

Website on Sustainability at Humboldt State University

Fall 2005
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Problem Statement

There is a lack of coordination of information available about sustainability issues and programs for students on the Humboldt State University campus.

Problem Background

The lack of coordination of information about sustainability topics on the HSU campus has many different aspects.

There is very little coordination between sustainability-related clubs, even though their mission statements and programs may be very similar. These clubs include: the Alternative Transportation Club, Campus Recycling Program, Campus Center for Appropriate Technology, Emerging Green Builders, Green Campus Program, Natural Resources Club, Sustainable Campus Task Force, Sustainable Entrepreneurs Network, and the Sustainable Living Arts and Music Festival club. For example, the Campus Recycling Program state in their mission statement that they “seek answers to environmental problems...” while CCAT is “dedicated to sustainability and seeks to help others live likewise” and the Natural Resources Club is dedicated to building “environmental enrichment” and constructing sustainable habitat for wildlife. Also most clubs sight involving students as part of their mission.

There is very little coordination of available resources for students in the Environmental Science Capstone Course, Sustainable Campus. Students in this course are required to do a project related to sustainability on campus. This involves research into past projects and current campus issues. The current method for reviewing past projects is time-consuming. Also information is not available about every project.

Also, there is no easy-access point for all campus members to access general information about sustainability issues on the HSU campus. There is no single place where students can access current sustainability issues and programs that the campus is involved in plus access the activities of sustainability-related clubs on campus. There are many students majoring in Environmental Science and Natural Resources on this campus, yet nowhere for them to access campus issues related to their studies and at the same time find out what club they could associate with to become involved.

Goals

- 1) Have a compilation of information on sustainability issues at HSU for student use.
- 2) Improve coordination between sustainability-related clubs on the HSU campus.
- 3) Provide access to past ENVS 411 projects to future ENVS 411 students.

Objectives

- 1) Have a sustainability information source available by the end of the Fall '05 Term.
- 2) Transfer authority over our project to provide continual support for sustainability coordination.
- 3) Have each club member of a sustainability-related club use our compilation once this semester.
- 4) Announce our project at one of the club meetings for each sustainability-related club.
- 5) Incorporate our compilation into the ENVS 411 curriculum.
- 6) Have all ENVS 411 group projects from Fall '05 summarized and included in the compilation.
- 7) Have all past ENVS 411 group projects summarized and included in the compilation by the end of the Fall '05 Term.

Alternatives

Alternative One

Produce a hard copy collection or multiple hard copy collections of past Sustainable Campus class projects (with updates on the project information) to be used by future Sustainable Class groups.

a) Constraints

The collection would only be useful to Sustainable Campus class students and would not be very useful to other students on campus seeking information about sustainability issues on campus. Thus, it would only meet one of our stated goals: "Provide access to past ENVS 411 projects to future 411 students." While this is our biggest priority, there are alternatives that have a likelihood of meeting more of our goals.

The hard copy collection would also pose accessibility issues because if just one copy were made, it would not be that useful during the scheduled Sustainable Campus class time. The possibility for using it in class would require making many copies, which adds environmental responsibility and monetary constraints.

b) Consequences

The compilation could prove useful to ENVS 411 students outside of class time, as mentioned before. This alternative would be inexpensive, quick, and easy to accomplish. However, the potential for projects getting stolen from the hard copy or the entire collection getting stolen is there.

Alternative Two

Facilitate the creation of a position called the sustainability coordinator.

a) Constraints

This alternative involves many constraints, the biggest being time, money, and bureaucracy. The process of hiring people in the California State University system is regulated by the State of California. Already we are talking about working within two of the biggest bureaucracies in existence. Besides working within the system, there are opportunities for grants or student initiatives to facilitate a new staff position on campus. However, with only one semester to work on the project, it would not be possible to create this new position.

Even if the logistics for creating a new position were determined, the process of convincing the people in charge of decision making on our campus that the sustainability coordinator position should exist could prove very difficult.

Therefore, the likelihood of this alternative meeting any of our stated goals is very small because the execution of the alternative poses so many challenges. Another important factor is the likelihood that this alternative would play a role in coordination of past ENVS 411 projects being accessible to future ENVS 411 students. Because this would be a staff position to ideally incorporate many sectors of campus sustainability, it might not be able to meet our stated goal of providing access to past ENVS 411 projects to future ENVS 411 students simply based on time constraints.

b) Consequences

This alternative has the potential to meet all of our group's stated goals quite effectively. It would also allow for continuously updated information about sustainability issues on campus to be accessible to the campus. (Objective #2) The process of finding someone to fill the position could prove to be a difficult task, but there are undoubtedly people who would love to fill this position. Finally, as mentioned above, the likelihood of creating this position is very small due to the constraints mentioned.

Alternative Three (Preferred Alternative)

Create a Sustainability Website.

a) Constraints

Constraints to building a website that is accessible to the whole campus community, useful for all parties for whom it is created for, and large enough (bytes) to contain all pertinent information, are many for students. There are technical, bureaucratic, advertising, and updating difficulties. Our group needs to find space on a Humboldt State server that will allow for a website that contains a lot of information, but will also allow for users to update. That will facilitate future students' projects being uploaded onto the website. What that demand creates however, is the need for a webmaster, someone to take over the management of the website when the students in our group graduate from Humboldt.

Another constraint is making the website useful enough so that it will actually be used by the people for whom it is intended to help. In addition, informing these people about the website is a further constraint.

b) Consequences

This alternative has the potential to meet all of our group's stated goals and objectives. Meeting all of these goals is dependent upon the work we put into the project and the desire of the campus to access our website. If the work is put in, this website would

- 1) Be an accessible compilation of information on sustainability.
- 2) Improve coordination between sustainability-related clubs on the HSU campus.
- 3) Provide access to past ENVS 411 projects to future ENVS 411 projects.

With hard work this alternative has a very high likelihood of meeting our objectives. The website will have a transfer of authority (Objective #2), will be announced to sustainability related clubs (Objective #4), and will be incorporated into the ENVS 411 curriculum (Objective #5).

If the campus is made aware of the website and finds it useful, our objectives concerning the usefulness of the project will be met (Objectives #1 and #3).

Because this alternative has the greatest likelihood for meeting all of our stated goals and objectives, we chose it to be our solution.

Implementation Strategy

The chosen alternative, creating a web database for sustainability issues and projects on campus, best fulfills the need identified in the problem statement. The website will provide a highly accessible source of information on sustainability, sustainability-related clubs, and ENVS 411 student projects. The chosen alternative provides the greatest degree of accessibility in relation to time for implementation, a limited amount of funding, and continual labor for upkeep.

Timeline:

- Group identified problem and began discussing problem background 9-19
- Group discussed purpose, need, goals, and objectives of problem 9-21
- Group brainstormed alternatives and generated a decision by weighing alternatives to the project goals 9-21
- Group met with K.J. (CCAT Web Master) and discussed issues with website creation. 9-26
- The group split up all available ENVS 411 project papers evenly between members and typed project summaries. To be completed by 10-31.
- Rose found a willing website creator, Glen Rickell 10-3
- Members compiled a list of contacts for project follow-up 10-12
- Melissa compiled all of the group summaries into one document 10-23
- Group laid out design for webpage and submitted to Glen. 10-24
- Rose met with Eddie Agular (Depot manager) to discuss project follow-up. 10-20
- Drew talked with AS to discuss project follow-up 10-20
- Quincy, Rose, and Melissa met with Bob Schultz to discuss project follow-ups 10-31
- Quincy created a list of sustainability-related clubs for submittal to Glen 10-31
- Rose created a list of sustainability related classes for submittal to Glen 10-31
- Drew organized and revised topic categories for submittal to Glen 11-2
- Group met and took pictures of results from former projects 11-9
- All documents will be submitted to Glen for website creation by 11-18
 - All project summaries and related pictures
 - Info for sustainability related classes
 - Info on sustainability related clubs
- Met with Glenn to discuss website creation 11-18
- Website completed and uploaded by 11-7

Monitoring

- To meet our objective of having each club member view our website this semester, we will be using a counter tool on the website that we design.
- To meet our objective of having continual support of our project, we have made an agreement with CCAT that includes CCAT's webmaster taking over the duty of updating our website.
- To meet our objective of our project's incorporation into the Sustainable Campus course, we are asking the instructor to require groups to summarize their projects by problem, goals and objectives, outcome, and contacts and then submit this summary (in electronic form) to the CCAT webmaster for updating.
- To meet our objective of having the website announced at club meetings, we will attend club meetings and have the students fill out a survey about our website—what they liked, what could be improved, etc...

Evaluation

What Worked Well

- Breaking the task into segments and assigning individual group members to specific tasks that lay within their interest area
- Efficiently using class time to summarize past group projects
- Having a well defined problem statement
- Outsourcing the task of building the website to a student with expertise who was willing to do it for free

What Didn't Work

- There was very little direction given as to ideas for projects. The class was not informed of possible options that could greatly benefit the campus.
- There was also little direction given as to the structure of the project.
- More outside speakers would be appreciated---especially people from the campus community.
- More discussion of class projects and what worked well and why and what didn't work and why would have been helpful. Our project will hopefully facilitate this discussion.

