Living Cities: Vision and Method

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LIVING CITIES
Vision and Method for Regenerative Design

RESOURCE POSITIVE ARCHITECTURE | WATERLOO ARCHITECTURE
LIVING CITIES

Vision and Method for Regenerative Design
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4  PREFACE
   ERIC HALDENBY—Waterloo Architecture

5  SYNOPSIS

6  THE CONNECTING THREAD
   DOUGLAS MACLEOD—Okanagan College

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.
References

Citation for the above:

For further reading:


