Eugene Mohareb, Ph.D.

Current Role

Post-Doctoral Researcher, University of Cambridge 2014 - Present
Role: Leading research examining retrofit technology adoption, projections of GHG emissions from urban technology stocks, and urban approaches of climate change mitigation of the food system

Education

Ph.D., Civil (Environmental) Engineering, University of Toronto 2008-2012
Advisor: Dr. Chris Kennedy   **Focus:** Greenhouse Gas (GHG) Emissions from Cities

M.Sc., Biological Engineering, University of Guelph 2001-2003
Advisor: Dr. Gauri Mittal   **Focus**: Optimisation of Edible Packaging Trays

B.Sc.(Eng), Biological Engineering, University of Guelph 1997-2001
Advisor: Dr. Gauri Mittal   **Focus:** Process Engineering in the Food Industry

Consulting Experience

Urban Sustainability 2012 - Present
Role: Assisted clients in quantification of carbon footprints, energy demand scenarios, climate change adaptation, funding strategies, capacity building, and general urban sustainability issues
Clients have included: CBC, City of Toronto, The Next Practice, Lao PDR MoH, UN-HABITAT

Quality Assurance 2004 - 2012
Role: Consulted with 12 micro & small enterprises on the installation and maintenance of food safety and quality systems, as well as the adoption of energy efficiency measures (100% audit success rate)
Clients have included: Shasha Bread, New Moon Kitchen, Mimac Glaze, Mr. Pita, Silverstein's Bakery

Teaching Experience

Infrastructure for Sustainable Cities, Course Instructor, U. Toronto 2012
Urban Engineering Ecology, Teaching Assistant, U. Toronto 2008, 2010, 2011
Efficient Use of Energy, Teaching Assistant, U. Toronto 2009
Environmental Impact & Risk Assessment, Teaching Assistant, U. Toronto 2009 - 2011
Engineering Economics, Teaching Assistant, U. Guelph 2001

Selected Publications

Peer Reviewed
Residential GHGs from Major Canadian Cities, *CJCE* (2014), **41(4)**, 285 - 293
Scenarios of Technology Adoption for Low-Carbon Cities, *Energy Policy* (2014), **66**, 685 - 693
GHG Scenario Modeling for Cities, *J. of Industrial Ecology* (2012), **16(6)**, 875 - 888
Cities Reducing their GHG Emissions, *Energy Policy* (2012), **49**, 774 - 777
Carbon Sinks for Urban Inventories, *J. of Industrial Ecology* (2012), **16(3)**, 302 - 316
Assessment of Quantification Methods for GHGs from Waste, AWMA Journal (2011), **61(5)**, 480 - 493
Decoupling of Building Energy Use and Climate, *Energy & Buildings* (2011), **43(10)**, 2961 - 2963

Reports & Book Chapters
Energy Efficiency Potential in Alberta, Alberta Energy Efficiency Alliance (2014)
Improving Energy Efficiency in Alberta's Buildings, Pembina Institute (2014)
Getting to Carbon Neutral; in *Energy Efficient Cities*, World Bank (2010)
G2CN - A Guide for Canadian Municipalities, Toronto Regional Conservation Authority (2010)

Conferences Research has been presented at 15 national & international conferences

Awards Research has been funded with over $200,000 (CAD) in grants, scholarships, and fellowships, from public (NSERC) & private (AWMA) organisations

Areas of Interest

Urban Sustainability
Low-Carbon Infrastructure
Technology Adoption
Sustainable Food Systems

General Skills

GHG Accounting
Life Cycle Assessment
Statistical Analysis
Programming: Python, R

Web Presence

Research
LinkedIn
Google Scholar
Twitter
University of Cambridge

Professional Affiliations

Memberships
o Air & Waste Management Association
o Canadian Green Building Council
o Canadian Society of Civil Engineers
o International Society for Industrial Ecology

Peer Reviewer
o Carbon Management
o Energy & Buildings
o Energy Policy
o Environmental Science & Technology
o J. of Cleaner Production
o J. of Industrial Ecology
o Waste Management

Personal Interests

Backcountry Camping
Hiking / Trekking
Doubles Tennis
Floor Hockey
Canoeing
Cycling

Contact Information

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