

Architecture Studio: 1st Year Spring

Spring 2013, CMU, Arch #48-105, M/W/F 1:30-4:20

Class Website: www.andrew.cmu.edu/course/48-105

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Off. Hr: M/W/F 12:30-1:00pm & by appt. in MM302

(2/15/13)

Project 2: BUILDING ANALYSIS

MINDSET: The single most important source, and tool, for learning about architecture, is architecture. Experiencing and analyzing (good) buildings in person, and over an extended period of time, remains the best way to understand the complex art we call architecture. When travel is not possible, acquiring deep understanding through research of drawings, photos, and text becomes an essential skill for all architects.

The goal of this project is to build on your 48-100 work re-presenting the work of Le Corbusier and others, to expand your understanding of iconic works of modern architecture, and build a mental “library” of architectural “moves” and “ideas” for use in your own design process. Your mission is to discover, and speculate about the underlying compositions, constructions, and resultant experiences, and communicate them through clear, abstract, analytical, and interpretative diagrams. Particular emphasis should be placed on understanding, analyzing, evaluating, and communicating the relation of inside and outside in your building. This includes looking closely at, and speculating on:

- Approach, arrival, entry sequence, and promenade experience
- Courtyards, adjacent decks & outdoor spaces, roof gardens, relation to front walks, back yards, views, etc
- Windows, doors, skylights, openings, thresholds, lobbies, etc.
- Wall Sections, wall construction details, foundations/steps, cornices/roofs

Think about HOW the architect brings the user into, and back out of, the building. Start far away, get ever closer, enter, and move to the most important spaces, and back out the other side of the building. Seek to understand *WHAT* the architect intended with the overall design, the choreographed movement, and each detail, and *WHY* the architect “composed” it that way, and create analytical diagrams to show it.

Assignment 2a (for Friday Feb. 15, 1:30)

1) Do research on your building, architect, context. Begin with the citation listed with your building in the list below, and expand your research to find ALL sources (books and articles and websites) using the tools discussed by Martin Aurand. See the “Architecture” library research webpage, and the carrel of research books on the 48-105 carrel on the 4th floor of Hunt; see also the carrel for 48-305 for some books.

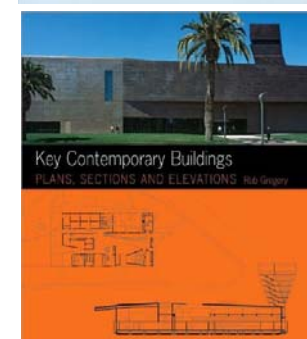
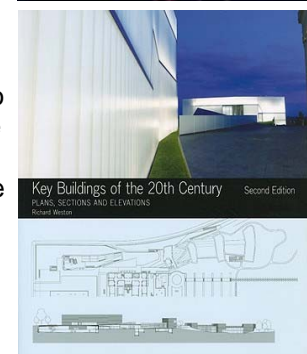
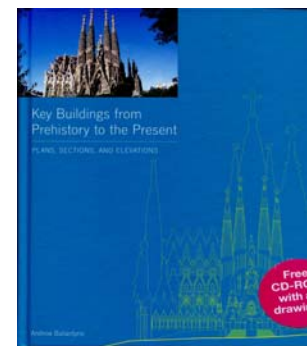
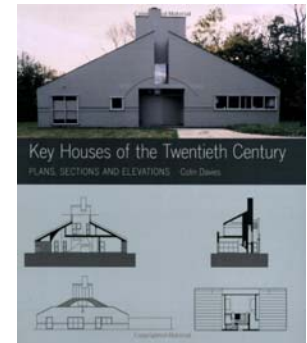
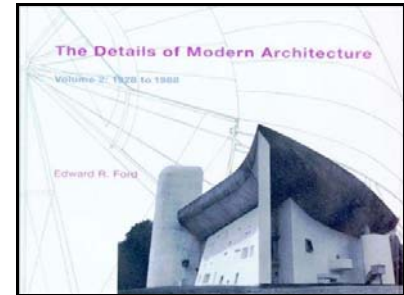
2) Much as you did in 48-100, compile a “complete” set of drawings for your building, so you can “reconstruct” it. If you can’t find something, take an educated guess, speculate based on your other info. Focus especially on the relation of exterior to interior, including the site, the walls, windows, etc. Locate a detailed “Wall Section” showing the precise construction of the exterior walls and entry conditions.

3) Collaborate and work with other students researching the same architect, start discussing and speculating on what qualities your buildings share!

4) As you do your research, take lots of visual notes in the form of sketches. Sketch the design, details, and composition of the building. Also consider using *Sketchup* or similar to model it in 3D, or make an analytical physical model. Then create a densely packed 11x17 (landscape format) compilation of sketches about your building as a pdf.

5) Using InDesign, create a densely packed 11x17 (landscape format) summary documentation of your building. Include scans of plans, sections, and other drawings, as well as a few photos of the outside and inside. Also include a brief summary of the significance, and a bibliography of important sources. Pack it FULL of info.

