

HOUSING THE MASSES

THE PROBLEM:

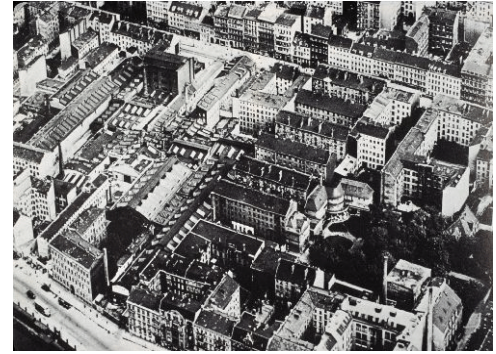
Meyer's Hof *Mietskaserne* (=Rental Barracks), Berlin, 1875-1930.

THE TECHNICAL DEBATES:

City Center or Periphery
 Low Rise vs. High

Rise

Detached vs. Row Housing vs. Apartment Blocks
 Perimeter Blocks vs. Zeilenbau (=Linear building)



HOLLAND

Oud Mathenesse Housing, J.J.P. Oud, Rotterdam, 1923

Hook of Holland, J.J.P. Oud, 1924-7

- * Kiefhoek Housing, J.J.P. Oud, Rotterdam, 1925-29 (298 units)

GERMANY

"Das Neue Frankfurt" =The New Frankfurt

Siedlungen: Bruchfeldstraße, E. May, 1926-7 (643 apts.,
 zig-zag, perimeter block)

- * Roemerstadt, Ernst May, 1927-8 (1220 apts., curves)
- * Praunheim, E. May, 1926-8 (1441 apts., with trolley tracks, Phase 3)
- * Am Lindenbaum, W. Gropius, 1930 (1532 apts., Zeilenbau)
- * Siedlung Goldstein, May, 1930 (Co-sponsored with German Garden City Assoc.)

- * Frankfurt Kitchen, Grete Schute-Lihotsky

Das neue Frankfurt magazine

Construction site efficiency, pre-fabricated concrete panels

CIAM II Meeting: "Existence Minimum Apartments", 1929

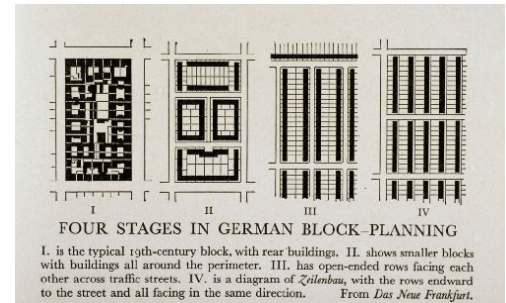
- * Weissenhof Housing Development Exhibition, Stuttgart, Germany, 1927

Exhibit Plan & Apartment Block, Mies van der Rohe

Houses by: W. Gropius, P. Behrens, B. Taut, Le Corbusier, M. Stam, H. Poelzig, H. Scharoun, J.J.P. Oud...

cf. Competing traditional "Heimat" housing developments

Törten Siedlung, Gropius/Bauhaus/Meyer, 1926-8



GERMAN FUNCTIONALISM & CIAM

"Arab Village," vs. "Victory of the New Building Style" propaganda war about the Weissenhof Housing Development Exhibit, Stuttgart, Germany, 1927 (p.352)

Vernacular Functionalism

Anti-Modern = Heimat Movement: P. Schmitthenner's "Stuttgart School"
Hellerau Garden City Housing by Riemerschmid, Tessenow & Muthesius
Paul Schmitthenner (Stuttgart, 1930)

Rational or Machine Functionalism: "Neues Bauen" in Berlin

Weissenhof: Exhibit Plan & Apartment Block, Mies van der Rohe; Houses by:
Gropius, Behrens, Taut, Le Corbusier, Oud, Poelzig, Scharoun... (p.259)
H.&W. Luckhardt, Am Rupenhorn Houses, Berlin-Westend, 1927

- * "International Style" exhibit, catalogue & book
"Modern Architecture: International Exhibition" = MoMA Exhibit #15,
Feb.-Mar. 1932. Travels to **Pgh.**, L.A., Philly, Worcester, Buffalo, etc.
H.R. Hitchcock & P. Johnson, *International Style: Architecture Since 1922*.
3 main principles of "Int'l Style": 1) volume; 2) regularity; 3) Anti-ornament

- * Dynamic Functionalism -- Erich Mendelsohn (1887-1953)
Mossehaus (Newspaper Office), Berlin, 1922
- * Schocken Department Store, Chemnitz, 1926-29 (p.262)

- * Organic Functionalism – Hans Scharoun & Hugo Häring
Bauwelthaus, H. Jarchow, 1924
Hugo Häring, Gut Garkau, Lubeck, 1924

Programmatic & Use Functionalism

Hannes Meyer (1889-1954)
ABC & G magazines & Constructivist groups, 1924 (p.264)
(Includes: El Lissitzky, M. Stam, H. Schmidt)
Coop Room, 1926
Petersschule Project, Basel, 1926 (p.199)

