

Summary of Recommendations

Student Campus Environmental Improvement Studies

Sociology 332, "Society and Environment"
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1. Shawn Bassler, "Pest Control [for Spiders] at Washington State University, Tri-Cities"
 - Cost of current, outsourced pest control: approx. \$5,400 per year
 - Chemical currently used: "Suspend SC" (4.75% deltamethrin)
 - MSDS: "slight health risk" to humans; "extremely toxic to fresh water fish ... and invertebrates"
 - Recommended alternatives:
 - Reduce food supply by using sodium vapor lamps, which are less attractive to flying insects
 - Physical control (web & egg removal), by regular pressure washing + vacuuming of debris
 - Use of natural, non toxic repellent, such as "Cobweb Eliminator," by Dr. T's Nature Products (water, soap, vinegar, capsaicin oil, coriander oil, anise oil). Cost = \$890/ 55 gals. + \$245 shipping. Coverage per drum, 60-83,000 sq. ft.
 - "EcoExempt IC," by EcoSmart Technologies (rosemary oil, oil of wintergreen, mineral oil). 4-1 gal. containers of concentrate = \$370 + \$30 shipping. 1 gal. ~ 16-32 gals. of spray ~ 64,000 sq. ft. coverage
 - Spot treatment w/ nontoxic spider control spray, such as (a) soap, citronella oil, or Citra Solv cleaner; (b) Safe Solutions Enzyme Cleaner with Peppermint; or (c) white distilled vinegar + coconut oil.

2. Robert Estes, "Battery Disposal Program"
 - Current program: campus pays to dispose of used batteries as hazardous waste
 - Annual cost to campus: ???
 - Recommendations:
 - Encourage purchase and use of rechargeable batteries on campus. Use nickel metal hydride (NiMH) rechargeable batteries wherever feasible (not recommended for fire alarms or emergency flashlights)
 - Participate in the Rechargeable Battery Recycling Corporation's <<http://www.rbrc.org/>> "absolutely free" school battery recycling program. "RBRC will send pre-addressed and pre-paid boxes to the school ... once the boxes are filled, the school will ship the full boxes back

to RBRC headquarters and receive more pre-addressed and pre-paid boxes."

- Campus environmental education efforts focused on battery choice, recycling, and disposal

3. Tony Kalmbach, "Cardboard Recycling at WSU"

- Current estimate: campus generates less than 200 lbs. of recyclable cardboard (per month)
- Current cardboard recycling program: none, cardboard put in solid waste bins, sent to landfill
- Cost: campus pays for disposal, as part of solid waste
- Potential revenue: 2 cents per pound, approximately \$4/ month, \$48/ year
- Recommendation:
 - Participate in coordinated effort with Hanford High School to reduce & recycle cardboard waste

4. Bree Nielsen, "Cougar Can! Program: WSU-TC Aluminum Can Recycling Program"

- Current campus aluminum can sales: approximately 260 cans per week
- Current recycling effort: 20-25 lbs. of aluminum cans recycled per week
- Cost: none to campus – picked up by elderly gentleman
- Potential revenue: 40 cents per pound, \$8-10/ week at current recycling rates
- Recommendations:
 - Increase campus aluminum can recycling rates through:
 - Placement of additional aluminum can recycling bins on campus, especially by main entrances
 - Better labeling of existing recycling bins
 - Campus environmental education efforts
 - Contest for customized logo/ design for campus recycling bins
 - Greater student involvement in campus environmental efforts, via the ASWSUTC, Campus ESH Committee, student environmental club

5. Desiree Norens, "Incorporating the Use of Organic & Local Produce into WSU Cougar Cafe"

- Current situation: limited healthy, organic, locally-sourced food items available on campus (Cougar Cafe does use organic milk for espresso & smoothies, though)
- Recommendations:
 - Purchase of organic fruits & vegetables via Costco and other suppliers
 - Purchase fruits & vegetables from local growers as seasonally available

- Carry organic beverages such as Odwalla juices in campus vending machines & cafe
- Selected featuring of organic items, such as organic tea at Cougar Cafe
- Environmental education efforts

6. Elida Rodriguez, "Implementing Waste Reduction [of White Office Paper] at Washington State University Tri-Cities"

- Current white office paper consumption: ~ 240,000 sheets of paper per year
- Annual cost of white office paper to campus: \$12,000 per year
- 25% printing on network printers; 75% copying, incl. through Copy Center
- 13 copiers, 32 fax machines, 41 network printers, 40 local printers on campus
- Some recycling of white office paper; no other waste reduction efforts currently underway
- Recommendations:
 - Use two-sided printing & copying whenever possible (set default to two-sided printing/ copying)
 - Estimated savings: \$2,700 per year (@ 35 per cent reduction of single-sided printing & copying)
 - Additional cost of duplexing printers: @ \$350/ 500 per printer; can be recuperated quickly
 - Allow students to submit papers which are single-spaced, use smaller fonts
 - Campus environmental education: "think before you print"; "copy double sided whenever possible"
 - Establish a campus Waste Reduction Program, with responsible coordinator