SCHEDULE

INFORMATION

INDUSTRIAL URBANISM : Places of Production | Symposium

Monday, October 27, 2014

4:00 - 4:10 Welcome: Prof. Eran Ben-Joseph

One: Changing Technologies

4:10 - 4:15 Introduction: Prof. Tim Love (Moderator & Respondent)
4:15 - 4:25 Prof. Marty Schmidt
4:25 - 4:35 Prof. Sanjay Sarma
4:35 - 4:45 Prof. Calestous Juma
4:45 - 5:00 Respondent Q and A

Two: Changing Manufacturing

5:05 - 5:10 Introduction: Prof. Alexander D'Hooghe (Moderator & Respondent)
5:10 - 5:20 Prof. Fiona Murray
5:20 - 5:30 Dr. Ted Acworth
5:30 - 5:40 Alex Klatskin
5:40 - 5:55 Respondent Q and A

Three: Changing Cities

6:00 - 6:05 Introduction: Prof. Dennis Frenchman (Moderator & Respondent)
6:05 - 6:15 Prof. Amy Glasmeier
6:15 - 6:25 Neil McCullagh
6:25 - 6:35 Dr. Elisabeth Reynolds
6:35 - 6:50 Respondent Q and A

Reflection, Prospects and Future Directions

6:50 - 7:00 Prof. Tali Hatuka and Prof. Eran Ben-Joseph

7:30 Reception – Wolk Gallery

SYMPOSIUM

Media Lab Building (E-14) Sixth Floor, MIT Monday, Oct. 27, 2014

EXHIBITION

Wolk Gallery, 7-338, MIT September 5 - December 19, 2014

About:

In a time of dramatic shifts in the manufacturing sector – from large industrial scale production and design to small-scale distributed systems; from polluting and consumptive production to a clean and sustainable process; from a demand of unskilled labor to a growing need for a more educated and specialized workforce – cities will see new investment and increased employment opportunities. Yet, to reap these benefits will require a shift in our thinking about city physical planning and its design and development.

The aim of this symposium is to explore the future relationships between city and industry along three themes with a focus on their spatial implications.

Organizers:

Eran Ben-Joseph, Department of Urban Studies and Planning, School of Architecture + Planning, Massachusetts Institute of Technology.

Professor Eran Ben-Joseph is the head of the Department of Urban Studies and Planning at the Massachusetts Institute of Technology. His research and teaching areas include urban and physical design, standards and regulations, sustainable site planning technologies and urban retrofitting. He authored and co-authored the books: Streets and the Shaping of Towns and Cities, Regulating Place: Standards and the Shaping of Urban America, The Code of the City, RENEW Town and ReThinking a Lot.

Tali Hatuka, Laboratory for Contemporary Urban Design, Department of Geography and Human Environment, Tel Aviv University.

Dr. Tali Hatuka, an architect and urban planner, is the Head of the Laboratory of contemporary Urban Design, in the Department of Geography and Human Environment at Tel Aviv University. Hatuka works primarily on the relationships between urban development, social conflicts and digital technology in contemporary cities. Her recent publications include: Revisioning Moments: Violent Acts and Urban Space in Contemporary Tel Aviv (English, 2010); The Factory (2011) State-Neighborhood (2012), City-Industry (2014).

Support for this symposium is provided by MIT Department of Urban Studies and Planning and the MIT School of Architecture + Planning Bemis Fund.

www.industrialurbanism.com

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What might the future relationships between city and industry look like? What are the spatial needs of contemporary manufacturing? Should contemporary manufacturing be subject to the same rules and zoning regulations as its predecessors? What could be the benefits of pursuing, retaining, attracting, and increasing manufacturing activity? Is there a way to design an industrial city while also maintaining livability and the quality of life of its inhabitants?

The aim of this symposium is to explore the future relationships between city and industry along themes of changing technologies, manufacturing, and cities, with a focus on their spatial implications.



1. CHANGING TECHNOLOGIES

Changes in technology are reshaping manufacturing. And manufacturing's physical footprints are changing both place and the daily life of the worker. How might changes in technology affect manufacturing space, distribution, access to transportation, and preferred geographical location? Does contemporary manufacturing have the potential to integrate within dense urban areas?

2. CHANGING MANUFACTURING

Changes in manufacturing are reshaping not just the single factory but also areas and regions. **How will this dynamic influence urban development patterns?** And vice versa, how might manufacturing spatial design be influenced by development patterns?

Panelists:

Marty Schmidt, Provost MIT

Provost Martin Schmidt has played an active role as MIT's faculty lead in support of the MIT president's role as co-chair of the Advanced Manufacturing Partnership (AMP), a national effort bringing together the federal government, industry, universities, and other stakeholders to identify and invest in emerging technologies with the potential to create high-quality domestic manufacturing jobs and enhance the global competitiveness of the United States.

Sanjay Sarma, Director of Digital Learning, MIT

Sanjay Sarma is the Fred Fort Flowers and Daniel Fort Flowers professor of mechanical engineering and the Director of Digital Learning at MIT. Sarma was one of the founders of the Auto-ID Center at MIT, which, along with a number of partner companies and its "spin-off," EPCglobal, developed the technical concepts and standards of modern RFID. He also chaired the Auto-ID Research Council consisting of six labs worldwide, which he helped to establish. He is a consultant and board member at several companies, including EPC Global, and also serves on the City of Boston's Complete Streets Advisory Group.