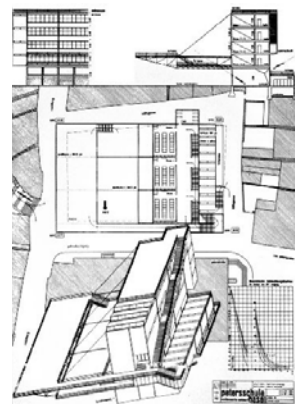
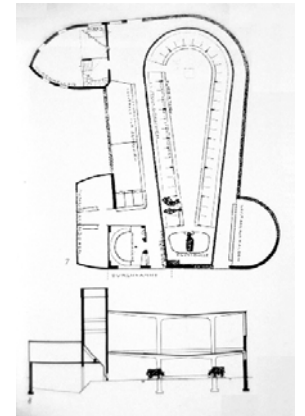
- * League of Nations Competition, Geneva, Switz., 1926 (p.263)
Entries by H. Meyer, R. Neutra, Le Corbusier, Piacentini
Le Corbusier entry -- elementarism (p.263)

CIAM (Int'l Congress of Modern Architecture) Meetings:

- 1) 1928, La Sarraz, Switzerland, "Preparatory Mtg."
- 2) 1929, Frankfurt, "Housing of Existence Minimum"
- 3) 1930, Brussels, "Rational Construction Systems"
- 4) 1933, Athens (Patris II), "The Functional City"
- 5) 1937, Paris, "Housing & Leisure"

Expressionist Functionalism

Bruno Taut, Siedlung Eichkamp, Berlin, 1919-27
"Colorful Magdeburg" 1920-4
Bruno Taut, Own House, Berlin-Dahlewitz, 1926



COLONIALISM & REGIONAL MODERNISMS

COLONIALISM Orientalism, The "Other"

The English Empire: An Empire upon which the sun never sets...

Historicism: Victoria Terminus, Bombay, F.W. Stevens, 1878

National Art Gallery, Madras, H. Irwin, 1906

Prince of Whales Museum, G. Wittet, Bombay, 1914

McMillan Library, Nairobi, Kenya, c. 1920

* NEW DELHI - new capital of British India

Classicist design by Edwin Lutyens & Herbert Baker, 1911-1936

Grand Manner planning: Versailles, Washington DC, Pretoria, Nairobi, Canberra (by W.B. Griffen, 1908-13)

Lutyens: "Architecture, more than any other art, represents the intellectual progress of those that are in authority. [In India] they have never had the initial advantage of those intellectual giants of the Greeks, who handed the torch to the Romans, they to the great Italians and on to the Frenchman and to Wren, who made it same for England ... I should have liked to have handed on that torch and made it same for India..."

* Viceroy's Palace, E. Lutyens & H. Baker, New Delhi, India, 1912-31

Influences: Sanchi, Taj Mahal, Fatepushikri (p.296-7)

Bungalows

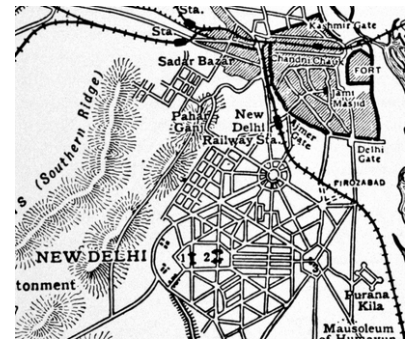
* St. Martin's Garrison Church, Shoosmith, 1928-31 (p.298)

Modernism

Lighthouse Cinema, Wm. Dudok, Calcutta, 1936-8

Marine Drive, Bombay = Mumbai

See also: Le Corbusier's postwar plans for Chandigarh



REGIONALISM, Dissemination of Modern Architecture

Development of Tropical Modernism & Climate (vs. International Style)

Le Corbusier's South American Lecture trip, 1929 (includes Rio)

See also: *Le Corbusier's Plans for Algiers, Algeria (Africa), 1930-1938*

BRAZIL

* Ministry of Health & Education, Niemeyer & Costa (w/ Le Corbusier), 1937-42

Pampulha Club, O. Niemeyer, vic. Belo Horizonte, Minas Gerais State, 1942

* Casino, Yacht Club, Dance Hall (p.388)

* Church of St. Francis, 1943

Brazilian Pavilion, New York World's Fair, O. Niemeyer, New York, 1939

cf Finnish Pavilion, Alvar Aalto

Niemeyer House, Canoas (vic. Rio), Brazil, 1950

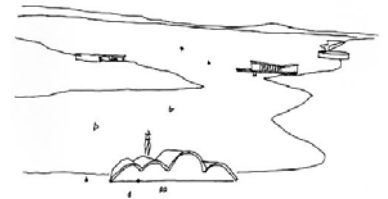
See also: Plans for Brasilia, new capital of Brazil, 1957ff. (*Cf Postwar*)

Third World Modernism (*Postwar*)

Tropical Modernism:

Drew & Fry, *Tropical Architecture in the Humid Zone* (1956)

See also: Modernism in Japan, Palestine, etc.



TOTALITARIANISM: GERMANY, RUSSIA, ITALY

PARIS World's Fair, 1937, Pavilions:

- Belgium, H.v.d. Velde;
- French Rural Village (Regionalism);
- Spain, J.L.Sert + Picasso, "Guernica"
- Le Corbusier, Pavilion Temps Nouveau;
- Japan, Sakakura;
- Finland, A. Aalto;
- * Germany, A. Speer;
- * Russia: B. Iofan;
- Italy: M. Piacentini



NAZI GERMANY:

Hitler voted into office 1933; Reichstag fire 1933; Hindenburg dies 1934.
Hitler annexes Rhineland 1936; invades Poland 1939, starts WWII, US enters war 1941; ends 1945

What is Nazi Architecture?

All architecture built in Germany during Hitler/Nazi rule (1933-45)?
A style? Classicism? French?
Continuation of Weimar Conservatism of un-traditional and un-German architecture?

