

F.L. Wright: Precedent, Analysis & Transformation

CMU, Arch 48-441 (Project Course)
Spring 2005, M/W/F 11:30-12:20, CFA 211

Prof. Kai Gutschow
Email: gutschow@cmu.edu
Off. Hr: M/F 12:30-1:30pm & by appt. in MM307

(7/16/07)

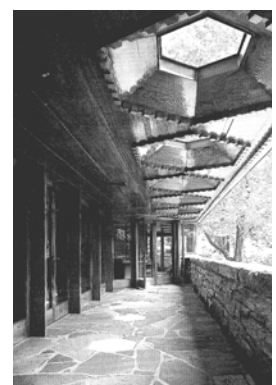
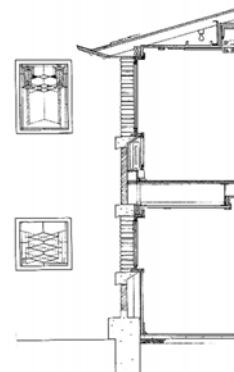
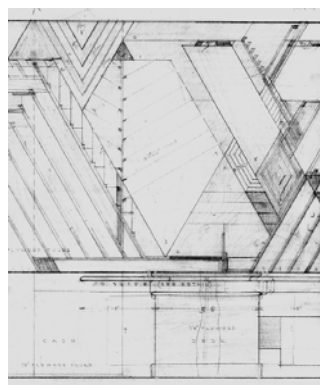
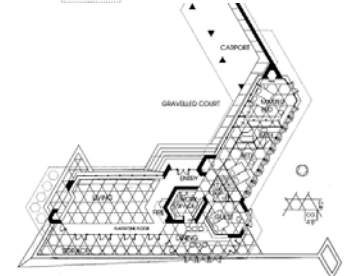
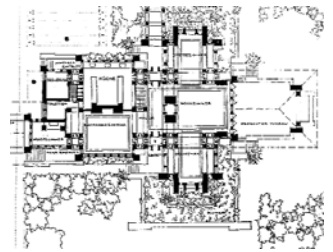
Syllabus S'05

"Frank Lloyd Wright: Precedent, Analysis & Transformation" is an architectural history course that seeks to understand and learn from the design principles of F.L. Wright through a case study method. After a survey introduction to the career and bibliography of F.L. Wright and investigations of several important houses from throughout his career, the class will select one Wright house to analyze and work with in detail for the rest of the semester. The main purpose of the analysis will be to more fully understand a design of F.L. Wright's, especially the interior woodwork, and see if it is possible to uncover "design principles" or "systems" that act like a "kit of parts." A second phase of the course will investigate how these principles might be used to generate or "grow" new designs through various transformations.

The analysis will be broad in scope in order to get at the heart of Wright's complex and intriguing designs. Students will be asked to take field trips to study the building in person, analyze detailed construction and preservation documents, describe the designs in words, drawings, and other media, construct large-scale and analytical models, invent innovative diagrams and graphic representations, abstract and synthesize the designs with reference to nature, geometry and the human body, interpret and interpolate the designs through computer graphics software, and find other innovative ways to explore and analyze the Wright house. In addition, the class will read essays by F.L. Wright on issues such as the "nature of materials" and "breaking the box," read a broad spectrum of existing studies and analyses of Wright's work, as well as explore related topics that may have influenced Wright's work such as his childhood memories of Gothic cathedrals and Froebel blocks, his love of nature and Japanese design, his discovery of Mayan ornament and an "American Architecture," his relationship to the Arts & Crafts, Craftsman, and Roycroft movements, his awareness of the influence of the machine, mechanization and mass production on all cultural production, his desire to solve the problem of housing for the low and middle-income American, and much more. The many references and analysis approaches will then be synthesized into a comprehensive case study analysis report before undertaking preliminary investigations of new designs made possible by the analysis.

This is a "project course" that will explore architectural history through a unique "hands-on" method of learning. It will require much initiative, creativity and synthesis. It will demand cooperation and a teamwork mentality from all the students, the research/teaching assistants, and the instructor. Although a general structure and the final goals for the course have been set, the precise nature of our analysis and learning will evolve over time as we make new discoveries and determine new paths to understanding Wright.

Initiative and special funding for the course came in part from a grant from the Enkeboll Foundation of the Arts and Architecture to study the woodwork in several case studies of historic architecture.



Research/Teaching Assistants: Rebecca Rahmlow <rrahmlow@andrew.cmu.edu>
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Contacts: Use Blackboard to email anyone in the class or the RA's

Initial Schedule of Seminar: Topics, Readings, Assignments, Deadlines, etc

Abbreviations: * = Most important reading!! Pay particular attention!

ER = E-Reserve Reader (see CAMEO reserves)

T = Required textbook

Autobiography = FLW, An Autobiography 2nd ed. (NY: 1943) (Rsv.720.8 W94)

FLWCW = FLW Collected Writings 5 vols. (Rsv: 720.8 W94WCO VOLS. 1 - 5)

Curtis = W. Curtis, Modern Architecture since 1900 3rd ed. (1996)

Note: This schedule is subject to change. See handouts for changes.

Week 1

Mon. Jan. 10 Course Introduction, Expectations, Assignments
Assign: Student teams to do research and analyze Martin Hse. (Prairie) & Pope-Leighy Hse. (Usonian), then create "complete bibliography" and prepare Powerpoint presentation and summary handout on analysis on each house.

* *Handout:* from W.A. Storrer, The FLW Companion (1992) (Ref. 720.8 W94STAAA)
Overview Readings:

ER: T. Hines, "Review Essay" JSAH 54:4 (Dec. 1995): 467-476

ER: H.A. Brooks, "FLW," Encyclopedia of World Art (1967) pp.857-869.

Other Optional FLW Career Overviews:

-- V. Scully, FLW (1960) pp.11-32

-- L. Roth, Concise History of Amer. Arch. pp.200-211, 254-262, 292-294

-- P. Sprague, "FLW" Dictionary of Art, vol.33

-- W. Curtis, Modern Architecture since 1900 3rd ed. (1996) Chs.7,18

-- K. Frampton, Modern Architecture 3rd ed. (1992) Chs.3,21

-- Video: Ken Burns, "FLW" (1998, at Hunt Library)

Wed. Jan. 12 Lec 1: Search for an American Style (Guest Lecture by Diane Shaw)

Readings:

ER: V. Scully, "American Houses, Thomas Jefferson to FLW" in The Rise of an American Architecture ed. E.J. Kaufmann (1970): 163-190ff.

Fri. Jan. 14 Lec. 2: The Domestic Suburb (Guest Lecture by Diane Shaw)

Readings:

* **ER:** G. Wright, "Victorian Suburbs and the Cult of Domesticity," Building the Dream (1981) Ch.6=pp.96-113

Week 2

Mon. Jan. 17 **NO CLASS**, Project Work Session

Each group to meet with TA's (in class, library, studio or cafe) to organize and prepare student presentations

Wed. Jan. 19 Class Presentations on Martin House

DUE: Student Reports on Martin Hse. & Pope-Leighey Hse.

Fri. Jan. 21 Class presentations on Pope-Leighey House

Week 3

Mon. Jan. 24 Lec 3.: FLW Youth, Training, Froebel

Readings:

- * **ER:** W. Cronon, "Inconstant Unity" in T. Riley, FLW (1994), pp.8-31
T: Writings on Wright (1981) pp.23-27 (O. Wright)

Wed. Jan. 26 Discuss readings: "Art & Craft of the Machine"
 Lec. 4: FLW Early Influences: Viollet-le-Duc

Readings:

- * **ER:** FLW, "Art & Craft of the Machine," (1901) in FLWCW vol.1, pp.58-69; in Kaufmann & Raeburn, eds. FLW Writings & Buildings (1960) pp.55-73
T: Writings on Wright pp.103-113 (R.C. Spencer, H. Monrow)

Fri. Jan. 28 Lec. 5 FLW Influences: Hugo, Jones, Arts & Crafts

Week 4

Mon. Jan. 31 Lec. 6: Silsbee & Sullivan's Ornament

Wed. Feb. 2 Lec. 7: Columbian Exposition & Influences: Classical, Japanese, Mayan

Readings:

- ER:** D. Tselos, "FLW and World Architecture," JSAH 28:1 (Mar. 1969): 58-72

Fri. Feb. 4 Lec. 8: Earliest Houses (Own House, Winslow)

Readings:

- ER:** FLW, "Ausgef hrte Bauten" (1910) in FLWCW vol.1, pp.101-115.