Quincy's Time Log

| <u>Date</u> | <u>Time</u> | <u>Activity</u> |
|---------------|---------------|---|
| 9-12 | 2 Hours | Met in class and brainstormed project ideas |
| 9-14 | 5 Hours | Met in class and brainstormed project ideas Attended Green Campus Club meeting to talk with coordinator about campus sustainability issues |
| 9-19 | 2 Hours | Met in class and decided to work on compiling information about existing campus sustainability issues |
| 9-21 | 2 Hours | Met in class and decided on our project, creating a website |
| 9-26 | 2 Hours | Met with CCAT web administrator and CCAT co-director Noelle |
| 9-27 | 1 Hour | Quincy met with Academic Computing to ask about web space possibilities |
| 9-28 | 3 Hours | Met in class and wrote problem statement and background and worked on defining goals and objectives Typed Problem Statement and Background |
| 10-3 | 2 Hours | Transcribed past projects |
| 10-4 | 2 Hours | Typed project summaries |
| 10-5 | 2 Hours | Transcribed past projects |
| 10-10 | 2 Hours | Typed project summaries |
| 10-11 | 1 Hour | Followed up on a past project with a CCAT employee |
| 10-12 | 2 Hours | Typed project summaries |
| 10-17 | 2 Hours | Typed project summaries Wrote Alternatives |
| 10-19 | 3 Hours | Quincy typed up Alternatives Group organized contact list for project follow-up |
| 10-20 | 1 Hour | Quincy talked to Associated Students about Sustainability Coordinator position creation |
| 10-23 | 10 min. | Quincy e-mailed Bob Shultz to ask him to meet with our group |
| 10-24 | 2 Hours | Scheduled appointment with Bob Shultz Worked on Implementation Strategies |
| 10-26 | 2 Hours | Worked on Implementation Strategies |
| 10-31 | 2 Hours | Met with Bob Shultz |
| 11-1 | 2 Hours | Updated project summaries |
| 11-2 | 1 Hour | Met in class and discussed website design |
| 11-7 | 2 Hours | Worked on Monitoring and Evaluation |
| 11-9 | 2 Hours | Worked on Monitoring and Evaluation Quincy typed up Monitoring and Evaluation |
| 11-14 | 2 Hours | Met in class and discussed website and assigned individual research topics to group members |
| 11-16 | 2 Hours | Took pictures around campus for the website |
| 11-18 | 1 Hour | Met with web designer, Glenn |
| 11-28 | 2 Hours | Met in class and worked on project compilation |
| 11-29 | 10 Min. | Purchased Project Portfolio at HSU Bookstore |
| 11-30 | 2 Hours | Met in class and worked on project compilation |
| 12-2 | 1 Hour | Met in computer lab and worked on project presentation |
| 12-3 | 2 Hours | Met in computer lab and worked on project presentation |
| 12-4 | 3 Hours | Met in computer lab and worked on project presentation |
| Total Time | 62.2 Hours | |

Rose's Time Log

| Date | Time | Activity |
|-------------|-------------|---|
| 9-12 | 2 Hours | Created group and discussed project possibilities |
| 9-14 | 4 Hours | Class Time: brainstormed project ideas Considered Farms to School, composting at the "J", Creek view, Cypress, and the Residence halls |
| 9-19 | 2 Hours | Class time: came to the consensus Hsu needed improved Sustainability coordination, considered the options available. HSU Sustainable Coordinator, Notebooks of past projects, online access for students |
| 9-21 | 2 Hours | Met in class and chose our project, creating a sustainability website |
| 9-22 | 1 Hour | Met with CCAT Directors; Noelle, Glen, and Patrick |
| 9-24 | 2 hours | Created sustainable Campus club list |
| 9-26 | 2 Hours | Met with CCAT web administrator and |
| 9-27 | 1 hour | Met with CCAT co-director Noelle |
| 9-27 | 1 Hour | Rose met with Ed Aguilar to discuss prior waste reduction projects |
| 9-28 | 2 Hours | Met in class and wrote problem statement and background and worked on defining goals and objectives |
| 10-3 | 2 Hours | Transcribed past projects |
| 10-5 | 2 Hours | Transcribed past projects |
| 10-10 | 2 Hours | Typed project summaries |
| 10-11 | 3 Hour | Researched different sustainability sites |
| 10-12 | 2 Hours | Typed project summaries |
| 10-17 | 2 Hours | Typed project summaries Discussed and choose alternatives |
| 10-19 | 3 Hours | Roe met with Glenn to discuss website construction Group organized contact list for project follow-up |
| 10-20 | 1 Hour | Rose met with Associated Students to discuss club option for Website Space |
| 10-23 | 10 min. | Rose emailed AS about space available |
| 10-24 | 2 Hours | Scheduled appointment with Bob Shultz Worked on Implementation Strategies |
| 10-26 | 2 Hours | Finished final draft of Implementation Strategies |
| 10-31 | 2 Hours | Met with Bob Shultz |
| 11-1 | 2 Hours | Updated project summaries |
| 11-2 | 1 Hour | Met in class and discussed website design |
| 11-7 | 2 Hours | Worked on Monitoring and Evaluation |
| 11-9 | 2 Hours | Worked on Monitoring and Evaluation Quincy typed up Monitoring and Evaluation |
| 11-14 | 2 Hours | Met in class and discussed website and assigned individual research topics to group members |
| 11-16 | 2 Hours | Took pictures around campus for the website |
| 11-18 | 1 Hour | Met with web designer, Glenn |
| 11-22 | 2 Hous | Compiled time line of group members activities |

Drews Time Log

| Date | Time | Activity |
|-------------|-------------|--|
| 9-12 | 2 Hours | Met in class and brainstormed project ideas. |
| 9-14 | 4 Hours | Met in class and brainstormed project ideas, emailed April Prusia, researched possible compost topics. |
| 9-19 | 2 Hours | Met in class and decided to work on compiling information about campus sustainability issues. |
| 9-21 | | Drew was out of town on personal business, the rest of the group met in class. |
| 9-26 | 2 Hours | Met with CCAT web master KJ and CCAT co-director Noelle to discuss issues about website construction and maintenance. |
| 9-28 | 2 Hours | Met in class and wrote purpose, need, goals, and objectives |
| 10-3 | 2 Hours | Met group in class and decided on a common format for project summaries. Divided project folders between members and began summarizing projects. |
| 10-5 | 2 Hours | The group began evaluating the possible alternatives and continued transcribing project summaries. |
| 10-10 | 1 Hour | Met with group |
| 10-12 | 2 Hour | Met with group and summarized projects. |
| 10-13 | 1 Hours | Followed up on sustainability fund project in Associated Students office. |
| 10-17 | 2 Hours | Submitted Alternatives draft, compiled individual list of contacts for project follow-ups, and discussed project follow-ups. |
| 10-19 | 3 Hours | Group organized contact lists for project follow-up and worked on summaries document. |
| 10-24 | 2 Hours | Worked on Implementation Strategies, sketched basic layout of website and compiled list of links. |
| 10-26 | 3 Hours | Worked on Implementation Strategies, decided on general categories for project summaries, began organizing, formatting and editing groups project summaries. |
| 10-31 | 1 Hour | Worked on project summaries |
| 11-2 | 3 Hours | Typed-up implementation strategies, updated project summaries |
| 11-4 | 2 Hours | Met to discuss project, take pictures of outcomes |
| 11-7 | 2 Hours | Worked on Monitoring and Evaluation |
| 11-9 | 2 Hours | Worked on Monitoring and Evaluation |
| 11-14 | 2 Hours | Met in class and discussed website and assigned individual research topics to group members |
| 11-16 | 2 Hours | Took pictures around campus for the website |
| 11-18 | 1 Hour | Compiled summaries and pictures, met with web designer to discuss construction. |
| 11-28 | 2 Hours | Met in class and worked on project compilation |
| 11-30 | 2 Hours | Met in class and worked on project compilation |
| 12-2 | 1Hour | Met in computer lab and worked on project presentation |
| 12-3 | 2 Hours | Met in computer lab and worked on project presentation |
| 12-4 | 5 Hours | Met in computer lab and worked on project presentation, reviewed website, discussed uploading, typed time log. |
| 12-5 | 2 Hours | Met to prepare presentation and work on paper |
| Total Time | 58 Hours | |

Melissa's Time Log

| Date | Time | Activity |
|-------------|------------|---|
| 9-7 | 3 Hours | Developing project ideas, researching options |
| 9-12 | 3 Hours | Meet in class developing ideas for project, leaning toward website, researched options for compiling sustainability topics. |
| 9-19 | 2 Hours | Meet in class compiled information on sustainability on campus |
| 9-26 | 2 Hours | Meet with CCAT webmaster and co-director |
| 9-26 | 1.5 Hour | Researched options for web space |
| 9-28 | 2 Hours | Worked on problem statement and goals and objectives |
| 10-3 | 2 Hours | Summarized past projects |
| 10-6 | 2 Hours | Summarized past projects |
| 10-8 | 2 Hours | Typed past summaries |
| 10-10 | 3 Hours | Typed past summaries |
| 10-17 | 2 Hours | Developed alternatives in class |
| 10-20 | 3 hours | Researched past projects for completion |
| 10-22 | 3 hours | Formatted groups past projects |
| 10-23 | 2 hour | Formatted groups past projects |
| 10-24 | 2 hours | worked on implementation strategies |
| 10-31 | 2 hours | Met with Bob Shultz |
| 11-7 | 2 hours | Worked on monitoring/Evaluation and went over website design |
| 11-14 | 2 hours | Meet in class went over website layout |
| 11-28 | 2 hours | Meet in class |
| 12-3 | 2 hours | Meet in computer lab to work on presentation |
| 12-4 | 3 hours | Meet in computer lab to work on presentation |
| Total Time: | 50.5 Hours | |

Appendix One: Project Summaries

Transportation

Parking at HSU Spring 2005

Problem:

- AS students we see the fact that parking is an issue on campus. We've all seen drivers circling the lot like buzzards after a fresh kill. Based on Sean Kinghorns transportation survey and interviews with Steve Sullivan, the largest impact we can make on the campus parking problem is through promoting alternative transportation among the staff and faculty. This segment of the campus population has the highest occurrence of single occupancy vehicle trips, the lowest carpool percentage, and are longer residents of the campus community than the students.

Project Summary:

- Alternatives B and F were chosen to appropriately address the problem. Alternative B creates a Guaranteed Ride Home program, alternative F begins an incentive program for carpooling and alternative transportation use. For alternative B the project group will obtain sample taxi fare values, prepare an educational packet and create a monthly alternative transportation log with a sample liability release waiver. Steve Sullivan will review the proposal and arrange rides by university parking officers for destinations in Arcata, negotiate w/ taxi companies a contracted rate for rides outside Arcata, and employ an unpaid intern to help implement the program. By August 2005 Steve or the intern will purchase prizes for the incentive program raffle and order the educational packets, liability waiver, registration, and monthly log to be printed by graphic services. One week before fall semester 2005 the packets will be distributed by campus mail and the monthly log will be posted as a PDF file on the HSU parking website. Monitoring and evaluation will consist of reviewing monthly logs to see if objectives are met and it is feasible to extend program to student participation.

Goals/Objectives:

- Increase alternative transportation use by the faculty and staff 5% by fall 2006
- Have all costs associated with the solution generated from campus parking fines.

Outcome/Follow-up:

- The Campus Commuter
- Carpool Only Parking Spaces behind the SBS building were created

Contacts:

- Steve Sullivan, manager of Parking and Commuter services
- Sean Kinghorns 2002 transportation survey

- City Cab (only cab Co. in Humboldt)

Transportation Sub-Committee Spring 2001

Problem:

- Humboldt State University Supports Alternative Transportation uses. Despite such support the university is lacking active leadership and infrastructure that demands students, staff, and faculty to lower their personal fossil fuel consumption while commuting to and from campus.