Nazi reaction against the promiscuous avant-garde, and against bolshevism, socialism, Jewish architects; e.g. Closing of Dessau Bauhaus, 1932 // Closing of Berlin Bauhaus, 1933

Nazi Monumental Classicism

- Munich as "Führerstadt" (= City of the Führer) and City of Culture
- * House of German Art, P.L. Troost, Munich, 1933 (p.354)
- Exhibit of Degenerate Art, 1937 (=Entartete Kunst)
- Cf. Mellon Institute, Janssen & Cocker, 1931-37
- Berlin as "Germania," Capital of the IIIrd Reich
- * N-S Axis and Dome for Germania (Berlin), A. Speer, 1938-41 (p.356)
- * Reichs Chancellery, A. Speer, Berlin, 1938-9 (p.356)
- * Nuremberg and Party Rallying Grounds (p.356)
- Stadium & Zeppelin Field, Nürnberg, A. Speer & L. Ruff, 1933-7
- cf. CMU campus architecture (Stadium & Purnell) by Michael Dennis & Assoc.



SOVIET "SOCIALIST REALISM"

Stalin rules Soviet Union 1925-53 (Lenin dies 1924)

- * Palace of Soviets Competition, Moscow, 1931
- Modernists: Vesnin Brothers, M. Ginsburg, Le Corbusier, E. Mendelsohn, A. Perret, Le Corbusier
- Winner: B. Iofan, construction 1934-39 (unfinished)
- Moscow Metro Stations, 1936ff
- Stalinist Classicism = "Socialist Realism"

THE THIRD ROME: TENSION OF MODERNITY & NATIONAL TRADITION

Mussolini forms Fascist party 1921, March on Rome 1922

"Contacts" and "Sources" of Modern Italian and Ancient Architecture, Micellucci,

Domus, 1932

Gruppo 7, founded 1926 by Milan Polytechnic students: Terragni, Libera, Figini, Pollini et al

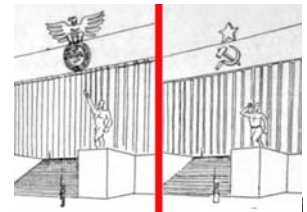
- * Casa del Fascio, G. Terragni, Como, 1932-6



WAR, DEPRESSION, CHANGE IN MODERNISM

Pre-War Modernism vs. Postwar Modernism

The Attitude towards classicism, technology, planning
 "Fasces" as a universal symbol
 Federal Triangle, Washington, DC, 1938-45



NAZI TECHNOLOGICAL MODERNITY

Luftwaffe (=Airforce) Ministry, E. Sagebiel, Berlin, 1935-36
 Tempelhof Airport, E. Sagebiel, Berlin, 1936-41
 German Luftwaffe
 Autobahn and the VW Bug
 Ernst Neufert's "standards" & House-Building machines
 The "Atlantic Wall", bunkers
 Concentration Camps



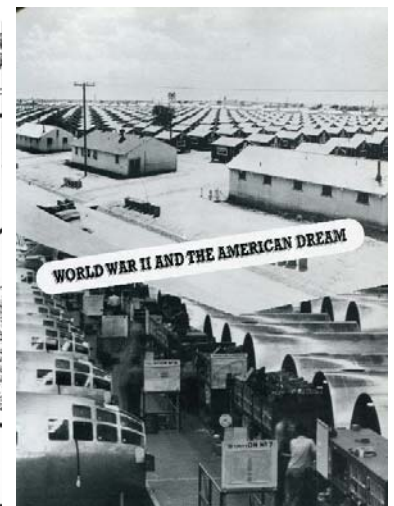
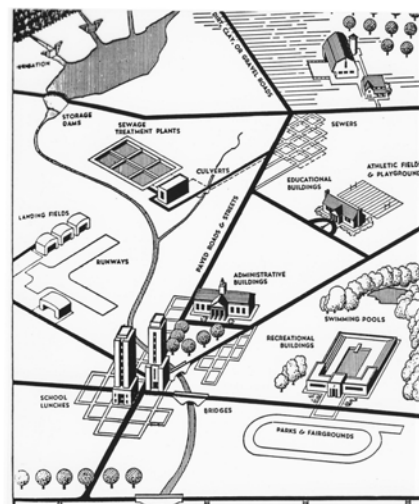
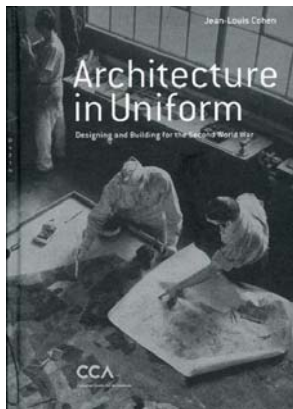
Destruction of WWII - 1939-1945
 Shift of Power & Influence in Modern Architecture

AMERICA AT WAR

Great Depression, 1929-39
 New Deal: Economic programs enacted 1933-38: relief, recovery, reform
 National Recovery Administration (1933): industries/labor/gov't collaborate to set fair practice laws
 Works Progress Administration (1935-43): public works, make work projects, infrastructure, parks, roads, post offices, etc.
 Social Security Act (1935): Social insurance & social welfare
 The Military Industrial Complex
 Pentagon, by Berman, Washington, DC, 1941-3
 Albert Kahn: "the Producer of Production Lines"
 Willow Run B-24 Bomber Plant (Ford; then Kaiser Autos, now GM), Detroit, Albert Kahn, 1941
 Aluminum Terrace, Gropius, Natrona Heights, PA, 1941



The Victory of Democracy
 The Returning G.I.
 The American Dream / Home



USA & THE ARCHITECTURE OF DEMOCRACY

An Architecture of Democracy?

