



announcements 4/29/08

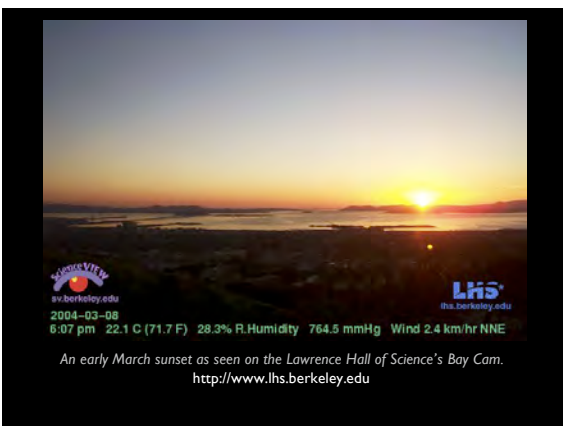
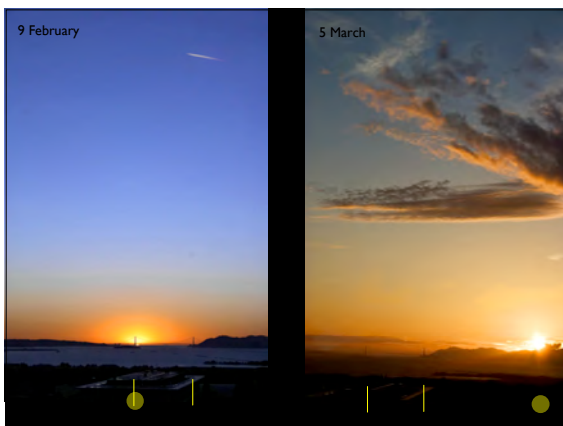
Firm of the Month Presentation:
SRG Architects
Wednesday May 30, 12:30, ARCH 042

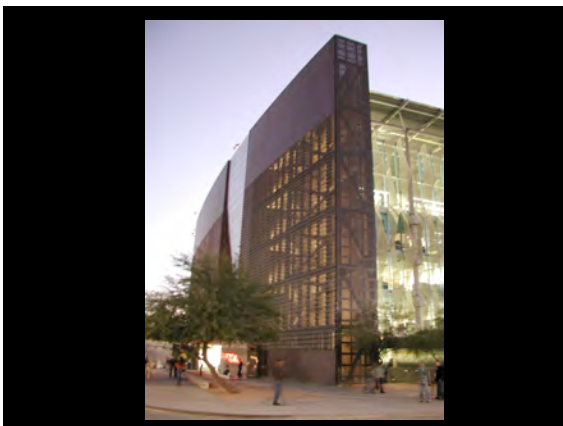
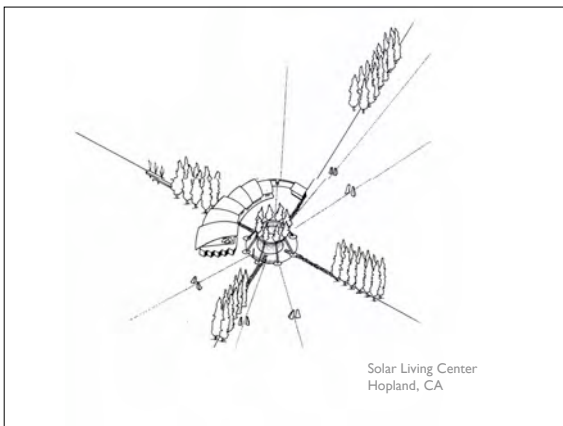
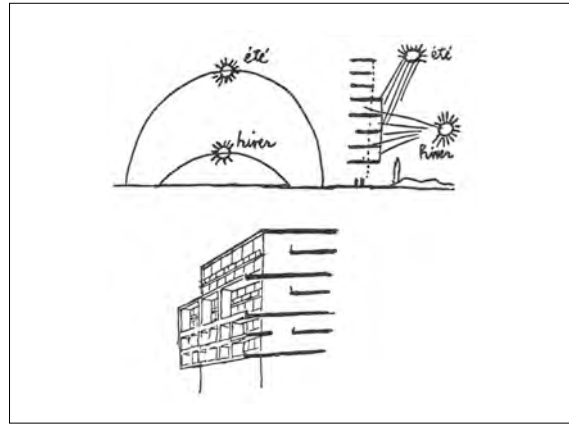
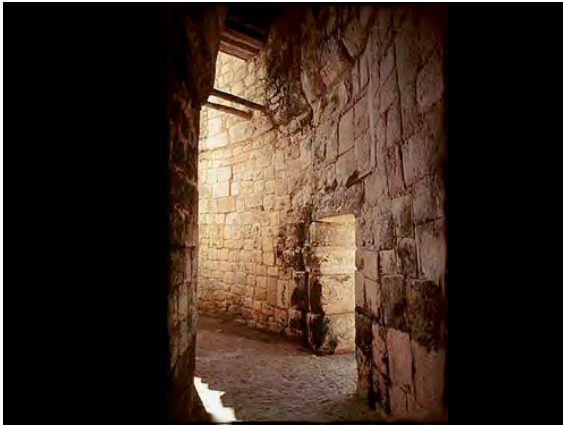
Assignment 4:
Shading Model Studies
Available Thursday; due in 2 weeks (week 7)