6) Combine the two 11x17 pdfs (**48105_S13_Lastname_AnalysisInfo.pdf**;) and submit to archpcserver at: \archpcserver\Studios\S13_48-105\02 Analysis Info



Studio A

WRIGHT, FRANK LLOYD (1867-1959)

- 1) Wright, Ennis House, Hollywood, CA, 1923, ([Key Houses of 20th-C](#), p.42)
- 2) Wright, Unity Temple, Oak Park, IL, 1906 ([Precedents in Arch.](#), p.204; [Key Bldgs of 20thC](#) p.30)
- 3) Wright, Fallingwater, Bear Run, PA, 1935 ([Precedents in Arch.](#), p.208; [Key Houses of 20th-C](#), p.92)

WRIGHT, FRANK LLOYD (1867-1959)

- 4) Wright, Johnson Wax, Racine, WI, ([Key Bldgs of 20thC](#) p.82)
- 5) Wright, Robie House, Chicago, IL, 1909 ([Precedents in Arch.](#), p.1909; [Key Houses of 20th-C](#), p.32; etc.)
- 6) Wright, Hanna House, Palo Alto, CA, 1936 ([Details of Mod.Arch vol.1](#), p.334)
- 7) Wright, Guggenheim Museum, NYC, 1956 ([Precedents in Arch.](#), p.210; [Key Bldgs of 20thC](#) p.88)

BREUER, MARCEL (1902-1981)

- 8) Breuer House I, New Canaan, CT, 1953 (Driller, [Breuer Houses](#), etc)
- 9) Breuer, Wolfson Hse, Pleasant Valley, NY, 1949 ([Details of Mod.Arch vol.2](#), p.163)
- 10) Breuer, St. John's Abbey, Collegeville, MN, 1953 (www.greatbuildings.com, etc.)

BREUER, MARCEL (1902-1981)

- 11) Breuer, Caesar Cottage, Lakeville, CT, 1951 ([Details of Mod.Arch vol.2](#), p.160; [First House](#) p.32)
- 12) Breuer, Frank House, Pittsburgh, PA (cf. Driller, M.L. Arscott archives, etc.)
- 13) Breuer, Whitney Museum, NYC, 1966 (www.greatbuildings.com, etc.)

UTZON, JORN (1918-2008)

- 14) Utzon, Can Lis Majorca, Spain, 1973 ([Key Buildings of 20th-C](#), p.174)
- 15) Utzon, Fredensburg Houses **OR** Kingo Houses ([Key Bldgs of 20thC](#) p.144)
- 16) Utzon, Bagsvaerd Church, Bagsvaerd, Denmark, 1968 ([Key Bldgs of 20thC](#) p.158)

HOLL, STEVEN (1947-present)

- 17) Holl, Chapel St. Ignatius, Seattle, WA, ([Key Bldgs of 20thC](#) p.226)
- 18) Holl, Museum of Ocean & Surf, Biarritz, France, 2005 (Archdaily, stevenholl.com, etc.)
- 19) Holl, Nelson Atkins Museum Expansion, Kansas City, MO, 1999 (stevenholl.com, etc.)
- 20) Holl, Kiasma Museum, Helsinki, Finland, 1992 (stevenholl.com, etc.)

Studio B

AALTO, ALVAR (1898-1976)

- 1) Aalto, Experimental House, Muuratsalo, Fin., 1952 ([Key Houses of 20th-C](#), p.122)
- 2) Aalto, Villa Mairea, Noormarku, Finland, 1938 ([Details of Mod.Arch vol.2](#), p.133; [Key Houses of 20thC](#), p.94)
- 3) Aalto, Saynatsalo Town Hall, 1950 ([Precedents in Arch.](#), p.8; [Key Bldgs of 20thC](#) p.100)

AALTO, ALVAR (1898-1976)

- 4) Aalto, Viipuri Library, Vyborg, Russia, 1927-35 ([Details of Mod.Arch vol.2](#), p.123)
- 5) Aalto, Vouksenniska Church, Imatra, Finland, 1956 ([Precedents in Arch.](#), p.10)
- 6) Aalto, Wolfsburg Cultural Center, Wolfsburg, Germany, 1959 (cf Archdaily.com)

MIES VAN DER ROHE, LUDWIG (1886-1969)

- 7) Mies van der Rohe, Tugendhat Hse, Brno, Czech, 1929 ([Key Houses of 20thC](#), p.78; [Key Bldgs of 20thC](#) p.60)
- 8) Mies van der Rohe, Farnsworth House, 1945 ([Key Houses of 20th-C](#), p.112; [Key Bldgs of 20thC](#) p.92)
- 9) Mies van der Rohe, Lake Shore Drive Apartments, 1948 ([Key Buildings fm Prehistory to Present](#), p.90)
- 10) Mies van der Rohe, Crown Hall, IIT, Chicago, 1956 ([Key Bldgs of 20thC](#) p.106)

KOOLHAAS, REM (1944-present)

- 11) Koolhaas, Villa Dall'Ava, Paris, France, 1991 ([Key Houses of 20th-C](#), p.206)
- 12) Koolhaas, Bordeaux Hse, France, 1998 ([Key Houses of 20th-C](#), p.224; [Key Bldgs of 20thC](#) p.232)
- 13) Koolhaas, Dutch House, Netherlands, 1995 (Archdaily, El Croquis, etc.)
- 14) Koolhaas, McCormick Tribune Student Center, IIT, Chicago, 1997 (www.oma.nl; www.iit.edu; etc.)