Pentagon, by Berman, Washington, DC, 1941-3
 Federal Interstate Highway System, 1941, 1956, etc.
 Defense & Commerce & Make-Work
 By products of war industry: Saran-wrap, plywood, etc.
 The American Dream

Diaspora of the Avant-Garde, European artists fleeing Hitler:

Russia: E. May, H.Meyer, G. Schutte-Lihotzky, B. Taut

Japan: B. Taut

Turkey: C. Holzmeister, H. Poelzig, B. Taut, O. Kaufmann, M. Wagner

Mexico: H. Meyer, M. Osborn, M. Cetto

Israel/Palastine: Mendelsohn, O. Kaufmann

England: Gropius, Mies, Mendelsohn

USA: Gropius (Harvard), Mies (IIT), Mendelsohn (Berkeley), Saarinen (Cranbrook), Aalto (MIT), Breuer (Harvard), Giedion (Harvard), M. Wagner (Harvard), Moholy-Nagy (IIT), Hilberseimer (IIT), Albers, Klee, W.C. Behrendt (Darmouth), Gutkind (Penn), Konrad Wachsmann (CMU)

Erich MENDELSON (1887-1953)

Travelled to USA 1924, friend of F.L. Wright, mentor of Neutra, Schindler...
 Biggest modernist architecture office in Europe
 Exile in Palestine, 1933-41

- * Medical Center, Hebrew University, Jerusalem, 1937 (p.383)
- Medical Center, Hebrew University, Jerusalem, 1937
- Park Synagogue, Cleveland Heights, OH, 1946
- Synagogue B'Nai Amoona, St. Louis, 1946
- Mount Zion Synagogue, St. Paul, Minn., 1950

Walter GROPIUS (1883-1969)

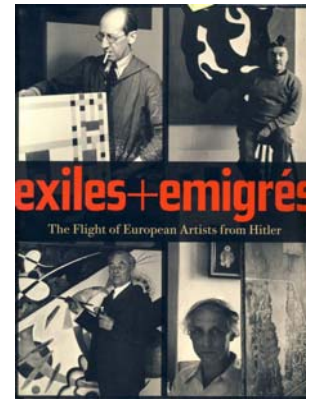
Founding Director of Bauhaus, 1919-1928
 Emigrates from Germany 1934, to England, then US, 1937
 Chair of Architecture at Harvard, 1937ff

- * Gropius Own House, Gropius, Lincoln, MA, 1937 (p.396)
- Frank House, Breuer & Gropius, Pgh, 1937
- Aluminum City Terrace, New Kensington, PA 1942
- * Harkness Commons (Harvard), Gropius, Cambridge, MA, 1948 (**Curtis textbook**, p.397)
- The Architect's Collaborative (TAC) with Benjamin Thomson
- PanAm Building, TAC with Belluschi & Emery-Roth, NYC, 1965
- Athens Embassy
- Chase Manhattan Bank, Great Neck, NY

Ludwig MIES VAN DER ROHE (1886-1969)

Head of Werkbund, Last Chair at Bauhaus, 1933
 Emigrates to US 1937
 Chair of Architecture at IIT 1939ff

- * Farnsworth House, Mies v.d. Rohe, Plano, IL, 1945-51 (p.403)
- * IIT Campus Plan, Mies v.d. Rohe, 1939-56, incl. Crown Hall Architecture, 1950-56, (p.401-2)
- * Lake Shore Drive Apts., Mies v.d. Rohe, Chicago, 1948-51 (p.394,407)
- Seagram Building, Mies v.d.Rohe& P. Johnson, NYC, 1954-8 (p.408)
- * New National Gallery, Mies van der Rohe, Berlin, 1962-8 (p.645)



MODERN LIVING & SUBURBIA

Dymaxion House, Buckminster Fuller, 1927-29
 Dymaxion House Built at Wichita, Fuller, 1945 (p.267)

Conversion of War-time Production
 Lustron Steel Houses, 1948-51, Carl Strandlund & Curtiss-Wright airplane
 factory in Columbus, OH
 "Reconstruction Finance Program "

Suburbs & American Dream

- * Levittown, William Levitt & Sons, Hempstead, Long Island, 1947-52 (also in Bucks County, PA & Puerto Rico)
 See also: G.I. Bill, Federal Mortgages, "White Flight"
 Mass production of houses
 Auto Culture
 Shopping Culture

Case Study Houses, Los Angeles

- John Entenza, Arts & Architecture, Los Angeles, 1945-62
- * Eames Own House (C.S. #8), Charles & Ray Eames, Santa Monica, CA, 1945-9 (p.404) (cf. Blundell, Case Studies)
- * Case Study Houses #21 & #22, P. Koenig, Los Angeles, 1958 (p.405) (#22, 1959)

Kaufmann Desert House, Neutra, Palm Springs, 1946 (p.399)
 Julius Shulman's photographs & the Canonization of Modern Architecture
 Beatriz Colomina's Domesticity at War; Alice Friedman's American Glamour

Did not get to in class...

