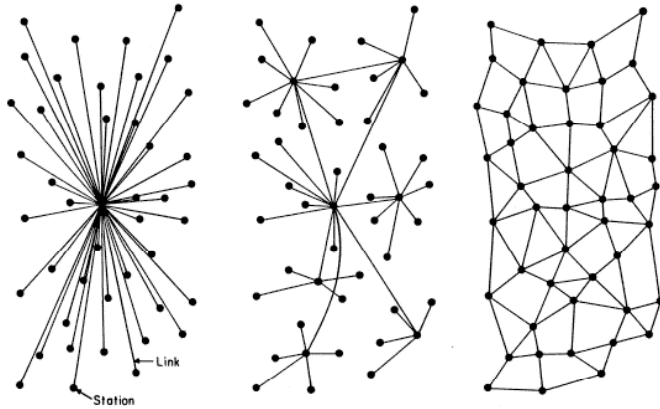


Network City

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Avery 115, Tuesdays 11-1



“Cities are communications systems.” – Ronald Abler

This course fulfills the Urban Society M.Arch distributional requirement.

Network City explores how key urban areas have developed as ecosystems of competing networks. Networks of capital, transportation infrastructures, and telecommunications systems have simultaneously centralized cities while dispersing them into larger posturban fields such as the Northeastern seaboard or Southern California. Linked together through networks, such cities form the core of global capital, producing the geography of flows that structures economies and societies today.

But networks, infrastructures, and property values are the products of historical development. To this end, the course surveys the development of urbanization since the emergence of the modern network city while also focusing on conditions in contemporary urbanism.

A fundamental thesis of the course is that buildings too, function as networks. We will consider the demands of cities and economies together with technological and social networks on program, envelope, and plan, particularly in the office building, the site of consumption, and the individual dwelling unit. In addition we will look at the fraught relationship between signature architecture (the so-called Bilbao-effect) and the post-Fordist city.

Throughout the course, we will explore the growth of both city and suburbia (and more recently postsuburbia and exurbia) not as separate and opposed phenomena but rather as intrinsically related. Although the material in the course is applicable globally, our focus will be on the development of the American city, in particular, New York, Chicago, Boston, and Los Angeles.

This course is offered by the Network Architecture Lab (<http://arch.columbia.edu/Research/netlab>).

All students should buy Stephen Graham, ed., *The Cybercities Reader*, (London: Routledge, 2004) and Richard T. LeGates and Frederic Stout, ed., *The City Reader*, (London: Routledge, 2007).

Projects

The course grade consists of three components.

Attendance and Participation 10%

***Keitai* Scenario Prototype 40%**

Since the course is offered by the Network Architecture Lab, research will be a constituent part of the course. For spring 2008, we will begin with an intensive four-week long project at the start of the course to prototype scenarios for the intersection of architecture, urbanism, and mobile communications technologies. At the request of A+U magazine, we will present this work to a representative of Docomo, the largest mobile telephone carrier in Japan.

For Reference:

<http://www.japan-architect.co.jp/docomo/2005/>

and

<http://www.japan-architect.co.jp/docomo/2006/>

Research Book 50%

The final product of the course will be a research book exploring one architectural, infrastructural, or urbanistic component of the Network City. Material should not be formulated into a traditional research paper, but rather assembled as a dossier of information that tells a story through the designed and composed sequence of images and texts lead by a narrative that you have written yourself. The book will be designed simultaneously as a printed, bound object and for the NetLab web site. Design is integral to the term project.

As projects are substantial, it is recommended, but not required, that students work in teams of at least two students.

1 Introduction: Towards Network City

- 1.22 Ronald F. Abler "What Makes Cities Important," *Bell Telephone Magazine*, March/April (1970), 10-15.

Ithiel de Sola Pool, "The Structure of Cities," *Cybercities Reader*, 47-49.

2 New Places

- 1.29 Melvyn Webber, "The Urban Place and the Non-Place Urban Realm," *Cybercities Reader*, 50-52.

Timo Kopomaa, "Speaking Mobile: Intensified Everyday Life, Condensed City," *Cybercities Reader*, 267-272.

Robert D. Putnam, "Bowling Alone: America's Declining Social Capital," *City Reader*, 120-128.

Marc Augé, "Prologue" and "From Places to Non-Places," in *Non-Places: Introduction to an Anthropology of Supermodernity*, (New York: Verso, 1995), 1-6. 75-115.

Anne Friedberg and Kazys Varnelis, "Place," Kazys Varnelis, ed, *Networked Publics* (Cambridge, MA: The MIT Press, 2008).

Selections from Michael J. Weiss, *The Clustered World: How We Live, What We Buy, and What it All Means About Who We Are* (New York: Little, Brown, and Company, 1999).

Optional:

Melvin M. Webber, John W. Dyckman, Donald L. Foley, Albert Z. Guttenberg, William L. C. Wheaton, Catherine Bauer Wurster, *Explorations into Urban Structure* (Philadelphia: University of Pennsylvania Press, 1964), 79-153.

