



## Ted J. Kesik

January 23, 1954 -

## CURRICULUM VITAE

As of March 2023

Ted Kesik is a professor of building science in the John H. Daniels Faculty of Architecture, Landscape and Design at the University of Toronto with a career focus on the integration of professional practice, research and teaching. He entered the construction industry in 1974 and has since gained extensive experience in various aspects of building enclosure design, energy modeling, quality assurance, commissioning, performance verification, and building systems integration. Professor Kesik's research and professional interests include resilience, sustainability, durability, high performance buildings, life cycle assessment and building performance simulation. His current research involves the development of design guidelines for low-carbon buildings that are resilient, sustainable and promote climate change adaptation. Dr. Kesik continues to practice as a consulting engineer to leading architectural offices, forward thinking enterprises and progressive government agencies. He remains actively involved in technical organizations and is the author of numerous books, studies, reports and articles related to his areas of research and professional practice.

### Education

1992	Ph.D.	Department of Civil Engineering, University of Toronto
1986	M.A.Sc.	Department of Civil Engineering, University of Toronto
1983	B.A.Sc. (cum laude)	Department of Civil Engineering, University of Ottawa

### Employment

05/2013 to Present	Full Professor	John H. Daniels Faculty of Architecture Landscape and Design, University of Toronto
07/2021 to 06/2025	Full Professor	Cross Appointed, Department of Civil & Mineral Engineering, University of Toronto
09/1990 to 12/1991	Visiting Lecturer	Ontario College of Art and Design (Environmental Design)
12/1998 to 09/1989	Professor	Department of Architectural Science, Ryerson University, Toronto ON
12/1998 to 02/1986	Principal	Habitechnica (Building Science Engineering), Toronto ON
1983 -1986	Research Engineer	Centre for Building Science, University of Toronto

### Professional Affiliations and Activities

- Member, Association of Professional Engineers of Ontario (since 1986)
- Member, American Society of Heating, Refrigeration and Air-Conditioning Engineers (since 1990)
- Expert Panel Member, Ontario Energy Board, Natural Gas Demand Side Management Stakeholder Advisory Group

## Honours & Awards

- *Façade Tectonics Institute Fellow*, inducted October 13, 2022 at the FTI World Congress in Los Angeles, California.
- *IBPSA Fellow*, inducted September 3, 2019 at the International Building Performance Simulation Association's Building Simulation 2019 conference in Rome, Italy.
- *Ontario Wood WORKS Institutional Wood Design Award*, (Sustainability Consultant for LGA Architectural Partners) awarded for McEwen School of Architecture, Laurentian University, Sudbury ON by Canadian Wood Council, November 2017.
- *Design Excellence Award* (Sustainability Consultant for LGA Architectural Partners) awarded for McEwen School of Architecture, Laurentian University, Sudbury ON by Ontario Association of Architects, April 2018.
- *Public Project of the Year* (Building Envelope Consultant in collaboration with DIALOG) by Ontario Public Works Association, for Bill Fisch Forest Stewardship and Education Centre, 2016.
- *Ontario Regional and Technical Award* (Building Envelope Consultant in collaboration with DIALOG) by Canadian Green Building Awards for Bill Fisch Forest Stewardship and Education Centre, 2016.
- *Environmental Building Wood Design Award* (Building Envelope Consultant in collaboration with DIALOG) by 15<sup>th</sup> Annual Wood WORKS! Awards, for Bill Fisch Forest Stewardship and Education Centre, 2015.
- *Anthony A. Woods Award* for Significant Career Contribution to the Design, Construction and Performance of the Building Envelope, Ontario Building Envelope Council, 2015.
- *Canadian Green Building Award* (Sustainability Consultant), Goldcorp Mining Innovation Suite, Lassonde Mining Building, University of Toronto in collaboration with Baird Sampson Neuert Architects Inc., 2014.
- *Governor General's Medal in Architecture* (Sustainability Consultant), Residence for the Sisters of St. Joseph, Toronto, Ontario, in collaboration with Shim-Sutcliffe Architects, 2014.
- *Governor General's Medal in Architecture* (Building Envelope Consultant), Integral House, Toronto, Ontario, in collaboration with Shim-Sutcliffe Architects, 2012.
- *Governor General's Medal in Architecture* (Sustainability Consultant), French River Visitor Centre, Parks Ontario, in collaboration with Baird Sampson Neuert Architects Inc., 2010.
- *Federation of Canadian Municipalities Sustainable Community Awards* (Sustainability and Peer Review Consultant), Newmarket Eco-Homes: Canada's First Occupied Neighbourhood of LEED® Platinum Homes, in collaboration with Baird Sampson Neuert Architects Inc., 2010.
- *Governor General's Medal in Architecture* (Sustainability Consultant), Erindale Hall, University of Toronto at Mississauga, in collaboration with Baird Sampson Neuert Architects Inc., 2006.
- *Canadian Architect Award of Excellence* (Sustainability Consultant), Thomas L. Wells Public School, Toronto District School Board, in collaboration with Baird Sampson Neuert Architects Inc., December 2005.
- *Canadian Architect Award of Excellence* (Sustainability Consultant), French River Visitor Centre, Parks Ontario, in collaboration with Baird Sampson Neuert Architects Inc., December 2005.
- *Canadian Architect Award of Excellence* (Sustainability Consultant), S.W.A.M.P. House, Sauble Beach, Ontario, in collaboration with Velikov + Thun Building Studio, December 2005.
- *Governor General's Medal in Architecture* (Sustainability Consultant), Fleck Residence (Weathering Steel House), in collaboration with Shim-Sutcliffe Architects, Toronto, 2004.
- *Finalist* (Team Member), *St. Mark's Coptic Village International Design Competition*, in collaboration with Ivan Saleff Architect, July 2003.
- *Canadian Architect Award of Excellence* (Sustainability Consultant), Erindale Hall, University of Toronto at Mississauga, in collaboration with Baird Sampson Neuert Architects Inc., December 2002.
- *CSA Certificate of Appreciation* (Codes Development), presented by Pat Keindel, President, Standards, November 2001.
- *3rd Place Award* (Team Member), Erindale College, University of Toronto, *Student Centre Competition*, University of Toronto/OAA, with Daniel Cusimano, Ivan Saleff and Joseph Campitelli, December 1996.
- *R-2000 Certificate of Appreciation*, Energy Mines and Resources Canada, 1989.

