41° to 66°: Regional Responses to Sustainable Architecture in Canada October 4 – December 21, 2008

To many people, the phrase "sustainable architecture" means caulking their windows and installing a solar panel or two. But in fact, sustainable architecture is about much more than smart technology and energy-saving devices.

Today, a growing number of Canadian architects see sustainable architecture in the context of a broader contemporary sensibility that revisits the roots of 20th century Modernism, while also drawing inspiration from regional material culture and building design traditions, many of which were developed in direct relation to local climatic and geographic conditions.

This emergence of regionalism as a theme in contemporary Canadian architecture can be seen to parallel the development of an interest in sustainable design, because the two phenomena often overlap. As architect Niklaus Kohler notes: "Because of the shortage of resources, traditional vernacular building practices have tended intuitively, through trial and error, towards economically and environmentally optimal solutions." In addition to their technologically appropriate responses to geography and environment, regional architectures typically embody the essence of local cultural identity, be it the embodied wisdom of rural vernacular building practices or the environmental attunement and animistic cosmology of indigenous cultural traditions. This offers a potentially rich alternative to the conventional perception of sustainable architecture as driven by technology and energy performance. Instead, it lends itself to the pursuit of an architecture whose responsiveness to local conditions leads not only to greater energy and material efficiencies, but that also addresses local cultural and tectonic traditions, leading to greener and also more meaningful architecture.

41° to 66° is national in its scope, with recent examples of sustainable architecture in Canada from coast to coast to coast. It is laid out in six regions (Arctic, West Coast, Mountain, Prairie, Continental, Atlantic) with photo and text wall panels, and six beautiful models.



Co-curator John McMinn leads a tour of the exhibition on October 4. Photograph by Sharon Doucette.

Exhibition Curators

John McMinn, Associate Professor, School of Architecture, University of Waterloo Marco Polo, Assistant Professor, Department of Architectural Science, Ryerson University

A catalogue is available for this exhibition.

Arctic

Project: Tr'ondek Hwech'in Cultural Centre

Location: Dawson City, Yukon Client:Tr'ondek Hwech'in First Nation Architect: Maurer Kobayashi Architects

Structural: Wood & Associates Structural Engineers

Mechanical: Northern Climate Engineering Electrical: Dorward Engineering Services

Photography: Chris Chiei

Completion: 1999

Project: Mayo Replacement School

Location: Mayo, Yukon

Client: Yukon Territory Government & Department

of Education

Architect: Kobayashi + Zedda Architects Ltd.

Structural: Fast & Epp Partners

Mechanical: Northern Climate Engineering Energy Engineer: G.F. Shymko & Associates Electrical: Dorward Engineering Services Ltd. Landscape: Inukshuk Planning and Development Photography: Kobayashi + Zedda Architects Ltd.

Completion: 2003

Project: Kugluktuk Recreation Complex Location: Kugluktuk, Northwest Territories

Client: Hamlet of Kugluktuk Architect: Pin/Matthews Architects

Structural: FSC Group Mechanical: FSC Group Electrical: FSC Group Photography: Pin/Matthews

Completion: 1998

Project: Kiilinik High School

Location: Cambridge Bay, Nunavut Client: Government of Nunavut Architect: Pin/Taylor Architects

Structural: Armstrong and Nelson, Engineers and

Land Surveyors

Mechanical: Thorn Engineering

Electrical: FSC Group

Photography: Pin/Taylor Architects

Completion: 2002

Atlantic

Project: Murdena Marshall Meeting Hall Location: Eskasoni First Nation, Nova Scotia

Client: Murdena Marshall Designer: Richard Kroeker

Structural: Buro Happold (Michael Dickson, Chris

Williams)

Electrical: Albert Marshall Landscape: Albert Marshall Photography: Richard Kroeker

Completion: 2004

Project: Danielson Cottage

Location: Smelt Brook, Cape Breton Island, Nova

Scotia

Client: Esther and Bill Danielson

Architect: MacKay-Lyons Sweetapple Architects

Ltd.

Structural: Campbell Comeau Engineering Ltd. Photography: Undine Prohl, Brian MacKay-Lyons

Completion: 1998

Project: Messenger House II

Location: Upper Kingsburg, Nova Scotia Client: Mary and John Messenger

Architect: MacKay-Lyons Sweetapple Architects

Ltd.

Structural: Campbell Comeau Engineering Ltd.

Photography: James Steeves

Completion: 2003

Project: Howard House

Location: West Pennant, Nova Scotia Client: Vivian and David Howard

Architect: MacKay-Lyons Sweetapple Architects

Ltd.

