



## Habitat restoration?

**Habitat** = “1 a: the place or environment where a plant or animal naturally or normally lives and grows b: the typical place of residence of a person or a group”

**Restoration** = “ 1: an act of restoring or the condition of being restored: as a: a bringing back to a former position or condition ... c: a restoring to an unimpaired or improved condition.”

(Merriam-Webster Online Dictionary)

## Center for?

Founded in 1997, the Center for Habitat Restoration (CHR) provides opportunities for students and volunteers to participate in local habitat restoration. Through City College of San Francisco (CCSF) and the Department of Biology, CHR sponsors academic and research internships with several agencies in the San



Photos on this page: P. Sheppy

Francisco Bay Area. Participants extend and supplement their own environmental education while exploring career opportunities in ecological sciences

In the Bay Area, development, growth, and the introduction of non-native species have resulted in the loss of biodiversity, habitat, and recreational opportunities. CHR pairs field researchers with students and volunteers to study and document these impacts.



Students working with CHR benefit from the expertise of CCSF teaching staff and the professional experience of the sponsoring agency. CHR links participating agencies with the extra hands and minds that field research requires. CHR can also loan equipment and supplies

to students to complete research projects. Additionally, some organizations may offer scholarships or stipends to interns (from our website).

## ANNOUNCEMENTS

Support the Native Plant Garden on campus - we need help, the garden needs to be moved from it's current location!

Mondays 2:00 - 5:00

For more information e-mail Kaya MacMillen at [kayanowsc@yahoo.com](mailto:kayanowsc@yahoo.com)

Upcoming Habitat Restoration at GGNRA, weekends from 10:00- 1:00.

April 25 - Oceana Native Plant Nursery, Pacifica

May 2 - Trail Work in the Presidio, San Francisco

May 3 - Mori Point, Pacifica

For more information email Crima at [cpogge@ccsf.edu](mailto:cpogge@ccsf.edu).

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# All Hands on Green



## Conference and Green Jobs Expo

April 28, 2009 - 9:00a.m-8:30p.m.

Southeast Campus/City College of San Francisco

1800 Oakdale Avenue, San Francisco, CA 94124

Website: [www.allhandsongreen.org](http://www.allhandsongreen.org)



Mr. Jerome Ringo  
Keynote Speaker

- President of Apollo Alliance and is affiliated with Van Jones, the new green jobs assistant to President Obama.
- Champion of environmental justice and a vocal advocate for clean energy
- First African American to head a major conservation organization
- Only Black delegate to the 1998 Global Warming negotiation in Kyoto, Japan.

### Workshops:

- What is the “Green Economy,” and how does it apply to me?
- What we have done and what we will do: “Sustainability applied”
- Student activists who have and are making a difference in “green” policy decisions
- Great Green Jobs and Outstanding Green Leaders

### Who should attend?

- Everyone who wants to know about “green” and what CCSF, the City, and other folks are doing about green jobs
- CCSF faculty, staff, students, and administrators are urged to attend and to bring their classes
- The Southeast community

**Food**

**Music**



**Job Fair**

**Freebies**

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Photo: Joe A. See info on page 3.



## Sustainability

defined by some of our community members (from the sustainability website)

“In modern industrial society, the concept of sustainability seems to be more of a goal to be pursued, rather than a solid set of standards or practices. We are living in a world that is characterized by human impacts, much of them negative, such as pollution, loss of biodiversity, over-development and resource scarcity due to overconsumption. There is no easy road to the answers to these problems.”

*Chris Calvi,*  
Urban Sustainability Alliance Club Officer

“One definition of sustainability would be the use of practices that don’t reduce the earth’s capacity to provide resources needed to sustain life, society, and the health of the planet.”

*John Rizzo,*  
City College of San Francisco Board of Trustees Member

“A sustainable society meets the needs of the present without sacrificing the ability of future generations to meet their own needs. Put simply, sustainability requires that we limit our negative impact on the natural, social, and economic environments, while at the same time positively impacting these environments.”

Excerpt from *CCSF Sustainability Prospectus 2007*

## News from the Bikery

By Rich (Gus) Gordon

If you haven't heard of the Green Corps or any of its projects, well now is the time to pay attention. The Green Corps mission is to give CCSF campuses and curriculum a green upgrade through hands-on courses in green technologies. The Bikery repair shop, which greens the campus by offering bicycle repair while teaching students bicycle mechanics, is the Green Corps' first project putting this idea to work. Before the stimulus package and its eighty percent focus on green industries, the Green Corps wasn't taken too seriously by the powers that be. Now one of the Corps' projects is going through its final phases of becoming a class.

The Bikery was established late in the spring semester of 2008 and Green Corps members have been striving to make it an official class ever since. Hurdles included finding the appropriate department to house the course, curricular structure as well as a physical one and funding for learning materials. However, if there isn't a challenge then there won't be learning.

Members of the Bikery and its adjoined class have found creative ways to

deal with the challenges that have risen. For instance, Andrew Chandler, head of the architecture department was sought out in hopes he may offer his 3rd semester architecture students the "real-world" assignment of designing a temporary structure for the Bikery's bike shop, which is currently being held under a canopy in the Ram Plaza. They are now in the final stages of design and looking forward to building the structure themselves with the help of Green Corps members and students from the Bikery this coming summer.



The Bikery is also trying to find a permanent structure. The process is long (the Facilities Review Committee (FRC) meets less than once a month) and has a ways to go but when the college is due to submit a five-year construction plan, at the top of the list was a broad category of proposed environmental updates for campus buildings which

Peter Goldstein (head of the FRC) said would likely include funding for the Bikery's permanent structure. All we have to do now is to figure out where it's going. Thank God for our youth!