## Significant Research Projects

- *Mass Timber Building Science Primer*, Mass Timber Institute, University of Toronto, funded by Ontario Ministry of Natural Resources and Forestry (2021).
- *Building Thermal Resilience Design Guide*, funded by ROCKWOOL Inc. (June 2019).
- *MURB Design Guide Version 2.0*, funded by BC Housing (February 2019).
- *Resilience Planning Guide*, funded by ROCKWOOL Inc. (November 2017).
- *MURB Design Guide and Condo Buyers Guide Version 1.0*, funded by BC Housing and Ontario Ministry of Research and Innovation (January 2017).
- *Best Practices Guide: Management of Inflow and Infiltration in New Urban Developments*. Institute for Catastrophic Loss Reduction, Toronto, Ontario, February 2015. <http://iclr.org/iibestpractices.html>
- *Tower Renewal Guidelines* - Principal Researcher, 2008-2009, City of Toronto, Toronto Atmospheric Fund and Canada Mortgage and Housing Corporation.
- *Solar Buildings Conceptual Design Tool* - Research Co-Supervisor, 2006-2011, Solar Buildings Research Network (NSERC Strategic Network Program).
- *Cost-Benefit Study of City of Toronto's Green Development Standard* - Principal Researcher, 2007-2008, on behalf of the City of Toronto, Federation of Canadian Municipalities, and Ontario Centres of Excellence.
- *Environmental Separator Performance Matrix Methodology* - Research Supervisor, 2003 - 2007, Natural Sciences and Engineering Research Council, Discovery Grant.
- *Practical Measures for the Prevention of Basement Flooding Due to Municipal Sewer Surcharge* - Principal Researcher, 2002-2003, Canada Mortgage and Housing Corporation, External Research Program.
- *Performance Guidelines for Basement Systems and Materials* - Co-Researcher, 2000-2005, Institute for Research in Construction, National Research Council Canada.

## Praxis

### 2023

- Sustainability Review Consultant, *St. Lawrence Centre for the Arts Design Competition*, on behalf of CreateTO.
- Building Envelope Retrofit Consultant, *ReCONstruct: Building Energy Retrofit Solutions for Canada*, on behalf of Principal Investigator, Professor Michael Jemtrud, School of Architecture, McGill University.
- Building Envelope, *Place Griffintown*, Montréal social housing development, on behalf of Daniel Pearl, Architecte associé, cofondateur L'OEUF (L'Office de l'éclectisme urbain et fonctionnel), Montreal, PQ.