Structural: Campbell Comeau Engineering Ltd. Photography: Undine Prohl, James Steeves

Completion: 1999

Project: Centre d'Interpretation de Bourg de Pabos

Location: Pabos, Quebec

Client: La corporation du Bourg de Pabos

Architect: Atelier Big City Structural: Kumar Malde Mechanical: Plante et Associés Electrical: Plante et Associés

Landscape: Le Groupe Lestage (Claude Cormier)

Photography: Michel Laverdière

Continental

Project: Computer Science Building, York

University

Location: Toronto, Ontario Client: York University

Architect: Architects Alliance in joint venture with

Busby + Associates Architects Structural: Yolles Partnership Inc. Mechanical: Keen Engineering Electrical: Carinci Burt Rogers

Landscape: Robert Packham Design Inc. Sustainability: Berkebile Nelson Immenschuh

McDowell

Photography: Steven Evans

Completion: 2001

Project: Jackson-Triggs Estate Winery Location: Niagara-on-the-Lake, Ontario

Client: Vincor International Inc.

Architect: Kuwabara Payne McKenna Blumberg

Architects

Structural: Blackwell Engineering Mechanical: Keen Engineering Electrical: Carinci Burt Rogers Civil: Kerry T. Howe Engineering

Landscape: Janet Rosenberg & Associates Photography: Robert Burley/Design Archive, Eduard Heuber/Arch Photo Inc., Peter Sellar/Klik

Completion: 2001

Project: Moorelands Camp Dining Hall Location: Lake Kawagama, Dorset, Ontario Client: Downtown Churchworkers Association

Architect: Shim-Sutcliffe Architects Structural: Blackwell Engineering Mechanical: Toews Systems Design Electrical: Carinci Burt Rogers

Photography: Michael Awad, James Dow

Completion: 2001

Project: Thunder Bay Regional Health Centre

Location: Thunder Bay, Ontario

Client: Thunder Bay Regional Hospital; Cancer Care Ontario; Northwestern Ontario Regional

Cancer Centre

Architect: Salter Farrow Pilon Architects

(restructured as Farrow Partnership Architects Inc.

and Salter Pilon Architects Inc.)

Structural: Mikelson/Cook joint venture Mechanical: H.H. Angus & Associates Ltd. Electrical: H.H. Angus & Associates Ltd. Landscape: Schollen & Company with KSGM

Architects and Engineers

Photography: Farrow Partnership Architects

Completion: 2004

Project: Bahen Centre for Information Technology,

University of Toronto Location: Toronto, Ontario

Client: University of Toronto, Faculty of Applied Science and Engineering, Faculty of Arts and

Science

Architect: Diamond and Schmitt Architects Inc.

Structural: Read Jones Christoffersen Mechanical: Keen Engineering Electrical: Crossey Engineering Ltd.

Landscape: Ian Gray & Associates/Diamond and

Schmitt Architects Inc. Photography: Steven Evans

Completion: 2002

Project: Integrated Learning Centre at Beamish-

Munro Hall, Queen's University Location: Kingston, Ontario Client: Queen's University

Architect: Bregman + Hamann Architects Structural: Halsall Associates Limited Mechanical: Smith & Anderson Consulting

Engineers

Electrical: Crossey Engineering

Environmental: Allen Kani & Associates Landscape: Janet Rosenberg & Associates Photography: Richard Johnson of Interior Images

Completion: 2004

Project: Angus Technopole Location: Montreal, Quebec

Client: Societé de Developpement Angus Architect: Ædifica Architecture + Design +

Engineering

Structural: Dessau Soprin, SNC-Lavalin inc. Mechanical: Dessau Soprin, Pellemon inc. Electrical: Dessau Soprin, Pellemon inc.

Environmental: SNC-Lavalin environnement inc.

Photography: Michel Tremblay

Completion: 1999

Project: Mountain Equipment Co-op Store

Location: Ottawa, Ontario

Client: Mountain Equipment Co-op

Architect: Linda Chapman Architect & Christopher

Simmonds Architect

Structural: Cleland Jardine Engineering Limited

Mechanical: Leslie Jones & Associates Electrical: Leslie Jones & Associates Waste Management: by dEsign

Landscape: Jim Lennox

Photography: Ewald Richter Photography Ltd.

Prairie

Project: Alloway Reception Centre, Fort Whyte

Centre

Location: Winnipeg, Manitoba Client: Fort Whyte Centre

Architect: Syverson Monteyne Architecture with Carl

Nelson Jr.

Structural: John Glanville, Russell Brandt

Mechanical: SMS Engineering Electrical: SMS Engineering

Landscape: Syverson Monteyne Architecture with Carl Nelson Jr. and Lee Caldwell of Fort Whyte

Centre

Photography: Henry Kalen, Andrew Sikorsky

Photography Completion: 2000

Project: SC3 Workplace Location: Winnipeg, Manitoba

Client: Smith Carter Architects and Engineers Architect: Smith Carter Architects and Engineers Structural: Smith Carter Architects and Engineers Mechanical: Smith Carter Architects and Engineers Electrical: Smith Carter Architects and Engineers Landscape: Smith Carter Architects and Engineers

