



UNIVERSITÉ
Concordia

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**Journée sur la
recherche nordique
6 septembre 2012**

Research at Concordia: Strategic Directions

Concordia's many researchers are addressing the needs of society across the following two clusters comprising six research thrusts:

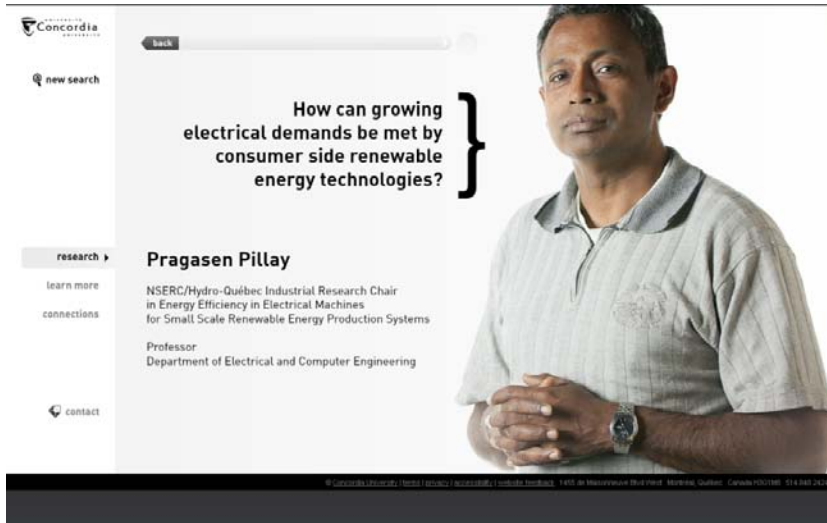
Cluster 1: The Person and Society

- Development and well-being across the lifespan and life domains
- Identity, expression, and culture
- Human systems in a global world

Cluster 2: Technology, Industry and the Environment

- Enabling technologies and their basic foundations
- Advanced materials and nanotechnology
- Energy, environment, and bioproducts

Renewable and Alternative Energies



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new search

How can growing electrical demands be met by consumer side renewable energy technologies?

research ▶

Pragasen Pillay

learn more

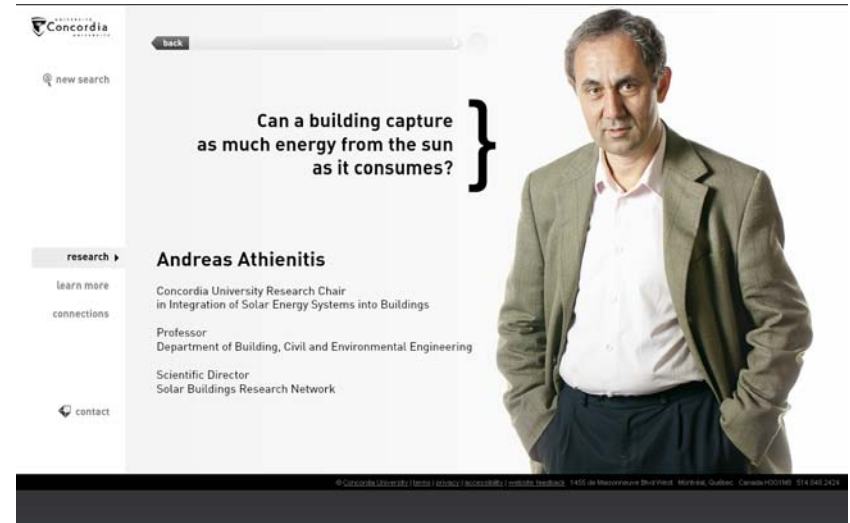
connections

NSERC/Hydro-Québec Industrial Research Chair in Energy Efficiency in Electrical Machines for Small Scale Renewable Energy Production Systems

Professor
Department of Electrical and Computer Engineering

contact

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Can a building capture as much energy from the sun as it consumes?

research ▶

Andreas Athienitis

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Concordia University Research Chair in Integration of Solar Energy Systems into Buildings

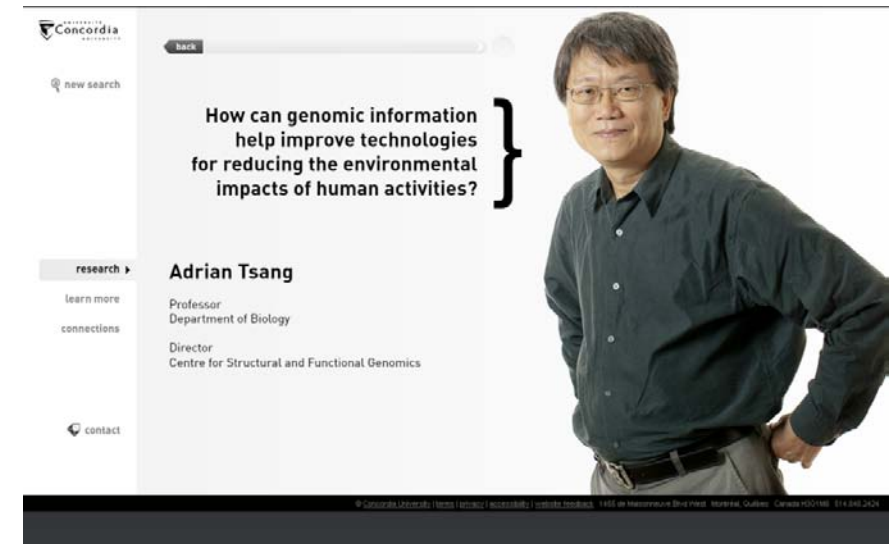
Professor
Department of Building, Civil and Environmental Engineering