### 2022

- Building Envelope and Thermal Resilience Consultant, *Demain Montréal*, C40 Reinventing Cities project on behalf of Daniel Pearl, Architecte associé, cofondateur L'OEUF (L'Office de l'éclectisme urbain et fonctionnel), Montreal, PQ. <https://loeuf.com/en/project/c40-demain-montreal-2/>
- Building Envelope Consultant, *Vaudreuil-Dorion Municipal Center*, Urban ecosystem and civic environment transformation, on behalf of Daniel Pearl, L'OEUF Architectes, Montreal, PQ. <https://loeuf.com/en/project/vaudreuil-dorion-municipal-center/>
- Building Envelope and Systems Integration Consultant, *Lab École Rimouski*, on behalf of Daniel Pearl, L'OEUF Architectes, Montreal, PQ. <https://loeuf.com/en/project/lab-ecole-rimouski/>
- Environmental Consultant, *Comprehensive Retrofit and Decarbonization*, 583 Palmerston Avenue, Toronto, ON for Kirsten Thomson Architect and Lara MacInnis Design.
- Continuing Education Developer/Coordinator, *Building Science Training Program* for Principal Scientists and Engineers Group, Owens Corning Acoustic and Insulation Product Testing Laboratories, Granville, OH.

### 2021

- Building Science Team Leader. *Mass Timber Building Science Primer*. Mass Timber Institute, University of Toronto. Funded by Ontario Ministry of Natural Resources and Forestry. [https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/MTBSP/MTBSP-Version1.0-03-17-21.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/MTBSP/MTBSP-Version1.0-03-17-21.pdf)
- Building Science Advisor. *Life Cycle Analysis of Embodied Carbon in Building Materials*. Infrastructure Ontario and Ontario Ministry of Natural Resources and Forestry.
- Thermal Resilience Consultant. *Design Guidelines for Thermal Resilience of Social Housing*, on behalf of Service de l'Habitation, Ville de Montréal, in collaboration with Daniel Pearl, Architect, L'OEUF (L'Office de l'éclectisme urbain et fonctionnel), Montréal QC.

## 2020

- Sustainability and Resilience Advisor, *New Art Gallery of Nova Scotia Design Competition*, Building Design Group, Nova Scotia Department of Transportation and Infrastructure Renewal
- Thermal Resilience Consultant, *Design Guidelines for Thermal Resilience of Social Housing*, on behalf of Service de l'Habitation, Ville de Montréal, in collaboration with Daniel Pearl, Architect, L' O E U F (L'Office de l'éclectisme urbain et fonctionnel), Montréal QC.
- Building Science Consultant, *Canada's Earth Tower Design and Prototype Competition*, development of CLIPS envelope system in collaboration with Element5, June 2020.

## 2019

- Building Enclosure Consultant, *C40 Reinventing Cities Competition*, *De la Commune Service Yard - Montréal*, in collaboration with Daniel Pearl, Architect, L' O E U F (L'Office de l'éclectisme urbain et fonctionnel), Montréal QC, on behalf of team Demain Montréal.
- Principal Author, *Thermal Resilience Design Guide*, funded by ROCKWOOL Inc.  
[https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/Thermal-Resilience-Guide-v1.0-May2019.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/Thermal-Resilience-Guide-v1.0-May2019.pdf)
- Collaborator - NSERC CREATE for *Design of Living Infrastructure for Ecosystem Services (DesignLIFES) Training Program* (J.Drake - Principal Investigator).

## 2018

- Sustainability Review Consultant, *The Arbour Design Competition*, Landmark Tallwood School of Computer Technology at East Bayfront, on behalf of George Brown College, in collaboration with DTAH.
- Principal Researcher, *Thermal Resilience Design Guide*, funded by ROCKWOOL Inc.

## 2017

- Sustainability Review Consultant, *Etobicoke Civic Centre Design Competition*, on behalf of BUILD Toronto.
- Judging Panel Member, *EIFS Council of Canada 2016-17 ECC Architectural Design Awards*.

## 2016

- Building Envelope Consultant, *Phillips House Redevelopment Project*, North York General Hospital, North York, ON on behalf of Montgomery Sisam Architects.
- Principal Author, *Resilience Planning Guide*, on behalf of Roxul Inc.  
[https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/Resilience-Planning-Guide-v1.0-2017-11-19.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/Resilience-Planning-Guide-v1.0-2017-11-19.pdf)
- Principal Author, *MURB Design Guide*, on behalf of Homeowner Protection Office, BC Housing and Ontario Ministry of Research and Innovation. [https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/MURB-Design-Guide-v2-Feb2019.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/MURB-Design-Guide-v2-Feb2019.pdf)

## 2015

- Building Envelope Consultant, *Western Memorial Regional Health Centre*, Corner Brook, Newfoundland on behalf of Montgomery Sisam Architects.
- Building Envelope Consultant, *Innis Lake Road House*, Caledon, Ontario, on behalf of JCI Architects Inc.