Week 5

Mon. Feb. 7 **NO CLASS**, Mid-Mini Break
 (Research trip to Buffalo, Martin House)

Wed. Feb. 9 Lec. 9: Prairie House I (Martin House)

Readings:

- ER:** FLW in Ladies Home Journal (1901/07) in FLWCW vol.1 pp.73-77, 81-83
 Includes essays: "A Home in A Prairie Town," (1901) pp.73-75; "A Small House with `Lots of Room in it'," (1901) pp.76-77; "A Fireproof House for \$5,000," (1907) pp.81-83.
ER: G. Wright, "FLW & Domestic Landscape," in Riley, FLW, pp.80-95.

Fri. Feb. 11 Class presentation on comparative analyses
DUE: Draft of house analysis with respect to theme

Week 6

Mon. Feb. 14 Lec. 10: Prairie House II (Robie House)

Readings:

- * **ER:** FLW, "Cardboard House" (from Mod. Arch., 1931), in FLWCW vol.2 pp.53-59; also in FLW Writings & Buildings pp.37-55
T: Writings on Wright pp.33-50 (E.R. Streich, F.C. Robie), 83-92 (White), 155-193 (R. Banham, R.C. McCormac, H.A. Brooks, N.K. Smith)

Optional:

- ER:** W. Jordy, "The Organic Ideal, FLW's Robie House," in Jordy, American Buildings and their Architects vol.4 (1972) Ch.3 = pp.180-216.

Wed. Feb. 16 Lec: Concrete (Larkin & Unity)
 Discuss Readings "In the Cause of Architecture"

Readings:

- * **ER:** FLW, "In the Cause of Architecture," (1908) in FLWCW vol.1, pp.84-100
ER: Frampton, "Modernization and Mediation," in Riley, FLW, excerpt pp.58-67
T: Writings on Wright pp.115-117 (R. Sturgis)

- Fri. Feb. 18 Lec: Building a New Home: Taliesin
DUE: Analysis Report on House vs. Theme
Readings:
ER: T. Riley, "Landscapes of FLW" in Riley, FLW, pp.96-107

Week 7

- Mon. Feb. 21 Lec: Grand Manner Plans: Imperial Hotel & Midway Gardens
Readings:
T: Writings on Wright pp.1-18 (Ashbee, Mendelsohn, Woolcott, Anon.)
- Wed. Feb. 23 Lec.: California & Desert Diagonals: the Projects of the 1920s
Readings:
T: McCarter, FLW, Ch.9
- Fri. Feb. 25 Lec.: Hagan House
Handout: Hagan House Plans
Readings:
T: Hoffmann, FLW's House at Kentuck Knob (read whole book)

Week 8

- Mon. Feb. 28 Guest Lec.: Hexagons, by Charles Rosenblum
- Wed. Mar. 2 Hagan House Discussion
Readings:
ER: R. McCarter, "The Integrated Ideal: Ordering Principles in the Arch. of FLW," in FLW: A Primer of Arch'l Principles
- Fri. Mar 4 **NO CLASS** Mid-Semester Break
- Mar. 7-11 **SPRING BREAK**

Week 9

- Mon. Mar 14 Lec.: California and Textile Block Houses
Readings:
 * **ER:** Frampton, "Modernization and Mediation," in Riley, FLW, excerpt pp.67-71
- Wed. Mar. 16 FLW School of Architecture
Readings:
Handout: "FLW to Open a Bookless School" NY Times (Aug. 1932)
T: Writings on Wright pp.93-101 (Tafel)
ER: FLW, "The Hillside Home School," (1931) in FLWCW vol.3, pp.39-49
 * **ER:** D.L. Johnson, "Apprenticeship," in FLW vs. America (1990) Ch.5=pp.45-64
ER: H. Saalman, "Arch'l Education at Carnegie Tech, 1905-1977"
- Fri. Mar. 18 Fallingwater & European Modernism
Readings:
 * **ER:** Alofsin, "FLW & Modernism," in Riley FLW, pp.32-57
T: Writings on Wright pp.69-72 (Kaufmann)
- Sun. Mar. 20 **FIELD TRIP** Kentuck Knob, in-depth tour, 9:00-12:00
 Fallingwater, regular tour, 1:00

Week 10

- Mon. Mar. 21 Broadacre City
Readings:
ER: FLW, excerpt from "The New Frontier," in FLWCW vol.4, pp.60-65
T: Writings on Wright 195-206 (March)

