

Sustainable Urban Development: International Perspectives

Prof. Jyoti Hosagrahar

PLAN 4381

Spring 2014

Graduate School of Architecture, Planning, and Preservation

Columbia University, New York

SYLLABUS

Theme 1. CITIES AND SUSTAINABILITY

Session 1, Jan. 21 Introduction and Overview

Session 2, Jan. 23 Sustainability and the Crises of Urban Development

- o The World Commission on Environment and Development (Brundtland Commission). "From One Earth to One World," and "The Urban Challenge." In *Our Common Future*. New York: Oxford University Press, 1987, pp. 1-26, and 235-260.
- o UN-Habitat. "Cross Currents in Global Urbanization." In *State of the World's Cities 2010-2011: Bridging the Urban Divide*. London; Sterling, VA: Earthscan, 2010, pp. 4-17.
- o United Nations Resolution, A/RES/66/288. Rio+20 document, *The Future We Want*. UN, 2012.
- o Ramin Keivani. "Introduction: A Review of the Main Challenges to Urban Sustainability." In the *International Journal of Urban Sustainable Development*, vol.1, nos.1-2, May-November 2009, pp. 5-16.

Recommended:

- o William Reese. "Smaller Feet for Bigger Cities." In International Institute for the Urban Environment (eds.), *The Ecological Footprint of Cities*. The International Institute for the Urban Environment, Amsterdam, 1997.
- o Mathis Wackernagel, et.al. "The Ecological Footprint of Cities and Regions: Comparing Resource Availability with Resource Demand." In *Environment and Urbanization*, Vol. 18 no. 103, April 2006.

Theme 2. SUSTAINABILITY, NATURE, AND HINTERLAND

Session 3, Jan. 28 City, Hinterland, and Nature

- o Ann Whiston Spirn. "City and Nature." In *The Granite Garden: Urban Nature and Human Design*. New York: Basic Books, 1985, pp.1-35.
- o Robert Fishman. "Broadacre City." In *Urban Utopias in the Twentieth Century*. Cambridge, MA: MIT Press, 1982, pp. 122-134.
- o Jyoti Hosagrahar. "Beyond the Walls: Commerce and Urban Expansion." In *Indigenous Modernities: Negotiating Architecture and Urbanism*. London, New York: Routledge, 2005, pp. 115-142.
- o William Cronon. "Annihilating Space: Meat." In *Nature's Metropolis: Chicago and the Great West*. New York: W. W. Norton, 1992, pp. 207-261.

Recommended:

- o Ian McHarg. "Nature in the Metropolis." In *Design With Nature*. Garden City: Natural History Press, 1969, pp. 55-77.
- o Wong, Chong Thai Bobby. "The Tropical City: Slippages in the Midst of Ideological Construction." In *Beyond Description: Singapore Space Historicity*, edited by Ryan Bishop, John Phillips and Wei-Wei Yeo. London: Routledge, 2004, pp. 165-75.

Theme 2. SUSTAINABILITY, CULTURE, AND GLOBALIZATION

Session 4, Jan. 30 Fragmented Geographies and Social Difference

- o Mike Davis. "The Latino Metropolis," and "Transnational Suburbs" from *Magical Urbanism: Latinos Reinvent the Big US City*. London: Verso, 2001, pp. 39-49 and 77-90.
- o Jyoti Hosagrahar. "Introduction," and "Recovering an Urban Past." *Indigenous Modernities: Negotiating Architecture and Urbanism*. London, New York: 2005, pp. 1-13, and 181-191.
- o UN Human Settlements Programme. "Impacts of Globalization on Cities," and "Cultural Strategies for Urban Development." In *The State of the World's Cities 2004/2005: Globalization and Urban Culture*. London, Sterling VA: Earthscan, 2004, pp. 9-30, and 31-48.
- o Fulong Wu. "Globalization, Place Promotion and Urban Development in Shanghai." In *Journal of Urban Affairs*, vol. 25, no. 1, Spring 2003, pp. 55-78.

Recommended:

- o Saskia Sassen. "Cities in Today's Global Age." In the *SAIS Review of International Affairs*, vol.29, no.1, Winter-Spring 2009, pp.3-34.

