

COLUMBIA UNIVERSITY

GRADUATE SCHOOL OF ARCHITECTURE, PLANNING AND PRESERVATION

Spring 2018

ARCHA4349-003: QUESTIONS IN ARCH HISTORY II

Faculty: John Harwood

Teaching Fellows: Caitlin Blanchfield, Oskar Orn Arnorsson

Avery 409, F 12-2pm

Columbia University GSAPP—Spring 2018

Course Description

This two-semester introductory course is organized around selected questions and problems that have, over the course of the past two centuries, helped to define architecture's modernity. Following Questions in Architectural History 1, the Spring semester similarly treats the history of architectural modernity throughout the twentieth century as a contested, geographically and culturally uncertain category, for which periodization is both necessary and contingent. Organized thematically more than chronologically, the Spring semester also situates developments in Europe and North America in relation to worldwide processes including trade, imperialism, nationalism, and industrialization. These historical forces are transformed and complicated by forms of internationalism, post-nationalism and globalization as they encounter the impact of new generations of technology and new social, scientific, institutional, and subjective formations. As with QAH1, the course considers specific questions and problems that form around differences that are also connections, antitheses that are also interdependencies, and conflicts that are also alliances. The resulting tensions animated architectural discourse and practice throughout the period, and continue to shape our present.

Objects, ideas, and events will move in and out of the European and North American frame, with a strong emphasis on relational thinking and contextualization. This includes a historical, relational understanding of architecture itself. Although the Western tradition had recognized diverse building practices as "architecture" for some time, an understanding of architecture as an academic discipline and as a profession, which still prevails today, was only institutionalized in the European nineteenth century. Thus, what we now call architecture was born not long ago, as a discourse and a practice conceived in relation to others variously described as ancient, vernacular, native, or pre-modern.

The course also treats categories like modernity, modernization, and modernism in a relational manner. Rather than presuppose the equation of modernity with rationality, for example, the course asks: How did such an equation arise? Where? Under what conditions? In response to what? Why? To what end? Similar questions pertain to the idea of a "national" architecture, or even a "modern" one. To explore these and other questions, the course stresses contact with primary sources. Many of these buildings,

projects, and texts we will encounter have long been incorporated into well-developed historical narratives, mostly centered on Europe. Others have not. Our aim, however, is not to replace those narratives with a more inclusive, “global” one. It is to explore questions that arise, at certain times and in certain places, when architecture is said to possess a history.

The course therefore prioritizes discussion and critical reflection. Students will be assigned to one of three seminar-style classes, each led by a different faculty member in collaboration with a teaching assistant. In addition, PhD Teaching Fellows (TFs) will conduct smaller weekly sessions intended to support and elaborate upon the main class. Faculty members may present examples of relevant buildings and projects from among those listed at their discretion.

Overall, the aim is a semester-long dialogue, with active student participation, that unfolds, explores, and contextualizes questions and problems that inform and challenge the historical imagination and ultimately, enhance historical consciousness.

Course Requirements

Required readings are listed under the heading of each lecture, and marked with an asterisk (*). Recommended readings are also listed below these required readings.

Each student in the course must produce an annotated bibliography of **all** required readings for the course **and** the source materials for their research paper. This bibliography must be submitted at the end of term. Guidelines for maintaining an annotated bibliography and details on evaluation will be available in a separate document made available to all students at the beginning of the semester.

Each student must also complete a 10-page (double-spaced, 12-pt font) research paper on a topic related to the subject matter treated in the course. Guidelines for researching and writing the paper and details on evaluation will be available in a separate document made available to all students at the beginning of the semester. Each student will be required to submit an abstract of their proposed research project no later than February 23.

Grading

Grades for the course will be weighted as follows:

Class participation: 30%

Research paper abstract: 10%

Annotated bibliography: 30%

Research paper: 30%

Extra credit may be earned on the annotated bibliography. If a student reads and annotates ten or more texts from the recommended reading, a bonus of 10% will be added to her/his/zer mark in the course.

