

CRITICAL ZONE SCIENCE, SUSTAINABILITY AND SERVICES IN A CHANGING WORLD

ORGANIC MATTER FLUX AND STABILIZATION IN THE CRITICAL ZONE

5th Annual US-China Joint Symposium of the US-China EcoPartnership for Environmental Sustainability (USCEES) and the China-US Joint Research Center for Ecosystem and Environmental Change (JRCEEC)

Wed.-Sat., Oct. 21-24, 2015
Beck Agricultural Center, Purdue University, West Lafayette, Indiana

Hosted by the US-China EcoPartnership for Environmental Sustainability at Discovery Park's Global Sustainability Institute, Purdue University

OVERVIEW

Rapid growth in human population, changing consumption patterns, and climate change are intensifying pressures on the Earth's "Critical Zone" (CZ), the thin surface layer from the top of vegetation to the bottom of aquifers, especially in emerging economies such as China.

The 2015 Joint Annual Symposium of the US-China EcoPartnership for Environmental Sustainability (USCEES) and the China-US Joint Research Center for Ecosystem and Environmental Change (JRCEEC) will bring together and leverage the bi-national research communities and strengths of these two organizations, as well as members of the US Critical Zone Observatories (US-CZO) network, to address key aspects of CZ function and the threats to its sustainable use brought on by changing climate, increases in urbanization and population, and increased pressures for resource extraction.

This conference represents an ideal opportunity to address global challenges to critical zone function, and to identify and discuss common questions and supporting measures to facilitate networked critical zone research with specific focus on systems in the US and China. The past four annual conferences and workshops have engaged more than 2,000 students and scientists annually with nearly 300 technical presentations.

SHORT COURSE AND WORKING GROUPS

In conjunction with this conference, the Cross-CZO Working Group on Organic Matter of the US Critical Zone Observatories network will run their 2015 workshop on "Flux, Stabilization and Reactivity of Organic Matter in the Critical Zone" with the goal of discussing scientific findings and making recommendations for common measurements, common methods, common laboratories, common experiments and common questions to support cross US-CZO and international CZ science. Additionally, we will host an instrument training short course sponsored by the Consortium for the Advancement of Hydrologic Science Inc. (CUAHSI) on "The Role of Runoff and Erosion on Soil Carbon Stocks: From Soils to Landscapes" for graduate students and post-doctoral researchers.

FOR MORE INFORMATION

US-China EcoPartnership for Environmental Sustainability at Discovery Park's Global Sustainability Institute
English Language - www.purdue.edu/discoverypark/ecopartnership/
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