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Did you know?

- Americans represent 5% of the world's population but we consume 30% of the world's resources.
- Franklin & Marshall students and staff annually use (and trash) over 100,000 paper and foam disposable cups. What a waste!
- Each year, Franklin & Marshall consumes almost 12,000 reams (33 tons) of copier and printer paper. That's around 2 trailer truck loads full. How much of it is used for unnecessary copying and printing?
- Franklin & Marshall produces over 600 tons of solid waste each year, about 21% of which is recycled. In addition to the recyclables listed, Franklin & Marshall also recycles tires, car batteries, motor oil, fluorescent light ballasts and many other items
- Franklin & Marshall recycles over 100 tons of cardboard each year.

Think GREEN

Definition:

To be mindful of and sensitive to the natural environment in your daily life.

At Franklin & Marshall, we have over 1,800 students, and about 400 faculty, staff and administration. We have a large physical plant with over 50 buildings comprising almost a million and a half square feet and 175 acres of land! It's no wonder that we have a major impact on the natural environment. However, this impact is often invisible to us.

The paper we use so wastefully on campus comes from somewhere, perhaps from an old growth tree in British Columbia. When it was made, a river may have been polluted. Smoke came out of a smoke stack. And when we dispose of it, where does it go? Landfill or recycling plant?

Consider the energy services we take for granted on campus—lighting, heating, air conditioning. That energy comes from somewhere, perhaps a power plant belching smoke and contributing to acid rain and global warming.

The same can be said for virtually every commodity we buy and/or use on campus. It comes from somewhere. It's going to go somewhere. There are environmental impacts along the way. Thus, thinking green means being aware of our interconnectedness with the world and reflecting on the unintended damage we cause nature in the daily course of our lives. Hopefully, thinking green leads to acting green, namely, taking corrective action to make environmental responsibility and stewardship a reality.

*“ Every person is the right person to act.
Every moment is the right moment to begin.”*

Jonathan Schell, author, Fate of the Earth

THE FRANKLIN & MARSHALL MISSION

“Franklin & Marshall is a residential college dedicated to excellence in undergraduate liberal education. Its aims are to inspire in young people of high promise and diverse backgrounds a genuine and enduring love for learning, to teach them to read, write, and think critically, to instill in them the capacity for both independent and collaborative action, and to educate them to explore and understand the natural, social, and cultural worlds in which they live. In so doing, the College seeks to foster in its students qualities of intellect, creativity, and character, that they may live fulfilling lives and contribute meaningfully to their occupations, their communities, and their world.”

THE MISSION AND THINKING GREEN

The mission statement puts emphasis on four main concepts - Civility, Citizenship, Critical Thinking and Love of Learning. Thinking Green implies all of these:

- Civility means respecting the standards we live by here at Franklin and Marshall, for example recycling and reducing our electricity and water consumption .
- See yourself not only as a citizen of your own country, but the world. Think of the duties and responsibilities that come from being a member of this larger community.
- Think critically about the world and your role in it. Think critically about your actions and the impact they have on the world community.
- Be open to learn new things and enjoy being able to get a better understanding and appreciation of others and the world.

“ I propose a different ranking system for colleges based on whether the institution and its graduates move the world in more sustainable directions or not. Do four years at a particular institution instill knowledge, love, and competence toward the natural world, or indifference and ignorance? Are the graduates of this or that college suited for a responsible life on a planet with a biosphere.”

David Orr, author, Earth in Mind

In practical terms, Franklin & Marshall aims at following three simple rules: Reduce, Reuse, Recycle.

REDUCE

... YOUR CONSUMPTION

The first step to reducing your impact on the environment, is reducing the amounts of resources you consume and use. Think twice before you buy or use anything. Do you really need it? By reducing your consumption you will also decrease the amount of waste you produce.

... YOUR WASTE

There are also many other ways to reduce your waste. The opportunities are nearly endless. Here are just a few ideas. If you “Think Green”, you’ll be able to think of lots more. Let your mind go wild, be creative!

Paper

- Use both sides of paper when taking notes in class.
- Think before you print or photocopy! Print and copy as little as possible.
- Edit on screen, not on paper.
- Use e-mail to minimize paper use.
- Send and store documents electronically instead of on paper.
- When you must print or copy, do it double-sided.
- Circulate documents instead of making an individual copy for everyone.
- Share magazines and books/
- For campus mail, only use reusable campus mail envelopes.
- Condense mailing lists so they include only truly interested parties.
- Use cloth napkins, handkerchiefs and rags rather than paper napkins, tissues and towels.

Others

- Purchase products with less packaging or packaging that is recyclable or reusable
- Avoid buying disposable products.
- Compact your trash whenever possible.

Did you know?