Students with limited experience in writing research papers or writing in academic English are strongly encouraged to seek support at the Columbia College Writing Center: <http://www.college.columbia.edu/core/uwp/writing-center>

Students should adhere to standard guidelines regarding academic honesty, such as those described in the GSAS Statement on Academic Honesty, available at: <http://www.columbia.edu/cu/gsas/rules/chapter-9/pages/honesty/index.html>

Course Materials

All required course materials are available on the Canvas (formerly Courseworks) website, or elsewhere online if indicated below.

Students with less background in histories of twentieth century architecture are also advised to consult additional literature available in Avery Library, including:

1. Reyner Banham, *Theory and Design in the First Machine Age* (Cambridge: MIT Press, 1980 [1960]).

Leonardo Benevolo, *History of Modern Architecture, Volume 2: The Modern Movement*, trans. H. J. Landry (Cambridge, MA: MIT Press, 1977).

Jean-Louis Cohen, *The Future of Architecture, since 1889* (London and New York: Phaidon, 2012). Alan Colquhoun, *Essays in Architectural Criticism: Modern Architecture and Historical Change*

(Cambridge: MIT Press, 1981). Alan Colquhoun, *Modern Architecture* (New York: Oxford, 2002).

Beatriz Colomina, *Privacy and Publicity: Modern Architecture as Mass Media* (Cambridge: MIT Press, 1994).

Kenneth Frampton, *Modern Architecture: A Critical History*, Fourth ed. (London: Thames and Hudson, 2007).

Kenneth Frampton, *A Genealogy of Modern Architecture: A Comparative Critical Analysis of Built Form* (Zürich: Lars Müller Publishers, 2016).

Sarah Williams Goldhagen and Réjean Legault, eds. *Anxious Modernisms: Experimentation in Postwar Architectural Culture* (Cambridge: MIT Press, 2000).

Reinhold Martin, *The Organizational Complex: Architecture, Media, and Corporate Space* (Cambridge: MIT Press, 2003).

Felicity D. Scott, *Architecture or Techno-Utopia: Politics after Modernism* (Cambridge: MIT Press, 2007).

Manfredo Tafuri, *The Sphere and the Labyrinth: Avant-Gardes and Architecture from Piranesi to the 1970's*, trans. Pellegrino and Robert Connolly d'Acierno (Cambridge: MIT Press, 1987).

Mark Wigley, *White Walls, Designer Dresses: The Fashioning of Modern Architecture* (Cambridge: MIT Press, 1995).

SCHEDULE OF CLASSES

January 19

1. Introduction to the Course: Modernity and Its Discontents

[NB: There is no required reading for the first week of class.]

Aggregate, *Governing by Design: Architecture, Economy and Politics in the Twentieth Century*, ed. Daniel M. Abramson, Arindam Dutta, Timothy Hyde and Jonathan Massey (Pittsburgh: University of Pittsburgh Press, 2012).

David Harvey, *A Companion to Marx's Capital* (London and New York: Verso, 2010).

Immanuel Kant, "What is Enlightenment?" in: Kant, *Foundations of the Metaphysics of Morals and What is Enlightenment?*, trans. Lewis White Beck, 2nd ed. (New York: Macmillan; London: Collier Macmillan, 1990).

Immanuel Kant, *The Critique of Pure Reason* [1781, 2nd ed. 1787; also known as "The First Critique"], trans. J.M.D. Meiklejohn (Amherst, NY: Prometheus Books, 1990), esp. 21-43.

Immanuel Kant, *The Critique of Judgment* [1790; also known as "The Third Critique"], trans. J.H. Bernard (Amherst, NY: Prometheus Books, 2000), pp. 132-228

Bruno Latour, *We Have Never Been Modern*, trans. Catherine Porter (Cambridge, MA: Harvard University Press, 1993).

Andrew Leach, *What is Architectural History?* (London: Polity, 2010).

Karl Marx, *Capital: A Critique of Political Economy*, trans. Ben Fowkes (New York: Vintage Books, 1977)

January 26

2. Historicisms: What is Modern about Modern or Modernist Architecture?

* Friedrich Nietzsche, "On the Advantage and Disadvantage of History for Life," in Nietzsche, *Untimely Mediations*, ed. Daniel Breazeale, trans. R.J. Hollingdale (Cambridge and New York: Cambridge University Press, 1997).

* Raymond Williams, *Keywords: A vocabulary of culture and society*, 2nd ed. (New York: Oxford University Press, 1983), "MODERN," pp. 208-209.

* Karl Popper, "Preface" and "Introduction" to *The Poverty of Historicism*, 3rd ed. (London: Routledge and Kegan Paul, 1961): vi-viii, 1-4.

Le Corbusier, *Toward an Architecture*, trans. John Goodman (Los Angeles: Getty, 2007).

G.W.F. Hegel, *Aesthetics: Lectures on Fine Art* [1818-1829, published 1835], trans. T.M. Knox (Oxford and New York: Clarendon Press, 1975), parts 1 and 2.

Georg Wilhelm Friedrich Hegel, *Introductory Lectures on Aesthetics*, trans. Bernard Bosanquet (London et al: Penguin, 2004), 3-97.

Jean-Luc Nancy, *Hegel: The Restlessness of the Negative*, trans. Jason Smith and Steven Miller (Minneapolis and London: University of Minnesota Press, 2002).

Rosalind Krauss, "The Originality of the Avant-Garde" [1981], in: Krauss, *The Originality of the Avant-Garde and Other Modernist Myths* (Cambridge, MA: MIT Press, 1985), 151-170.

Michael Bakunin, *Statism and Anarchy*, trans. and ed. Marshall Shatz (Cambridge: Cambridge University Press, 1990): pp. 129-168.

February 2

3. Organicisms

* Hermann Muthesius, "Aims of the Werkbund," and Hermann Muthesius and Henry Van de Velde, "Werkbund theses and antitheses," in: Conrads, ed., *Programs and Manifestoes of 20th-Century Architecture*, trans. Michael Bullock (Cambridge, MA: MIT Press, 1971): pp. 26-31.

* Joseph Rykwert, "Organic and Mechanical," *Res* 22 (Autumn 1992): 11-18.

* Georges Canguilhem, "The Living and Its Milieu," *Grey Room* 3 (Spring 2001): 7-31.

Le Corbusier, *Precisions on the Present State of Architecture and City Planning*, trans. Edith Schreiber Aujame (New York: Park Books, 2015).

Frank Lloyd Wright, "The Art and Craft of the Machine," address to the Chicago Arts and Crafts Society, March 6, 1901.

Louis Sullivan, *Autobiography of an Idea* [1924] (Mineola, NY: Dover, 1956).

Georges Canguilhem, "Qu'est-ce que la psychologie?" *Revue de Métaphysique et de Morale*, 63e Année, n. 1 (January-March 1958): 12-25.

Zeynep Çelik Alexander, *Kinaesthetic Knowing: Aesthetics, Epistemology, Modern Design*(Chicago and London: University of Chicago Press, 2017), esp. chaps. 3 and 5.

Paul Greenhalgh, ed., *Art Nouveau, 1890-1914* (New York: Abrams, 2000).

February 9

4. Materialisms

* Otto Wagner, selection from *Modern Architecture* [1896] in: Mallgrave and Contandriopoulos, *Architectural Theory Volume II: An Anthology from 1871-2005* (Malden, Oxford and Victoria: Blackwell, 2008): 93-95.

* Adolf Loos, "Interior Design: Prelude" [1898] and "Ornament and Crime" [1908; 1929], reprinted in Loos, *Ornament and Crime: Selected Essays*, trans. Michael Mitchell (Riverside, CA: Ariadne Press, 1998): 51-56, 167-176.

* Peter Behrens, selection from "Art and Technology" [1910], in: Mallgrave and Contandriopoulos, pp. 106-107.

Richard Anderson, "Introduction: An End to Speculation," in: Ludwig Hilberseimer, *Metropolisarchitecture*, ed. Richard Anderson, trans. Richard Anderson and Julie Dawson

The Wonders of Machinery Hall: World's Columbian Exposition—Chicago 1893 [reprinted articles from *American Machinist Magazine*, 1892-93, and Shepp's *World's Fair Photographed*] (Bradley, IL: Lindsay Books, 2012), esp. 4-26, 168-191.

Francis S. Onderdonk, *The Ferro-Concrete Style* [1928] (Santa Monica, CA: Hennessey & Ingalls, 1998).

Frederic J. Schwartz, *The Werkbund: Design Theory and Mass Culture before the First World War* (New Haven and London: Yale University Press, 1996).

Stanford Anderson, *Peter Behrens and a New Architecture for the Twentieth Century*(Cambridge, MA and London: MIT Press, 2000).

Tilman Buddensieg and Henning Rogge, eds., *Industriekultur: Peter Behrens and the AEG, 1907-1914*, trans. Iain Boyd White (London and Cambridge, MA: MIT Press, 1984).

February 16

5. War in the 20th Century

* F. T. Marinetti, "The Founding and Manifesto of Futurism" [1909], in: R.W. Flint, ed., *Marinetti: Selected Writings* (New York: Farrar, Straus & Giroux, 1972): 39-44.

* Paul Virilio, "Military Space," in *Bunker Archeology*, trans. George Collins (New York: Princeton Architectural Press, 1994 [1975]): 17-23.

* Sigfried Giedion, "Man in Equipose," in *Mechanization Takes Command: A Contribution to Anonymous History* (New York: Oxford University Press, 1948): 714-723.

* Peter Galison, "War Against the Center," *Grey Room* 4 (Summer 2001): 5-33.

Jean-Luc Nancy, *The Ground of the Image*, trans. Jeff Fort (New York: Fordham University Press, 2005), esp. chap. 2 "Image and Violence."

Jean-Louis Cohen, *Architecture in Uniform: Designing and Building for the Second World War* (Paris: Éditions Hazan, 2011).

Paul Virilio, *Popular Defense and Ecological Struggles*, trans. Mark Polizzotti (New York: Semiotext(e), 1989).

George C. Thorpe, *Pure Logistics: The Science of War Preparation* [1917] (Washington, DC: National Defense University Press, 1986).

John Harwood, "The Other End of the Trajectory: Danger Zones," *Grey Room* 54 (Winter 2014): 80-106.

February 23

6. The Corporate Form

* Reinhold Martin "Atrocities. Or, Curtain Wall as Mass Medium," *Perspecta* 32: *Resurfacing Modernism* (2001), 66-75.

* Reinhold Martin, *The Organizational Complex: Architecture, Media and Corporate Space* (Cambridge, MA and London: MIT Press, 2003), chap. 3.

* John Harwood, "Corporate Abstraction," in: Joseph Clarke and Zachary Heineman, eds., *"Error": Perspecta: The Yale Architectural Journal* 46 (2013): 218-247.

* Gilles Deleuze, "Postscript on the Societies of Control," *October* 59 (Winter 1992): 3-7.

Louise A. Mazingo, *Pastoral Capitalism: A History of Suburban Corporate Landscapes*(Cambridge, MA and London: MIT Press, 2011).

Adolf Berle and Gardiner C. Means, *The Modern Corporation and Private Property* [1932] (New Brunswick, NJ: Transaction Publishers, 2007).

Alfred P. Chandler, *The Visible Hand: The Managerial Revolution in American Business*(Cambridge, MA and London: Belknap Press, 1977).

Ronald Coase, *The Nature of the Firm: Origins, Evolution, and Development*, ed. Oliver E. Williamson and Sidney G. Winter (Oxford and New York: Oxford University Press, 1991).

John Harwood, *The Interface: IBM and the Transformation of Corporate Design, 1945-1976*(Minneapolis and London: University of Minnesota Press, 2011).

March 2

7. Erosions of Colonialism I, Inside and Out

* Dianne Harris, *Little White Houses: How the Postwar Home Constructed Race in America*(Minneapolis and London: University of Minnesota Press, 2013), 1-58.

* Editors, "A Discussion on the Global and Universal," *Grey Room* 61 (Fall 2015): 66-127.

Swati Chattopadhyay, *Representing Calcutta: Modernity, Nationalism and the Colonial Uncanny* (London: Routledge, 2005).

Arindam Dutta, *The Bureaucracy of Beauty: Design in the Age of Its Global Reproducibility*(London: Routledge, 2006).

Nnamdi Elleh, *Architecture and Power in Africa* (Santa Barbara, CA et al: Praeger, 2002).

Nnamdi Elleh, ed., *Reading the Architecture of the Underprivileged Classes* (London: Routledge, 2014).