Optional

ER: FLW, The Living City (1958) skim entire book; and read closely in FLWCW vol 5, pp.272-276, 335-338

Wed. Mar. 23 Usonian Houses (Rectangular: Jacobs, Pope-Leighy, Rosenbaum, etc)

Readings:

T: Writings on Wright pp.51-68, 75-81 (Pope, Chadwick, Leighy, Afflek, Hanna)

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ER: J. Burns, "Usonian Houses: FLW's Vision of Affordable Housing" in Yesterday's houses of Tomorrow ed. H.W. Jandl (1991) (728.0973 J33Y)

Optional

FLW, Natural House (1954) skim book, esp. "Usonian I", "Usonian II" (Res. 728.08 W94N); also as FLWCW vol.5 pp.77-127 (Reserve).

Fri. Mar. 25 Class Review on Hagan House Analysis

DUE: Hagan Research Project Draft 1

Week 11

Mon. Mar. 28 Usonian Houses II (Hexagonal / Triangular: Hanna, Auldbrass, etc.)

Wed. Mar. 30 Johnson Wax & Wingspread

Readings:

ER Frampton, "Modernization and Mediation," in Riley, FLW, excerpt, pp.71-77

Fri. Apr. 1 Taliesin West

Readings:

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-- N. Levine, Arch. of FLW, Ch.9

Week 12

Mon. Apr. 4 Guggenheim

Optional:

-- Levine, Arch. of FLW, Ch.10, **OR:** W. Jordy, "The encompassing Environment of Free-Form Architecture," in Jordy, American Buildings and their Architects, vol. 5 (= The Impact of European Modernism in the mid-twentieth Century) (1972) pp.279-360

Wed. Apr. 6 FLW's Pittsburgh Plans & Late Projects

Optional:

-- R. Cleary, "Kaufmann, Wright & Pittsburgh," in Merchant Prince & Master Builder (1999) Ch.3 = pp.53-66.

Fri. Apr. 8 Class Review on Hagan House Analysis

DUE: Hagan Research Project Draft 2

Week 13

Mon. Apr. 11 **NO CLASS**

Wed. Apr. 13 Hagan House Analysis Discussion

Fri. Apr. 15 **NO CLASS**, Spring Carnival

Week 14

Mon. Apr. 18 Intro. Hagan Analysis & Transformation Project

DUE: Draft of Context Magazine Images

Wed. Apr. 20 Legacy I (Taliesin Architects, Taliesin Fellows)

Fri. Apr. 22 Legacy II (Goff, Prince, Lautner, "Critical Regionalism")

Week 15 (Review Week)

Mon. Apr. 25 Legacy III (Birkets, Domino's)

Wed. Apr. 27 IN-CLASS Discussion on "Transformation Exercise"

Fri. Apr. 29 Legacy IV (Contemporary Trends)

Exams

Mon. May 8 **DUE:** Final Hagan Research, Analysis and Transformation Project

Bibliography: (from Neil Levine, *The Architecture of FLW* (Princeton 1996) pp. 505-506.

Bibliographical Note

This bibliography does not list all the published and unpublished material used in the research and writing of this book. The complete documentation of works and sources is recorded in the notes. The purpose of the following compendium is to provide a broad and concise overview of the Wright literature and archival collections that may be most useful for further research and study.

Monographs and General Art Historical Studies

The essential documentation of Wright's entire corpus of buildings and projects is:

Bruce Brooks Pfeiffer and Yukio Futagawa, eds., *Frank Lloyd Wright*. Tokyo: A.D.A. EDITA, 1984-88. Vols. 1-8, *Monograph*; vols. 9-11, *Preliminary Studies*; vol. 12, *In His Renderings*.

Until this twelve-volume series containing plans, drawings, and photographs, as well as descriptive texts, became available in the mid-1980s, the fundamental work covering Wright's output up to 1941 was:

Henry-Russell Hitchcock. *In the Nature of Materials: The Buildings of Frank Lloyd Wright, 1887-1941*. New York: Duell, Sloan and Pearce, 1942. Rpt., with a new foreword and bibliography by the author, New York: Da Capo Press, 1975.