Project Summary:

- In order to reduce the number of vehicles commuting to and from HSU by increasing alternative transportation methods such as bicycling, walking, and public transit the group has proposed several solutions:
 - 1) Develop and promote a Mass Transit Awareness Campaign to survey AMRTS passengers in order to establish efficient bus scheduling times.
 - 2) Create an educational video to promote alternative transportation to be shown during Humboldt Orientation week.
 - 3) Increase the number of bicycle racks on campus through parking and commuter services funds.
 - 4) Table in the quad to increase student awareness of alternative transportation services available.

Goals/Objectives:

- Increase community awareness of the Cycle Learning Center by 5%.
- Increase the amount of buss pass sales by 10% by May 2001.
- Increase commuting by walking, biking, bus travel, and carpooling to and from HSU by students, staff, and faculty by 10% by May 2001.
- Develop and promote a mass transit awareness campaign.
- Create an educational video promoting alternative transportation for HOP week.
- Increase the number of bicycle racks on campus.

Outcome/Follow-up:

- The group tabled, and survey and awareness campaign was conducted

Contacts:

- Steve Sullivan – PCS Supervisor
- Robert Foster – Campus police director
- Steve Newman – Campus Video Producer
- Riley Quarles – Coordinator for courseware development
- Larry – Fleet Manager AMRTS
- Kenneth Combs – Physical Relations Director

B Street Project

Fall 2003

Problem:

- Since its establishment in 1913, HSU has slowly expanded into the already existing streets of Arcata. The result is a campus intertwined with many small streets and parking lots, intertwining vehicle and pedestrian traffic. The section of B Street between Laurel and Harpst Street is an area of particular concern; it has become one of the busiest corridors on campus, with relatively small sidewalks and intermingling pedestrian and automobile traffic. With a rise in enrollment and completion of the Behavioral and Social Sciences building, the B street corridor will be severely congested.

Project Summary:

- The selected alternative involves widening the east sidewalk of B Street, removing the parking spaces, and painting bike lanes. Group members conducted research on the campus master plan, a cost analysis of traditional and alternative construction methods, a media awareness project, an informational webpage and a community poll.

Goals/Objectives:

- Increase pedestrian and bicyclist safety on B Street
- Accommodate increased pedestrian traffic on B Street
- Create a user-friendly corridor on B Street
- Increase aesthetic quality of campus

Outcome/Follow-up:

- B Street corridor plans have been incorporated into the Campus Master Plan

Contacts:

- Bob Shultz
- Steve Sullivan
- Arcata Ready-Mix

Sustainable Transportation Senior Project

Fall 2003

Problem:

- Excessive amounts of single occupancy vehicles (SOV), and a lack of planning or support at HSU for alternate transportation

Project Summary:

- To become involved with the campus master plan process

- To develop an HSU library bike lending station
- To develop a carpool promotion campaign

Outcomes/Follow-up:

- A presentation was given to the master plan committee
- A bike lending station was started in conjunction with the bicycle learning center
- Working with the alternative transportation club, permanent preferential carpool parking was established.
- Publicizing of carpool programs, a car-stuffing event was done, and other promotional efforts were established.

Contacts:

- Renee Stork: Alternative Transportation Club President (822-0100)
- Michael Wilcox
- University of Washington UPASS program www.washington.edu/UPASS

The Bike Friendly Group: Working Toward a Sustainable HSU
Campus
Fall 2004

Problem:

- Humboldt State has a lack of adequate resources available to bike riders, including no bike lanes, security issues, and poor usage of bike racks.

Project Summary:

- This group took action by submitting a memo to Steve Sullivan of Parking and Commuter Services about needing increased bike rack storage, owning options, and awareness of bike riders on campus. Also, the group reviewed the current Master Plan for the campus and suggested changes to the Transportation Committee. This group's hope was that a future class group or a coalition of groups on campus interested in bike riding would carry out monitoring and evaluation of the project.

Outcome/Follow-up:

- The memo was submitted. Changes to the campus infrastructure have not occurred.

Contacts:

- Steve Sullivan, Parking and Commuter Services
(707) 826-4640
sas7001@humboldt.edu

The Bike Rack Team Spring 2004

Problem:

- The distribution and type of bicycle racks located throughout campus are inefficient and out of date.

Project Summary:

- This project wanted to replace existing old bike racks with the new “wave” style racks (that can be seen in front of the HSU Library) in these locations: Natural Resources Building, Forestry Building, Wildlife Building, Gist Hall, Science D, Harry Griffith Hall. Also, the group wanted to experiment with bike lockers and mapping bike parking.

Outcome/Follow-up:

- This group researched, met with stakeholders, made a survey, and made a GIS database. They planned to continue pursuing this effort with the help of the Alternative Transportation Club. Parking and Commuter Services director Steve Sullivan agreed to list bicycle racks that needed replacement and initiate a purchase order for new replacements. As of fall 2005, none of the racks in these locations have been replaced.

Contacts:

- Steve Sullivan
(707) 826-4640
sas7001@humboldt.edu
- Alternative Transportation Club
alttrans@humboldt.edu

Sustainable Transportation at Humboldt State University Fall 2002

Problem:

- There is a lack of motivation and awareness concerning transportation alternatives available to students, faculty, and staff both on and off campus.

Project Summary:

- This group’s objectives were to increase awareness of available transportation resources, increase usage of the rideshare program, increase bicycle use on campus, and decrease automobile traffic on campus through utilizing mass transit.

Outcome/Follow-up:

- The group formed a club through the Clubs Office and created posters, HSU Weekly University Notices, and the Lumberjack campus newspaper to advertise for their club meetings. The group also wrote a grant to the California Department of Transportation to subsidize the cost of out-of-town commuting on the Humboldt Transit Authority bus routes.

Contacts:

- Alternative Transportation Club
alttrans@humboldt.edu

Food/Health

Green Cleaning Fall 2004

Problem:

- Cleaning products are damaging to health & environment
- The state of ca. other universities as well as parts of HSU have switched to “green products” but residence halls use the traditional cleaning products.
- There are few federal or state requirements for environmentally benign cleaning products

Project Summary:

- The projects goal was to minimize the use and exposure to toxic and or hazardous cleaning products within HSU’s residence halls

Objectives:

- Maintain and improve HSU’s mandated hygienic standards
- Replace two most commonly used cleaning products with green seal/EPA approved environmentally friendly cleaning products (bathroom and glass cleaner)
- Decrease improper chemical dilution, storage, and overuse of products
- Eliminate redundant underused cleaning products
- Uphold or decrease residence hall budget for cleaning products
- Maintain current labor costs associated with cleaning (i.e. no extra work for janitorial staff)

Outcome/Follow-up:

- Presented a variety of green products to staff (Hillyard, Envirox, Spartan Chemicals and Ecolab) Residence halls replaced toxic cleaning products with Hillyards' green product called Re-Juv-Nal

Contacts:

- Envirox website www.h2oranfe2.com
- Ecolab website www.ecolab.com
- Green Seal website www.greenseal.org
- Hillyard Industries website www.hillyard.com
- Spartan Chemical Company www.greensolution.com
- Mt. Holyoke College www.mtholyoke.edu
- Jerry Jacobson, HSU residence halls lead custodian

Local Organic Foods on Campus
Fall 2002

Problem:

- Lack of availability regarding local and organic foods at HSU.

Project Summary:

- Increase availability and awareness of local/organic foods on campus by having a farmers market on campus, or organic produce snack stand. Awareness
- Set up a frame work of interested groups to continue project into the future to avoids redundancy in projects

Gaols/Objectives:

- Provide local/organic foods with interpretive information available once a week on HSU Quad
- Create list of contacts and outcome of project

Outcome/Follow-up:

- Group wrote and proposed a proposal for a campus farmers market. But according to President Richmond this was not a viable option. Concerns included economic, transportation, liability, and logistical issues.
- Contact list was created, along with guidelines for implementation and back ground information

Contacts:

- Rollin Richmond, HSU Pres.
Office # 707 826 3311

Cell # 707 599 6699

Email rollinr@humboldt.edu

- Steven Butler- Student Affairs VP, responsible for Quad policies
Office # 707 829 3361
Email svb7001@humboldt.edu
- McIntosh Farms, Willow Creek
Phone # 530 629 3736
- Gratefully Grown Gardens, Eureka
Contacts: Deena Fabbri and Aaron Colvin
Phone # 707 442 7105
- Avalon Farms, Orleans
Contact: Neal Latt
530 627 3375
- Jacques Neukom Farm, Willow Creek
Phone # 530 629 1909
- Pierce Family Farm, Orleans
Contact: Patrick Pierce
Phone # 530 627 3320
- North Coast Growers Association (NCGA)
Contact: T, manager of farmers market
707 441 9999
- North Coast Coop Community Foundation
Contact: Karen Brooks
707 822 5747 ext 139
- Depot
 - Eddie Aguilar, Depot manager
Office # 707 826 4185
Email efa7001@axe.humboldt.edu
- Humboldt Co. Department of Agriculture
Contact: Paul Holzberger
707 445 7351
- Associated Students, Internship Work study Coordinator
Contact: Gretchen Stadler
Office # 707 826 5470

Sustainable Campus: Food Source Group Fall 1999

Problem:

- The food served at HSU is not from local sources. The practices at HAS supports fossil fuel consumption, corporate agriculture, and unsustainable lifestyles rather than supporting the local community.

Project Summary:

- The project was to have HSU provide local food products in the dining halls, and to have the food labeled with its origin.

Outcome/Follow-up:

- The group met with Ron Rudebach and introduced the option to him.

Contacts:

- Susan Orneleas: Arcata Educational Farm
- Deborah Gereaud: County Agriculture Adviser
- Ron Rudebach: Campus Food Service

Mushrooms for the Campus Center for Appropriate Technology
(CCAT)
Fall 2001

Problem:

- CCAT is not self-reliant in the way of food, and does not use their land for food efficiently.

Project Summary:

- The project was to cultivate 4 varieties of edible mushrooms, using logs as the substrate. The mushrooms chosen are all edible, and grow well in the land available.

Outcome/Follow-up:

- Mushrooms plugs were impregnated into 12 alder logs at CCAT. Survival and success is not known.