## 2014

- Sustainability and Building Envelope Consultant, *Bill Fisch Forest Stewardship and Education Centre*, Whitchurch-Stouffville, Ontario, on behalf of Dialog Design.
- Systems Integration Consultant, *Centre for Engineering Innovation and Entrepreneurship*, University of Toronto on behalf of Montgomery Sisam Architects.
- Research Consultant, *Infiltration/Inflow Mitigation for Municipal Infrastructure in New Urban Developments*, Institute for Catastrophic Loss Reduction.

## 2013

- Sustainability and Systems Integration Consultant, *Centre for Engineering Innovation and Entrepreneurship*, University of Toronto on behalf of Montgomery Sisam Architects.

## 2012

- Sustainability Consultant, *Yellowknife EcoHousing*, on behalf of Baird Sampson Neuert Architects.
- Building Systems Integration Consultant, *Ilyinskoe Residence*, Moscow, Russia, Shim-Sutcliffe Architects.
- Sustainability Consultant, *School of Architecture, Laurentian University*, Sudbury, Ontario, on behalf of Levitt Goodman Architects.
- Sustainability and Systems Integration Consultant, *Meadowvale-Sheppard Public School*, Toronto, Ontario, on behalf of Montgomery Sisam Architects.

## 2011

- Building Envelope Consultant, *Maurice Cody Public School*, on behalf of Montgomery Sisam Architects.
- Building Envelope Consultant, *Greenwood College School*, on behalf of Montgomery Sisam Architects.
- Sustainability Consultant, *Churchill Public School*, Toronto District School Board, on behalf of Baird Sampson Neuert Architects.

## 2010

- Sustainability and Building Envelope Consultant, *Kipling Acres Healthcare Facility*, Toronto, Ontario, on behalf of Montgomery Sisam Architects.
- Building Envelope and Sustainability Consultant, *Sisters of St. Joseph Residence*, Toronto, on behalf of Shim Sutcliffe Architects.
- Sustainability Consultant, *Mission 2050: Agricultural Research Facility*, University of Guelph, on behalf of Baird Sampson Neuert Architects.

## 2009

- Principal Researcher, *Tower Renewal Guidelines*, on behalf of City of Toronto, Toronto Atmospheric Fund and Canada Mortgage and Housing Corporation.
- Sustainability and Systems Integration Consultant, *Mining Building, University of Toronto – Interdisciplinary Design Studios, Lassonde Mineral Engineering Program*, on behalf of Baird Sampson Neuert Architects.

## 2008

- Principal Researcher and Author, *Toronto Green Development Standard Cost-Benefit Study*, on behalf of the City of Toronto, Federation of Canadian Municipalities, and Ontario Centres of Excellence.  
[https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/TRG-WEB-Version.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/TRG-WEB-Version.pdf)
- Sustainability and Building Envelope Consultant, *Ronald McDonald House*, Toronto, Ontario, on behalf of Montgomery Sisam Architects.
- Sustainability Consultant, *Net Zero Impact Sustainability Workshop*, on behalf of the City of Toronto Energy Efficiency Office.
- Systems Integration Consultant, *Bet Ha'am Synagogue*, Portland, Maine, on behalf of Shim Sutcliffe Architects.
- Systems Integration Consultant, *Lowbeer Peachey Residence*, Peterborough, Ontario, on behalf of Baird Sampson Neuert Architects.

## 2007

- Nathan Phillips Square Design Competition (Sustainability Consultant), in collaboration with Baird Sampson Neuert Architects Inc.
- Sustainability Consultant, *Mike Weir Winery*, Niagara on the Lake, on behalf of Shim Sutcliffe Architects.
- Systems Integration Consultant, *David Bowie Residence*, Woodstock, NY, on behalf of Shim Sutcliffe Architects.
- Systems Integration Consultant, *West Donlands Housing Project*, Toronto Community Housing Corporation, on behalf of Baird Sampson Neuert Architects.

## 2006

- Consultant, *Economic Assessment of Basement System Insulation Options*, for CMHC.
- Sustainability Consultant, *Design Review Committee and Advisory Committee for Regent Park Phase 1 Development*, Toronto Community Housing Corporation.
- Sustainability Consultant, *Environmental Dairy 2050*, on behalf of University of Guelph in collaboration with Baird Sampson Neuert Architects Inc.
- Building Envelope Consultant, *Integral House* on behalf of Shim Sutcliffe Architects.