The Hitchcock text remains an authoritative analysis of Wright's career and formal development. Other general studies that offer significant interpretive advances are:

Bruno Zevi. *Frank Lloyd Wright*. Milan: Il Balcone, 1947.
 Vincent Scully Jr. *Frank Lloyd Wright*. Masters of World Architecture Series. New York: George Braziller, 1960.
 Norris Kelly Smith. *Frank Lloyd Wright: A Study in Architectural Content*. Orig. pub. 1966. Rev. ed. Watkins Glen, N.Y.: American Life Foundation & Study Institute, 1979.

Studies of Individual Buildings or Groups of Buildings

Most important studies of Wright since the late 1970s have focused on a single period, an individual building, or a group of typologically related buildings. References to these writings will be found in the relevant notes. For convenience, the following is a list of notes containing bibliographies for buildings or projects discussed at some length in the text:

Oak Park House and Studio: Chapter I, note 19; Chapter II, note 5.
 Winslow House: Chapter I, note 39.
 Willits House: Chapter II, note 21.
 Larkin Building: Chapter II, note 33.
 Unity Temple: Chapter II, note 40.
 Robie House: Chapter II, note 56.
 Taliesin: Chapter IV, note 3.
 Imperial Hotel: Chapter V, note 2.
 Hollyhock House and Olive Hill Cultural Center: Chapter V, note 41.
 Textile-block houses and designs: Chapter VI, notes 13, 17, 25.

Johnson Death Valley Compound: Chapter VI, notes 43, 46.
 Ocatilla and San Marcos-in-the-Desert Hotel: Chapter VII, notes 45, 59.
 Broadacre City: Chapter VII, note 21.
 Fallingwater: Chapter VII, note 32.
 Taliesin West: Chapter IX, note 1.
 Johnson Wax Company: Chapter X, note 20.
 Florida Southern College: Chapter X, note 33.
 Guggenheim Museum: Chapter X, notes 40, 130, 167, 188.
 Morris Shop: Chapter XI, note 1.
 Masieri Memorial: Chapter XI, notes 38, 50.
 Baghdad Opera House, Cultural Center, and University: Chapter XI, notes 57, 66, passim.
 Marin County Civic Center: Chapter XI, notes 124, 130.

Biographies

The biographical component of the study of Wright's architecture has always been an important one. Three recent biographies stand out either for their critical approach to the subject or for the new information they provide:

Robert C. Twombly. *Frank Lloyd Wright: His Life and His Architecture*. New York: John Wiley & Sons, Wiley-Interscience Publication, 1979. Rev. and exp. version of *Frank Lloyd Wright: An Interpretive Biography*. New York: Harper & Row, 1973.
 Brendan Gill. *Many Masks: A Life of Frank Lloyd Wright*. New York: G. P. Putnam's Sons, 1987.
 Meryle Secrest. *Frank Lloyd Wright*. New York: Alfred A. Knopf, 1992.

For other biographies, see Introduction, note 19.

For published correspondence, talks, interviews, miscellaneous writings, and personal recollections of those who knew and/or worked with Wright, see Introduction, note 15, and Chapter XI, note 3.

Significant Publications of Wright's Work during His Lifetime

Among the most important primary sources for understanding Wright's architecture in its historical context are the publications of his work in his lifetime. Key among these are:

Robert C. Spencer Jr. "The Work of Frank Lloyd Wright." *Architectural Review* (Boston) 7 (June 1900): 61-72.
 Frank Lloyd Wright. "In the Cause of Architecture." *Architectural Record* 23 (March 1908): 155-221. Repr. in Frederick Gutheim, ed., *In the Cause of Architecture, Frank Lloyd Wright: Essays by Frank Lloyd Wright for Architectural Record, 1908-1952*. New York: Architectural Record Books, 1975.
 ——. *Ausgeführte Bauten und Entwürfe von Frank Lloyd Wright*. Berlin: Ernst Wasmuth, 1910[-11]. Republished in Japanese (1916), German (1924, 1986), and English. The American editions have carried the following titles: *Buildings, Plans, and Designs*. New York: Horizon Press, 1963; *Studies and Executed Buildings by Frank Lloyd Wright; Ausgeführte Bauten und Entwürfe von Frank Lloyd Wright*. Palos Park, Ill.: Prairie School Press, 1975; *Drawings and Plans of Frank Lloyd Wright: The Early Period (1893-1909)*. New York: Dover, 1983; and *Studies and Executed Buildings by Frank Lloyd Wright*. New York: Rizzoli, 1986.
 ——. *Frank Lloyd Wright: Ausgeführte Bauten*. Berlin: Ernst Wasmuth, 1911. Republished in English as *Frank Lloyd Wright: The Early Work*. New York: Horizon Press, 1968; and *The Early Work of Frank Lloyd Wright: The "Ausgeführte Bauten" of 1911*. New York: Dover, 1982.
 H[endrikus] Th[eodorus] Wijdeveld, ed., *The Life-Work of the American Architect Frank Lloyd Wright*. Santpoort, Holland: C. A. Mees, 1925. Orig. pub. "Frank Lloyd Wright." *Wendingen* 7, nos. 3-9 (1925): 1-164. Repub-

