

SCAAS
Spatial Modeling Technology for Cultural Astronomy Workshop

Tentative Schedule

Nov. 10th thru Nov. 12th 2017 Arizona State University

Friday 10th. Photogrammetry Day

Fieldwork and Imaging Session.

We are planning a field trip to a petroglyph site in the South Mountains where we will learn practical imaging and fieldwork techniques. We collect images and data that will be used throughout the workshop. Our goal is to make this a practical, real world exercise to give you the tools to do this work on your own.

Note: This section optional for early arriving registrants. Data will be provided to participants who do not wish to attend the field trip.

8:30 Meet at ASU ISTB4

Check in

Coffee and snacks

Lock up gear

9:30 Leave for field site

Note: Transportation will be organized to share personal vehicles

12:00 noon return

Lunch on your own

Workshop session Photogrammetry.

1:00 Introductions

Goals of the workshop.

1:20 Working session ISTB4

3D model building from morning session images: Practical techniques in photogrammetry. Introduction to photogrammetry and initial model building.

2:30 Guest speaker TBD

3:20 short break

3:40 More photogrammetry

Refining 3D models, exporting, and trouble shooting.

4:45 Day end closing remarks

5:00 Tech. support available for ~1hour
- load and debug QGIS to tomorrow sessions
- continue working with 3D models

6:00 Social time at Mill Ave bar/restaurant

Saturday 11th GIS Day

8:45 Meeting at ISTB4 Rm. 296

9:00 Day Opening Remarks

9:15 GIS Basics and QGIS platform
Work through several tutorials.

10:20 Guest Speaker TBD
Available data resources Satellite, Lidar, Aerial Photography.

11:10 Self exploration of using resource.

12:00 Box Lunch

1:00 GIS continues
Create DEM from yesterdays field exploration site

2:00 Guest speaker TBD
Current use of GIS in Archeology

2:50 Break

3:15 Placing 3D models in landscapes

4:45 Wrap the day

5:00 Tech. support available for ~1hour

6:30 Organized dinner TBD

Sunday 12th Astronomical Modeling

8:45 Meeting at ISTB4 Rm. 296

9:00 Day Opening Remarks

9:15 Computer tools available for Astronomy

10:20 Guest Speaker TBD

11:10 Self exploration
GIS modeling in an astronomical context.

12:00 Box Lunch

1:00 Finishing up and discussion
Finish pre-lunch activity
Completion of main goals
How accurate are the results?
What is the potential for these technologies?
How can this be documented and standardized?

2:45 Workshop Closing Remarks