## 2005

- Sustainability Consultant, *Technical Review for the Regent Park Phase 1 Design Competition*, Toronto Community Housing Corporation.
- Design Consultant, *9 Hillholme Road Residence*, Toronto, Ontario, in collaboration with Ivan Saleff Architect.
- Sustainability Consultant, *Façade Futures: A Preliminary Review of Issues Facing the EIFS Industry in Canada*, on behalf of EIFS Council of Canada.

## 2004

- Sustainability Consultant, *Thomas L. Wells Public School*, Toronto Board of Education, in collaboration with Baird Sampson Neuert Architects Inc.
- Design Consultant, *Bet Ha'am Synagogue*, Portland, Maine in collaboration with Shim-Sutcliffe Architects.

## 2003

- Systems Integration Consultant, *LightSpace*, 2003 City Spaces Exhibit, Interior Design Show, Toronto, February 13 –16, 2003 in collaboration with Baird Sampson Neuert Architects Inc.
- Design Consultant, *Integral House* (Stewart Residence), Toronto, Ontario on behalf of Shim-Sutcliffe Architects.

## 2002

- Design Consultant, *New Prayer Space*, Adrian Dominican Sisters, Adrian, Michigan, on behalf of Shim-Sutcliffe Architects.
- Design Consultant, *Tollkeeper's Cottage*, Toronto Historical Board, on behalf of Dunker Associates Architects.
- Design Consultant, *Penzo Residence Landscape*, Toronto, Ontario on behalf of Elias + Associates Landscape Architects.
- Sustainability Consultant, for Johnson Chou Design (WorkPlaySleep.01) and Kathryn Walter (2-4-6 Felt Armchair Prototype), *New Landscape: Design Transforms Canadian Furniture*, Design Exchange, January 29 - May 31, 2002.

## 2001

- Design Consultant, *French River Interpretive Centre*, Parks Ontario, on behalf of Baird Sampson Neuert Architects Inc.
- Design Consultant, *University of Toronto at Mississauga Phase VII Residence*, on behalf of Baird Sampson Neuert Architects Inc.
- Design Consultant, *University of Toronto at Scarborough Residence*, on behalf of Montgomery Sisam Associates Inc. Architects, in joint venture with Baird Sampson Neuert Architects Inc.
- Design Consultant, *Chicago Housing Authority Competition: Mixed-Income Housing for the ABLA Community*, on behalf of Shim-Sutcliffe Architects.
- Design Consultant, *'Motherboard House'* (suburban intensification retrofit with extendable renewable energy upgrades), North York, Ontario on behalf of Ivan Saleff Architect.
- Consultant, *Sustainability Options: Building Condition, Energy and Sustainability Assessment for Toronto District School Board, 155 College Street, Toronto ON* in collaboration with Baird Sampson Neuert Architects Inc.
- Consultant, *Performance Guidelines for Basement Systems and Materials*, Institute for Research in Construction, National Research Council Canada.

## 2000

- Consultant, *Sustainable Technologies Supporting the City of Windsor's Central Riverfront Implementation Plan*, Green Municipal Enabling Fund (GMEF) Application, on behalf of City of Windsor.
- Site Drainage Consultant, *2 Lismore Road*, Toronto, Ontario, Shim Sutcliffe Architects, Toronto.
- Consultant, *Economic Assessment of Basement Systems*, on behalf of Institute for Research in Construction, National Research Council of Canada, Ottawa.
- Consultant, *B149 Codes Interactive CD-ROM Project* (interactive features development for CSA's first "smart" standard), CSA International, Toronto.

## 1999

- Design Consultant, *Fleck Residence*, on behalf of Shim-Sutcliffe Architects, Toronto.
- Design Consultant, *Misery Bay Interpretive Station, Manitoulin Island, Ontario*, on behalf of Dunker Associates Architect.
- Systems Integration Consultant, *Massey College, University of Toronto*, on behalf of Shim-Sutcliffe Architects.

## 1998

- Design Consultant, *Island Home*, Toronto, Ontario, on behalf of Dunker Associates Architect.
- Environmental Consultant, *Finnish Pavilion Competition*, Expo 2000, Hanover, Germany, on behalf of Dunker Associates Architect, Toronto, Ontario.
- Consultant, *Feasibility of Innovative Basement Insulation Technologies: A Review of Existing Applications and Opportunities for Innovation*, for OC Celfortec Inc.
- Consultant, *CodeBord™ Air Barrier System Installation Manual*, for OC Celfortec Inc., Division of Owens Corning.