- lished as *The Work of Frank Lloyd Wright: The Wendingen Edition*. New York: Horizon Press, 1965; and *Frank Lloyd Wright: The Complete "Wendingen" Series*. New York: Dover, 1992.
- H[einrich] de Fries, ed., *Frank Lloyd Wright: Aus dem Lebenswerke eines Architekten*. Berlin: Ernst Pollak, 1926.
- Jean Badovici. "Frank Lloyd Wright." *Architecture Vivante* 8 (Summer 1930): 49-76.
- "Frank Lloyd Wright." *Architectural Forum* 68 (January 1938): 1-102. Entire issue devoted to Wright.
- "Frank Lloyd Wright." *Architectural Forum* 88 (January 1948): 65-156. Entire issue devoted to Wright.
- Werner M. Moser. *Frank Lloyd Wright: Sechzig Jahre lebendige Architektur; Sixty Years of Living Architecture*. Winterthur and Munich: Verlag Buchdruckerei Winterthur AG, Hermann Rinn, 1952.
- "Frank Lloyd Wright: A Selection of Current Work." *Architectural Record* 123 (May 1958): 167-90.

- . *The Disappearing City*. New York: William Farquhar Payson, 1932. New ed., rev. and enl. *When Democracy Builds*. Chicago: University of Chicago Press, 1945. New ed., rev. and enl. *The Living City*. New York: Horizon Press, 1958. Repr. in Pfeiffer, vol. 3.
- Baker Brownell and Frank Lloyd Wright. *Architecture and Modern Life*. New York and London: Harper & Brothers, 1937. Chapters by Wright repr. in Pfeiffer, vol. 3.
- Frank Lloyd Wright. *An Organic Architecture: The Architecture of Democracy*, Sir George Watson Lectures of the Sulgrave Manor Board for 1939. London: Lund Humphries, 1939. Repr. in Pfeiffer, vol. 3.
- . *Genius and the Mobocracy*. New York: Duell, Sloan and Pearce, 1949. Repr. in Pfeiffer, vol. 4.
- . *The Natural House*. New York: Horizon Press, 1954. Repr. in Pfeiffer, vol. 5.
- . *A Testament*. New York: Horizon Press, 1957. Repr. in Pfeiffer, vol. 5.

Wright's Own Writings

A number of collections of Wright's writings exist:

- Frederick Gutheim, ed., *Frank Lloyd Wright on Architecture: Selected Writings, 1894-1940*. New York: Duell, Sloan and Pearce, 1941.
- Edgar Kaufmann and Ben Raeburn, eds., *Frank Lloyd Wright: Writings and Buildings*. Cleveland and New York: Meridian Books, World Publishing, 1960.
- Bruce Brooks Pfeiffer, ed., *Frank Lloyd Wright: Collected Writings*, 5 vols. New York: Rizzoli, Frank Lloyd Wright Foundation, 1992-95. Vol. 1, 1894-1930; vol. 2, 1930-1932; vol. 3, 1931-1939; vol. 4, 1939-1949; vol. 5, 1949-1959.

Perhaps the single most important document of Wright's thoughts on architecture and life in general is:

- Frank Lloyd Wright. *An Autobiography*. London, New York, and Toronto: Longmans, Green, 1932. New ed., rev. and enl. New York: Duell, Sloan and Pearce, 1943. New ed., rev. and enl. New York: Horizon Press, 1977. Repr. in Pfeiffer, vols. 2, 4.

