food Labels
- OLSF Guidelines for lunch providers

Waste
- Tufts Recycles!
- Lifecycle analysis of compostable plates vs. ceramic plates (2008) – see page 32 for summary
- Lifecycle analysis of plastic, paper, glass and ceramic cups (1994)

Boston Specific
- Boston Green Tourism – encourages visitor-industry professionals to green their operations. They
  promote Greater Boston as a green destination and help meeting planners achieve their
  environmental objectives.

Green Event Checklist

Small In-Office Meetings – Examples include: staff meetings, project meetings, or small office parties

<table>
<thead>
<tr>
<th>Topic</th>
<th>Individual Responsible</th>
<th>Completion Date</th>
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<tbody>
<tr>
<td>Materials</td>
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- Send out invitations and reminders via email. |
- E-mail out presentations and meeting agendas instead of printing them. |
- Write the agenda on a white (or black) board or flip chart instead of printing out hard copies for each person |
- If handouts are unavoidable, enlarge the margins and print them double-sided. Print in black and white to save money |

Food (if provided)

- Provide reusable dishes or ask individuals to bring their own cups, mugs, (maybe even plates and silverware) to the meeting |
- If disposables are used, provide compostable or recyclable plates and utensils |
- Use napkins made from recycled content paper |
- If you are providing cups, offer hot cups or plastic cups as they are both recyclable (cold paper cups are not). Provide a marker so that individuals can label their cups for reuse |
- Use serving utensils from previous catered events or bring some from home for the day |
- If you provide drinks, avoid single-serving beverages by offering drinks in two liter bottles or pitchers |
- Avoid excessive packaging by providing pitchers or caratons of milk, creamer and sweeteners |
- Put out surplus food for students and colleagues and/or remind individuals ahead of time to bring containers to take food home with them |
- Provide a compost bin for individuals to compost food waste and designate an individual to bring it to a compost station on campus |
- If clean-up is necessary, use green cleaners to clean-up meeting space |

Waste |
- Make sure there are recycling bins in the room |

Green Event Checklist

In-Office Meetings – Examples include: staff meetings, project meetings, or small office parties
Wrap Up

For next week...

Introduce yourself as an Eco-Ambassador to your coworkers

Questions? Email Betsy at betsy.byrum@tufts.edu.
Tufts gets green

http://sustainability.tufts.edu