Session 5, Feb. 4 Sustainability, Heritage, and Identity

- o Peggy Teo. "Limits of Imagineering: A Case Study of Penang." In *International Journal of Urban and Regional Research*. Vol. 27, no. 3, September 2003, pp. 545-563.
- o Graeme Evans. "Hard-Branding the Cultural City – from Prado to Prada." In *International Journal of Urban and Regional Research*, vol. 27, no. 2, June 2003, pp. 417-40.
- o UNESCO (Jyoti Hosagrahar). *The Power of Culture for Development*. Paris: UNESCO, 2010.
- o Andrea Colantonio and Tim Dixon. "Public Private Partnerships and Emerging Urban Regeneration Delivery Vehicles." In *Urban Regeneration and Social Sustainability: Best Practices from European Cities*. London: Wiley-Blackwell, 2011.

Recommended:

- o Mechthild Rossler (ed.). *Linking Universal and Local Values: Managing a Sustainable Future for World Heritage*. UNESCO, World Heritage Center. Paper Series, no. 13, 2004.
- o Chris Wilson. "Restoration is the Most Total Destruction." In *The Myth of Santa Fe: Creating a modern regional tradition*. Albuquerque : University of New Mexico, 1997, pp. 232-273.
- o Brenda S. A. Yeoh and Shirlena Huang. "The Conservation—Redevelopment Dilemma in Singapore: The Case of the Kampong Glam Historic District." In *Cities*, vol. 13, no. 6, pp. 411-422, 1996.
- o Marie Noel Tournoux(ed.). *Partnerships for World Heritage Cities: Culture as a Vector for Sustainable Urban Development*. World Heritage Paper Series # 9. Paris: UNESCO World Heritage Center, 2002, pp.51-69.

Theme 3. SUSTAINABILITY AND URBAN INFRASTRUCTURE

Session 6, Feb. 6 Transportation and Landuse

- o "Urban Sustainability: Mixed-use or Mixed Messages?" In *Designing Sustainable Cities* edited by Rachel Cooper, Graeme Evans, Christopher Boyko. West Sussex, UK: Wiley Blackwell, 2009, pp. 187-198.
- o Dominique Gauzin-Mueller. "Urbanism and Sustainable Development." In *Sustainable Architecture and Urbanism*. Basel: Birkhäuser; London: Momena, 2002, pp. 32-89.
- o Mamadou Lamine Ndiaye. "Urban Agriculture in Dakar, Senegal: Health Aspects Related to Polluted Irrigation Water." In *Sustainable Cities: Local Solutions in the Global South* edited by Melanie Roberts. Ottawa: International Development Research Center, 2012, pp. 33-46.
- o Peter Calthorpe. Selections from *Urbanism in the Age of Climate Change*. Washington, D.C.: Island Press, 2010.

Recommended:

- Aaron Golub and Jason Henderson. "The Greening of Mobility in San Francisco." In *Sustainability in America's Cities: Creating the Green Metropolis*. Washington, DC: Island Press, 2011.

READING RESPONSE DUE**Session 7, Feb 11 Urban Greening and Green Building**

- o Timothy Beatley. "Biophilic Urban Design and Planning." In *Biophilic Cities: Integrating Nature into Urban Design and Planning*. Washington, D.C.: Island Press, 2011, pp. 83-130.
- o Nannan Dong, Lang Zhang, and Stephanie Ruff. "From Expo City to Sustainable City: from 1 May to 31 October 2010 the World Expo will be held in Shanghai - with the motto 'Better City, Better Life' the central theme of cities has been chosen for an Expo for the first time. With insets on three new greenspaces: Shibo Park, Houtan Park and Jiangnan Plaza and Park." In *Topos: the International Review of Landscape Architecture and Urban Design*, no. 70, 2010, pp. 18-27.
- o Rutherford H. Platt. "Regreening the Metropolis: Pathways to more Ecological Cities." In *Annals of the New York Academy of Sciences*, vol.1023, 2004, pp. 49-61.
- o Antoinette M. G. A. WinklerPrins and Perpetuo S. de Souza. "Surviving the City: Urban Home Gardens and the Economy of Affection in the Brazilian Amazon." In *Journal of Latin American Geography*, vol. 4, no. 1, 2005, pp. 107-126.