## 1997

- Design Consultant, *Clouston Ravine Schools*, Toronto, Ontario for Michael Kirkland, Architect.
- Design Consultant, *Pirk Residence*, Collingwood, Ontario for Dunker Associates Architect.
- Design Consultant, *Drs. Cusimano Residence*, North York, Ontario for Daniel Cusimano, Architect.
- Consultant, *Fuel Safety Handbook*, for International Approval Service Canada Inc. (Canadian Gas Association).
- Consultant, *Development of Performance Guidelines for Basement Envelope Systems and Materials*, Institute for Research in Construction, National Research Council Canada.

## 1996

- Consultant, *Residential Heat Loss and Heat Gain Calculations*, for Heating, Refrigerating and Air-Conditioning Institute of Canada.
- Consultant, *Canadian Wood-Frame House Construction*, for Canada Mortgage and Housing Corporation.
- Consultant, *IAS Venting Handbook*, for International Approval Service Canada Inc. (Canadian Gas Association).
- Design Consultant, *Guy Coulombe Residence*, Fruitvale, British Columbia with Ivan Saleft Architect.
- Consultant, *Towards Healthy Home Renovations*, with Reid/Foster Associates for Canada Mortgage and Housing Corporation.

## 1995

- Consultant, *Implications of Adopting the National Energy Code for Housing in Ontario*, for Ontario Hydro, Ontario Ministry of Housing, Ontario Ministry of Environment and Energy, the Ontario Natural Gas Association, and CMHC.
- Consultant, *Housing Energy Design with HOT2000 Applications*, for Natural Resources Canada and CHBA.
- Consultant, *CGA 8149 Gas and Propane Appliance Installation Code Handbook*, (2<sup>nd</sup> Edition, M95) for Canadian Gas Approvals Inc.
- Design Consultant, *Dunker Residence*, on behalf of Klaus Dunker, Architect.

## 1994

- Consultant, *Gas Appliance Selection*, for the Ontario Natural Gas Association.
- Consultant, *Assessment of ONHWP Priorities and CMHC Builders' Series Technical Materials*, for the ONHWP and CMHC.
- Consultant, *RFP Development for the Green Home Assessment Software Program*, for the Ontario Ministry of Environment and Energy.
- Consultant, *Builder Technical Training Program*, for the ONHWP and CMHC.
- Consultant, *1994 Housing Energy Profiles*, for Ontario Hydro.
- Consultant, *R-2000 Work Simplification Project*, for Natural Resources Canada and CHBA.
- Consultant, *Environmental Program for YMCA PineCrest Facility*, on behalf of John Hix and Janis Kravis, Architects.

## 1993

- Consultant, Ontario New Home Warranty Program 1990 Building Code Seminars, *Speaking in Code 2*, with REIC for Ontario New Home Warranty Program.
- Consultant, *Code and Construction Guide for Housing*, 2nd Edition for the Ontario New Home Warranty Program and the Ontario Ministry of Housing.
- Consultant, *Study of Substandard Building Material Imports*, with Clayton Research for Department of Industry and Trade Canada.
- Consultant, *Study of Alternatives to Full Height Basement Insulation*, for the Ontario Ministry of Housing.

- Consultant, *B149 Natural Gas and Propane Appliance Installation Codes Handbook*, for the Canadian Gas Association.

## 1992

- Consultant, *Green Builder Practices in North America and Northern Europe*, for the Ontario New Home Warranty Program.
- Consultant, *Review of CAN/CSA-F326-M91 Residential Mechanical Ventilation Systems*, for the Ontario Ministry of Housing.
- Consultant, *Study of Residential Ventilation*, on behalf of the Ontario New Home Warranty Program, the Ontario Ministry of Housing, CMHC, Ontario Hydro and the Ontario Ministry of Energy.

## 1991

- Consultant, *1991 Energy Impact and Cost Effectiveness of Energy Efficiency Improvements in Housing in Ontario*, for The Ontario Ministry of Energy.
- Consultant, *Study of Supplemental Electric Basement Heating*, for Ontario Hydro.

## 1990

- Mechanical Designer, *Stolar Residence*, Short Hills, New Jersey.
- Consultant, *Code and Construction Guide for Housing*, for the Ontario New Home Warranty Program and the Ministry of Housing.
- Consultant, *Speaking in Code*, Ontario New Home Warranty Program 1990 Building Code Seminars, with REIC for Ontario New Home Warranty Program.

