We are pleased to announce the Fall seminar series for the Carnegie Institution of Washington's Department of Global Ecology. This year our seminars will be approximately bi-weekly, on Wednesday afternoons from 4-5 p.m., and refreshments will follow. Please join us for another great year of Global Ecology speakers. Special seminars may be at other times as noted below.

**Nov. 10 - Mark Jacobson**, Dept. of Civil & Environmental Engineering, Stanford University, "The climate and air pollution effects of aerosols"

**Nov. 17 Scott Doney**, Woods Hole Oceanographic Institution, spoke on "Coupled Global Climate-Carbon Cycle Dynamics." His bio may be seen at http://www.whoi.edu/science/MCG/dept/personnel/scientist_doney.html

**Nov. 18, Chris Field** spoke before Stanford's Global Climate & Energy Project on the topic The Role of Terrestrial Ecosystems in the Global Carbon System

**Nov. 30, Ralph Keeling**, Scripps Institution of Oceanography, spoke on Atmospheric Constraints on Land & Ocean Biogeochemistry. Ralph characterized his stimulating talk as a "work in progress" and was open to comments and suggestions. It dealt with changes over time of total carbon as well as carbon isotopes and radioactive carbon in the biosphere.

**Dec. 8 - Rodolfo Dirzo**, Dept. of Biological Sciences, Stanford University, "Defaunation as a global environmental change: ecological consequences in tropical forests"

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**Field Lab. Meetings**

**Nov. 1**, Claire Lunch demonstrated the LI-COR Portable Photosynthesis System. This System is contained in a metal box about a cubic foot in size with attached tubes connected to another small device to hold a leaf sample. With Steve Allison's help, the box was carried outside, and the sample holder clamped onto a green leaf on our lemon tree. With its infrared gas analyser, the System measured both CO2 exchange and water vapor at the surface of the leaf while it was being irradiated with red and blue lights, also built into the sample holder. As Claire explained, the light intensity could be varied from saturating to dim, and the temperature was also controlled and measured. It may be remembered that Olle Bjorkman and other members of the Dept. of Plant Biology's Physiological Ecology Group filled a large RV with most of the same equipment that is now contained in this small box in order to make field measurements! Considering the cost of maintaining the RV itself, this current Portable System is less expensive in both time and money.

**Nov. 8 & 15** Meetings were devoted to using fluorescence techniques, theory and practice. Here the experience of Joe Berry was a fine resource.

**Nov. 22, Nona Chiariello** demonstrated a Remote Sensing Spectrometer that can be used in the field to measure many parameters from soil condition and litter to the state and type of living plants. The instrument records transmission and reflectance spectra through the visible, near and mid-infrared wavelengths.

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**Personal Landmarks**

**Nov. 16, Steve Allison** successfully defended his thesis titled Microbial allocation to soil enzyme production: a mechanism for carbon and nutrient cycling. Congratulations also for your recent marriage.

**Nov. 19**, A farewell party was held for Hugh Henry who has been a post doc here for a couple of years. He returns to Canada next week to start a position as an assistant professor in the Department of Biology at the University of Western Ontario, located in London, Ontario. A special parting gift for Hugh was a 2005 Calendar created by the Jasper Ridge Crew. Each month's picture will remind him of something different at JR.

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**Landscaping**

**Nov. 20**, Because last spring was the wrong season, the planted bulbs didn't do very well. To correct that, Chris launched a spectacularly successful campaign to get 1300 calochortus and triteleia bulbs in and the weeds out of the DGE landscaping. The area looks great. This winter should be the time that the natives take over and the weeds go into permanent decline. Thanks to everyone who helped.
Nov. 29, Jason Funk described his PhD thesis project proposal and asked for constructive comments. The subject will be *Modeling Land Use Changes in New Zealand*. Jason outlined a complex network of interactions he hopes to investigate with the native peoples (Maori), in particular, to assess how they will react to suggested changes in land use related to carbon emissions.