Recommended:

- o Aurore Julien. "Assessing the assessor: BREEAM vs. LEED." In *Sustain*, vol. 09 Issue 06, 2008, p. 30-33.
- o Rebecca Retzlaff. "Developing policies for green buildings: what can the United States learn from the Netherlands?" In *Sustainability: Science, Practice, & Policy*, Volume 6, Number1, Spring 2010.
- o White House Plans.
- o C. Y. Jim and Sophia S. Chen. "Comprehensive greenspace planning based on landscape ecology principles in compact Nanjing City, China." *Landscape and Urban Planning*. Vol. 65, no. 3, October 2003, pp. 95-116.

Session 8, Feb 13 Water, Sanitation, and Health

- o Raquel Pinderhughes. "Urban Water Quality, Supply, and Management." In *Alternative Urban Futures: Planning for Sustainable Development Throughout the World*. Oxford: Rowman and Littlefield, 2004, pp. 15-52.
- o Roberto Lenton, Albert Wright, and Kristen Lewis. "Achieving the Millennium Development Goals." In *Health, Dignity, and Development: What Will it Take? UN Millennium Project Task Force on Water and Sanitation*, 2005. London: Earthscan 2005.
- o Jyoti Hosagrahar. "Landscapes of Water in Delhi: Negotiating Global Norms and Local Cultures." In *Megacities, Sustainability, and Urban Form* edited by Junichiro Okata and Andre Sorensen. Forthcoming, 2011.

Recommended Reading:

WaterAid, *Urbanisation and Water*. November 2006.

Session 9, Feb 18 Energy, Solid Waste, and Cultures of Consumption

- o Timothy Beatley. "Envisioning Solar Cities: Urban futures powered by sustainable energy." In the *Journal of Urban Technology*, vol. 14, no.2, August 2007, pp. 31-46.
- o Sascha N. M. Van Rooijen and Mark T. Van Wees. "Green Electricity Policies in the Netherlands: An Analysis of Policy Decisions." In *Energy Policy*, vol. 34, January 2006, pp. 60-71.

- o Michael Ornetzeder, and Harald Rohrer. "User-led Innovations and Participation Processes: Lessons from Sustainable Energy technologies." In *Energy Policy*, vol. 34, January 2006, pp. 138-150.
- o Abel Afon. "Informal sector initiative in the primary sub-system of urban solid waste management in Lagos, Nigeria." In *Habitat International*, Vol. 31, 2007, pp. 193-204.

Recommended

- o Isa Baud, et.al. "Quality of Life and Alliances in Solid Waste Management: Contributions to Urban Sustainable Development." In *Cities*, vol. 18, no. 1, 2001, pp. 3-12.

Theme 4. SUSTAINABILITY, CLIMATE CHANGE, AND DISASTERS

Session 10, Feb 20 Disasters, Resilience, and Planning

- o UNDP. "Capacity Building: Empowering the Communities, Making them Independent!" In *Good Practices in Community Based Disaster Management*. Government of India-UNDP Disaster Risk Management Programme (2002-2009). New Delhi: UNDP, 2010, pp. 13-21.
- o Diane E. Davis. "Reverberations: Mexico City's 1985 Earthquake and the Transformation of the Capital." In Lawrence Vale and Thomas J. Campanella, *The Resilient City: How Modern Cities Recover from Disaster*. New York: Oxford, 2005, pp.255-280.
- o Greg Bankoff. "Constructing Vulnerability: The Historical, Natural and Social Generation of Flooding in Metropolitan Manila." In *Disasters*, vol. 27, no. 3, September 2003, pp. 224-238.
- o Margaret Arnold, et. al. (Eds.). *Natural Disaster Hotspots: Case Studies*. Disaster Risk Management Series, no. 6. Washington, D.C.: World Bank, 2006.

Recommended:

- o Sengezer, B. and Koç, E. (2005), "A Critical Analysis of Earthquakes and Urban Planning in Turkey." *Disasters*, Vol. 29, no 2, pp. 171-194
- o Mark Pelling (ed.). Cities as Sites of Disaster," and "Action for Safer Cities." In *The Vulnerability of Cities: Natural Disasters and Social Resilience*. Sterling, VA: Earthscan Publications, 2003, pp.19-44, 163-184.