Scientific Director
Solar Buildings Research Network

contact

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- Centre for Structural and Functional Genomics (Bioproducts)
- Smart Net-Zero Energy Buildings Strategic Network (SNEBSN)



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How can genomic information help improve technologies for reducing the environmental impacts of human activities?

research ▶

Adrian Tsang

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Professor
Department of Biology

Director
Centre for Structural and Functional Genomics

contact

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Dedicated Research Facilities

SNEBRN Newsletter Issue 01 July 2012

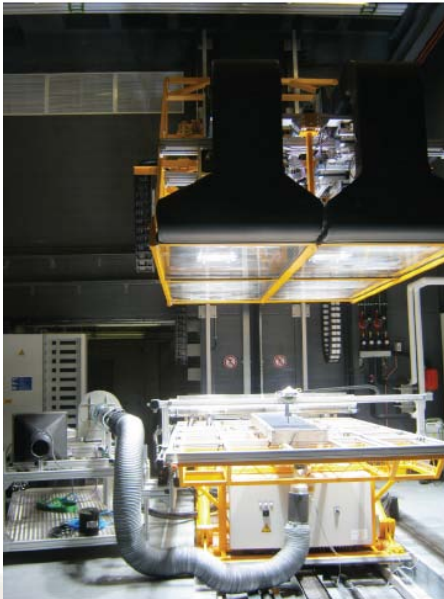


NSERC Smart Net-Zero Energy Buildings Strategic Research Network



Vision
The vision of SNEBRN is to perform the research that will facilitate widespread adoption in key regions of Canada, by 2030, of optimized NZEB energy design and operation concepts suited to Canadian climatic conditions and construction practices. We aim to influence long-term national policy on the design of net-zero energy buildings and communities in association with our partners.

Centre for Structural & Functional Genomics



Sustainability



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What does it take to go green? }

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Paul Shrivastava

David O'Brien Distinguished Professor in Sustainable Enterprise

Professor
Department of Management

Director
David O'Brien Centre for Sustainable Enterprise

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What can indigenous people teach us about sustainable resource management? }

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Monica E. Mulrennan

Associate Professor
Department of Geography, Planning and Environment

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Which are the best soil and water pollution remediation strategies? }

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Catherine Mulligan

Concordia University Research Chair in Geo-environmental Sustainability

Associate Dean, Research and Graduate Studies
Faculty of Engineering and Computer Science

Professor
Department of Building, Civil and Environmental Engineering

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- [David O'Brien Centre for Sustainable Enterprise](#)
- Institute in Water, Energy and Sustainability (NSERC CREATE)

Ecology, Biodiversity and Conservation

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rutting behavior

biodiversity life history sustainability

tropics large herbivores

behavioral ecology

management Scandinavia wildlife Africa

environment zoo research caribou

conservation

population dynamics

Robert Weladji

additional info

→ [bio: Department of Biology](#)

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How do species adapt to environmental change? }

Dylan Fraser

Assistant Professor
Department of Biology

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endangered species competition

aggressive behavior sex ratio

environment biology fish biology sustainability

territoriality behavioral ecology salmon

mating systems

conservation biology water ecology

stream ecology fish habitats

James Grant

additional info

→ [bio: Department of Biology](#)

→ [Science College](#)

→ [Loyola College for Diversity and Sustainability](#)

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Jochen Jaeger

- *Land ecology*
- *Road ecology*
- *Impact assessment*



Community well-being and development

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embodied interaction digital poetry
virtual environments
aboriginal new media
digital textuality
text
computation
design art
typography digital games
experimental typography aesthetics
experimental software
aboriginal science fiction
aboriginal poetry

Jason Edward Lewis

additional info

→ bio: Department of Design and Computation Arts
→ OBX Laboratory for Experimental Media
→ Poems for Excitable (Mobile) Media

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What does the virtuality of ecological threat tell us about conventional understandings of nature and culture?

Peter van Wyck

Professor
Department of Communication Studies

Graduate Program Director:
MA in Media Studies

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How can educational technologies help students develop strategic learning skills and higher order thinking?

Phil Abrami

Concordia University Research Chair in Education

Professor
Department of Education

Director
Centre for the Study of Learning and Performance

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- [Institute for Community Entrepreneurship and Development \(ICED\)](#)
- [Centre for Studies in Learning and Performance](#)
- [PERFORM Centre](#)
- [School of Community and Public Affairs](#)

New Initiatives

- Telehealth (satellites, devices)
- Public and Population Health
- Mobile media



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