## 1989

- Consultant, *Residential Energy Profiles Study, Semi-Detached and Row Housing Units*, for Ontario Ministry of Energy.
- Consultant, *Functional Specifications for Extending HOT-2000 Heating/Cooling Load Analysis Capabilities*, for Energy Mines and Resources Canada.
- Mechanical Designer, *Shane Baghai Residence*, Toronto, Ontario.

## 1988

- Consultant, *Costing and Estimating*, Renovation Contractors' Seminar for the Canada Mortgage and Housing Corporation.
- Consultant, *An Assessment of the Diffusion of R-2000 Technology to Homebuilding in Canada*, with Clayton Research Associates Limited for the Canadian Home Builders' Association.



## Publications

### Books

- Kesik, Ted and Ivan Saleff. *Tower Renewal Guidelines*, University of Toronto Press, October 2009. ([https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/TRG-WEB-Version.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/TRG-WEB-Version.pdf))
- Kesik, T. and Michael Lio. *Canadian Wood-Frame House Construction* (First Combined Imperial/Metric Edition), Canada Mortgage and Housing Corporation, Ottawa, 1997. [Published in English, French, German, Russian, Spanish and Cantonese.]
- Kesik, T. and M. Lio. (Habitechnica), *Housing Energy Design with HOT2000 Applications*, Federal Panel on Energy R&D, Natural Resources Canada, Ottawa, 1995.

### Chapters in Books

- Kesik, Ted. *Manifest Materiality - From the Mind's Eye to the Architectural Mock-up*. Essay in Ross, David. K. (2021). *Archetypes*. Reto Geiser, Editor. Standpunkte Park Books, pp. 83-91.
- Kesik, Ted. *Is Marketability Only Skin Deep?* Chapter in 80, Larry Richards (editor), WORKshop, Toronto, Ontario, 2011.
- Kesik, Ted. *Durability Is Only Skin Deep*. Published in *Concrete Toronto: A Guidebook to Concrete Architecture from the Fifties to the Seventies*. Michael McClelland and Graeme Stewart (editors), Coach House Books, 2007.

### Refereed Papers

- Nguyen, J., P. Cop, N. Hoban. B. Peters and T. Kesik. (2022). *Resonant Hexagon Diffuser: Designing tunable acoustic surfaces by combining sound scattering and Helmholtz resonators*. ACADIA 2022: Hybrids and Haecceities Conference, University of Pennsylvania, October 27-29, 2022.
- Doran, K., J. Cook and T. Kesik. (2022). *A Service Life Carbon Approach to Building Envelope Design*. CCBST 2022 - 16<sup>th</sup> Canadian Conference on Building Science and Technology, Vaughan, Ontario, October 27 & 28, 2022.
- Kesik, T., W. O'Brien and A. Ozkan. (2022). *Toward a Standardized Framework for Thermal Resilience Modeling and Analysis and Its Application to Futureproofing*. Science and Technology for the Built Environment. DOI:[10.1080/23744731.2022.2043069](https://doi.org/10.1080/23744731.2022.2043069)
- Stopps, Helen, Charlie Thorneycroft, Marianne F. Touchie, Nici Zimmermann, Ian Hamilton, Ted Kesik. (2021). *High-rise residential building makeovers: Improving renovation quality in the United Kingdom and Canada through systemic analysis*. Energy Research & Social Science, Volume 77, 2021, 102085, ISSN 2214-6296, <https://doi.org/10.1016/j.erss.2021.102085>.
- Kesik, T. et al. (2020). *The Challenges of Developing Thermal Resilience Policies, Protocols and Procedures for Buildings*. Roadmap to Resilient Ultra-Low Energy Built Environment with Integration of Renewables in 2050: Proceedings, Montreal Symposium, October 16, 2020.
- O'Brien, W. and T. Kesik. (2020). *A New Housing Stress Test: Codifying Thermal Resistance of Buildings*. Roadmap to Resilient Ultra-Low Energy Built Environment with Integration of Renewables in 2050: Proceedings, Montreal Symposium, October 16, 2020.
- Peters, T., N. Alkhalili, T. Kesik, and W. O'Brien. (2020). *Challenging Conventional Approaches for Climate-Based Daylight Simulations of Multi-Unit Residential Buildings*. 2020 Building Performance Analysis Conference and SimBuild, Chicago, Illinois, August 12 – 14.
- Kesik, T., W. O'Brien and A. Ozkan. (2020). *Towards a Standardized Framework for Thermal Resilience Modeling and Analysis*. 2020 Building Performance Analysis Conference and SimBuild, Chicago, Illinois, August 12 – 14.
- T. Peters, J. Wolf, B. Peters and T. Kesik. (2019). *Generative Design Approaches to Daylight in MURBs*. Building Simulation 2019, Rome, Italy, September 2-4.
- Alkhalili, N., T. Kesik, W. O'Brien and T. Peters. (2018). *Developing and Testing Visual Privacy Metrics*. IBPC 2018, 7th International Building Physics Conference, September 23 - 26, 2018, Syracuse, NY.
- Peters, T. and T. Kesik. (2018). *Daylight Simulation for Multi-Unit Residential Buildings: Occupant-Centered Approaches to Assessment*. eSim 2018 Conference Proceedings, Montreal, QC, May 9-10, 2018.
- Ozkan, A., T. Kesik, A.Z. Yilmaz and W. O'Brien. (2018). *Development and Visualization of Time-Based Building Energy Performance Metrics*. Building Research and Information, Published Online April 11, 2018. <https://doi.org/10.1080/09613218.2018.1451959>
- Ozkan, A., T. Kesik and W. O'Brien. *Visualization of Passive Performance Parameters Through Time-Based Metrics and Discussion of a Survey Validation of the Approach*. Building Simulation 2017, San Francisco, California, USA, August 7-9, 2017.