Session 11, Feb 25 Climate Risks and Urban Development

- o Shiv Someshwar. "Adaptation as 'Climate-Smart' Development." In *Development*, vol. 51, no. 3, pp. 366-374, 2008.
- o Carlo Aall, Kyrre Groven, et al."The Scope of Action for Local Climate Policy: The Case of Norway." In *Global Environmental Politics*, Vol. 7, no. 2, May 2007.
- o Cynthia Rosenzweig and William Solecki. "Introduction to Climate Change Adaptation in New York City: Building a Risk Management Response." In *Annals of the New York Academy of Science*, vol. 1196, 2010, pp. 13-17.
- o The World Bank. *Cities and Climate Change: An Urgent Agenda*. Volume 10. Washington, D.C.: the World Bank, 2010.
- o World Bank. "Tokyo Emissions Trading System: A Case Study." *Directions in Urban Development*. Washington, D.C.: the World Bank, 2010.

Recommended:

- o Pierre Mukheibir and Gina Ziervogel, "Developing a Municipal Adaptation Plan (MAP) for climate change: the city of Cape Town," *Environment and Urbanization*, vol. 19, 2007, pp. 143-158.
- o Cynthia Rosenzweig, et al. Climate Change and Cities: First Assessment Report of the Urban Climate Change Research Network. Cambridge; New York: Cambridge University Press, 2011.
- o The World Bank. *North African Coastal Cities Address Natural Disasters and Climate Change: Summary of the Regional Study*. Washington, D.C.: the World Bank, 2011.

Theme 5. SUSTAINABILITY, HOUSING, AND EQUITY

Session 12, Feb 27 Community Participation and Housing Processes

- o UN-Habitat. "Urban Divide: Divided Spaces and Opportunities" In *State of the World's Cities 2010-2011: Bridging the Urban Divide*. London; Sterling, VA: Earthscan, 2010, pp. 52-59.
- o Lea Jellinek. "Jakarta, Indonesia. Kampung Culture or Consumer Culture?" In Nicholas Low, et al.(eds.), *Consuming Cities: the Urban Environment in the Global Economy after the Rio Declaration*. London; New York : Routledge, 2000.
- o Somsook Boonyabancha. "Ban Mankong: Going to Scale with "Slum" and Squatter Upgrading in Thailand." *Environment and Urbanization*, vol. 17,no. 1, April 2005, pp. 21-46.
- o David Satterthwaite. "The Millenium Development Goals and Urban Poverty Reduction: Great Expectations and Nonsense Statistics." In *Environment and Urbanization*, vol. 15, no.2, October 2003, pp. 181-190.

Recommended:

- o Asian Coalition for Housing Rights (ACHR). *A conversation about Upgrading at Bang Bua (ACHR Report)*. Bangkok, Thailand, December 2008.

Session 13, March 4 Equity, Gender, and the Urban Environment

- o Sundar Burra, Patel, S. and Kerr, T. "Community Designed, Built and Managed Toilet Blocks in Indian Cities." In *Environment and Urbanization*, vol. 15, no. 2, 2003, pp. 11-32.
- o Meera Bapat and Indu Aggarwal. "Our Needs and Our Priorities: Women and Men from Slums in Mumbai and Pune Talk about Their Needs for Water and Sanitation." In *Environment and Urbanization*, vol. 15, no. 2, October 2003.
- o Miguel Lacabana, and Celilia Cariola. "Globalization and Metropolitan Expansion: Residential Strategies and Livelihoods in Caracas and its Periphery." In *Environment and Urbanization*, vol. 15, no. 1, April 2003, pp. 65-74.
- o Harald Leisch. "Gated Communities in Indonesia." *Cities*, vol. 19, no. 5, 2002, pp. 341-350.

Recommended:

- o Varady, D. P., Raffel, J. A., Sweeney, S. and Denson, L., Attracting Middle-Income Families in the Hope VI Public Housing Revitalization Program. *Journal of Urban Affairs*, vol.27, No 2, 2005, pp.149-164.
- o Castells, M., Local and Global: Cities in the Network Society. *Royal Dutch Geographical Society*, Vol 93, No5, December 2002, pp. 548-558.

Session 14, March 6 CITY STRATEGY PRESENTATION