

DEPARTMENT OF **CHEMICAL & ENVIRONMENTAL ENGINEERING**

2011 - 2012 **SEMINAR SERIES**



ELLIOTT CAMPBELL

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SCHOOL OF ENGINEERING
UC MERCED**

**FRIDAY JAN 20, 2012
9:30 - 10:30 AM
WCH 205/206**

BIOENERGY SUSTAINABILITY: WANT TO GET INVOLVED?

Rapid growth in funding for bioenergy research promises to uncover a sustainable pathway for clean energy development. This challenge is daunting given the far reaching consequences of bioenergy that stretch from climate change and water quality to food security and rural poverty. The success of these rapidly growing research efforts will be based on the extent to which scientists from unique disciplines can engage in biofuels research at a fundamental level. In this seminar, I will describe recent advances in our understanding of bioenergy based on inter-disciplinary work in atmospheric sciences and a range of other disciplines, as well as emerging issues in bioenergy sustainability that remain to be addressed.

Elliott Campbell's research interest are focused on life-cycle assessment, terrestrial biosphere, and atmospheric chemistry modeling with applications to biofuels sustainability and carbon sequestration. Campbell received the NSF/CAREER award from the CBET/Environmental Sustainability program. He has provided scientific consultations on state, federal, and international policy and has appeared in media widely ranging from NPR's "Morning Edition" to The Economist. He received his BS and MS from Stanford, PhD from the University of Iowa, and completed a postdoc at the Carnegie Institution for Science. He is currently an assistant professor in the School of Engineering at the University of California, Merced with appointments in the UCM Energy Research Institute and the Sierra Nevada Research Institute.