Photography: Gerry Kopelow

Completion: 2004

Project: Hinton Government Centre

Location: Hinton, Alberta Client: Town of Hinton

Architect: Manasc Isaac Architects Structural: Duthie Newbie Weber Mechanical: Keen Engineering

Civil: ISL Butler Krebes Electrical: Reid Crowther Landscape: Gibbs & Brown Photography: James Dow

Completion: 2001

Project: St. John's Ambulance Location: Edmonton, Alberta Client: St. John Council for Alberta Architect: Manasc Isaac Architects

Structural: Earth Tech

Mechanical: Keen Engineering Electrical: Keen Engineering

Civil: GPEC

Landscape: Carlyle & Associates

Photography: Manasc Isaac Architects and James

Dow

Completion: 2004

Project: Athabasca Health Centre Location: Stony Rapids, Saskatchewan Client: Athabasca Health Authority Architect: Manasc Isaac Architects Structural: Cochrane Engineering Mechanical: Hukalo Oberg Engineering Electrical: Reid Crowther / Keen Engineering

Civil: Cochrane Engineering

Landscape: KLA Group c/o Browning Design Inc.

Photography: Manasc Isaac Architects

Completion: 2004

Mountain

Project: Nicola Valley Institute of Technology

Location: Merritt, British Columbia

Client: Nicola Valley Institute of Technology/

University College of the Caribou

Architect: Busby Perkins+Will (formerly Busby +

Associates Architects)

Structural: Equilibrium Consulting Mechanical: Keen Engineering Electrical: Earth Tech Canada Civil: True Engineering

Landscape: True Engineering Photography: Nic Lehoux

Completion: 2001

Project: Canmore Civic Centre Location: Canmore, Alberta Client: Town of Canmore

Architect: Marshall Tittemore Architects Structural: Cascade Engineering Group Ltd.

Mechanical: Keen Engineering Ltd. Electrical: Keen Engineering Ltd. Landscape: Landplan Associates Ltd. Photography: Sean Dennie/photoganda.ca

Completion: 2004

Project: Bragg Creek House Location: Bragg Creek, Alberta

Client: Mary Anne Moser and Tim Westbury

Architect: Marc Boutin Architect Structural: Adept Engineering Ltd.

Photography: Marc Boutin Architects and Ron

Choe

West Coast

Project: Gleneagles Community Centre Location: West Vancouver, British Columbia

Client: District of West Vancouver Architect: Patkau Architects Structural: Fast & Epp

Mechanical: Earth Tech Canada Electrical: Earth Tech Canada Civil: Webster Engineering

Landscape: Vaughan Landscape Planning &

Design

Photography: James Dow

Completion: 2003

Project: Richmond City Hall

Location: Richmond, British Columbia

Client: City of Richmond

Architect: Hotson Bakker / Kuwabara Payne McKenna Blumberg Associated Architects Structural: Bush Bohlman & Partners Mechanical: Stantec Consulting Ltd. Electrical: R.A. Duff & Associates Inc.

Landscape: Phillips Farevaag Smallenberg Inc. Photography: Martin Tessler/Joyce Drohan

Completion: 2000

Project: Revenue Canada Building Location: Surrey, British Columbia

Client: Public Works and Government Services

Canada

Architect: Busby Perkins+Will (formerly Busby +

Associates Architects)

Structural: Jones Kwong Kishi Mechanical: Keen Engineering Electrical: Reid Crowther

Landscape: Site Design Solutions Photography: Martin Tessler

Completion: 1998

Project: Liu Centre for the Study of Global Issues

Location: Vancouver, British Columbia Client: University of British Columbia

Architect: Stantec Architecture Ltd. (formerly Architectura Planning Architecture Interiors Inc.) in

collaboration with Arthur Erickson Structural: Bush Bohlman & Partners Mechanical: Keen Engineering Co. Ltd. Electrical: Robert Freundlich & Associates Landscape: Cornelia Hahn Oberlander

Photography: Gerry Kopelow

Completion: 2000

Project: White Rock Operations Building Location: White Rock, British Columbia

Client: City of White Rock Architect: Busby Perkins+Will

Structural: Fast + Epp

Mechanical: Keen Engineering Electrical: Flagel Lewandowski Landscape: Wendy Grandin

Photography: Colin Jewall + Enrico Dagostini

Completion: 2003

Project: Materials Testing Facility Location: Vancouver, British Columbia

Client: City of Vancouver Engineering Services

Architect: Busby Perkins+Will

Structural: Fast + Epp

Mechanical: Keen Engineering Electrical: Reid Crowther & Partners

Photography: Martin Tessler

Completion: 1999

Project: West Vancouver Aquatic Centre Location: West Vancouver, British Columbia

Client: District of West Vancouver

Architect: Hughes Condon Marler: Architects

Structural: Fast + Epp

Mechanical: Keen Engineering Co. Ltd.

Electrical: Robert Freundlich & Associates Ltd. Landscape: Phillips Farevaag Smallenberg Photography: Martin Tessler, Nic Lehoux, Gary

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