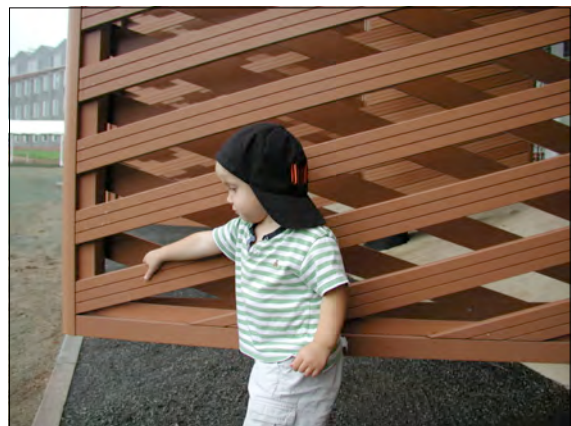
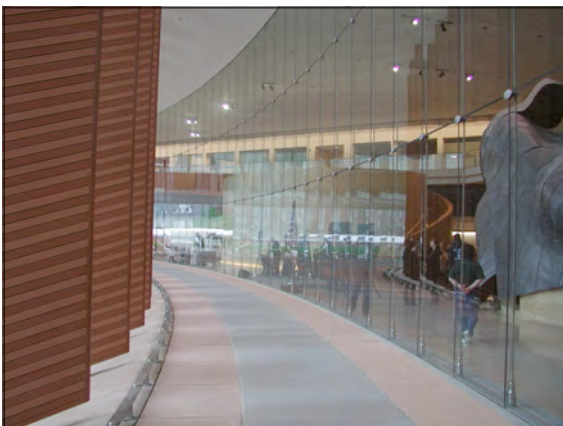
QUIZ 3:
Thursday, 5/1