Contacts:

- CCAT Co-Directors.

HSU Organic Coffee Project
Fall 2001

Problem:

- Vendors at HSU and not solely using coffee from sustainable sources (organic)

Project Summary:

- This project essentially evaluated the willingness of people to pay more for organic coffee using a survey. A taste test was done on campus to see if people preferred organic coffee to the un-organic coffee.

Outcome/Follow-up:

- 25 out of the 35 people involved in the taste test preferred the organic to the un-organic coffee.
- The results of the survey showed that 60% were willing to pay \$ 0.10 more a cup, 54% were willing to pay \$0.25 more per cup, and 23% were willing to pay %0. 50 more a cup.

Contacts: (other contact information was not given)

- Mary Thomas
- Eddie Aguilar
- Ronnie Martin
- Scott Shurk
- Gold Rush Coffee
- Ron Rudebach
- Muddy Waters Coffee
- Sacred Grounds Coffee

Energy Use

Electricity Reduction and Sustainable Campus Database at HSU
Fall 2004

Problem:

- Campus residents are consuming too much energy.

Project Summary:

- To develop a database for students to be aware of sustainability projects on campus.
- To install light shelves to increase sunlight in rooms
- To construct an electricity awareness kiosk
- To perform energy conservation workshops
- To have contests between dorms to conserve energy
- Place energy reduction stickers on light switches

Outcome/Followup-:

- The kiosk was supposed to be constructed on the second floor of the "J"
- A light shelf was installed in Perry Gray-Renenberg's office
- Workshops were to be held in spring of '04
- Database was not established due to lack of a web designer
- Electricity contest was set to begin in spring '04
- A sticker contest was held for best sustainability themed sticker

Contacts:

- Richard Carlson: Associated Director, Housing Facility Services
- Megan Hundley: Coordinator of Resident Education
- Ken Johnson: Maintenance Supervisor
- Patty O'Rourke: Assistant Director, Student Life
- John Capaccio: Director of Housing

Energy Conservation Outreach Plan Spring 2004

Problem:

- Humboldt State University lacks an Energy Conservation Outreach Plan. The HSU community prides itself on being ecologically minded and leaving a small footprint, which would only be enhanced by developing and implementing an outreach plan.

Project Summary:

- Phase one was to define and ascertain the problem, this involved informal surveys of the staff and students, interviews with administrative contacts, and research into solutions to energy problems on other campuses. Phase two set goals and objectives for the need, and Phase three identified appropriate solutions to meet the goals and objectives. Phase four involved assigning implementation solutions to each group member, these included: posters and stickers, a web page, a GIS map, dormitory incentives, media coverage through the Lumberjack and KRFH, and skits. Phase five implements monitoring and evaluation for each year to be done by staff of the Schatz Energy Research Center.

Goals/Objectives:

- Design a successful energy conservation outreach plan for HSU.
 - Have an ECOP that can be implemented within one year
 - Have a plan that promotes energy savings
 - Have a plan rewarding 8-10% of its participants
 - Have a plan, which empowers 4% of faculty and staff
 - Have a plan that utilizes several outreach methods

- Have a plan that provides an educational service to the majority of those involved in the campus community
- Engage a large portion of the HSU community in the implementation of the ECO plan
 - Roles in the plan for four departments
 - Receive a willing response from those departments

Outcome/Follow-up:

- Schatz Energy Research Center follows up with research and an incentive program for energy efficiency was started in the dorms

Contacts:

- George Wright – Chief Engineer – Plant Ops.
- Dr. Richard Engel – SERC
- More?

Computer Energy Assessment
Fall 2000

Problem:

- Our group strongly believes that the current inefficient use of computers on campus has greatly contributed to energy costs and consumption. Using methods of research, interviews, and class observation, we plan to evaluate this problem and offer solutions to decreasing energy needed for computer use.

Project Summary:

- The group conducted research and surveys to complete an assessment of campus-wide computer use. The group surveyed how many students, staff, and faculty have computers, what brands are used, the amount of volts hard drives, printers, and monitors use, how many hours a day campus computers are on, and how many have sleep modes or power-down modes.

Goals/Objectives:

- Complete an assessment of campus wide computer use
- Reduce energy use on campus
- Raise energy awareness concerning computer use
- Educate students, staff, and faculty about energy consumption

Outcome/Follow-up:

- Energy assessments were taken as well as educational surveys questioning and informing campus residents of energy conscious computer use.

Contacts:

- None given or mentioned

Energy Audit of HSU Science Department Spring 2004

Problem:

- Inefficient refrigeration units on campus may be the cause of extra energy costs. These units should be identified.

Project Summary:

- To identify inefficient refrigeration units in the science departments.
- Power meters were plugged into the outlet and then into the refrigeration unit.
- 26 units were measured at different departments on campus.

Outcome/Follow-up:

- Of the 26 units tested 4 were considered inefficient. This information was given to the stockperson in the department where the inefficient unit was.

Contacts:

- Jacob Varkey: Biology Dept.
- Patricia Siering: Biology Dept.
- Casey Lu: Biology Dept.

Energy Alternatives to Reduce Greenhouse Gas Emissions at Humboldt State University Fall 2002

Problem:

- Humboldt State consumes a significant amount of energy, contributing to the creation of greenhouse gas emissions.

Project Summary:

- This group planned on creating a comprehensive plan that would help the HSU campus progressively reduce greenhouse gas emissions until the year 2026, when the campus should be "off the grid." Campus-wide energy conservation measures proposed included having a dorm energy saving competition, a faculty

energy saving competition, and a future greenhouse gas inventory. Instead of focusing on the entire campus, the group analyzed just the consumption of the newly proposed Student Recreation Center. Proposed ideas for the Recreation Center were the use of natural and T-5 fluorescent lighting and pedal-power to power the gym.

Outcome/Follow-up:

- The Student Recreation Center did not utilize pedal-power. A greenhouse gas emission inventory has not been done. A campus dorm energy saving competition is currently taking place for the second year, it is put on by the Green Campus Program student club.

Contacts:

- Bob Schulz, Facilities Management
(707) 826-4111
rcs7002@humboldt.edu
- Bart Orlando, Pedal Power Expert
bartorlando@mybluelight.com
- Green Campus Program
greenhsu@humboldt.edu
- Drew Peterson, Athletics
(707) 826-4519
ajp3@humboldt.edu

Land Use/Buildings

The Future Opportunities of Certified Wood for HSU

Fall 2001

Problem:

- The HSU campus' wood is not from sustainable sources, even when such sources exist.

Project Summary:

- The goals of this project were to gain a better understanding of how HSU purchases wood and to encourage the Theatre Arts and Industrial Technology Departments to use certified sustainable wood products in their projects.

Outcome/Follow-up:

- The group discovered that the Theatre Arts Department and Plant Operations are already purchasing certified wood products when possible. What the group felt was lacking was a campus-wide policy of requiring the purchase of certified wood. This would have to be implemented at the state level because we are a state institution.

Contacts:

- Alec Cooley, Plant Operations: Recycling Coordinator
(707) 826-3646
anc1@humboldt.edu
- Richard A. Giacolini, Contracts, Procurement and Risk Management (Purchasing)
(707) 826-3306
rag7001@humboldt.edu

Campus Committee
On Sustainability Subcommittee on Campus Outlay

Problem:

- Because HSU is considered a model for environmental education and sustainability by other campuses, HSU should focus more on ecological building design principals into campus building process. HSU should evaluate building plans based on sustainable building guidelines.

Project Summary:

- Implant green design into campus capital outlay projects
- Reduce material, energy, heat, water waste
- Increase green product uses such as: recycled materials, sustainability harvested materials, or with low embodied energy into capital outlay projects
- Implement green design principals into Forbes Complex project to reduce energy, water use, and landfill by 25%
- Increase green products by 50%

Outcome/Follow-up:

- Created a check list and resource list (very extensive see actual project)
 - Green building guidelines
 - Green building checklist

Contacts:

- Roofing, recycled shingles www.renewwood.com
(800) 420 7576,
www.polar-ply.com
- Insulation
www.foam-tech.com
- Flooring; heated flooring
www.warmleeyours.com
- Windows
www.viceroy.com
- Recycled building materials
 - Collins Wood (800) 329 1219
 - Cascade Forest Goods www.cascadiaforestgoods.com

Landscape Group
Fall 1999

Problem:

- The HSU landscape policy does not incorporate all aspects related to sustainability, but with the resources available the policy does include many sustainable practices. We propose a sustainable landscape program to improve resource conservation, health, aesthetics and function of campus grounds.

Project Summary:

- The group met with several contacts to discuss water usage, green landscaping, and identify problem areas for campus landscaping. The group identified three problem areas: 1) Water usage on campus. 2) Restoring the slope between Founders Hall and Cypress Hall. 3) Obtaining funds for landscaping on campus. Precise water usage for landscaping was hard to identify, a new infrastructure will be in place in 2002 to allow monitoring. Time and money constraints did not allow a volunteer workday for the slope between Founders and Cypress.

Goals/Objectives:

- Research and monitoring of current landscape practices.
- Reduce amount of water used in landscaping.
- Improve soil quality and stabilize erosion on hill between Founders and Cypress.
- Increase the amount of native plant species on campus.
- Reduce the amount of toxic substances used for landscaping.

- Increase sustainable landscape practices.

Outcome/Follow-up:

- No actions taken, the scope of the project was too large and work problems were associated

Contacts:

- Camellia Armstrong – Administration Support Housing and Dining
- Kevin Creed – Director Environmental Health and Safety
- Ken Combs – Director Physical Services
- Alec Cooley - Administrative Analyst Plant Ops.
- Mary Flint – UC IPM project
- Wayne Hawkins – Supervisor Plant Ops.
- Rees Hughes – Director Housing and Dining
- Dennis Macomber – Maintenance Supervisor Grounds

Waste Reduction

Food Waste Diversion and Nutrient Recovery

Fall 1999

Problem:

- One of the biggest dilemmas humans face today is the mentality that things can be 'thrown away', however there is no such thing as 'away'. Food and plant waste constitutes a large portion of total solid waste generated and reducing or reusing this 'waste' will significantly decrease the total waste generated by HSU.

Project Summary:

- Various alternatives were explored and the group decided on in-vessel composting techniques to address the waste problem from the 'J', the 'Depot', and the dorms. Group members will continue the funding portion of this project in their grant writing class.

