(2/3/06

Lecture No.3: TECTONICS

Fri. Feb. 3, 2006

Semper, Gottfried. The Four Elements of Architecture (1851, 1989) read pp.102-104, 126-128, 254-255.

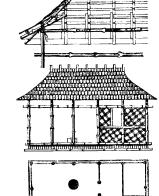
Questions to think about: What are the four elements of architecture as described by Semper? What are the four technical skills associated with the elements? What is the relationship of weaving, textiles and carpets to architecture? What is the relationship of "dressing" (or masking) and "structural form" in Greek architecture? What practical applications does Semper dictate for current (1851) architecture?

Semper's Carribean Hut:

4 Elements:	Hearth	Mound	Frame	Enclosure
4 Materials:	Tile, Iron	Masonry	Wood	Carpet
4 Techniques:	Molding	Pile	Cut	Weave
4 Ontologies:	Moral/Social	Earth	Sky	Space

See also:

Semper, <u>The Style in the Technical Arts</u> (1863, 2004) Bötticher, Karl. Tectonics of the Hellenes (1844; see Oechslin below)



3.29
Gottfried Semper, illustration from Der Stil in den technischen und tektonischen Künsten, 1860–1863. The Caribbean hut in the Great

Exhibition of 1851.

Readings on Studio Website:

Loos, Adolf. "The Principle of Cladding" (1898) in <u>Spoken into the Void: Collected Essays 1897-1900</u>, intro. Aldo Rossi (Cambridge, MA: MIT, 1982) pp.66-69.

Frampton, Kenneth. Excerpt from "Rappel a l'Ordre, the Case for the Tectonic," in Charles Jencks, ed., <u>Theories and Manifestoes of Contemporary Architecture</u> (1997), pp.254-255. Originally published in <u>Architectural Design</u> 60:3-4 (1990); republished in Kate Nesbitt, ed. Theorizing a New Agenda for Architecture (1996), pp.516-528.

Benedikt, Michael. "Materiality," in For an Architecture of Reality (1987) pp.44-50

LeCuyer, Annette. "Radical Tectonics: Making and Meaning," in <u>Radical Tectonics</u> (2001) pp.15-23.

Optional:

Frampton, Kenneth. "Reflections on the Scope of the Tectonic," in <u>Studies in Tectonic Culture:</u> the Poetics of Construction in 19th and 20th Century Architecture (1995), pp.1-6, 16-21.

Other Sources:

Oechslin, Werner. Otto Wagner, Adolf Loos and the Road to Modern Architecture (2003); including an anthology of primary sources.

Porphyrios, Demetri. "From Techne to Tectonics," in A. Ballantyne, ed. <u>What is Architecture?</u> (2002) pp:129-37. Sekler, Eduard. "Structure, Construction, Tectonics" from <u>Structure in Art & Science</u> (1965) Hartoonian, Gevorak. The Ontology of Construction (1994)

(2/3/06

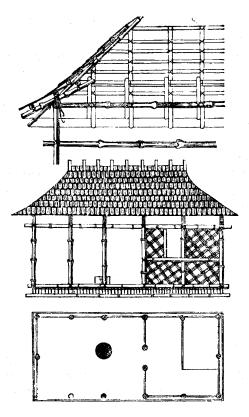
Semper, Gottfried

Der Stil (1860-63) (= Style in the Technical and Tectonic Arts, 2004) vol.2, Ch.8, "Tectonics" pp.665-666.

§ 145 Greco-Italic Tectonics: Timber Architecture

The Primitive Hut

For the Greco-Italic peoples the mystical-poetic and artistic motive for the temple, though not its material model or scheme, was the leaf-covered hut the protective roof supported by tree trunks, covered with straw or reeds, and enclosed with woven mats. According to Vitruvius, the marble temple is in fact nothing more than a petrified primitive hut, whose whole and parts materially arose or were directly derived from the basic elements of a wooden hut. Opponents of this homebred theory, in their zeal for the immediacy of the stone temple, nevertheless have to return to the (as they call it) hieratic allegory or symbol of the sacred *arbor* (σκηνή). And even though this may be a late poetic creation, perhaps first completely developed by dramatists in the golden age of Athens and placed onstage before the Athenians, it remains as such a very important element in the history of style. The architecture of a period that produced such theories was necessarily influenced by them to a greater of lesser extent figment of the imagination but a highly realistic example of a Having haid this the southern does not wish to be misunderstood when he plages; before the steader of a the equivalent of the a Vitanzian primitive about int the Great Exhibition of 1851 in London. It shows all the elements of antique arclacecture in their pure and most original form: the hearth as the centerpoint, raised earth as a terrace surrounded by posts, the column-supported roof, and the mat enclosure as a spatial termination or wall.



Caribbean hut