- All the people in the United States make enough garbage each day to fill 100,000 garbage trucks.
- Americans throw away enough office paper each year to create a wall 12 feet high reaching from LA to NY
- Each hour, people in the United States use two and a half million plastic bottles.
- Each year Americans throw away 25,000,000,000 Styrofoam cups, enough every year to circle the earth 436 times.

... YOUR ENERGY CONSUMPTIONS

There are many ways for students, staff and faculty to help Franklin & Marshall reduce energy waste. For example:

Lights

- Turn off unused or unneeded lights.
- Use natural lighting instead of electric lighting whenever possible.
- If you have a desk lamp, make sure it uses fluorescent bulbs (instead of incandescent bulbs).
- Do not use halogen floor lamps in any campus building. These lamps are very energy wasteful and may pose a safety risk.

Heating and cooling

- Dress appropriate to the season and keep thermostats at 68 degrees in the winter and 76 degrees for air-conditioned spaces in the summer.
- During the heating season, open blinds, drapes and curtains to let sun in or, if no sun, close them to keep the heat in. During the cooling season close blinds, drapes and curtains to block sun.
- Select cold water for clothes washing, etc.

Windows and doors

- Unless you are handicapped, do not use automatic handicap doors.
- Keep windows and doors closed in heated and air-conditioned areas.
- Always close vestibule doors. It is safer, too!!

Computers

- Turn off computers when they are not in use.
- Turn off printers, especially laser printers, unless printing.
- Don't use power strips to turn on all computers and desk equipment at once.
- When purchasing computers and peripherals, buy low wattage equipment certified by the EPA's "Energy Star" program.
- Minimize use of screen savers and instead enable power management features so your computer equipment will go into a low power (blank screen) "sleep mode" when not actively in use.

Other equipment

- Purchase only energy-efficient models.
- Turn off all energy consuming office and research equipment when not in use, e.g., copiers, refrigerators, ovens, environmental rooms, fume hoods, etc.

... YOUR WATER CONSUMPTION

- Sing short shower songs - Take shorter showers
- Turn off the faucet while brushing your teeth
- Don't let showers and faucets drip

Please report energy or water waste (leaking faucets, etc) or any ideas for energy and water conservation measures to Facilities and Operations via the Service Response Center at 291-3900 or the Campus Sustainability Committee at sustain@fandm.edu

Did you know?

- By turning down your central heating thermostat only one degree, your fuel consumption can be cut by as much as 10 percent
- Even though efficient fluorescent light bulbs are initially more expensive, each bulb lasts an estimated 13 times longer as a regular one
- By installing a single fluorescent light bulb in 100 million households in the US, We would save the energy equivalent to all the energy generated by a nuclear power plant running full-time for one year
- If a faucet leaks sixty drops per minute, you could waste almost two hundred gallons of water each month

... YOUR OIL CONSUMPTION AND POLLUTION

Each year, Franklin & Marshall students and staff drive millions of miles to campus from home and around the City. That's a lot of gasoline and air pollution, too. There are many transportation alternatives.

- Car Pool — Can you partner up with others who need to get to campus? Use bulletin boards (electronic and regular) to share rides.
- Bus — Park City is served by the RRTA — why not use it next time you go to the mall?
- Bicycling — Biking to campus means living reasonably close and identifying a safe route which minimizes travel on busy streets.

Did you know?

- Half the new vehicles purchases in the U.S. are now inefficient SUVs, mini-vans and pick-up trucks.
- Americans make 123 million car trips each day, that are short enough to be made on foot
- Each gallon of gas used by a car contributes almost 20 pounds of CO2 to the atmosphere. A single car driving 1000 miles a month adds up to 120 tons of CO2 annually
- If each commuter car carries one more passenger, an estimated 600000 gallons of gasoline will be saved, and 12 mill pounds of CO2 will be kept out of the air

- Walking — It's good exercise and can be done safely, even at night if you "buddy up."
- Drive Efficiently — If you must drive, buck the trend toward more wasteful vehicles and drive a fuel efficient car, i.e. one which gets 35-40 or more miles per gallon, and don't drive it more than you really need to!

REUSE

Plastic containers can become food storage, paper can become wrapping paper. The ways in which to reuse things are unlimited. All you need is to be creative. If being creative is not your thing, here are some other ideas:

... PAPER

- Reuse envelopes by placing a new label over the old address.
- Designate a box for scrap paper and use it for printing all drafts or unofficial documents.

... BAGS

Reuse plastic bags or better get a reusable canvas bag

B.Y.O.M.!

Always use a reusable ceramic or plastic mug. The latter are available from a variety of sources including Franklin & Marshall Environmental Action Alliance.

BUY RECYCLED PRODUCTS

In order to make recycling work, collected recyclables need to be made into new useful products which are purchased and used. Buying recycled products is called “closing the loop” and we can do it here at Franklin & Marshall.