Goals/Objectives:

- Divert all pre and post-consumer food waste at the 'J' and all pre-consumer waste at the 'Depot' by fall 2000.
- Divert all post-consumer food waste at the 'Depot' by fall 2001.

- Divert 50% of all food waste in the Hsu dorms by fall 2005.
- Identify appropriate funding for acquisition of an institutional-capacity food waste diversion system
- Discontinue unnecessary dumping of food.
- Establish a framework for future students to follow

Outcome/Follow-up:

- The group members carried this project over to the grant writing class. This is the system currently in place at the J, Depot, and dorms.

Contacts:

- Non given

Compost on Campus
Fall 2003

Problem:

- Too much reusable waste from campus is going into landfills.

Project Summary:

- To provide compost buckets at coffee, and bagel tables and other location on campus.

Outcome/Follow-up:

- Compost buckets were placed in front of the wildlife building, Science B & D, Natural Resources, Harry Griffith Hall, Founders Hall, and the Library.
- Some compost buckets were also placed at coffee and bagel tables of willing clubs.

Contacts:

- Alec Cooley: Campus Recycling Program
- Jolynn M Ahmoudi: Campus Recycling Program

Reducing Paper Consumption in HSU's Academic Computing Labs: A
Two-Pronged Approach

Fall 2004

Problem:

- An excessive amount of paper is being consumed and wasted in the academic computing labs. The current printing fee-structure allows students to over-consume paper and too many resources are expended to produce the amount of

paper consumed in the academic computing labs. Students and staff at HSU do not seem aware of how much paper is being used and wasted on campus.

Project Summary:

- The group decided on a two pronged approach; educating students and staff about how much paper waste HSU generates, why conservation needs to happen and what responsible printing options are, the second approach involves gaining support for and initiating a pay-per-print system to cut down on unnecessary printing and have students pay relative to the amount of paper they use for printing.

Goals/Objectives:

- To reduce paper waste in Academic Computing computer labs on campus.
 - Reduce amount of paper purchased by AC by 10% by the end of spring 2007 and 15% by the end of spring 2010

Outcome/Follow-up:

- The scope of the project is out of range of a one semester class and future students are encouraged to continue.
- Bill Cannon – Head of academic computing

Contacts:

- Bill Cannon – AC
- Pat Collins – IT consultant GIS lab
- Alec Cooley – CRP
- R.J. Wilson – AC contact
- Michael Winkler

Student Paper Waste Reduction

Fall 2002

Problem:

- There is excessive paper usage in Academic Computing computer labs at HSU.

Goals/Summary:

- This group wanted to increase awareness of ways to reduce paper use in the computer labs on campus.

Outcome/Follow-up:

- Two approaches were taken. At first, this group attempted to convince Academic Computing to purchase quota software that would make it possible for every student to be charged per page of printed material that they produced in the labs. When Academic Computing cut down this approach because of cost, the group used an educational and colorful poster to show ways to reduce paper

consumption in the labs. The posters are still up in every Academic Computing Labs!

Contacts:

- RJ Wilson, Academic Computing manager
(707) 826-4201
rjw7001@humboldt.edu

Sustainable Bookstore Project
Fall 2001

Problem:

- The HSU Bookstore lacks sustainable methods of operations and thus jeopardizes the needs of future generations and fails to meet the needs and interests of the student body.

Goals/Summary:

- This group had many goals including to: eliminate unnecessary waste, provide sustainable alternatives, and to create a sustainable atmosphere at the bookstore. These goals were to be attained through a strategic implementation plan designed by the group and presented to the HSU Bookstore general manager. Examples of objectives set to meet their desired goals include: increase recycling, donate defective office supplies to the Reusable Office Supply Exchange (ROSE), offer organic coffee, bulk sugar, and local products, advertise sustainable products, and promote progressive literature.

Outcome/Follow-up:

- The bookstore now offers many sustainable and local products including organic cotton t-shirts and...

Contacts:

- Diane Lonn, HSU Bookstore manager
(707) 826-3958
dl7001@humboldt.edu

Purchasing Group: Recycled Paper Project
Fall 1999

Problem:

- Humboldt State purchases a large quantity of goods, services, and energy, the production of which has a great environmental impact. Paper resources are an especially large area of purchasing and production of paper resources has a significant environmental impact.

Goals/Summary:

- Implement higher post-consumer paper throughout campus
- Subsidize the cost of that paper
- Conduct a student survey to determine student's purchasing needs
- Educate students about paper waste in conjunction with the Campus Recycling Program

Outcome/Follow-up:

- Because of limited time and money, higher post-consumer paper was not implemented. The group was successful in testing the paper and found that 50% post-consumer paper was of a sufficient quality. However, a way to subsidize the extra cost of this paper was not found. A student survey was conducted. Education was planned for after the semester.

Contacts:

- Alec Cooley, Campus Recycling Program
(707) 826-5920
anc1@humboldt.edu
- RJ Wilson, Academic Computing manager
(707) 826-4201
rjw7001@humboldt.edu

The R.O.S.E Project
Fall 2004

Problem:

- Useable office supplies in departments across campus are being wasted, and thrown away
- These office supplies included furniture paper products, and electrical equipment

Project Summary:

- To restore the understaffed, under publicized, and limited hours of operation the current ROSE project has.
- Making the used office supplies available to student's staff, and faculty through a store on campus.
- To provide awareness, increase the efficiency, and organization of the ROSE (The Reusable Office Supply Exchange) project already in place on campus.
- To eliminate or reduce office supply waste
- To divert office supplies in usable condition away from landfills
- To redistribute office supplies to students, staff, and faculty

Outcome/Follow-up:

- A store offering office supplies was established in House 53 on campus

- After implementation of project the number of visits had doubled by the end of the semester

Contacts:

- Alec Cooley, Campus Recycling Program
(707) 826-5920
anc1@humboldt.edu

Solid Waste Audit: Humboldt State University Residence Halls
Fall 2002

Problem:

- Residence halls are responsible for high volumes of solid waste including recyclables.

Project Summary:

- A waste audit to be done on one of the residence halls on the HSU campus
- To audit both the recycling bins and dumpsters for beverage containers.

Goals:

- Audit the waste stream of HSU's residence halls
- Compare the findings of the audit to a past audit done in 1992-1993
- Evaluate the recycling program in the residence halls

Outcome/Follow-up:

- An audit was done, the materials were sorted at the Recycling Work Site
- There is more waste coming out of the residence halls now than 10 years ago when the other audit was done.

Contacts:

- Alec Cooley, Campus Recycling Program
(707) 826-5920
anc1@humboldt.edu
- Jerry Saner, Recycling Coordinator
- Arcata Garbage Company
- Ken Johnson, Housing, HSU

Water Conservation / Use

Campus Storm water Run-off Assessment Fall 2001

Problem:

- The quality of storm water run-off is an issue on campus because our storm water isn't treated. The water from campus enters Campbell Creek, where it ultimately flows into Humboldt Bay, the largest oyster fishery in California, which is being considered for listing as a threatened body of water. The current digging to replace the piping on campus has contributed higher loads of sediment to the run-off and automobile traffic contributes hydrocarbon pollution to the run-off.

Project Summary:

- Alloy-coated aluminum placards saying "No Dumping, Drains to Creek" will be mounted adjacent to storm drains located on the southern half of the campus. These placards will raise awareness and deter people from dumping into the drains. The group also conducted water-quality monitoring in the drainage creek on the south entrance to campus, and evaluated sandbagging techniques employed by Mallcraft Inc.

Goals/Objectives:

- Determine the components of campus run-off before, during, and after a storm event.
- Evaluate the effects of known contaminants on the surrounding watershed.
- Minimize pollution input into campus run-off through technology and/or education.
- Determine if lead is present in the drinking water.
- Eliminate any lead by notifying campus authorities.

Outcome/Follow-up:

- The tests were completed, lead was not found to be present in campus drinking water, and 'No Dumping' placards were strategically placed around campus.

Contacts:

- Kevin Creed – Environmental Services
- Phil Perez – Physical Services
- Debbie Hopkins – Plant Operations

Stream Crossing Monitoring:
Evaluating Retrofitted Culvers for Fish Passage
For Andromous Fish
Spring 2005

Problem:

- The Department of Fish and Game retrofitted culverts to improve fish passage, but no monitoring has been conducted to determine if retrofits were effective.

Project Summary:

- Establish monitoring of six of the ten culverts for efficiency in fish passage.
Creeks: Mather, Linsay, Sullivan Gulch, South Fork Anker # 2, Cloney Gulch.

Goals/Objectives:

- Establish criteria for monitoring program
- Establish hydrologic analysis criteria on culverts for fish passage

Outcome/Follow-up:

- Initiated a monitoring evaluation for six retrofitted culverts in Humboldt County
- Retrofits were successful, but due to time constraints monitoring time was limited, took measurements during low flows

Future Project:

- Continue monitoring, especially during high flows

Contacts:

- State of CA Resources Agency, Dept. of Fish and Game Culvert Criteria for fish passage
www.dfg.ca.gov/nafwb
- Dept. of Fish and Game Status Review of CA Coho Salmon North of San Francisco
www.dfg.ca.gov/nafwb
- Dept. of Fish and Game Andromous Fish
www.dfg.ca.gov/nafwb
- County Plans to Replace Culverts
www.mattole.org/html/publications_article_5.html
- George Robison, HSU Watershed Professor,
- Taylor Ross, Humboldt County Inventory and Fish Passage Evaluation
www.5counties.org
- Chris Whitworth, Dept. of Public Works

A Study of Water Conservation at Humboldt State University

Problem:

- Due to Humboldt County's climate and water abundance, HSU does not focus on water conservation. HSU meets the states standard low flush toilets for all new structures.

Project Summary:

- The implementation of a water conservation plan thru reduction of consumption at HSU.
- 5% per year reduction of water use by 2004
- 10% reduction of runoff by 3004
- Encourage water conservation campus wide
- Establish research and monitoring procedures by Spring 2000

Outcome/Follow-up:

- Created and conducted a survey to find out baseline information and attitudes of HSU students. From the survey the group determined students don't know whom to contact if there's a plumbing problem.

Contacts:

- This project has extensive list of contacts and future projects

Storm Water Infiltrative Parking Lots Fall 2004

Problem:

- Storm water on the HSU campus is not seen as a resource and is thus wasted and becomes part of water pollution and flooding problem.