Calestous Juma, Harvard Kennedy School

Professor Juma is an internationally recognized authority on the application of science and technology to sustainable development. He was named one of the most influential 100 Africans in 2012 and 2013 by the New African magazine. Professor Juma is a Professor of the Practice of International Development at Harvard Kennedy School and also directs the School's Agricultural Innovation in Africa Project. Professor Juma has been elected to several prestigious scientific academies including the Royal Society of London, the US National Academy of Sciences, and the World Academy of Sciences.

Moderator/ Respondent:

Tim Love, *Director, Architecture Programs, Northeastern Univ., Principal, Utile* Tim Love is an architect, urban designer, and the founding principal of Utile. He is also Associate Professor and Director of Graduate Programs, Northeastern University School of Architecture. Love's primary focus is the relationship between individual works of architecture and the larger city. Tim is highly regarded for his strategic and collaborative approach to complicated urban projects. Tim is also Associate Professor at the Northeastern University School of Architecture where he teaches housing, urban design and architectural theory.

Panelists:

Fiona Murray, Associate Dean of Innovation, Sloan School of Management, MIT Professor Fiona Murray is the Alvin J. Siteman (1948) Professor of Entrepreneurship, the Faculty Director of the Martin Trust Center for MIT Entrepreneurship, and the Co-Director of MIT's Initiative for Innovation. She is an international expert on the transformation of investments in scientific and technical innovation into innovation-based entrepreneurship that drives jobs, wealth creation, and regional prosperity. She has a special interest in entrepreneurship, the commercialization of science and the economics of entrepreneurship and innovation.

Ted Acworth, Founder & CEO, Artaic

Dr. Ted Acworth is a scientist and engineer by trade, as well as an award-winning entrepreneur. He is the founder and CEO of Artaic, a custom robot-manufactured mosaic tile company located in downtown Boston. He has been developing and commercializing innovative technology for over twenty years. Ted directed the advanced technology research portfolio at the Cambridge-MIT Institute. He is also a Steering Committee member of the Massachusetts Governor's Advanced Manufacturing Initiative, representing small innovative manufacturers.

Alex Klatskin, General Partner, Forsgate Industrial Partners

Alex Klatskin is a General Partner of Forsgate Industrial Partners, a private industrial real estate development and investment firm based in Teterboro, New Jersey. Forsgate has built and owns ten million square feet of industrial property. Before joining Forsgate in 1992, he was with the New York City architectural firm of Kohn, Pedersen, Fox and Associates, working on commercial projects in London and New York.

Moderator/ Respondent:

Alexander D'Hooghe, *Director, Center for Advanced Urbanism, MIT* Alexander D'Hooghe is an associate professor of architecture at MIT and founding partner of the 'Organization for Permanent Modernity', a professional firm and think tank for urbanism and architecture, with locations in Boston and Brussels. He has published internationally, notably with 'The Liberal Monument' (Princeton, Fall 2010). His urban designs and analyses have included sites in New York City, Shenzhen, Brussels, Ostend, The Hague, Reykjavik, South-Korea, and Russia.

3. CHANGING CITIES

The detachment of cities from the physicality of industry is becoming less and less sustainable. In the coming decades the question will not be whether growth in manufacturing is going to occur, but where. What physical planning and design strategies should cities pursue to support manufacturing? Will the general public embrace the return of industry and manufacturing to the core of its cities? What are some state-of-the-art new designs/examples?

Panelists:

Amy Glasmeier, DUSP MIT

Dr. Glasmeier is a professor of economic geography and regional planning at MIT. She has two books on policies to develop and expand technology industries. Her book, Manufacturing Time: Global Competition in the World Watch industry, 1750-2000, provides considerable perspective on how different modes of industrial organization and varieties of capitalism yield varying levels of competitive success of national systems of industrialization.

Neil McCullagh, *Executive Director, The American City Coalition* As the executive director of TACC, Neil McCullagh coordinates partnerships between business, nonprofit and public partners to strengthen families in mixed income communities and the neighborhoods around them. Neil works with progressive housing owners and managers to build partnerships with schools, health service providers and resident service providers. Prior to joining TACC, Neil conducted research and evaluations for International NGOs and corporations on corporate social responsibility, economic development and civil society programs.

Elisabeth Reynolds, *Executive Director*, *MIT Industrial Performance Center* Dr. Elisabeth Reynolds works on issues related to systems of innovation, regional economic development and industrial competitiveness. Her current research focuses on the pathways that U.S. entrepreneurial firms take in scaling production-related technologies, as well as advanced manufacturing, including the globalization of the bio-manufacturing industry. She is a member of the Massachusetts Advanced Manufacturing Collaborative Executive Committee.

Moderator/ Respondent:

Dennis Frenchman, DUSP MIT

Dennis Frenchman is the Leventhal Professor of Urban Design and Planning at MIT. His research focuses on the transformation of cities. He is an expert on the application of digital technology to city design and has designed large-scale media oriented cities and industrial clusters around the world. He has a particular interest in the redevelopment of industrial sites and has prepared plans for the renewal of textile mill towns, canals, rail corridors, steels mills, coal and oil fields, shipyards and ports, including many of international cultural significance.