



SOCIETY FOR CULTURAL ASTRONOMY
IN THE AMERICAN SOUTHWEST, INC.



PO BOX 2313
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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

Heliacal 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

9:15 – 9:35 Blakeslee - What the Pawnee Knew: a Continent-wide Perspective on Meteorite Shrines

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