

**Sommersemester 2009**Gebäude GEO I  
Hörsaal H6

# BayCEER Kolloquium

**Vortragsreihe Ökologie und Umweltforschung****Donnerstag 18.06.2009, 16:15 Uhr, H6****Anschließend Postkolloquium mit Bier und Brezeln im Foyer H6**

**Prof. Dr. John Tenhunen**  
**Prof. Dr. Müller-Mahn**

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## Transdisciplinarity in Environmental and Social Sciences

A transition in the design and goals of natural resource management requires new competence in those acting as practitioners in agencies with missions in resource planning. Thus, we find a new paradigm in ecosystem management developing internationally that strives to put Man along with his complex behavior back into the ecological system, e.g., developing a transdisciplinary component in environmental science.

The recent funding of the International Research Training Group “Complex Terrain and Ecological Heterogeneity (TERRECO): Evaluating ecosystem services in production versus water yield and water quality in mountainous landscapes” provides us at the University of Bayreuth with a unique opportunity and initial core support:

to develop a competitive transdisciplinary ecosystem research program focused on water management, clearly a theme that will increase in importance in the next decades; and to work toward establishing a transdisciplinary component in future environmental studies curricula, oriented to problem solving in the context of global change.

The TERRECO effort will develop capacity to evaluate multiple dimensions of ecosystem performance via simulation modelling, e.g., with respect to water yield, water quality, erosion, agricultural and forest production, carbon balances, trace gas emissions, etc., both for current situations and under future climate conditions. But TERRECO goes beyond this in planned scenario evaluations to consider influences of the economic framework, the regulatory regime, and the attitudes and perceptions of nature on decision-making which determines future land use.

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