Goals/Summary:

- Increase awareness campus-wide of the potential environmental damage of polluted storm water runoff plus the potential of using storm water as a free, renewable resource on campus. The group planned to propose future solutions that would help reduce operating costs to Plant Operations. The chosen alternative was to try and implement infiltrative parking lots.

Outcome/Follow-up:

- The group was hoping to implement a pilot project to test the effectiveness of infiltrative parking lots on campus. Unfortunately, because no new parking lots were being proposed at the time of the project, Plant Operations did not approve their proposal.

Contacts:

- Bob Schulz, Facilities Management
(707) 826-4111
rcs7002@humboldt.edu
- George Wright, Plant Operations: Maintenance Operator
(707) 826-5902
gsw7001@humboldt.edu

Sustainability and Education

Public Relations Sub-Committee

Fall 2000

Problem:

- There is a lack of organization and availability of information on the past, present, and future efforts toward sustainability occurring within the HSU community. Realizing HSU's obligation to the larger community, we have the responsibility to provide the public a source to gain information on sustainable practices. Our subcommittee has the responsibility of constructing a website on HSU's efforts toward sustainability.

Project Summary:

- The group members divided into specific topic-areas for research on sustainability issues. The group then compiled their information and submitted the data to their web page designer. Advertisement of the website would then include local ads in the Lumberjack and Eco-News, a bulk-email through the university, and a group representative to discuss the website at club meetings.

Goals/Objectives:

- Create a web page that people will be made aware of and visit.
 - Have 20% of the HSU population visit the committee's website
- Supply the web designer with background and reference information on sustainable practices.

- By Oct 18, 2000

- Maintain the accuracy of the provided information by updates to the website.

Outcome/Follow-up:

- The web page designer was not paid for their work; the site was still in the process of being created when it was posted Dec 11, 2000. There was no counter to measure the visits to the website and no data or available person to update the site.

Contacts:

- Dick Hansis – NRPI
- Michael Winkler – Schatz
- Tabi Bolton – designer
- Kris Taylor – Public Relations Coordinator

Appropriate Technology and Kids
Spring 2005

Problem:

- The current public education system is lacking in its ability to teach children to think critically about their actions that affect the environment.

Goals/Summary:

- In order to understand the problems associated with the current educational systems in place, this group planned to first frame the problems and then examine the potential of integrating educational tools on sustainability. The group then wanted to find a way to show the integration to educators.

Outcome/Follow-up:

- The group used appropriate technology as a foundation for education on sustainability and taught a weekend workshop at CCAT for educators. The group also developed a resource guide for teachers interested in implementing sustainability education into their curriculum. 19 people attended the workshop last year. The workshop will continue to take place at CCAT as long as there is interest. The workshop for Fall 2005 is already being planned.

Contacts:

- CCAT
ccat@humboldt.edu

Campus Sustainability Fund
Fall 2005

Problem:

- HSU's sustainability oriented projects, departments and programs located on campus need a consistent and dependable source of funding. Currently there is no source of funding available for sustainability oriented student projects on campus. The current campus system offers no financial incentives for students, staff, and faculty to implement sustainable decisions and practices.

Project Summary:

- The chosen alternatives involved establishing a \$.05 surcharge on all avoidable waste products sold on campus to create the Campus Sustainability Fund. To do this the group needed to administer surveys to assess the degree of support for the surcharge and create a University Center customer profile. Surveys were followed by an AS resolution consisting of a petition in support of the Campus Sustainability Fund as well as written and verbal communication efforts. The petition will lead to an AS ballot initiative to be placed on AS elections in the spring of 2006, based on the outcome of the student elections, the surcharge will be implemented.

Goals/Objectives:

- Create a dependable and self-supporting source of funding for sustainability and waste reduction oriented projects and programs on campus.
 - Establish a source of funding by May 2005
 - Need X\$ for safe budget-buffer
 - Establish a review/oversight process for funds allocation.
- Decrease HSU's waste stream
 - Decrease paper and plastic products sold on campus by 5% by Dec. 2006
 - Reduce the amount of unnecessary waste on campus
- Gain student, administrative, and faculty support for sustainable initiatives and behaviors on campus.
 - Assess student behavior to determine where proper focus should be to gain campus-wide acceptance.
 - Referendum on AS ballot to assess student support.
 - Establish alliances with HSU administrators

Outcome/Follow-up:

- Look for posting of initiative in The Lumberjack, Look for ballot initiative in Dec. '06 student elections

Contacts:

- Eddie Aguilar – The Depot
- Alec Cooley – CRP Director
- Jon Greene – Bookstore Director
- Charles Heinberg – President SCTF
- Melissa Hopper – Bookstore Manager
- Patrick McCualey – Green Campus Coordinator
- Jason Moore – Manager at the J
- Ron Rudebock – Director of Dining Services

Appendix Two: Contact List

Contact List

| Name | Position | Contact Information |
|--------------------|---|--|
| Bob Schulz | Associate Vice President of Facilities Management | rcs7002@humboldt.edu 707-826-4111 |
| CCAT | Student-Run Campus Program | ccat@humboldt.edu |
| Glenn Rickel | Web Designer | glennrickel@yahoo.com |
| Academic Computing | Help with web questions | 707-826-4242 |

Appendix Three: Website Snapshots

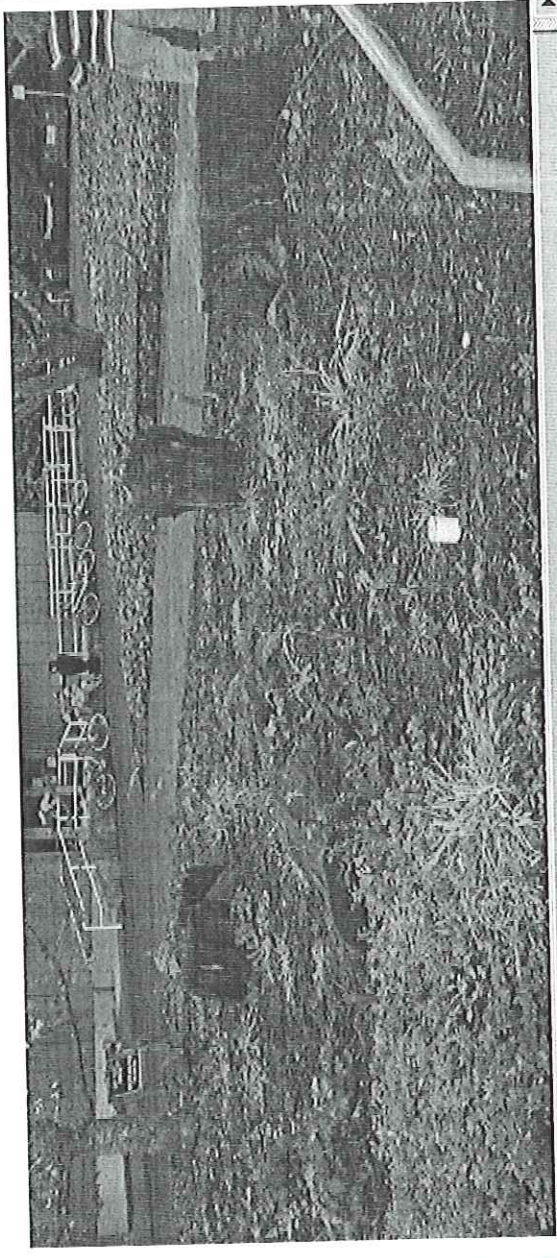
SUSTAINABILITY AT HSU

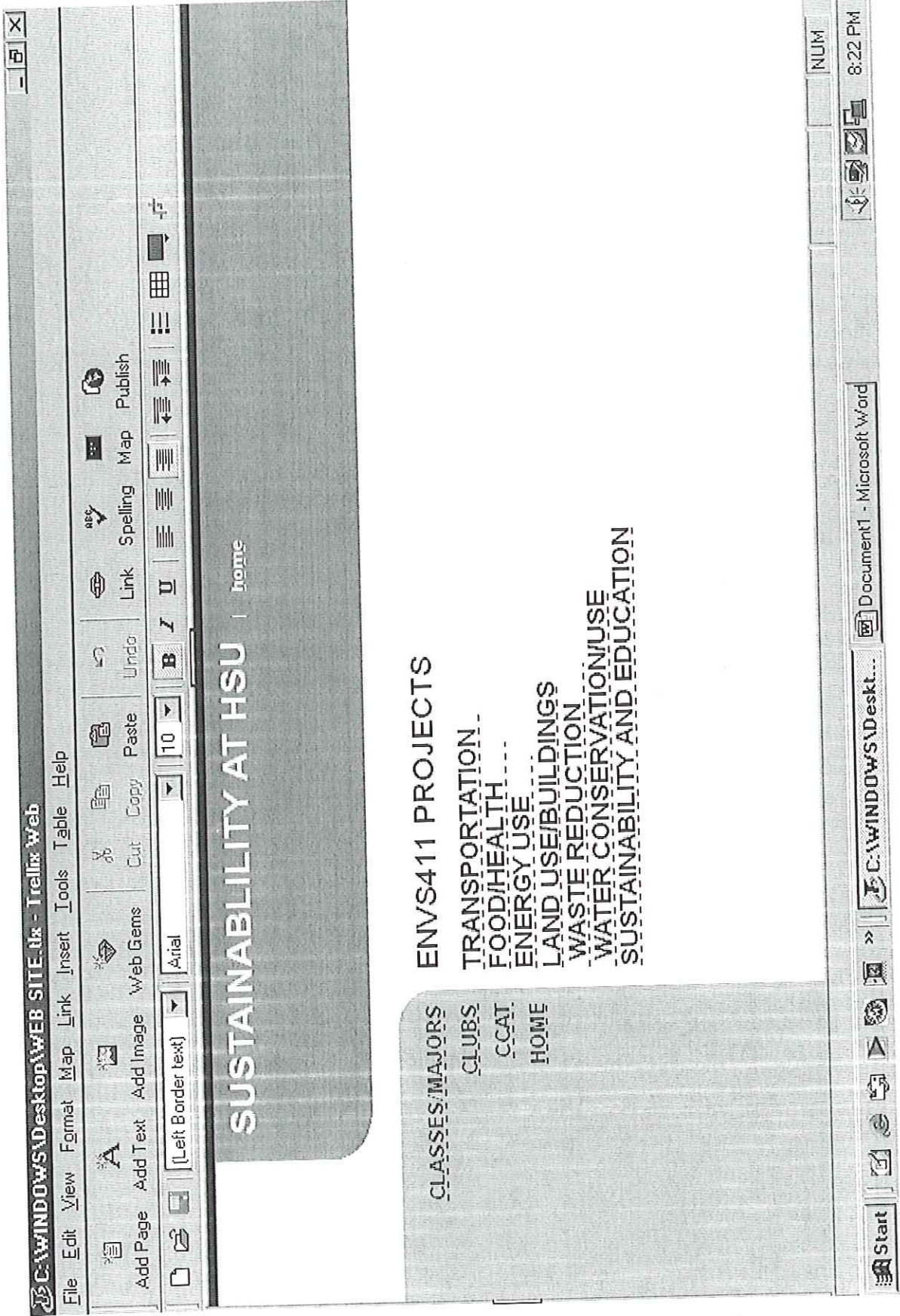
CLASSES/MAJORS

CLUBS

CCAT

ENVS411 PROJECTS





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[CLUBS](#)
[CCAT](#)
[HOME](#)