... Recycled Paper

Perhaps the most effective way of “closing the loop” and “buying recycled” on campus is to use recycled paper for all copying and printing needs. This product is a bright white paper which is made from 30% post-consumer content recycled waste office paper. It is also “process chlorine and acid free” which means that neither chlorine nor acid was added to make it, thus minimizing toxic dioxide-laden waste water from the paper making process. This is one great paper! It is available on campus from the Warehouse through the regular ordering process. It costs just pennies a ream more than non-recycled paper but don't you think it is worth it?

... Other purchases

When buying any type of product, see if it is available with post consumer recycled content. Information about recycled content is readily available in the many office supply catalogs.

“In every deliberation, we must consider the impact of our decisions on the next seven generations.”

Great Law of the Six Nations Iroquois Confederacy

RECYCLE

Everyone knows about recycling. It's easy. It makes sense. We do it at home. And we do it at Franklin & Marshall. See middle pages for more details on what and where to recycle.

Did you know?

- Production of recycled paper uses only half the water and 3/4 of the energy than new paper
- Every ton of recycled paper saves almost 400 gallons of oil, three cubic yards of landfill space and seventeen trees.
- If you recycle soda cans, the energy used and air pollution created, is 95 percent less than if the cans were produced from raw materials
- You could operate a TV set for an estimated three hours with the energy saved by recycling just one aluminum can

OTHER CONSIDERATIONS

TAKING CARE OF HAZARDOUS MATERIALS

F&M generates hazardous chemical waste through its teaching and research laboratories, fine arts activities, office operations, health services, and maintenance programs. Even if properly disposed of, none of this stuff is good for the environment. What to do?

Laboratory tips

Students can...

- Use as small an amount of chemicals as possible by following instructions and being exact when weighing out starting materials.
- Reuse cleaning solvents like acetone for initial cleaning of dirty glassware, using fresh solvent for the final rinse only.
- Prepare chemical waste for disposal as per instructions in the hazardous waste management program.

- Never pour hazardous chemicals down the drain.

Instructors can...

- Always provide proper waste minimization and disposal instructions to students.
- Redesign experiments to minimize hazardous chemical waste and to replace toxic reagents with less hazardous substitutes.
- Order reagents in exact amounts, to avoid leftovers.
- Distill and recycle solvents for use in demonstrations.
- Make sure chemicals are clearly and properly labeled.

Art and photography tips

- Use non-toxic, biodegradable art supplies whenever possible.
- Replace oil-based paints with water-based paints.
- Modify spray painting techniques to minimize overspraying.
- Use biodegradable, non-toxic cleaners wherever possible.
- Minimize use of cleaning solvents for brush cleaning, by reusing dirty solvents for first rinse and fresh solvents for final rinse only.

Maintenance tips

- Use non-toxic, biodegradable cleaning and chemical supplies whenever possible.
- Replace oil-based paints with water-based paints.
- Minimize the use of cleaning solvents by reusing dirty solvents for first rinse and fresh solvents for final rinse only.
- Develop programs to recover and recycle used solvents, oils, antifreeze, mercury wastes (from fluorescent lamps, thermometers, switches, traps, etc.), PCB-containing lamp ballasts, and lead-containing batteries.
- Use proper equipment and maintenance procedures to prevent atmospheric release of CFCs from all refrigeration equipment; switch to ozone layer-safe alternatives.
- Use Integrated Pest Management (IPM) methods. Minimize the use of pesticides; eliminate where possible.

Who to contact?

- **For all question about campus hazardous waste disposal contact David Stutts, Director of Franklin & Marshall's Office of Environmental Health and Safety.**
- **To properly dispose of household hazardous waste, call the Lancaster County Solid Waste Management Authority at 397-**

9968 to find out details about proper disposal.

Did you know?

In the United States we produce approximately one ton of hazardous waste per person per year.

EATING GREEN

What we eat and how it is provided can make a significant impact on the environment. Here are a few ideas for reducing that impact.

- Eat lower on the food chain — Meat production can be energy, resource and pollution intensive. Eating a diet rich in fruits, vegetables, grains and legumes is healthier and easier on the planet. Consider exploring vegetarian options.
- Eat locally – it saves transportation costs and helps the local economy, too!
- Take only as much as you can eat!
- Avoid throwaway plates, cups, flatware and trays. Carry and use your reusable mug. Eat at food service areas where you can use ceramic plates and cups, metal silverware and reusable trays.
- Avoid take-out food which is over-packaged.
- Recycle pizza box tops (if not contaminated by grease).

Did you know?

- On average, American food travels about 1200 miles from the farm to the consumer
- It is estimated that 100 acres of land can produce enough beef for 20 people or enough wheat to feed 240
- Forty-three thousand tons of food is thrown out in the United States each day

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To get more involved join The Environmental Action Alliance, the on-campus student group, dedicated to environmental issues.

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