

**Workshop Program**  
**The Lecture Hall Room 1866**  
**Building 25 Denver Federal Center**

Wednesday May 31, 2006

**08:45-09:00am** Welcome, logistical and orientation remarks – Shannon Mahan

**Session 1: Methodological Aspects and Dose Distribution.**

**Session Chair: Steve Forman**

09:00-09:50am Ashok Singhvi (Keynote Speaker) **Some unexplored methodological aspects and some new applications of luminescence dating**

09:55-10:15am Vasilis Pagonis **A theoretical model for a new dating protocol for quartz based on thermally transferred OSL (TT-OSL)**

10:20-10:35am BREAK

10:40-11:00am Ken Lepper **Equivalent Dose Distributions from MAAD data sets**

11:05-11:25am Michel LaMothe **Reduction of uncertainties in the measurement of equivalent doses and anomalous fading rates in IRSL dating of feldspar**

11:30-11:50am Regina Kalchgruber **The Luminescence efficiency of cosmic radiation at the surface of Mars and in the Martian regolith – a study with quartz and feldspar**

11:55-12:55pm LUNCH (Provided and consumed in-house).

**Session 1: Methodological Aspects and Dose Distribution (con).**

**Session Chair: Paul Hanson**

1:00-1:20pm Micharl. Blair **Low temperature effects on the OSL process of Martian simulates**

1:25-1:45pm Jim Pierson **Using low intensity blue light to stimulate high and mid-latitude waterlain sediments**

1:55-2:15pm Sebastien Huot **Measuring feldspars OSL in a Helium atmosphere: potential for improved reproducibility**

**Session 2: Applications to Dating Sediments (Eastern US & Mid-West US).**

2:20-2:40pm Kevin Burdette **The sand ridges of Currituck, Northeastern North Carolina**

2:45-3:00pm BREAK

3:05-3:25pm Dave Mallinson **Optically Stimulated Luminescence ages of marine isotope stage 5, 3 and 1 coastal lithosomes: North Carolina, USA**

3:30-3:50pm Shannon Mahan **Luminescence dating of paleoliquifaction features in the Wabash River Valley area of Indiana**

3:55-4:15pm Kathleen Nicoll **OSL chronologies for Eolian activity in the context of lake-level fluctuations, drainage reorganization and glacial retreat, north-central Minnesota**

4:20-4:40pm Paul Hanson **Dating ephemeral stream and alluvial fan deposits on the central Great Plains: Comparing multiple-grain OSL, single-grain OSL, and radiocarbon ages**

Thursday June 1, 2006

**08:45-09:00am** Next meeting announcement, general and tour remarks – Shannon Mahan

**Session 3: Archeological Applications.**

**Session Chair: Tammy Rittenour**

09:00-09:40am Jim Feathers (Keynote Speaker) **OSL dating of sediments of Paleoindian sites in Brazil**

09:45-10:05am M. Aksel Casson **Using OSL to date fine-grained ceramics**

10:10-10:30am Jack. Johnson **Luminescence dating of ancient monumental architecture at Chavin De Huanter, Peru**

10:35-10:50 BREAK

**Session 4: Applications to Dating Sediments (Mid-west U.S. to Colorado)**

10:55-11:15am Steve Forman **Eolian sand depositional records from western Kansas and Nebraska, and eastern Colorado: A potential landscape response to droughts in the past 10,000 years**

11:20-11:40am Jeaneth Gomez **Luminescence chronology for Late Quaternary and Holocene records of eolian deposition from a “mega-trench” across the Anton Scarp, eastern Colorado, USA**

11:45-12:55pm LUNCH (Provided and consumed in-house).

**Session 5: Applications to Fluvial Sediments (Grand Wash/Grand Canyon).**

**Session Chair: Ken Lepper**

1:00-1:20pm Ben DeJong **Using OSL geochronology to correlate stream and hillslope deposits to climate change in eastern Grand Canyon tributaries**

1:25-1:45pm Joel Pederson **Using OSL to solve the riddle of variable incision rates across the Colorado Plateau**

1:50-2:10pm Tammy Rittenour **OSL chronology from Colorado River tributaries in the western Grand Canyon and Grand Wash Trough: Comparisons to U-series ages and application to fluvial deposits:  $\geq 300$  ka**

2:20-2:45pm BREAK/Group tour assignments

3:00-4:00pm Ice Cour lab tour

4:00-5:00pm TRIGA Reactor tour