- "Harvard Five" in New Canaan, CT - A Mecca of Modernism
 Marcel Breuer, Landis Gores, John Johansen, Philip Johnson, Eliot Noyes
- * Johnson Glass House, Johnson, New Canaan, CT, 1949-50 (p.403)
 Breuer House, New Canaan, CT, 1948



AALTO & SCANDINAVIAN GRACE

Scandinavian National Romanticism (Arts & Crafts, Place)

- * Stockholm Exhibition, G. Asplund, 1930 (p.338)

Alvar AALTO (Finland, 1898-1976)

Cf. Worker's Club, Jyväskylä, Finland, 1924-5 (Doric Classicism)

- * Library, Viipuri, Finland (today in Russia), 1927-35 (p.343)
- * Tuberculosis Sanatorium, Paimio, Finland, 1929-33 (p.344-5)
Paimio Chair, 1933
- * Villa Mairea, Noormarkku, Finland, 1937-9 (p.347-9)
Sunila Paper Mill and Worker Housing, Sunila, Finland, 1933-39
Finnish Pavilion, Paris World's Fair, 1937
Finnish Pavilion, New York World's Fair, 1939

Baker House (MIT), Cambridge, MA, 1947-8 (p.454-5)

- * Saynatsalo Town Hall, Saynatsalo, Finland, 1949-52 (p.456-7)
Experimental Summer House, Muuratsalo, Finland, 1953
- * Vuoksenniska Church (Church of Three Crosses), Imatra, Finland, 1956-9
(p.452,458-9)

Fan & Courtyard Plans

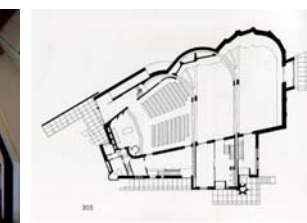
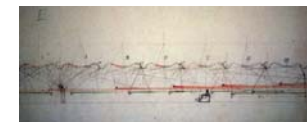
Wolfsburg Cultural Center (& Library), Wolfsburg, Germany, 1958-62

Rovaniemi Library, Aalto, Rovaniemi, Finland, 1963-8 (p.459)

Seinajoki Cultural Library (& Cultural Center),

Seinajoiki, Finland, 1963-65

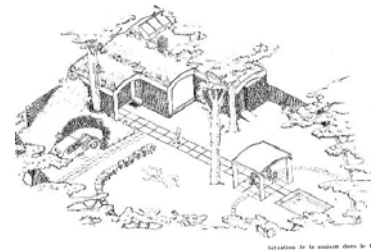
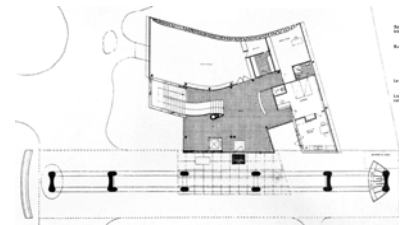
Mt. Angel Abbey Library, St. Benedict, Oregon, 1970



POSTWAR CORB

From Purism to Nature: LE CORBUSIER (1887-1966)

- * League of Nations, Geneva, Switzerland, 1927
- Lecture tour of South America, 1929; published as Precisions (1930)
- Centrosoyuz, Moscow, 1929-36
- * Pavilion Suisse, Cité Universitaire, Paris, 1930 (p.322-3)
- Villa Mandrot, Le Pradet, France, 1930-31
- Salvation Army Hostel, Paris, 1933
- Low Cost Holiday House, Mathes, France, 1935
- * Petit Maison Weekend (=Villa Felix), La Celle St. Cloud, 1935
- Plan Obus, Algiers, Algeria, Africa, 1930-35
- * Project for UN Building, built by Harrison & Abramovitz, NYC, 1947-50 (p.410-11)
- * Unite Apts., Marseilles, France, 1947-53 (p.436-441)
- * Chapel of Notre-Dame, Ronchamp, France, 1950-54 (p.416-21)
- “Stirling, “Ronchamp,” Architectural Review (1956): “crisis of rationalism”
- * Master Plan for new capital of (Indian) Punjab at Chandigarh, Le Corbusier, 1951 (p.427,430): Parliament, 1951-63 (p.430-433); High Court, 1951-5 (p.429); Secretariat, 1951-63
- cf Superblocks & housing by Pierre Jeanneret, Maxwell Fry & Jane Drew
- * Monastery of La Tourette, LeCorbusier, Eveaux near Lyons, 1953-7 (p.422-3)
- Philips Pavilion, Brussels World’s Fair, 1958
- cf. Carpenter Center (Harvard), Le Corbusier, Cambridge, MA, 1959-63 (p.435)
- cf Venice Hospital (Proj.), Le Corbusier, Venice, Italy, 1963-5 (p.434)



Late Le Corbusier



MODERN EXPRESSION & ORGANIC

The Other Tradition

Hans SCHAROUN (1893-1972)

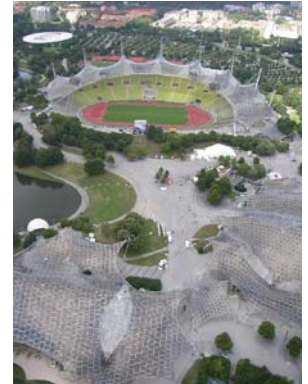
- * Berlin Philharmonic Hall, Hans Scharoun, Kulturforum Berlin, 1956-63 (p.470,473)
Also: State Library (Staatsbibliothek), Scharoun, Kulturforum Berlin, 1967-78;
and Chamber Music Hall, 1984 (based on sketches of Scharoun)
- * Compare to: New National Gallery, Mies van der Rohe, Berlin, 1962-8
(p.645)



Frei OTTO & Stuttgart Institute for Lightweight Structures

Frei Otto taught with Buckminster Fuller at Washington Univ., St. Louis in 1950s
founded Institute for Lightweight Structures, Stuttgart, Germany, 1964ff