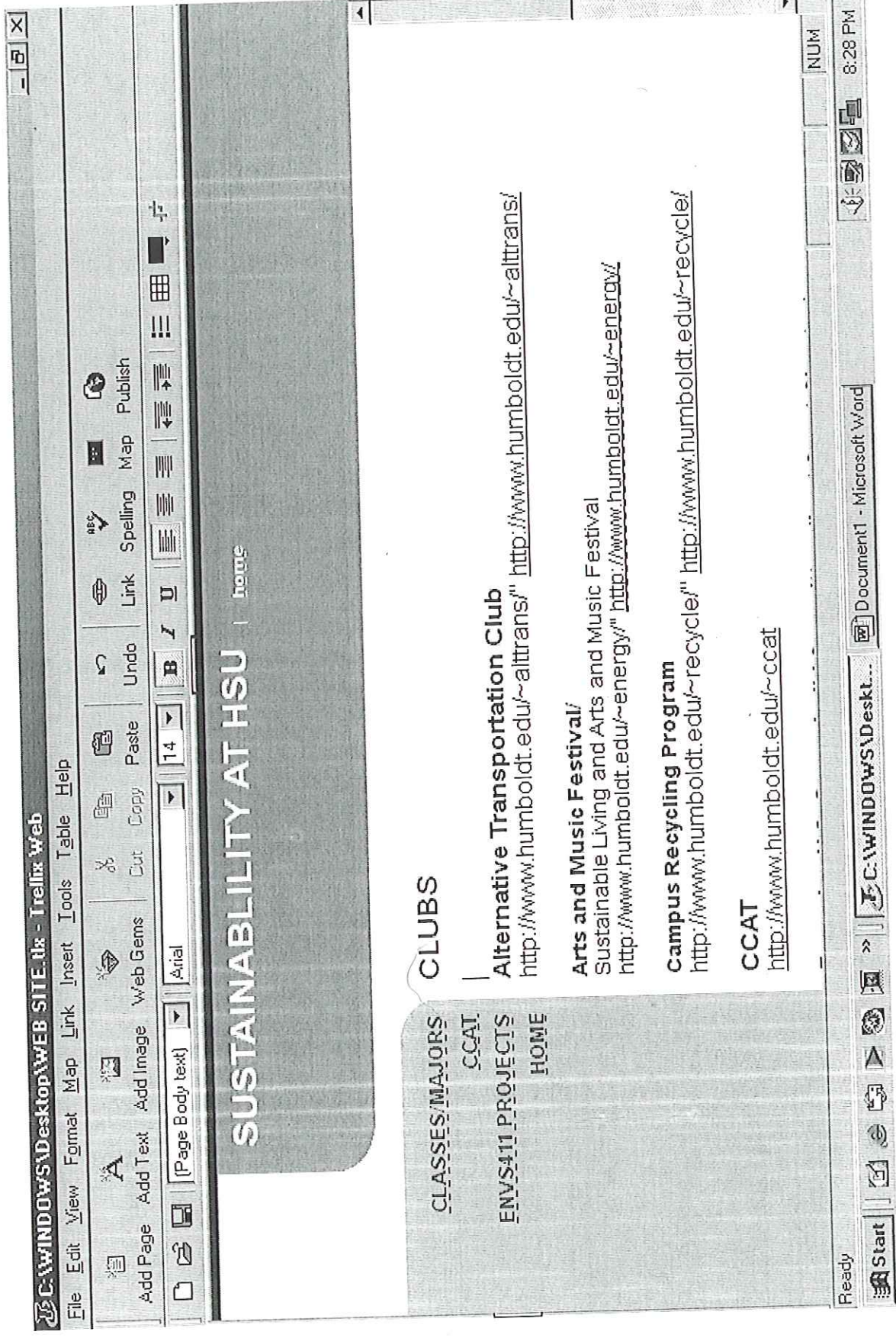
ENVS411 PROJECTS
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[WATER CONSERVATION/USE](#)
[SUSTAINABILITY AND EDUCATION](#)

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CLUBS

Alternative Transportation Club
<http://www.humboldt.edu/~alttrans/>

Arts and Music Festival/
Sustainable Living and Arts and Music Festival
<http://www.humboldt.edu/~energy/>

campus Recycling Program
<http://www.humboldt.edu/~recycle/>

CCAT
<http://www.humboldt.edu/~ccat>

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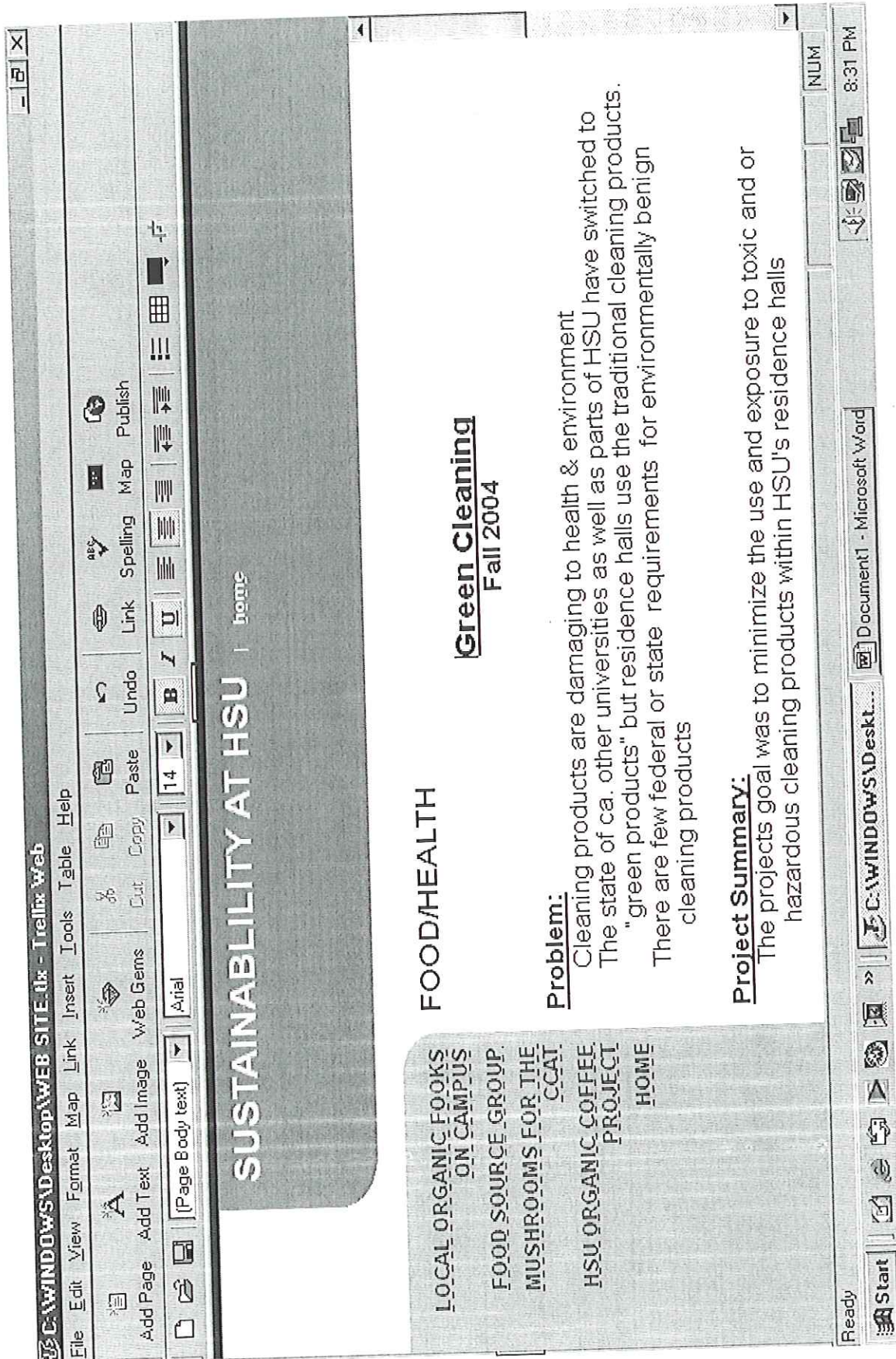
SUSTAINABILITY AT HSU | [home](#)

TRANSPORTATION

Parking at HSU

SPRING 2005

Problem:
 AS students we see the fact that parking is an issue on campus. We've all seen drivers circling the lot like buzzards after a fresh kill. Based on Sean Kinghorn's transportation survey and interviews with Steve Sullivan, the largest impact we can make on the campus parking problem is through promoting alternative transportation among the staff and faculty. This segment of the campus population has the highest occurrence of single...