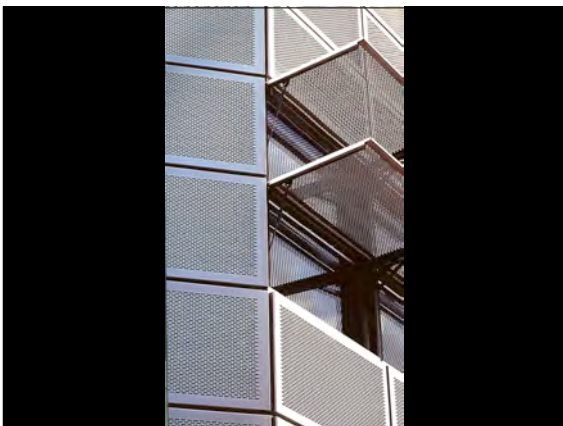


1. Today in Seattle, April 29, one month after the Spring Equinox, the sun rose
A. North of East
B. Due East
C. South of East
2. Today in Seattle the sun will set:
A. North of West
B. Due West
C. South of West
3. TRUE or FALSE:
In Seattle (Latitude = 48°), on June 21st, an un-shaded north-facing window receives nearly same amount of direct sunlight as a south-facing un-shaded window.
4. TRUE or FALSE:
The sun passes directly overhead (through the zenith) in Seattle at noon on June 21, the summer solstice.



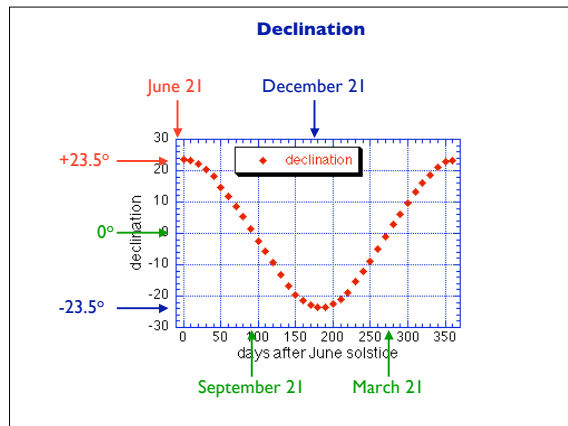
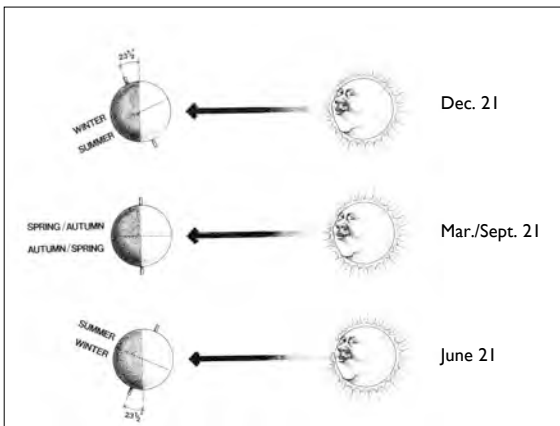
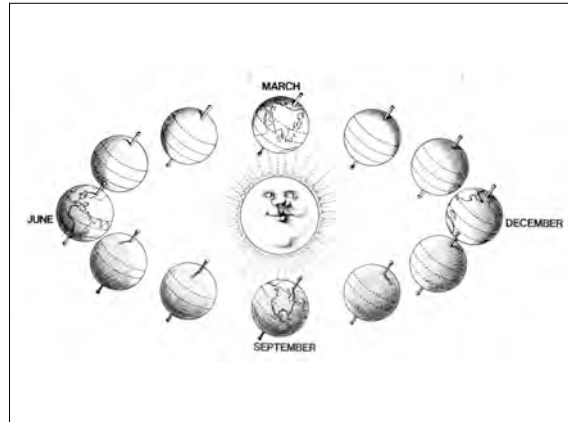
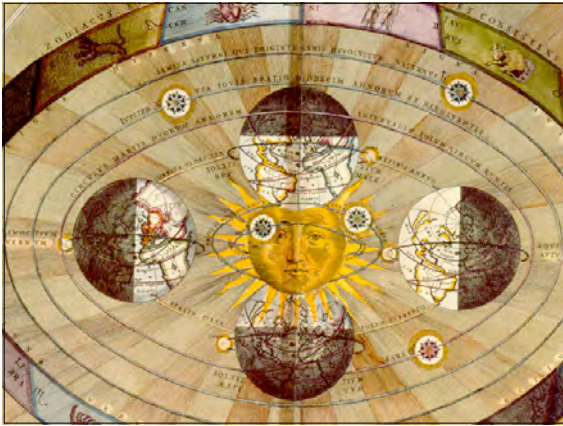






