Lecture 07, 12 Sept 2006 Ch4

Conservation Biology ECOL 406R/506R University of Arizona Fall 2006

> Kevin Bonine Kathy Gerst



Biodiversity

No Lab this Friday (15 Sept 2006), meet S side BSE 1230 on 22 Sept, return 24 Sept. (see website for lab readings)

CFI Community of Southern Arizona Public Forum

Beyond the Headlines: Prospects for Humanity as Earth Heats Up
There remains virtually no doubt: Earth is warming, and humans are partly to blame. What are the causes and consequences of global warming? Can we employ technology and modify behavior to stop the warming, or have we entered an arena of positive feedbacks so

strong that humanity itself is threatened? World-class Earth-system scientists from the U of A will address these questions in a comprehensive series of presentations and interactive discussion with the audience. A must program for all of us, the stewards of Planet Earth.

Dr. Guy McPherson, Moderator, conducts research in conservation biology and sustainability of the human endeavor.

Dr. Roger Angel, Astronomer and one of the world's foremost minds in modern optics is Director of world renowned Steward Observatory Mirror Laboratory at U of A. Recently he has applied his knowledge of optics and space in an exciting proposal for reducing the impact of Global Warming.

Dr. Travis Huxman, Plant Physiological Ecologist interested in plant evolution and global change. He is trying to understand how

climate change may affect population, community and ecosystem processes. Recent research focuses on how ecosystem carbon balance is

influenced by climate.

Dr. Melanie Lenart, Research Associate for the Institute for the Study of Planet Earth (ISPE), focuses on identifying and evaluating climate impacts on humans and natural systems in the

Dr. Thomas Swetnam. Dendrochronologist whose research reconstructs the histories of fire, insect outbreaks, human land uses and climate. He is presently studying disturbances and climate histories in the Southwestern U.S., as well as in many other selected

Date: Sunday, September 17, 2006

Time: 1:30 5:00 pm Location: The InnSuites 475 N. Granada

Students & CFI Friends FREE

For additional information, please contact Paul Taylor at pmtaylors@cox.net, 648-7231, or Jerry Karches at JKarches@swnaz.com, 297-9919.

School of Natural Resources Fall 2006 Seminar Series 12:00 1:00 pm Wednesday, September 13, 2006 Biosciences East, Room 225

George Zaimes Assistant Professor/Extension Specialist, School of Natural Resources.

Educational approaches to better understand Arizona's Riparian Areas.

Riparian areas occupy less than 2% of the arid Western United States. Their importance is disproportionate to the small area they occupy because of their multiple use applications. Riparian areas provide recreational amenities, habitat and travel corridors for wildlife, livestock grazing areas and influence water quality and quantity. In Arizona, as in many other states, there is a need to provide science-based educational workshops, publications and web-based information to help the public improve their knowledge of the importance, function and management of riparian areas.

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Housekeeping, 12 September 2006 Papers to return, Please vote today

Upcoming Readings

today: Text Ch.4

Thurs 14 Sept: Text Ch. 2; ESA, NEPA on website

Tues 19 Sept: Text Ch. 2, SDCP on website

Short oral presentations

12 Sept Gabe Wigtil and Kim Baker

14 Sept Susie Qashu

19 Sept Tara Luckau and Allison Buchanan

21 Sept Grant Rogers and Jeremy Daniel

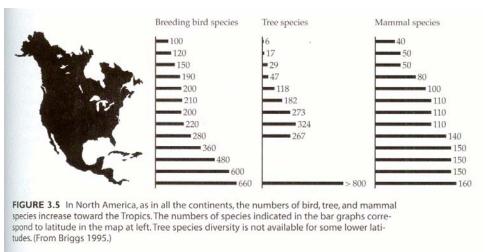
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Biodiversity (Biological Diversity)

"structural and functional variety of life forms at genetic, population, community, and ecosystem levels"

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Species Richness and Latitude



Altitude?

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