- * Olympic Stadium, Otto with Günther Behnisch, Munich Germany, 1972 (cf. Blundell, Case Studies)



Jørn UTZON (1918-2008) (Pritzker 2003)

Training under Kay Fisker, Steen Eiler Rasmussen, Gunar Asplund; travels to
Africa, Asia, USA, Mexico

- * Sydney Opera House, Utzon, Sydney, Australia, 1957-73 (p.467-9)
with Ove Arup, structural engineering (1895-1988)
- cf Bagsvaerd Church, Copenhagen, Denmark, 1969-76 (p.612-3)



Eero SAARINEN (1910-1961)

"Tulip Chair," for "Organic Design in Home Furnishings" competition, 1940
cf. Case Study House #9 with Ch. & Ray Eames, Sta. Monica, CA, 1948

- * St. Louis Arch (= Jefferson Nat'l Expansion Memorial), Saarinen, St. Louis, MO, 1948-66 (p.400)
Kresge Auditorium & MIT Chapel, Cambridge, MA, 1953-5
Ingalls Rink, Yale Univ., New Haven, CT, 1953-8
- * TWA Building at JFK Airport, Saarinen, NYC, 1956-62 (p.516)

Frank Lloyd WRIGHT (1867-1959)

- * Guggenheim Museum, FLW, NYC, 1943-1956-59 (p.414-5)
cf. Guggenheim, Bilbao, Spain, F. Gehry, 1992-7
cf. Mercedes Benz Museum, UN Studio, Stuttgart
cf. Ibera Camargo Museum, A. Siza,

Did not get to in class...

Fallingwater, Bear Run, PA, 1935-38 (p.310-3)
Pittsburgh Point Civic Center #1, #2, 1947-48
Annunciation Greek Orthodox Church, Wauwatosa, WI, 1956

BRUTALISM & TECHNOLOGY

Brutalism

Ethic or Aesthetic? Ugly?

- * Le Corbusier's "beton brute", Unite Apartment, Marseilles, France, 1947
Smithsons articles in Architectural Review 1954-7
Banham, "The New Brutalism," Arch.Rev., (1955); book New Brutalism (1966)
cf, Banham, The Architecture of the Well Tempered Environment (1969)

Alison & Peter SMITHSON (1928-1993; 1923-2003)

- * Part of CIAM, then Team X...Independent Group, 1952-55;
Hunstanton School, Smithsons, Norfolk, England, 1949-54 (p.531)
cf. Mies, IIT Buildings , Chicago, 1945-56
cf. Banham, "New Brutalism" Architectural Review (1955)
Robin Hood Gardens, Smithsons, London, 1966-72 (p.533)

James STIRLING (1926-1992) (3rd Pritzker winner, 1981)

- * Fan of Corbu; cf. article "Ronchamp," Architectural Review (1956)
Engineering Bldg., Stirling, Leicester Univ., 1959-63 (p.528,535) (cf. Blundell, Case Studies)

Paul RUDOLPH (1918-1997)

- * Art & Architecture Bldg.(Yale), P. Rudolph, New Haven, CT, 1958-62 (p.560)
Cf. F.L. Wright, Larkin Building, Buffalo, 1904 (p.126,152)
Government Services Center, Boston, Rudolph, 1962-67
Boston Urban Renewal
- * Boston City Hall, Kalmann McKinell, Boston, 1962-8 (p.515)

ARCHIGRAM: Peter Cook, Warren Chalk, Ron Herron, Dennis Crompton, Michael Webb and David Greene

- * Plug-In City, Peter Cook / Archigram, 1964 (p.538)
Walking City (Proj.), Ron Herron, 1964 (Frampton p.281)

Alan Boutwell, "Continuous City", 1969

- * Centre Pompidou, Rogers & Piano, Paris, 1971-77 (p.600)

Did not get to in class....

Japanese METABOLISM

End of CIAM 1958; Tange joins Team X; World Design Conference in Tokyo 1960

- * Kenzo Tange, Kiyonori Kikutake, Kisho Kurokawa, Fumihiko Maki & others (cf. Anxious)
Yamanashi Press & Radio, K. Tange, Kofu, 1961-7 (p.511)
Space City, Clusters in the Air, Metabolist City, (projs.) by Isosaki, 1960-63 (p.510; Anxious)
Marine City (Proj.), Kikutake, 1958 (cf. Anxious)
Tokyo Bay Project (proj.), Tange, 1962ff (cf Anxious, Ockman)
Nagakin Capsule Tower, Kurokawa, Tokyo, 1971

Paul Rudolf Proposal for Lower Manhattan Expressway, 1970

Banham, Megastructure: Urban Futures of the Recent Past (1976)

TROPICAL MODERNISM & ENVIRONMENT

Dissemination of Modern Architecture, Regionalism, Role of Environment, Climate, Tradition, Culture, Technology, Symbolism, Place; Development of "Tropical Modernism" (vs. International Style)
 Term "Third World" coined in 1952 to refer to countries unaligned with Communist bloc or Nato Capitalism
 Fry & Drew, Tropical Modernism (1956); Rudofsky, Architecture without Architects (MoMA 1964); Rapaport, House, Form, Culture (1969)

BRAZIL

"Brazil Builds" MoMA Exhibit, 1943

cf. Brazil Pavilion, Niemeyer, New York World's Fair, 1939

- * Brasilia (new capital, promoted by President J. Kubitschek de Oliveira, 1956-1961) (p.500-1)
 Master Plan by Lucio Costa (1956-8)
 Architecture by Niemeyer, Brasilia, Brazil, 1957-70
 Congress, "Palaces", Ministries, Cathedral, Supercuadra Living (p.500-501)

