

INVITATION TO WORKSHOP LECTURES

BIODIVERSITY THEORY TO INFORM GLOBAL CHANGE BIOLOGY STRATEGIES

MONDAY DECEMBER 6, 2010 - CLARK KERR CONFERENCE CENTER

AIM: To identify the aspects of biodiversity theory that will be of maximum use in helping to guide biological research and societal decisions given the dramatic global changes anticipated in the coming decades, e.g. climate change, growing human populations, habitat fragmentation, invasive species, and extinctions.

Six areas of Theory will each be covered by 3 invited speakers listed below:

1. <i>Food webs</i>	Prof Jordi Bascompte, Prof Eric Berlow, Dr Peter Roopnarine
2. <i>Macroecology (incl metabolic theory)</i>	Prof James Brown, Prof Pablo Marquet, Prof John Harte
3. <i>Paleobiology</i>	Prof Jeremy Jackson, Prof Jack Williams, Prof Tony Barnosky
4. <i>Population ecology</i>	Prof Eloy Revilla, Prof Alan Hastings, Prof Wayne Getz
5. <i>Microevolution</i>	Prof Arne Mooers, Prof Liz Hadly, Prof Rasmus Nielsen
6. <i>Macroevolution</i>	Prof Geerat Vermeij, Prof Mikael Fortelius, Prof Charles Marshall
<i>Integrating historical data to assess biodiversity response</i>	Prof Rob Guralnick

Each presentation will be 20 min and will cover the following questions:

1. What is the evidence that available theory adequately predicts major patterns in ecosystems, across multiple spatial and temporal scales?
2. What does theory suggest are the dominant processes governing biodiversity?
3. What does theory suggest are the likely dominant patterns of responses of ecosystems and biodiversity to global changes?
4. To the extent available theory is not adequate to answer #3, what are the major directions in which theory must advance so that it becomes so.

Space is limited. Please RSVP by 11/29 to:
vernabowie@berkeley.edu

For more on the BiGCB: <http://ib.berkeley.edu/labs/globalchange/>

