# BIG & TALL

Construction History from the Pyramids to the Burj

Spring, 2016
ARCH 528B sections 1a & 1b
Thomas Leslie, AIA, Instructor
TR 1540-1700 3cr

SYLLABUS (Preliminary, correct as of 9 February 2016)

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>TOPIC &amp; READINGS (Those marked “**” are particularly recommended).</th>
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| 1    | 12 Jan | 1. Introduction: On Making and Form. *Causation, Design, and Experience*; On Growth and Form as model for thinking about Why and How things are made; the importance of agency in design and experience; an alternative history of “building” as a verb, not a noun.  


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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>21 Jan</td>
<td>TL out of town—no class</td>
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| Date | 2 Feb | Analytic Project Selection Due


4 Feb


9 Feb

8. Iron and Industry. \textit{Industrial developments in Europe’s ‘iron belt’}. Rapid advances in iron fabrication and construction, parallel need for new type of mill building. Emergence of beam and column theory by Fairbairn and Euler, applications in Europe and the U.S. including cast iron facades and structures by...
Bogardus in New York.

Addis, 245-277, 342-354.


11 Feb


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Addis, 418-438.  


Andrew Saint, “Some Thoughts About The Architectural Use Of Concrete [I].” *AA Files*, 21, Spring, 1991. 3-12.


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Montgomery Schuyler “The Bridge as a Monument,” in W. H. Jordy
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<td>22 Mar</td>
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| 29 Mar| 17. Jean Prouve and Buckminster Fuller. Two careers exemplifying the new potentialities of postwar materials and entrepreneurialism. Prouve and the French example, career based in manual iron crafting in France’s iron belt, development of new materials, esp. aluminum after the war. Cladding systems and expansion into architectural production. Fuller and the American example. Fantasy-based ‘Dymaxion’ business propositions in 1920s, wartime service in supply chains during WWII and subsequent mapping experiments. Geodesics as technique and as strategy, development into humanitarian work during 1970s.  

   *Buckminster Fuller, “Buckminster Fuller.” Perspecta, 1, Summer, 1952. 28-37.*  


   *Addis, 480-499.*  
   *Pier Luigi Nervi, Aesthetics and Technology in Building (Cambridge: Harvard University Press, 1965).*  


   *David P. Billington and Myron Goldsmith, eds. Technique and*
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Addis, 541-549.  


| 3 May | FINALS WEEK | No Class |                                                                  |
| 5 May | FINAL DUE | FINALS WEEK. Final Exam Due, Analytical Project exhibition during scheduled Final Exam period, location TBA. |