MEXICO

El Pedregal Landscape & Housing, Mexico City, L. Barragan et al, 1945-50 (p.391)

Houses by Cetto, O'Gorman, Candela, et al, 1950-55;

Luis Barragan (1902-1988); Pritzker winner 1980 (2nd one ever)

- * Barragan Own House, Barragan, Tucubaya - Mexico City, 1947 (p.495)
 Cf. Satellite City Towers, Barragan, Mexico City, 1957 (p.497)
 Cf. Plaza Las Arboledas, Barragan, Mexico City, 1958-61 (p.490)
 Cf. San Cristobal (Egerstrom) House Stables, Barragan, Mexico City, 1968 (p.498)

MOROCCO

Carrieres Centrales by ATBAT (George Candilis & Shadrach Woods), Casablanca, Morocco, 1951-4

Cite Horizontale, Michel Ecochard, 1951

- * Cite Verticale, Candilis/Woods/ATBAT, 1953 (p.443)

EGYPT

- * New Gournia Village, Hassam Fathy, Cairo, Egypt, 1945-59 (p.569)
 Hassan Fathy, Architecture for the Poor (1969)
 Aga Khan Foundation for Architecture

Did not get to in class...

INDIA

Indian & Pakistan Independence 1947; Bangaldesh Independence 1971

cf Superblocks & housing by Pierre Jeanneret, Maxwell Fry & Jane Drew

cf. Dacca, Bangladesh, L. Kahn, 1962-74

Balkrishna Doshi (1927-present; worked in Corbu office in Paris 1951-54)

ATIRA & PRL Low Cost Vault Housing, Doshi, Ahmedabad, 1957-60 (p.566)

- * Sangath Studio Workshop, Doshi, Ahmedabad, 1972 (office founded 1955) (p.653-5)
 Aranya Housing, Doshi, India, 1983
 cf. Charles Correa, Gahndi Ashram, Ahmedaba, India, 1958 (p.571)

Mo. Nov. 11 #31 - Expressionism & Organic. **Curtis:** 400, 464-474

We. Nov. 13 #32 - Technology & Archigram; **Curtis:** 506-511, 528-545

Fr. Nov. 15 #33 - Tropical Modernism & Environment: **Curtis:** 490-505, 566-587

Mo. Nov. 18 #34 - Kahn, History & Monumentality **DUE:** Reading Report 10 (Optional)

Lecture on the career of Louis Kahn, how he moved from his Beaux-Arts training to becoming one of the most revered modern architects of the century. What role did history play in developing Kahn;s unique form of modern architecture? What about technology? Geometry?

Curtis: pp.512-527

BLACKBOARD: Kahn, "Order is" and other excerpts.

LOUIS KAHN - HISTORY & MONUMENTALITY

Chronology

1901	Born Itze-Leib Schmuilowsky in Estonia / Russia
1904	Burns face, scars for life
1905	Emigrate to USA, very poor
1924	B.Arch from U.Penn, Beaux-Arts training
1928-9	European travel, interest in Carcassone & Castles
1929	Works for Paul Cret (Beaux-Arts, U.Penn Prof., Folger Shakespeare Library, etc.)
1930	Marries Esther Kahn
1932-45	Works with PWA, George Howe, Oscar Stonorov on housing
1942-4	Carver Court war housing, Coatesville, PA
1945	Begins work with Anne Tyng (Gropius student; interest in geometry & structure; woman in a world of men)
1947	Begins teaching at Yale
* 1951-3	Yale Art Gallery extension, New Haven, CT (p.518)
1952	Stint at American academy in Rome, admires ancient ruins of Greece, Italy, Egypt; light, mass, history
* 1952-55	Trenton Bath House / JCC, Ewing, NJ
1957	Begins teaching at U.Penn (also MIT & Princeton)
* 1957-65	Richards Medical Labs, U.Penn, Philadelphia, PA (p.519)
1958-62	Tribune Review Building, Greensburg, PA (local!)
* 1959-65	Salk Foundation, La Jolla, CA (p.522-3)
1959	First Unitarian Church, Rochester, NY
1960	Norman Fisher House, Hatboro, PA
1960-65	Erdman Dorms (Bryn Mawr), Kahn, Philadelphia (p.520)
1961	Graham Foundation grant to study traffic movement in Philly
* 1962	Indian Inst. of Management, Ahmedabad, India (p.521)
1962-74	National Assembly, Dacca, Bangladesh (p.526-7)
* 1965-72	Phillips Exeter Library, Exeter, NH (p.520)
* 1967-72	Kimbell Art Museum, Fort Worth, TX (p.512,524-5)
1969-74	Yale Center for British Art, New Haven
1974	Dies at Penn station, anonymous, in debt

Concepts / Ideas / Theory

Served vs. Servant space
 Use of History
 Light
 Mass / Materiality
 Spatial Structure
 Geometry
 Articulating the elements of architecture



POP & THE END OF MODERNISM

The "End" of Modernism

- Crisis of International Style Modernism, the Corporate Glass Box, Brutalism, etc.
- Urban Decay, urban renewal, urban removal, Penn Station destroyed 1960
- Jane Jacobs, Life & Death of Great American Cities (1961)
- Consumer & capitalist excess, waste, inequality, crowding, congestion
- Civil Rights Movement, Race Riots, assassination of JFK (1963), MLK (1968), RFK (1968)
- Women's Lib., Equal Rights Amendment (ERA, 1970)
- Environmental Movement, Rachel Carson's Silent Spring (1962); Earth Day (1970)
- Vietnam War (1959-75) & Anti-war Protests, Kent State Shootings, (May 1970)
- Anti-Establishment: Baby boomers come of age (1963ff) - Beatles arrive in US (1964), Flower Power, Summer of Love in SF (1967) DNC Protests 1968 - Woodstock (1969)

Postmodernism

- F. Lyotard, The Postmodern Condition: A Report on Knowledge (1979)
The end of the era of "metanarratives, in favor of diversity & micronarratives
- J. Habermas, "Modernity & Postmodernity" (1981)
First critique of PoMo; sees some value in reason, science, etc.