As for the class itself, there has been immense progress. They finally have a home in the engineering department. Where better? Head of the engineering department Fabio Saniee was worried about finding students who would be interested. Fear not Mr. Saniee! This will not only create job opportunities but

## Get involved!

### Groups dealing with sustainability issues at CCSF

*Food not garbage* is a project conceived for City College of San Francisco defined as students helping students regain the ancient wisdom of sustaining the body on nothing but whole foods. Food not garbage serves food every Thursday on Rams Plaza. Contact: Joe at [jdbrms@gmail.com](mailto:jdbrms@gmail.com)

*CCSF Green Corps* is dedicated to the implementation for the Sustainability Plan through hands on education courses structured around the fulfillment of the green improvements outlined in the Plan. Students will gain college credit towards transfer or certification in green technologies, while carrying out the practical improvements the Sustainability Plan recommends. To get involved, come to the meetings To get involved with the Green Corps come to the meetings every Thursday at 4:10 in SU 208. Contact: [ccsfgreencorps@gmail.com](mailto:ccsfgreencorps@gmail.com).

*Sustainability Subcommittee* is part of CCSF's Shared Governance. It's composed of students, faculty and staff and is currently working on CCSF's sustainability plan. We meet once a month on Mondays from 3:00-4:30. For more information contact committee chair Dr. Veronica Hunnicott at [vhunnico@ccsf.edu](mailto:vhunnico@ccsf.edu). Website: <http://www.ccsf.edu/Campuses/Southeast/sustainability/>

*Center for Habitat Restoration* (see article on first page) Contact: [cpogge@ccsf.edu](mailto:cpogge@ccsf.edu)

students who would be interested. Fear not Mr. Saniee! This will not only create job opportunities but also educate amateur and experts alike about frame design and fabrication. Let's not forget that San Francisco has one of the biggest biking cultures in the country (to see this first hand, try commuting home from your downtown job the last Friday of any month). This class will also reach out to the ever-growing sustainable community here in San Francisco. On the other hand, the Bikery was worried they may not find a teacher quick enough. Fear not Bikery! Mr. Saniee has found Mike Kimball who is already a faculty member in the engineering department. It appears that the Bikery finally has an exciting class. Details over the format of the class still need to be worked out but Mr. Saniee said it would be hands-on and project oriented.

In sum, the class has the students, a teacher and---most importantly---a home. The

shop has a temporary shop in the design process and plans of production over the summer. It also is on the---sigh---fast track to having a permanent home. Also, without the constant and unwavering support of so much of the faculty (you know who you are) the students wouldn't have been able to accomplish everything they have done. They have been offered a chance for a deeper knowledge of the world and themselves. So on behalf of all the students who are lucky enough to have teachers and faculty that facilitate discovery, thank you very much for everything you put into us.

Come visit us if you have a bike, want to show support, or are just curious about the Bikery and their students, just stop by any Tuesday, Wednesday or Thursday between 11 am and 2 pm in the Ram Plaza. You can also email us at the-bikery@google-groups.com. See ya there!

**Full-term ecology classes offered at CCSF in the Fall**

**Lecture classes**

- Bio 20 - Introduction to Ecology
- Bio 40 - Plants and Animals of California
- Bio 31 - Introduction to Environmental Studies

**Work experience**

- Enroll in Bio 91, 92, or 93 in the Fall and earn 1-3 units of college credit for working with local environmental groups or here on campus! For more information contact Peggy at plopiper@ccsf.edu.



Photo: P. Sheppy

**Weekend courses:**

- Explore the Bay (Bio 25), Point Reyes (Bio 24), Habitat Restoration (Bio 26) and GGNRA (Bio 28) with our fabulous ecology instructors Bibit Traut, Lisa DiGirolamo and Joe Cannon or learn nature illustration with artist Jack Laws (Bio 29).

**Don't forget that CCSF now offers an AA degree in Environmental Studies and Science**

For more information check out the CCSF catalog. Online: click on Degree/Certificate Program description



**Varied Lupine (Lupinus variicolor)**

by Malissa Hicks

Varied lupine is a part of the legume family, which includes soy beans & peas. Legumes are important because they have a symbiotic relationship with a bacteria called rhizobia. Rhizobia establish inside root nodules of legumes & fix nitrogen, which means that they take nitrogen gas (N<sub>2</sub>) & convert it into forms that the plant can use (NO<sub>3</sub><sup>-</sup> & NH<sub>4</sub><sup>+</sup>). Nitrogen is an essential nutrient for plants. Varied lupine & their symbiont rhizobia enrich the soil for all plants because they fix nitrogen & put it into the soil.



Varied lupine is also important because the endangered Mission blue butterfly relies on it, along with silver lupine & summer lupine. Caterpillars (larvae) of the Mission blue only feed on these three lupines. The largest threat to the Mission blue is habitat loss; smaller habitats mean less lupine & less Mission blue butterflies.

Varied lupine is one of the many native plants currently in **CCSF's native plant garden**, which is located behind the "Bufano Statue of the Guns" in front of the science building on Phelan Ave. In spring 2006 Bio 4L students, together with their awesome instructor Crima Pogge, created this native plant garden. The garden is currently being maintained by the Urban Sustainability Alliance (U.S.A.), an officially recognized club of the CCSF Associated Students. **U.S.A. Hosts weekly work days on Mondays from 2-5pm. Come join us in the garden!**