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FOOD/HEALTH

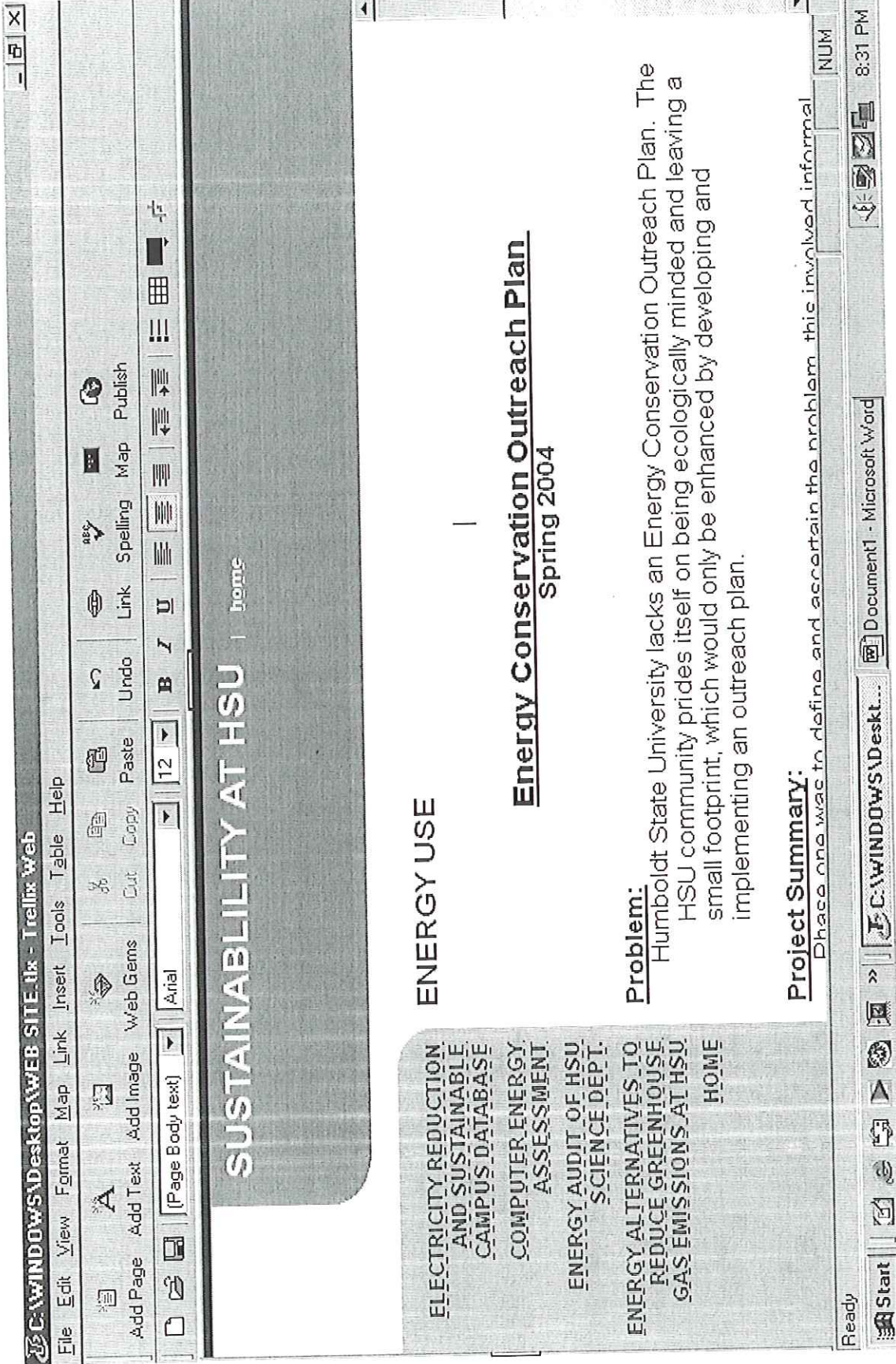
Green Cleaning Fall 2004

Problem:

Cleaning products are damaging to health & environment
The state of ca. other universities as well as parts of HSU have switched to "green products" but residence halls use the traditional cleaning products.
There are few federal or state requirements for environmentally benign cleaning products

Project Summary:

The projects goal was to minimize the use and exposure to toxic and or hazardous cleaning products within HSU's residence halls



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ENERGY USE

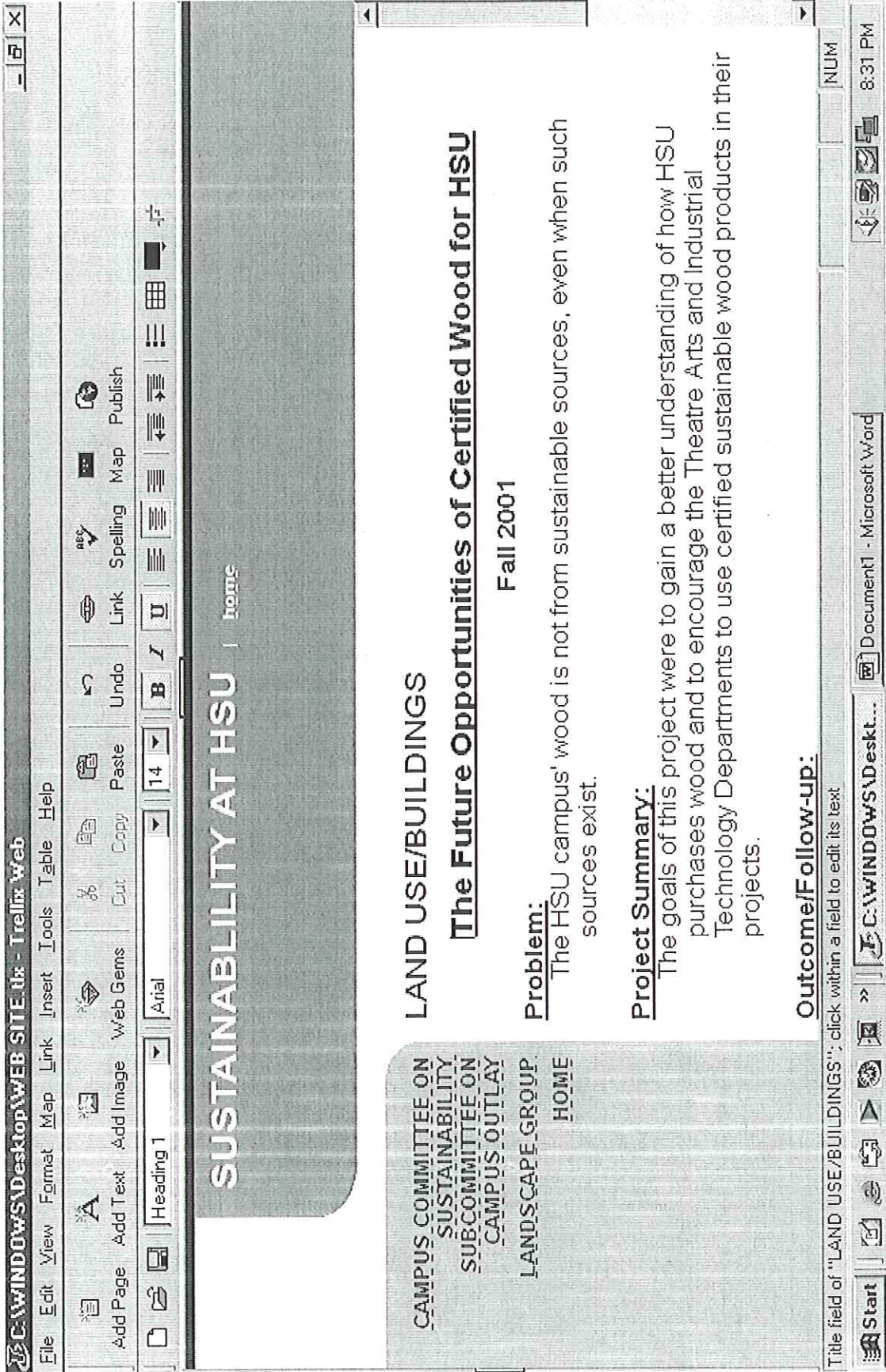
Energy Conservation Outreach Plan Spring 2004

Problem:

Humboldt State University lacks an Energy Conservation Outreach Plan. The HSU community prides itself on being ecologically minded and leaving a small footprint, which would only be enhanced by developing and implementing an outreach plan.

Project Summary:

Phase one was to define and ascertain the problem this involved informal



SUSTAINABILITY AT HSU | Home

CAMPUS COMMITTEE ON SUSTAINABILITY
SUBCOMMITTEE ON CAMPUS OUTLAY
LANDSCAPE GROUP
HOME

LAND USE/BUILDINGS

The Future Opportunities of Certified Wood for HSU

Fall 2001

Problem:

The HSU campus' wood is not from sustainable sources, even when such sources exist.

Project Summary:

The goals of this project were to gain a better understanding of how HSU purchases wood and to encourage the Theatre Arts and Industrial Technology Departments to use certified sustainable wood products in their projects.

Outcome/Follow-up:

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WASTE REDUCTION

Food Waste Diversion and Nutrient Recovery
Fall 1999

Problem:
One of the biggest dilemmas humans face today is the mentality that things can be 'thrown away', however there is no such thing as 'away'. Food and plant waste constitutes a large portion of total solid waste generated and reducing or reusing this 'waste' will significantly decrease the total waste generated by HSU.

Project Summary:
Various alternatives were explored and the group decided on in-vessel composting techniques to address the waste problem from the 'J', the 'Donat' and the dorms. Group members will continue the funding portion

COMPOST ON CAMPUS
REDUCING PAPER CONSUMPTION IN COMPUTER LABS
STUDENT PAPER WASTE REDUCTION
SUSTAINABLE BOOKSTORE PROJECT
PURCHASING GROUP RECYCLED PAPER PROJECT
R.O.S.E. PROJECT
SOLID WASTE AUDIT
HSU RESIDENCE HALLS

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- STREAM CROSSING MONITORING
- STUDY OF WATER CONSERVATION AT HSU
- STORM WATER INFILTRATIVE PARKING LOTS
- HOME

WATER CONSERVATION/USE

Campus Storm water Run-off Assessment

Fall 2001

Problem:
 The quality of storm water run-off is an issue on campus because our storm water isn't treated. The water from campus enters Campbell Creek, where it ultimately flows into Humboldt Bay, the largest oyster fishery in California, which is being considered for listing as a threatened body of water. The current digging to replace the piping on campus has contributed higher loads of sediment to the run-off and automobile traffic contributes hydrocarbon pollution to the run-off.

Project Summary:

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SUSTAINABILITY AT HSU

APPROPRIATE
TECHNOLOGY AND
KIDS
CAMPUS
SUSTAINABILITY FUND
HOME

SUSTAINABILITY AND EDUCATION

Public Relations Sub-Committee

Fall 2000

Problem:

There is a lack of organization and availability of information on the past, present, and future efforts toward sustainability occurring within the HSU community. Realizing HSU's obligation to the larger community, we have the responsibility to provide the public a source to gain information on sustainable practices. Our subcommittee has the responsibility of constructing a website on HSU's efforts toward sustainability.

Project Summary:

The group members divided into specific topic areas for research on

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