Among the other texts that most fully represent the evolution of his thinking are:

- Frank Lloyd Wright. "The Art and Craft of the Machine." Orig. pub. Catalogue of the *Fourteenth Annual Exhibition of the Chicago Architectural Club*. 1901, n.p. Repr. in Kaufmann and Raeburn; and Pfeiffer, vol. 1.
- . "In the Cause of Architecture." *Architectural Record* 23 (March 1908): 155-65. Repr. in Gutheim, *In the Cause of Architecture*; and Pfeiffer, vol. 1.
- . Introduction, *Ausgeführte Bauten und Entwürfe von Frank Lloyd Wright*. Berlin: Ernst Wasmuth, 1910[-11], n.p. Repr. in Pfeiffer, vol. 1.
- . *The Japanese Print: An Interpretation*. Orig. pub. 1912. Rpt. New York: Horizon Press, 1967. Repr. in Pfeiffer, vol. 1.
- . "In the Cause of Architecture." Parts 1-5. *Architectural Record* 62 (May, June, August, and October 1927): 394-96, 478-80, 163-66, 318-21, 322-24. Repr. in Gutheim, *In the Cause of Architecture*; and Pfeiffer, vol. 1.
- . "In the Cause of Architecture." Parts 1-9. *Architectural Record* 63 (January, February, April, May, and June 1928): 49-57, 145-51, 350-56, 481-88, 555-61; 64 (July, August, October, and December 1928): 10-16, 98-104, 334-42, 507-14. Repr. in Gutheim, *In the Cause of Architecture*; and Pfeiffer, vol. 1.
- . *Modern Architecture, Being the Kahn Lectures for 1930*. Princeton: Princeton University Press, 1931. Repr. in Frank Lloyd Wright. *The Future of Architecture*. New York: Horizon Press, 1953; and Pfeiffer, vol. 2. A reprint edition of the original text was published by Southern Illinois University Press (Carbondale and Edwardsville, Ill.) in 1987.

Research Tools and Archival Collections

The definitive bibliography of writings by and about Wright up to 1977 is:

- Robert L. Sweeney. *Frank Lloyd Wright: An Annotated Bibliography*. Art and Architecture Bibliographies, no. 5. Los Angeles: Hennessey & Ingalls, 1978.

The most comprehensive guide to Wright's buildings is:

- William Allin Storrer. *The Frank Lloyd Wright Companion*. Chicago and London: University of Chicago Press, 1993. This is a much expanded and revised version of *The Architecture of Frank Lloyd Wright: A Complete Catalog*. Orig. pub. 1974. 2d ed., rev. and enl. Cambridge, Mass., and London: MIT Press, 1978.

The voluminous Wright correspondence preserved in the Frank Lloyd Wright Archives at the Frank Lloyd Wright Foundation, Taliesin West, is indexed in:

- Anthony Alofsin, ed., *Frank Lloyd Wright: An Index to the Taliesin Correspondence*. 5 vols. New York and London: Garland, 1988.

The many collections containing archival materials on Wright can be found in:

- Patrick J. Meehan, ed., *Frank Lloyd Wright: A Research Guide to Archival Sources*. New York and London: Garland, 1983.

The most important collection of original drawings, correspondence, manuscripts, photographs, works of art, and other archival materials is:

- Frank Lloyd Wright Archives, Frank Lloyd Wright Foundation, Taliesin West, Scottsdale, Ariz.

Other significant holdings can be found in:

- Research Center, Frank Lloyd Wright Home and Studio Foundation. Chicago.
- Manuscript Division, Library of Congress, Washington, D.C.: Frank Lloyd Wright Papers, 1894-1940.
- University Archives, State University of New York, Buffalo: Frank Lloyd Wright-Darwin D. Martin Papers, MS 22.8; Jaroslav Joseph Polivka. Papers Concerning Frank Lloyd Wright, 1945-1959, MS 48.
- Department of Special Collections, Stanford University Libraries. Stanford, Calif.: Frank Lloyd Wright-Darwin D. Martin Papers. MS 355.
- Drawings and Archives, Avery Architectural and Fine Arts Library. Columbia University, New York: John Lloyd Wright Collection; Edgar Kaufmann-Fallingwater Collection.
- Manuscripts Division, Special Collections, University of Utah Libraries. Salt Lake City: Taylor Woolley Archive, MS 452; Clifford Evans Scrapbooks. MS 466.
- Archivo de Arquitectura y Construcción, Escuela de Arquitectura, Universidad de Puerto Rico, San Juan: Henry Klumb Archive.