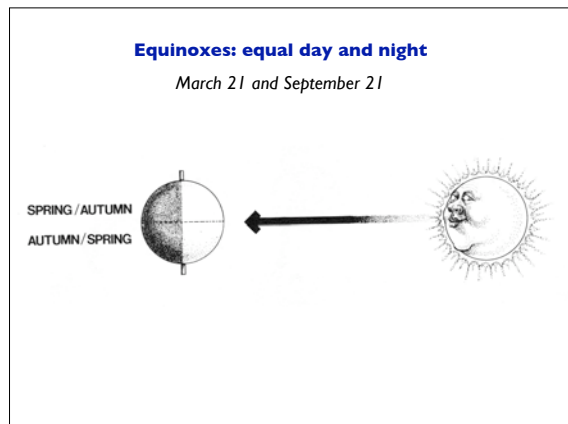
Objectives of our study of Sun and Architecture:

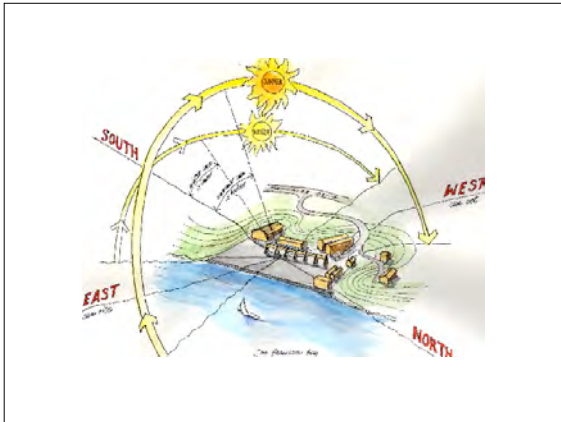
- Where is the sun located at any time of the day and year?
- How much sun is entering my building at any time of day and year?
- How much sun or shade does my building *need* at any time of day and year?
- How do I match my building's need for sun with how much sun is available at any time of day or year?



Terminology for locating the sun

Seattle: 47° 37' N 122° 20' W
 or 47.62° N or 122.33° W






Keeping Time:

Sun Dials and Sun Markers



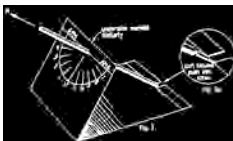


Equatorial Sundial

- Simple: easy to construct
- Easy to adjust for latitude
- Gnomon is parallel with the equator
- Can tell both time of day and time of year

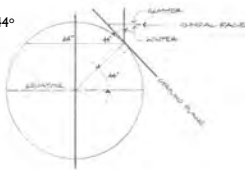




Equatorial Sundial



The equatorial or universal sundial is the easiest dial to make. The gnomon is parallel to the earth's axis and the dial plate lies in the plane of the equator. The hour lines are spaced at 15°, so that the face looks very much like that of a traditional clock except

