

Regenerative Architecture: Visions of the Future

October 4 – December 21, 2008

About Regenerative Architecture

How do you imagine buildings, neighbourhoods and landscapes to look and behave when they sustain humankind and the planet? This question was posed in an open call for proposals issued by the Surrey Art Gallery. Respondents include architects, engineers, building designers, interior designers, industrial designers, landscape architects and urban planners who are engaged in the development of future buildings. This exhibition showcases their imagined buildings, systems and communities.



List of Projects in Regenerative Architecture

Solar Courtyard Housing

Allen Aubert Architect Inc.
Surrey, BC
Rigor Nerpio
John Sprung



A new modern twist on solar courtyard housing suitable for North Americans living on or above the 49th parallel that provides an affordable design solution using every day construction methods and materials... where it is possible for each courtyard home to receive one hour of sunlight every day the sun shines and operate with passive and active solar and geothermal techniques. The courtyard home is a green and healthy home

The Ele-car Transportation System

Richard M. Prutton, P.Eng.
North Vancouver, BC

Powered by electricity, Ele-cars raise themselves from the ground to an overhead guideway, then travel along the guideway to a destination. In sunny regions, electricity is generated from solar cells on the top surfaces of the Ele-cars.

Visions of the Now – A Sustainable Home for Book Lovers

HELLIWELL + SMITH • BLUE SKY ARCHITECTURE INC.
West Vancouver, BC
Principle Architects – Bo Helliwell and Kim Smith

Inspired by the sweep of the shoreline and orientation to the sun, the house and protected garden form an oval in plan. Located on a remote Island there are no ferries, electric power or services provided. All energy and utilities had to be generated and sustained on-site.

Bio-graft Project, Gateway Node

Stantec
Vancouver, BC
www.stantec.com

Proposes a development that will integrate human-built form with natural systems and reconnect the ravine network in the area of Surrey's Gateway Skytrain Station.

Your RV ... You're Home

Alan Palmer
Chilliwack, BC

Your RV ... You're Home: Your RV becomes the interior living area of your private condo. Using inexpensive hillside locations, trailers and motorhomes are installed into private cubicles as full-time living accommodations.



Accretion, Insertion and Intensification

SHAPE Architecture: Nick Sully, Alec Smith, Hannah Teicher, Matthew Traub, Michael Fugeta
Vancouver, BC
www.shape-arch.ca

Negotiating within and around existing zoning strictures to achieve a more nuanced, fruitful and exuberant built reality: regeneration. Three inner city Vancouver examples cited.



Regeneration in Vancouver has typically meant reconstructing the status quo or demolishing and replacing whole city blocks. In other words, it is merely a form of redevelopment rather than a fertile transformation. As an alternative, Shape Architecture proposes an "agile development methodology." This first step offers feasible means of generating urban context through recycling, reusing, reworking or reconfiguring in order to respond to a rapidly evolving urban context. These real world studies of this approach suggest the potential to create a more nuanced city where existing resources and materials are re-used and reused rather than discarded.

SHAPE
Architecture Inc.

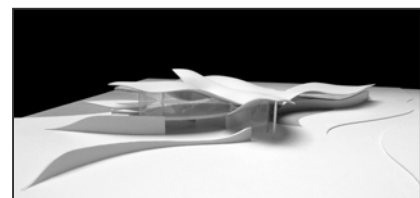
The Enthalpy of Empty Space

Michael Barton
Vancouver, BC

The Enthalpy of Empty Space: Gathering discarded plastic from the ocean and constructing a synthetic land commodity. The oceans are "cleaned" of plastic as a new habitat is created to accommodate a burgeoning global population.

VanDusen Botanical Garden

Busby Perkins+Will
Vancouver, BC
Peter Busby, Managing Director
Jim Huffman, Design Principal
R. Glover
H. Grusko
www.busbyperkinswill.ca



Innovative design features of the VanDusen Botanical Gardens facility and surrounding landscape will seek the positive co-evolution of natural and human systems.

Residential Development at 13111 King George Highway, Surrey, BC

WG Architecture Inc.:

Wojciech S. Grzybowicz, Yuri Afansiev, Elizabeth Berezowska, Agnieszka Modzelewska

Landscape Architect: JHL Design Group Inc., Jenny Liu

Vancouver, BC

Stepping up semicircular apartment building and stepping down rows of townhouses create a sophisticated, dynamic architectural composition and a unique, sustainable multi-family structure.

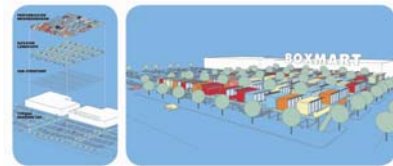
Big-Box/Little-Box

Mark Ashby

Walter Francl Architecture Inc.

Vancouver, BC

Capitalizing on the under-utilized parking lot of the “Big-Box” to create a suspended landscape in which culture and community may be planted anew.



Huilo-Huilo Viewing Platform, Naramata Roof Structure, Loon Lake Cabin and Loon Lake Outdoor Theater Roof Structure

Oliver Neumann, Assistant Professor

School of Architecture + Landscape Architecture

University of British Columbia

Vancouver, BC

Oliver Neumann with Ana Sandrin, Mike Lemon, AnnaLisa Meybook

The Huilo-Huilo Viewing Platform, the Naramata Roof Structure, the Loon Lake Cabin and the Loon Lake Outdoor Theater Roof Structure are 4 digital wood fabrication projects that explore design as complex energy and material systems and products of diverse cultural, economic, and environmental conditions engaged with their extended context.

Midcourse Correction

Dale R. Parkes, Registered Architect-MAIBC

Lecturer

Engineering, Design & Drafting Technology

School of Advanced Technologies and Mathematics

Thompson Rivers University

Kamloops, BC

www.tru.ca

In order to significantly alter our present course that will undoubtedly lead to disaster, we must make drastic changes to the way we build. This does not mean demolishing what we have built, for this would be an even greater tragedy, but we must derive innovative solutions that will result in buildings that improve the environment instead of harming it. These footprint reducing buildings (FoRBs) will clean air, water and soil, while generating renewable energy.