Pancho Guedes: Vitruvius Mozambicanus (Lisbon: Museu Coleção Berardo, 2009).

Nicholas Bullock, *Building the Post-War World: Modern Architecture and Reconstruction in Britain* (London: Routledge, 2002).

Zeynep Celik, "Le Corbusier, Orientalism, Colonialism," *Assemblage* 17 (1992): 59-77.

Eric Mumford, "The Functional City, 1931-1939," in *The CIAM Discourse on Urbanism, 1928-1960* (Cambridge: MIT Press, 2000): 59-130.

Mark Crinson, "Dialects of Internationalism: Architecture in Ghana, 1945-66," in *Modern Architecture and the End of Empire* (Burlington, VT: Ashgate, 2003): 127-156.

Robert Alexander Gonzalez, *Designing Pan-America: U.S. Architectural Visions for the Western Hemisphere* (Austin, TX: University of Texas Press, 2011).

Pyla Panayiotou, "'Back to the Future': Doxiadis' Plan for Baghdad," *Journal of Planning History* 7, no. 3 (February 2008): 3-19.

March 9

8. Erosions of Colonialism 2, Recolonizations

* Lucia Allais, "The Design of the Nubian Desert: Monuments, Mobility, and the Space of Global Culture," in: Aggregate, *Governing by Design: Architecture, Economy, and Politics in the Twentieth Century* (Pittsburgh, PA: University of Pittsburgh, 2012).

* Eyal Weizman, *Hollow Land: Israel's Architecture of Occupation* (London and New York: Verso, 2007), chaps. 1-2 (chaps. 7-8 also highly recommended).

* Ijlal Muzaffar, "Fuzzy Images: The Problem of Third World Development and the New Ethics of Open-ended Planning at the Joint Center of Urban Studies at Harvard and MIT," in: Arindam Dutta, ed., *A Second Modernism: Architecture and MIT in the PostWar* (Cambridge, MA and London: MIT Press, 2013), 310-341.

Charles Correa, "Chandigarh: The View from Benares," and Manfredo Tafuri, "'Machine et mémoire': The City in the Work of Le Corbusier," in: H. Allen Brooks, ed., *Le Corbusier* (Princeton, NJ: Princeton University Press, 1987), 197-218.

Lucia Allais, "Integreties: The Salvage of Abu Simbel," *Grey Room* 50 (Winter 2013): 6-45.

Pamela Karimi, "Dwelling, Dispute, and the Space of Modern Iran," in *Governing by Design: Architecture, Economy, and Politics in the Twentieth Century*, ed. Aggregate Architectural History Collaborative (Pittsburgh: University of Pittsburgh Press, 2012): 119-46.

Akos Moravansky, "Peripheral Modernism: Charles Polányi and the Lessons of the Village," *Journal of Architecture* 17, no. 3 (June 2012): 333-59.

Experimentation in Postwar Architectural Culture, ed. Sarah Williams Goldhagen and Réjean Legault (Cambridge: MIT Press, 2000): 215-37.

March 16

NO CLASS—SPRING BREAK

March 23

9. Tranche Warfare: Signalization and Financialization

* Vilém Flusser, *Into the Universe of Technical Images*, trans. Nancy Ann Roth (Minneapolis and London: University of Minnesota Press, 2011), 3-60.

* Joseph Vogl, "Taming Time: Media of Financialization," trans. Christopher Reid, *Grey Room* 46 (Winter 2012): 72-83.

* Friedrich A. Kittler, "There is No Software," in: *Essays: Literature Media Information Systems*, ed. John Johnston (Amsterdam: OPA, 1997).

* Mark Wigley, "Network Fever," *Grey Room* 4 (Summer 2001): 82-122.

Reinhold Martin, *Utopia's Ghost: Architecture and Postmodernism, Again* (Minneapolis and London: University of Minnesota Press, 2010).

Richard Anderson, "A Screen That Receives Images by Radio," *AA Files* 67 (2013): 3-15.

Peter Cook, *Experimental Architecture* (New York: Universe Books, 1970).

Ugo La Pietra, "The Domicile Cell: A Microstructure," in *Italy: The New Domestic Landscape: Achievements and Problems of Italian Design*, ed. Emilio Ambasz (New York: The Museum of Modern Art, 1972): 226-31.

Daniel Bell, *The Coming of Post-Industrial Society: A Venture in Social Forecasting* [1973] (New York: Basic Books, 1999).

Francis Fukuyama, *The End of History and the Last Man* [1992] (New York: Free Press, 2006).

David Harvey, *The Condition of Postmodernity* (Oxford, UK: Blackwell, 1990).

John Harwood, "Wires, Walls and Wireless: Notes Toward an Investigation of the Architecture of Radio," *Media-N* 10, n. 1 "Art & Infrastructures: Hardware" (Spring 2014), available at: <http://median.newmediacaucus.org/>.

Sean Keller, "Fenland Tech: Architectural Science in Postwar Cambridge," *Grey Room* 23 (Spring 2006): 40-65.

Andrew Leach, *Crisis on Crisis* (Basel: Standpunkte, 2017).

Ernest Mandel, *Late Capitalism* [1972] (New York and London: Verso, 2014).

David Graeber, *Debt: The First 5,000 Years* (New York: Melville House, 2011).

Felicity D. Scott, "DISCOURSE, SEEK, INTERACT," in *Outlaw Territories: Environments of Insecurity/Architectures of Counter-Insurgency* (New York: Zone Books, 2016): 339-382.

Joseph Vogl, *The Specter of Capital* (Stanford: Stanford University Press, 2014).

March 30

10. Revolutions and Crypto-revolutions

* Henri Lefebvre, "The Right to the City" [1967], Superstudio, "Invention Design and Evasion Design" [1967], Paul Davidoff, "Democratic Planning" [1967], Strike Committee, École des Beaux-Arts, "Motion of May 15" [1968], and Hans Hollein, "Everything is Architecture" [1968], in: Joan Ockman and Edward Eigen, eds., *Architecture Culture 1943-1968* (New York: Columbia GSAPP/Rizzoli, 1993), 427-445, 456-462.

* Superstudio, "Twelve Cautionary Tales for Christmas: Premonitions of the Mystical Rebirth of Urbanism", *Architectural Design* 42 (December 1971): 737-742.

* Ann Charters, ed., *The Portable Sixties Reader* (London et al: Penguin, 2003), Timothy Leary, "Turning on the World," 331-342.

Reinhold Martin, "The Dialectic of the University: His Master's Voice," *Grey Room* 60 (Summer 2015): 82-109.

Saul Alinsky, *Rules for Radicals* (New York: Random House, 1971).

Fred Turner, *From Counterculture to Cyberculture: Stewart Brand, the Whole Earth Network, and the Rise of Digital Utopianism* (Chicago and London: University of Chicago Press, 2008).

Manfredo Tafuri, *The Sphere and the Labyrinth*, trans. Pellegrino and Robert Connolly d'Acierno (Cambridge, MA: MIT Press, 1987).

April 6

11. Autonomies: Subjects in Retreat

* Bruno Taut, "The New Dwelling: The Woman as Creator" (1924), trans. Don Reneau, in *The Weimar Republic Sourcebook*, ed. Anton Kaes, Martin Jay and Edward Dimendberg (Berkeley: University of California Press, 1994): 461-62.

* Grete Lihotzky, "Rationalization in the Household" (1926-27), trans. Don Reneau, in *The Weimar Republic Sourcebook*, 462-465.

* Felicity D. Scott, *Outlaw Territories: Environments of Insecurity/Architectures of Counterinsurgency* (Cambridge, MA: MIT Press / New York: Zone Books, 2016), Introduction and chap. 1.

John Harwood, "The Interface: Ergonomics and the Aesthetics of Survival," in: Aggregate, *Governing by Design: Architecture, Economy and Politics in the Twentieth Century*, ed. Daniel M. Abramson, Arindam Dutta, Timothy Hyde and Jonathan Massey (Pittsburgh: University of Pittsburgh Press, 2012), 70-94.

Felicity D. Scott, *Architecture or Techno-Utopia: Politics after Modernism* (Cambridge: MIT Press, 2007).

Manfredo Tafuri, *The Sphere and the Labyrinth: Avant-Gardes and Architecture from Piranesi to the 1970's*, trans. Pellegrino and Robert Connolly d'Acierno (Cambridge: MIT Press, 1987).

