

GEOBULLETIN

SEP 11TH, 2009

Geobulletin is distributed weekly, by E-mail. Contributions are requested! Anything and everything (well almost) that you want to see in print. If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu. or leave it at the reception desk, Room 236 by noon on Mondays.

WEEKS LECTURE SCHEDULE DATES

Fall 2009

Sept. 11 (F) - Ed Brook

(SPONSOR: Anders)

PROF. ED BROOK

DEPT. OF GEOSCIENCES

OREGON STATE UNIVERSITY

Friday, Sep 11th, 3:30 PM, Room 140, Weeks Hall

Past Gas: The ice core record of atmospheric methane and climate

Methane is a powerful greenhouse gas, and methane levels in the atmosphere have increased dramatically since the industrial revolution. Direct measurements of atmospheric methane extend back to the 1950's at best, so we rely on the ice core record for a longer view. That longer view reveals surprising variability on a variety of time scales. Abrupt variations in methane during ice ages have provoked argument about, and investigation of, the role of methane hydrates in abrupt climate change, and concern about stability of the hydrate reservoir. They have also stimulated thinking about abrupt changes in the global hydrological cycle. Methane variations during interglacial periods are equally interesting, and the subject of recent debates about the role of early humans in altering the atmospheric composition and climate. This presentation will review the current state of knowledge about these issues from the ice core perspective and discuss ongoing and future work.

Sept. 14 (M) - Ed Medley

(SPONSOR: Herb)

DR. ED MEDLEY

2009 Richard H. Jahns Distinguished Lecturer in Engineering Geology

SPECIAL LECTURE

Monday, Sep 14th, Noon, Location (2305 Engineering hall)

The Least You Should Know About Characterizing Geological Chaos

Bimrocks (block-in-matrix rocks) are geologically complex mixtures of rocks and soils, such as melanges, fault rocks, and weathered rocks. Bimrocks present major challenges to geopractitioners because successful and economical characterizations of rock/soil mixtures are frustrated by their geological, spatial and mechanical variability. This Lecture presents broad concepts on characterization, design and construction in bimrocks that have been provocative, yet useful, to geopractitioners around the world.

Sept. 14, Monday, 3:30 p.m., AB20 Weeks Hall

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The Comforts of Ignorance and the Benefits of Arrogance - Lessons of the Failure Kind for the Geopractitioner

Ignorance and arrogance are all too common in the design professions. It is comforting to not know what one does not know.

And, there are benefits to being arrogant: why waste time on having a colleague check your work if you know what you are doing? Why go through the pain of further education or professional development?

Why should engineering geologists talk to geotechnical engineers (and vice versa)? After all: "I know enough geowhatever to get by." But ignorance leads to blissful mistakes and arrogance results in occasional spectacular, famous and expensive failures. In this lecture a few lessons are offered, particularly to the engineering geologist/geotechnical engineer/environmental scientist who thinks he/she knows it all.

Sept. 18 (F) - Mark Zoback (SPONSOR: Chuck)

Sept. 25 (NOON F) Ian Dalziel (SPONSOR: Basil)

Sept. 25 (3:30 F) - Stephanie Prejean (SPONSOR : Cliff)

Oct. 2 (F) - Charlie Bacon (SPONSOR: Clark)

Oct. 9 (F) - Russ Vreeland (SPONSOR: Eric)

Oct. 16 (F) - OPEN

Oct. 23 (F) - Chris Marone (SPONSOR: Harold)

Oct. 30 (F) - Lorraine Lisiecki (SPONSOR: Anders)

Nov. 6 (F) - Scott Tyler (SPONSOR: Herb)

Nov. 13 (F) - Rob DeConto (SPONSOR: Anders)

Nov. 20 (F) - OPEN

Nov. 27 (F) - THANKSGIVING

Dec. 4 (F) - OPEN

Dec. 11 - Prof. Charles Geiger of Kiel University

JOB OPENINGS

- **Part-time Undergraduate Research Assistant** - Planetary Science Institute and University of Wisconsin
- **Tenure-Track Assistant Professor - Sedimentary Geology- Illinois State University**

JOB OPENINGS

Part-time Undergraduate Research Assistant

Dr. Kimberly Kuhlman and Prof. Alan Carroll

Planetary Science Institute and University of Wisconsin

kim@psi.edu or carroll@geology.wisc.edu

We are looking for a student to assist with the characterization of particle size, shape and surface textures of terrestrial analog sediments using optical microscopy in preparation for the analysis of images returned from the Mars HandLens Imager (MAHLI) on the Mars Science Laboratory (MSL). The size and shape distributions of regolith particles contain a wealth of information concerning the history of geological processes and climate of Mars, such as wind and water activity that is expressed in sediment

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