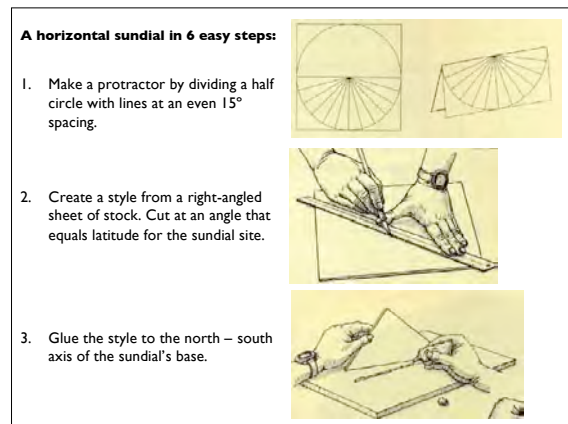
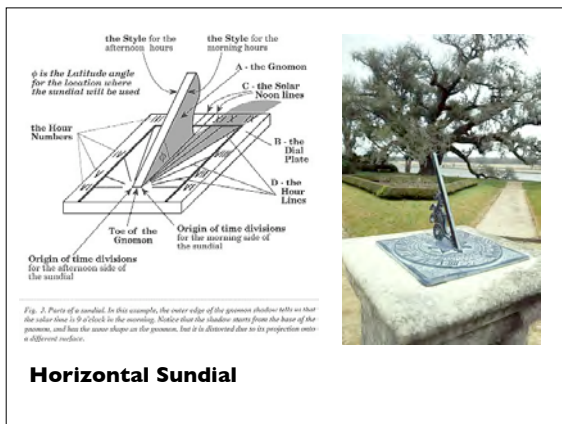
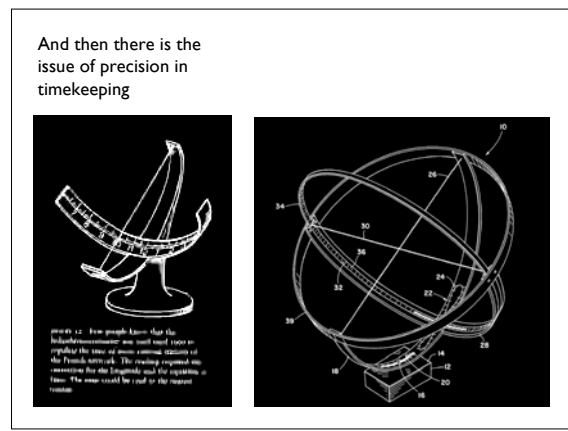
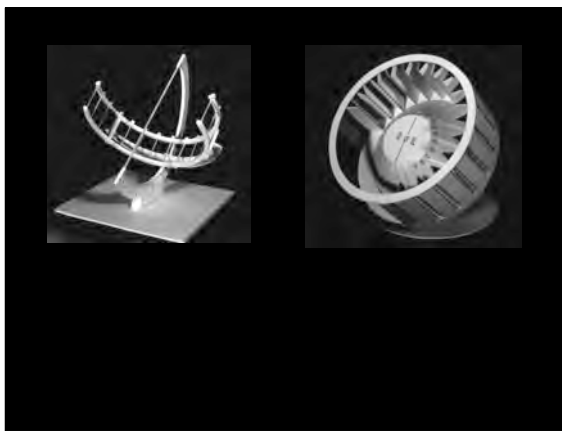
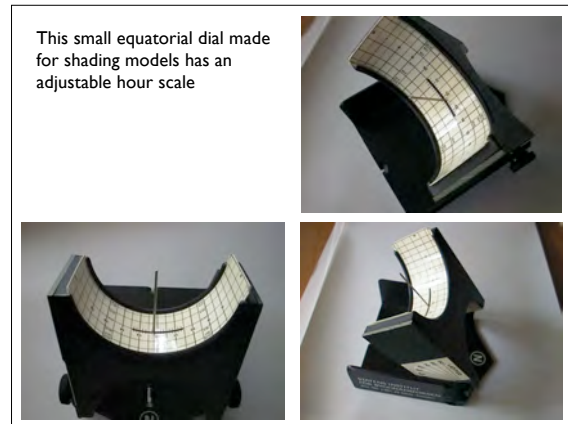




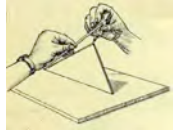

Equatorial Sundial for 44° N. Lat.

The style in an equatorial sundial is tilted at an angle equal to the latitude, the high end of the style points north, and the disc is parallel to the earth's equatorial plane.



4. Slice a tube on its long axis and affix to the top of your style. 
5. Lean your protractor against the north slope of your style and project the angles to the sundial baseplane using a string. 
6. Connect the south base of the style to your projected points with straight lines. 