Aggregate, *Governing by Design: Architecture, Economy and Politics in the Twentieth Century*, ed. Daniel M. Abramson, Arindam Dutta, Timothy Hyde and Jonathan Massey (Pittsburgh: University of Pittsburgh Press, 2012).

Mark Fisher, *Capitalist Realism: Is There No Alternative?* (London: Zero Books, 2009).

Georgy Katsiaficas, *The Subversion of Politics: European Autonomous Social Movements and the Decolonization of Everyday Life*, 2nd ed. (Oakland, CA and Edinburgh, UK: AK Press, 2006).

Herbert Marcuse, *One-Dimensional Man: Studies in the Ideology of Advanced Industrial Society* (Boston: Beacon, 1964).

April 13

12. The Problem with THE Environment(s)

* Ian McHarg, *Design with Nature* [1970] (Hoboken, NJ: Wiley, 1995), Introduction and chap. 1.

* Reyner Banham, *The Architecture of the Well-Tempered Environment* (Chicago: Chicago University Press, 1969).

* Leslie Kanés Weisman, "Women's Environmental Rights," *Heresies II* 3, no. 3 (1981): 6-8.

Beatriz Colomina, "Battle Lines: E. 1027," in *The Architect: Reconstructing Her Practice*, ed. Francesca Hughes (Cambridge: MIT Press, 1996), 2-25.

Sophie Hochhäusl, "From Vienna to Frankfurt Inside Core-House Type 7: A History of Scarcity through the Modern Kitchen," *Architectural Histories* 1(1) 2013: 24, pp. 1-19, DOI: <http://dx.doi.org/10.5334/ah.aq>

Henri Lefebvre, *The Production of Space*, trans. Donald Nicholson-Smith (Oxford: Wiley-Blackwell, 1992).

The Whole Earth Catalog (Stewart Brand, 1968-1998).

Pierre Teilhard de Chardin, *The Future of Man* [1950-52, 1959, 1964], trans. Norman Denny (London et al: Image Books, 2004).

Nader Vossoughian, "Standardization Reconsidered: *Normierung* in and after Ernst Neufert's *Bauentwurfslehre* (1936)," *Grey Room* 54 (Winter 2014): 34-55.

Marshall McLuhan, "The Invisible Environment: The Future of an Erosion," *Perspecta* 11 (1967): 163-167.

Daniel A. Barber, "Experimental Dwellings: Modern Architecture and Environmental Research at the MIT Solar Energy Fund, 1938-1963," in *A Second Modernism: MIT, Architecture, and the 'Techno- Social' Moment*, edited by Arindam Dutta et al. (Cambridge, MA: MIT Press, 2013): 252-85.

Daniel A. Barber, *A House in the Sun: Modern Architecture and Solar Energy in the Cold War* (Oxford and New York: Oxford University Press, 2016).

Andrew G. Kirk, "Appropriating Technology: The Whole Earth Catalog and Counterculture Environmental Politics," *Environmental History* 6 (2001): 374-394.

Victor Papanek, *Design for the Real World: Human Ecology and Social Change* (Toronto/New York/London: Bantam Books, 1971).

Mirko Zardini and Giovanna Borasi, eds. *Sorry, out of Gas: Architecture's Response to the 1973 Oil Crisis* (Montreal: Canadian Center for Architecture, 2007).

60. Buckminster Fuller, "Accommodating Human Unsettlement," *Town Planning Review* 49 (January 1978): 51-60.

Maxwell Fry and Jane Drew, "Climate" in *Tropical Architecture in the Humid Zone* (New York: Reinhold, 1956): 30-49.

Jiat-Hwee Chang, "Building a Colonial Technoscientific Network: Architecture, Building Science and the Politics of Decolonization," in *Third World Modernism: Architecture, Development and Identity*, ed. Duanfang Lu (New York: Routledge, 2011): 211-34.

April 20

13. Contemporary Imperatives in Architecture: A Discussion

[NB: There is no required reading for this class session; however, each student should come prepared to discuss one article or book that serves her/him/zer particularly well in

orienting her/him/zer in relation to contemporary political, economic, social, and architectural problems.][-