2014 Conference on Archaeoastronomy in the American Southwest
Arizona State University – Tempe, AZ
School of Earth and Space Exploration
Marston Exploration Theater

Charting a Formal Methodology for Cultural Astronomy Research

Workshop Program Schedule
Friday June 6th, 2014
8:30 – 4:45

Astrometry as Applied to Archaeoastronomy Research
Ric Alling, School of Earth and Space Exploration
University of Arizona, Tempe

8:30 – 12:15
Part 1  Introductions
Archaeoastronomy on a disciplinary tree
Types phenomena classified
Coordinate systems and orbital elements reviewed

Part 2  Direct Sight Systems
Horizon events, Sun, Moon, Stars, Planets
Helicatal rise
Effects of precession and other long period change factors

Part 3  Sun Shadow Systems
Panel Systems
Gnomon Systems
Oculus Systems

12:15 – 1:30  Lunch

1:30 – 4:45
Part 4  Representational Celestial “Scenes” and “Figures”
Cardinal Directions and Town Plan Layouts
Nested Long Term Cycles

Part 5  Hands on review of Planetarium Programs for Computers

Part 6  Documentation and Methodology
Conference Program Schedule
Saturday June 7, 2014
9:00 – 5:00

9:00 – 9:15  Conference Opening Remarks

Meteorites & Eclipses
9:35 – 9:55  Weisman and Masse - Solar Eclipses in the Late Prehistoric Southwestern Landscape
9:55 – 10:15  Dragon - The Spiral at Three Rivers and Some Implications for Southwest Archaeology
10:15 – 10:35  Owen - Time Reckoning Among the Mogollon
10:35 – 10:55  Break

Starlore & Field Reports
10:55 – 11:15  Raney - Stars and Ceremonial Timing in the American Southwest
11:15 – 11:30  Wolf and Wheeler - Butterfly: A Mancos Canyon Winter Solstice Site with Interpretations Based on Hopi Cosmology
11:30 – 11:45  Houston and Simonia– Identifying the Solar Observing Position at the Solar Marker Pictograph Site, Paint Rock, Texas
11:45 – 12:00  Munson and Wolf – Masters of Light and Shadow: Petroglyphs and Pilgrimage in Southeast Utah
12:00 – 1:00  Lunch

Equinoxes and Solstices: Their Determination and Meaning
1:00 – 1:20  Barber - The Enigma of Potential Equinox Glyphs
1:20 – 1:40  Hull, Jewell, and Ambruster – The Equinox Date and True East-West Direction could have been Determined Easily by Early Skywatchers
1:40 – 2:00  Price - Choreographies of Light and Dark: An Investigation of Archaeoastronomical Time Keeping at Three Rivers Petroglyph Park, New Mexico, with Native American Interpretations
2:00 – 2:20  Munson and Ortman - Symbolism of D-shaped Architecture of the Central Mesa Verde Region
2:20 – 2:40  Discussion
2:40 – 3:00     Break

**Research Design and Methodologies**

3:00 – 3:20     Munro and Malville - Interpretive and Descriptive Methods in Southwestern Archaeoastronomy

3:20 – 3:40     Hull, Bostwick, and Jewell – Developing a Research Design for Archaeoastronomy Field Studies in the American Southwest

3:40 – 4:00     Richman and Chamberlain - Sun Marker: A Laboratory for Experiential Cultural Astronomy

4:00 – 4:20     Wakeland - Geo-political Landscapes among Early 20th Century Tewa Ethnographies

4:20 – 4:30     Alling - Horizon Image Capture and the Planetarium as a Visualization Lab

4:30 – 5:00     **SCAAS Business Meeting**
                  Introduction to SCAAS
                  Carol Ambruster Memorial Fund
                  Board of Directors election

5:30 – 6:00     **SCAAS Members-only Reception** – Four Points Sheraton

6:00 – 9:00     **CAASW 2014 Awards Banquet** – Four Points Sheraton

Interpreting the Nazca Lines: Enigmatic Images of the Peruvian Desert
Todd W. Bostwick, Ph.D.
PaleoWest Archaeology
Verde Valley Archaeology Center

The Carol W. Ambruster Award and Distinguished Service Award
GB Cornucopia
Park Ranger, Chaco Culture National Historical Park

Presentation - *The Koan of Rock Art*

**CAASW 2014 Poster Session**

Zoll - Sinagua Meteorites and Meteowrongs

Dombrowski – A Simple Method for Creating 3D Computer Models of Archeological Sites

Rodriguez – Using Computer Simulations to Study Archaeoastronomical Horizon Markers