SCHAROUN, HANS (1893-1972)

- 15) Scharoun, Schminke Hse., Lobau, Germany, 1933, (Key Houses of 20th-C, p.42; Key Bldgs of 20thC p.72)
- 16) Scharoun, Philharmonie, Berlin, 1956 (Key Buildings fm Prehistory.., p.284; Key Bldgs of 20thC p.124)
- 17) Scharoun, Marl School, Marl, Germany, 1961 **OR** Geschwister-Scholl School, Lünen, Germany, 1958 (cf. P.B. Jones, in Arch.Review, etc.)

ZUMTHOR, PETER (1943-present)

- 18) Zumthor, Thermal Baths, Vals, Switzerland, 1996 (Key Bldgs of 20thC p.204; www.galinsky.com)
- 19) Zumthor, Bregenz Museum, Bregenz, Austria, 1989 (cf Galinsky, Archdaily, etc.)
- 20) Zumthor, Church San Benedetg, Sumvitg, Switzerland, 1985 (cf. Galinsky, etc.)

Studio C

KAHN, LOUIS (1901-1974)

- 1) Kahn, Fisher House, Hatboro, PA, 1967 (Key Houses of 20th-C, p.158)
- 2) Kahn, Richards Medical Center, U.Penn, Philadelphia, PA, 1957 (Key Bldgs of 20thC p.128)
- 3) Kahn, Kimball Art Museum, Fort Worth, TX, 1966 (Key Bldgs of 20thC p.156)
- 4) Kahn, Yale Art Gallery Extension, New Haven, CT, 1951 (cf greatbuildings.com, etc)

KAHN, LOUIS (1901-1974)

- 5) Kahn, Exeter Library, Exeter, NH, 1967 (cf greatbuildings.com, etc.)
- 6) Kahn, Salk Institute, La Jolla, CA, 1959 (Key Bldgs of 20thC p.138)
- 7) Kahn, Indian Institute of Management, Ahmedabad, India, 1963 (cf.greatbuildings.com, etc.)

RUDOLPH, PAUL (1918-1997)

- 8) Rudolph, Milam Hse, Ponte Verde, FL, 1959 (Key Buildings of 20th-C, p.134; Rudolph, Florida Houses, p.202)
- 9) Rudolph, Sarasota High School **OR** Riverview High School, Sarasota, FL 1958
- 10) Rudolph, Government Service Center, Boston, MA, 1962 (cf. <http://prudolph.lib.umassd.edu/> etc)

RUDOLPH, PAUL (1918-1997)

- 11) Rudolph, Cocoon Hse., Siesta Key, FL, 1950 (Rudolph, Florida Houses, p.96)
- 12) Rudolph, Art & Architecture Building, Yale, New Haven, CT, 1959 (cf. Greatbuildings.com, Archdaily, etc.)
- 13) Rudolph, Jewett Art Center, Wellesley, Wellesley, MA, 1955 (cf. Goldhagen, Anxious Modernisms, etc.)

FEHN, SVERRE (1929-2009)

- 14) Fehn, Villa Busk, Bamble, Norway, 1990 (Key Houses of 20th-C, p.202; Precedents in Arch., p.52)
- 15) Fehn, Glacier Museum, Fjaerland, Norway, 1991 (Precedents in Arch., p.54)
- 16) Fehn, Hedmark Museum, Harmor, Norway, 1969 (Key Bldgs of 20thC p.160; www.greatbuildings.com)
- 17) Fehn, Nordic (Scandinavian) Pavilion, Venice Biennale, 1962 (cf. Archdaily, etc.)

PATKAU ARCHITECTS (John & Patricia)

- 18) Patkau, Agosta House, San Juan Islands, WA, 2000 (Key Contemp. Bldgs., p.52)
- 19) Patkau, Barnes House, Nanaimo, BC, Canada, 1991 (Key Bldgs of 20thC p.220)
- 20) Patkau, Strawberry Vale School, Victoria, BC, 1992 , Surrey, BC **OR** Newton Library, Surrey, BC, 1990 (cf www.Patkau.com; Frampton, etc.)

BIBLIOGRAPHY

Clark, R.H. & M. Pause, Precedents in Architecture: Analytic Diagrams, Formative Ideas, & Partis 3rd ed. (2005); Hanlon, D. Compositions in Architecture (2009); Ching, D. Architecture, Form, Space, and Order 3rd ed (2007); Weston, R. Key Buildings of the Twentieth Century (2004); Davies, C. Key Houses of the Twentieth Century (2006); Gregory, R. Key Contemporary Buildings (2008); Ballantyne, A. Key Buildings from Prehistory to the Present (2013); Bjone, C. First House. The Grid, the Figure, and the Void (2001);