Architecture

- Zines, Little Magazines, micronarratives...
- Smithsons and the "Independent Group", London, 1952-53, celebrating popular culture
- Pop Art: Warhol (1962ff), Rauschenberg, etc.

Robert VENTURI (1925-present) (Pritzker 1991)

- BA & M.F.A. from Princeton (1947, 1950)
- Works for Saarinen, L. Kahn, Amer. Academy in Rome & U.Penn, 1951-65
- Denise Scott Brown: meet 1960, marry 1967
- * Vanna Venturi House, Chestnut Hill (Philly), 1961-7 (= Mother's House) (p.561)
- * Guild House, Philadelphia, 1961-63 (p.562)
vs. Crawford Manor by Paul Rudolph (Brutalism)
- Visiting Nurses Assoc., Philadelphia, 1961-3
- * Complexity & Contradiction in Architecture (1966), written 1961-5
"Gentle manifesto of non-straightforward architecture"
- * Learning from Las Vegas: the forgotten Symbolism of Architectural Form (1972, rev. 1977)
"Is Boring Architecture Interesting?"
"Duck" vs. "Shed"

Aldo ROSSI (1931-1997)

- Monument to Resistance, Cuneo, Italy, 1964
- Monument at City Hall, Segrate, Italy, 1965
- * Architecture of the City, 1966
- * Gallarate Housing, Milan, Italy, Rossi, 1969 (p.588, 592)

POSTMODERNISM 1

Aldo ROSSI (1931-1997)

Monument to Resistance, Cuneo, Italy, 1964

Monument at City Hall, Segrate, Italy, 1965

* Architecture of the City, 1966

Memory, Autonomy, Typology

Gallaratese Housing, Milan, Italy, Rossi, 1969 (p.588, 592)

Charles MOORE

* Sea Ranch, Moore, 1963

UC Santa Barbara Faculty Club, 1968 (p.563)

Kresge College, UC Santa Cruz, 1965

* Piazza d'Italia, Moore, New Orleans, 1975-9 (p.603)

POSTMODERNISM 2

James STIRLING

- * Staatsgalerie, Stuttgart, 1977 (p.607)

Richard MEIER

Smith House, Darien, CT, 1967
Giovannitti Hse., Pittsburgh (Chatham Campus), 1978-83
Atheneum, Meier, New Harmony, IN, 1978-9

Peter EISENMAN

Falk House (House II), Hardwick, VT, 1969
Miller House (House III), CT, 1972

Michael GRAVES

- * Benacerraf House, Graves, Princeton, 1969 (p.565)
- * Graves, Fargo-Moorhead Cultural Center, Graves, 1977 (p.604)
- * Portland Building, Portland, OR, 1980 (p.620)

Whites" = The "New York Five," MoMA exhibit 1969; book The New York Five (1972, 1975)

Peter Eisenman, Michael Graves, Charles Gwathmey, John Hejduk, Richard Meier, and led by Rowe

"Greys" - "Five on Five," Architectural Forum (May 1973)

Romaldo Giurgola, Allan Greenberg, Charles Moore, Jaquelin T. Robertson, Robert A. M. Stern, and led by Venturi

Charles MOORE

- * Piazza d'Italia, Moore, New Orleans, 1975-9 (p.603)

Postmodernism

Jencks, Postmodern Architecture 1977

Destruction of Pruitt Igoe Housing, St. Louis, Mo, by Yamasaki, 1972

- * Venice Biennale, curated by Paolo Portoghesi, 1980
Strada Novissima - Venturi, Stern, Graves, Hollein, et al

CRITICAL REGIONALISM & DECONSTRUCTIVISM

Po-Mo goes Corporate

Phillip Johnson

PPG Glass Building, Pittsburgh, 1980

* AT&T Building, P. Johnson, NYC, 1979 (p.599)

Lloyds Building, R. Rogers, London, 1978-86 (p.686)

Critical Regionalism & Tectonics

K. Frampton, "Towards a Critical Regionalism: Six Points for an Architecture of Resistance" (1983)

K. Frampton, Studies in Tectonic Culture (1995)

K. Frampton, Five North American Architects (2011)

S. Saitowitz, B. Shim + H. Sutcliffe, R. Joy, J.+P. Patkau, S. Holl

Deconstructivism & Pragmatism

Wexner Center, Eisenman, Ohio State Univ., Columbus, OH, 1983 (p.665)

P. Johnson & M. Wigley, eds. Deconstructivist Architecture exhibit & catalogue, MoMA, 1988

Peter Eisenman, Frank Gehry, Zaha Hadid, Coop Himmelblau, Rem Koolhaas, Daniel Libeskind, and Bernard Tschumi

Gehry House, Gehy, Santa Monica, CA, 1977

Parc de la Villette, Tschumi, Paris, France, 1984-9 (p.665)