Mizuko Ito, Daisuke Okabe and Misa Matsuda. *Personal, Portable, Pedestrian: Mobile Phones in Japanese Life* (Cambridge, Mass.: MIT Press, 2005), available as a Columbia University EBook.

3 Control Societies

- 2.5 Gilles Deleuze, "Postscript on Societies of Control," Graham, *Cybercities Reader*, 73-77.

Michael Hardt, "The Global Society of Control," *Discourse*, 2:3 (1998), 139-52.

Nicholas Carr, "Goodbye, Mr. Gates," "World Wide Computer," "From the Many to the Few," "A Spider's Web," *The Big Switch. Rewiring the World, From Edison to Google* (New York: W. W. Norton & Company, 2008), 63-84, 127-148, 185-210.

4 Network Culture

- 2.12 Alexander Galloway and Eugene Thacker, "Protocol, Control, and Networks," *Grey Room* 17, Fall 2004, 6-29.

Kazys Varnelis, "Network Culture," Kazys Varnelis, ed. *Networked Publics*, (Cambridge: The MIT Press, forthcoming 2008).

Mark Buchanan, "Prelude," "The Small-World Web," "The Rich Get Richer," *Nexus. Small Worlds and the Groundbreaking Theory of Networks* (New York: W. W. Norton, 2002), 11-22, 73-88, 106-120.

Optional: Fredric Jameson, "Postmodernism, or the Cultural Logic of Late Capitalism," *New Left Review* 146 (July/August 1984), 53-92.

5 Meeting with Docomo

- 2.19 Present first project.

6 The Growth of the City [New York and Chicago 1870-1940]

- 2.26 Joel Tarr, "The City and the Telegraph: Urban Telecommunications in the Pre-Telephone Era," Graham, *Cybercities Reader*, 44-46.

Ernest W. Burgess, "The Growth of the City: An Introduction to a Research Project," *City Reader*, 97-105.

Louis Wirth, "Urbanism as a Way of Life," *City Reader*, 90-97.

Robert M. Fogelson, "The Business District: Downtown in the Late Nineteenth Century," *Downtown: Its Rise and Fall, 1880-1950* (New Haven: Yale, 2001), 9-42.

Optional:

Louis Wirth, "Urbanism as a Way of Life." *The American Journal of Sociology* XLIV, no. 1 (July 1938): 1-24.

7 From Fordism to the Open City

- 3.4 David Harvey, "Fordism" in *The Condition of Postmodernity* (Oxford, UK: Blackwell, 1989), 125-140.

Robert M. Fogelson, "The Central Business District: Downtown in the 1920s," *Downtown*, 183-217.

Harvey Molotch, "The City as a Growth Machine," in John R. Logan and Harvey Luskin Molotch, *Urban Fortunes: The Political Economy of Place* (Berkeley, CA: University of California Press, 1987), 50-98.

Peter Galison, "War Against the Center," *Grey Room* 4, Summer 2001, 6-33.

Albert Pope, "The Open City," *Ladders* (New York: Princeton Architectural Press, 1996), 14-54.

8 Corporate Machine and Suburban Field

- 3.11 Spiro Kostof, "The American Workplace," *America by Design* (New York: Oxford University Press, 1987), 69-134.

Reinhold Martin, "The Physiognomy of the Office," *The Organizational Complex*, (Cambridge: The MIT Press, 2003), 80-121.

Peter Rowe, "Corporate Estates," *Making a Middle Landscape* (Cambridge: MIT Press, 1991), pp. 149-181.

Victor Gruen, "Cityscape and Landscape," in Joan Ockman, *Architecture Culture 1943-1968*, (New York: Rizzoli, 1993), 194-199.

Optional:

Mario Gandelsonas, "Scene 6. The Suburban City," *X-Urbanism: Architecture and the American City* (New York: Princeton Architectural Press, 1999), 30-35.

Kazys Varnelis "Psychogeography and the End of Planning. Reyner Banham's *Los Angeles. The Architecture of Four Ecologies*"

- 3.18 **Spring Recess**

9 The Emergence of the Network Enterprise

3.25 “Office Landscape,” *Progressive Architecture*, (September 1964), 201-203.

“Bürolandschaft, U.S.A.,” *Progressive Architecture*, (May 1968), 174-177.

Malcolm Gladwell, “Designs for Working,” *The New Yorker*, December 11, 2000, 60-70.

Richard Barbrook and Andy Cameron, “The Californian Ideology,”
<http://www.hrc.wmin.ac.uk/theory-californianideology-main.html>.

David Harvey, “From Fordism to Flexible Accumulation,” *The Condition of Postmodernity*, 141-172.

Iñaki Ábalos and Juan Herreros, “The Evolution of Space Planning in the Workplace,” *Tower and Office. From Modernist Theory to Contemporary Practice* (Cambridge, MA: The MIT Press, 2003), 177-216.

10 Neoliberalism, the Cult of the Authentic, and the City Core

4.1 Jane Jacobs, “Introduction,” *The Death and Life of Great American Cities* (New York: Vintage Books, 1961), 2-25.

Sharon Zukin, “Living Lofts as Terrain and Market” and “The Creation of a ‘Loft Lifestyle’ in *Loft Living* (New Brunswick: Rutgers University Press), 1-22, 58-81.

Dan Graham, “Gordon Matta-Clark” in *Gordon Matta-Clark* (Marseilles: Musées de Marseilles, 1993), 378-380.

Ivan Chitchevlov, “Formulary for a New Urbanism,” 1-4, and Guy Debord, “Introduction to a Critique of Urban Geography,” 5-8 in Ken Knabb, ed., *Situationist International Anthology* (Berkeley: Bureau of Public Secrets, 1981).

David Harvey, “The Constructing of Consent,” *A Brief History of Neo-Liberalism* (Oxford, UK: Oxford University Press, 2005), 39-63.

Rem Koolhaas, “‘Life in the Metropolis’ or ‘The Culture of Congestion,’” K. Michael Hays, *Architecture Theory Since 1968* (Cambridge, MA: The MIT Press, 1998), 320-331.

11 The Global City and the New Centrality

- 4.8 Saskia Sassen, "The Impact of the New Technologies and Globalization on Cities," *City Reader*, 197-205.

Stephen Graham, "Excavating the Material Geographies of Cybercities," Graham, *Cybercities Reader*, 138-142.

Kazys Varnelis, "The Centripetal City: Telecommunications, the Internet, and the Shaping of the Modern Urban Environment," *Cabinet Magazine* 17.

Mitchell L. Moss and Anthony M. Townsend, "How Telecommunications Systems are Transforming Urban Spaces," James O. Wheeler, Yuko Aoyama, and Barney Warf, eds., *Cities in the Telecommunications Age: The Fracturing of Geographies* (New York: Routledge, 2000), 31-41.

Manuel Castells "The Space of Flows, Space of Places: Materials for a Theory of Urbanism" in Graham, *Cybercities Reader*, 82-93.

12 Creative City, Divided City, Hollow City

- 4.15 Richard Florida, "The Transformation of Everyday Life" and "The Creative Class," in *The Rise of the Creative Class* (New York: Basic Books, 2002), 1-17, 67-82.

Sze Tsung Leong, "Readings of the Attenuated Landscape," Michael Bell and Sze Tsung Leong, eds., *Slow Space* (New York: The Monacelli Press, 1998), 186-213.

Ignasi Sola-Morales, "Terrain Vague", in *Anyplace* (Cambridge, MA: MIT Press, 1995), p. 118-123.

Mike Davis, "Fortress L. A.," *City Reader*, 178-183.

Rebecca Solnit and Susan Schwartenberg, "San Francisco: Capital of the Twenty-First Century," Graham, *Cybercities Reader*, 296-298.

Optional:

Bert Mulder, "The Creative City or Redesigning Society," and Justin O'Connor, "Popular Culture, Reflexivity and Urban Change in Jan Verwijnen and Panu Lehtovuori, eds, *Creative Cities. Cultural Industries, Urban Development and the Information Society*, (Helsinki: UIAH Publications, 1999), 60-75, 76-100.

13 Posturban Terrains: Postsuburbia, Exurbia, Edgeless Cities

- 4.22 Robert Fishman, "Beyond Suburbia: The Rise of the Technoburb," *City Reader*, 68-77.

Rob Kling, Spencer Olin, and Mark Poster, "Beyond the Edge: The Dynamism of Postsuburban Regions," and "The Emergence of Postsuburbia: An Introduction," Rob Kling, Spencer Olin, and Mark Poster, eds. *Postsuburban California: The Transformation of Orange County* (Berkeley: University of California Press, 1995), vii-xx, 1-30.

A Brief Bibliography of Books regarding Design and Presentation

Kimberley Elam, *Grid Systems: Principles of Organizing Type* (New York: Princeton Architectural Press, 2004).

Allen Hurlburt, *The Grid: A Modular System for the Design and Production of Newspapers, Magazines, and Books* (New York: Van Nostrand Reinhold, 1978).

Al Gore, *An Inconvenient Truth. The Planetary Emergence of Global Warming and What We Can Do About It* (New York: Rodale, 2006).

Enric Jardí, *Twenty-Tips on Typography* (Barcelona: ACTAR, 2007).

Robert Sumrell, *Superbrutalism: An Architecture for Muzak*,
<http://audc.org/superbrutalism/index.html>

Timothy Samar, *Making and Breaking the Grid. A Graphic Design Layout Workshop* (Beverly, MA: Rockport, 2002).

Tomato, *Bareback: A Tomato Project* (Corte Madera, CA: Gingko Press, 1999).