Living Cities: Vision and Method

Edited by Philip Beesley

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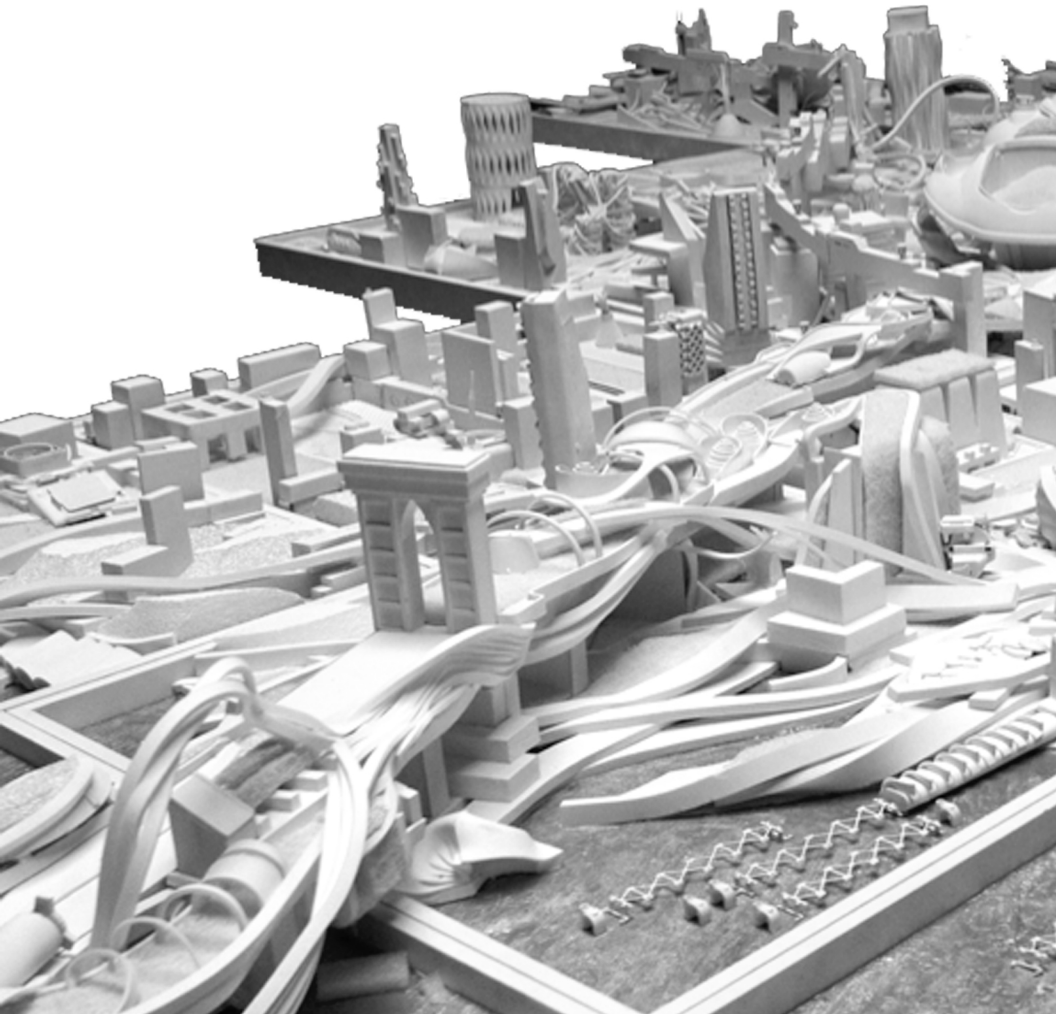

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LIVING CITIES

Vision and Method for Regenerative Design

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10 **THE VANCOUVER OLYMPIC VILLAGE EXPERIENCE: Engaging Innovation and Leading Edge Design**
ROGER BAYLEY—Roger Bayley Inc.

This lecture will explore how a contaminated industrial site in the heart of a city was transformed into the Millennium Water Olympic Village project. The presentation will detail the creative process used to bring together the team of five architectural firms and more than 40 engineering and service companies to develop a common vision for a sustainable community that pushed the boundaries of green building design.

42 **EMBEDDED RIGIDITIES AND MOMENTS OF CHANGE: Space, Institutions and the Evolutionary Potentials in Urban Form**
ANDRÉ SORENSEN—University of Toronto/Cities Centre

This lecture will examine institutional sources of inflexibility and rigidity in urban form, such as regulatory frameworks, zoning systems, property rights and development charges. Understanding patterns of inflexibility provides a window for understanding spaces and moments of openness to change and transformation.

64 **LARGE BUILDING ENERGY SYSTEMS—RELATIONSHIPS TO DISTRICT ENERGY MANAGEMENT: Cogeneration, Energy Storage and Demand/Load Coupling**
KEVIN STELZER—B+H Architects

The presentation will demonstrate how buildings do not operate in isolation, and pursues understanding of urban interconnectivity. The unique energy demands

of individual buildings can afford the opportunity to optimize energy distribution within cities. Urban energy management can offer great economies of scale as well as energy load diversification across integrated energy loops. Creative use of proven technologies including cogeneration, energy storage and demand/load coupling can help us utilize waste heat for the betterment of the energy performance of our urban environments.

84 **SCALE AND SCALABILITY**
AZAM KHAN—Autodesk Research

City visualization will be explored by focusing on a building visualization platform. In turn, the presentation will offer a methodology that scales from a single building to a full city, conceptualizing relevant dimensions for the complex topic of cities, living and sustainability.

114 **SOFTWARE TOOLS FOR ENGINEERING AND DESIGN EXPLORATION**
IAN KEOUGH—Buro Happold

The presentation includes a focus on custom software tools created for engineering complex structures. Recent Buro Happold projects will be illustrated as examples of the process by which a tool is conceived, constructed, and utilized. In a second part, specialized software tools created for design exploration will be detailed. These tools allow for investigation of design concepts through parametric modeling, iterative analysis, and visual programming.

146 **PLANETARY CITIES: Ecology and Design for Tomorrow**
MITCHELL JOACHIM—Terreform One/ New York University

This presentation will focus on developing innovative solutions and technologies for local sustainability in energy, transportation, infrastructure, buildings, waste treatment, food, water and media spaces.

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