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- Ozkan, A., T. Kesik and W. O'Brien. *The Influence of Passive Measures on Building Energy Demands for Space Heating and Cooling in Multi-Unit Residential Buildings*. eSim 2016 Building Performance Simulation Conference, Hamilton, Ontario, Canada, May 3-6, 2016.
- Kesik, T. and William O'Brien (2014). *Feasible Upper Boundaries of Passive Solar Space Heating Fraction Potentials by Climate Zone*. eSim 2014 Building Performance Simulation Conference, Ottawa, Ontario, Canada, May 8-9, 2014.
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- Kesik, Ted and William O'Brien. *Design Methodology Embodying the Energy and Economic Performance of Solar Houses*. eSim2012 Building Simulation Conference, Halifax, Nova Scotia, May 2 & 3, 2012.
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- O'Brien, W., A. K. Athienitis and T. Kesik. *Implementation of a management system for multiple design concepts and their performance in a solar house design tool*. eSim 2010. Winnipeg, MB.
- O'Brien, W., A. Athienitis and T. Kesik. *The development of a solar house design tool*. 11th International Building Performance Simulation Association (IBPSA) Conference Glasgow, Scotland, July 27-30, 2009.
- O'Brien, W., A. Athienitis and T. Kesik. *Methodology and development of a solar house design tool*. 4th Canadian Solar Buildings Conference, Toronto, ON, June 25-27.
- O'Brien, W., A. Athienitis and T. Kesik. *Roofs as extended solar collectors: practical issues and design methodology*. 12th Canadian Conference on Building Science and Technology, Montreal, QC, May 6-8, 2009.
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- O'Brien, W., T. Kesik and A. Athienitis. *The Use of Solar Design Days in a Passive Solar House Conceptual Design Tool*. 3<sup>rd</sup> Canadian Solar Buildings Conference, Fredericton, N.B., August 20-22, 2008.
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- Kesik, T. *Assessing Sustainability Strategies for Institutional Facilities Using EE4 Screening Tool*. 9th International Building Performance Simulation Conference, Montreal PQ, August 15-18, 2005.
- Kesik, T. and Ivan Saleff. *Differential Durability, Building Life Cycle and Sustainability*. 10th Canadian Building Science & Technology Conference, Ottawa ON, May 12 & 13, 2005.
- Kesik, T. and Ivan Saleff. *Growing a New Skin: The Architectural Challenges of Building Envelope Retrofits*. 2004 ACSA Northeast Regional Meeting, Syracuse University, Syracuse NY, October 29-31, 2004.
- Kesik, T. and Jose Chavez. *Optimizing the Performance and Sustainability of Institutional Facilities in a Prevailing Cold Climate*. PLEA2004 Proceedings, Eindhoven, Netherlands, 19 - 22 September 2004.
- Kesik, T. and David De Rose. *Development of a Wall Performance Classification System*, CIB World Building Congress 2004, Toronto ON, May 2 - 7, 2004.
- Kesik, T. and Mark Simpson. *Thermal Performance of Attached Sunspaces for Canadian Houses*, eSim 2002 Conference on Building Simulation, 12-13 September, 2002, Concordia University, Montreal PQ.

- Kesik, T. *Differential Durability and the Life Cycle of Buildings*. ARCC/EAAE 2002 International Conference on Research, 22-25 May, 2002, McGill University, Montreal, PQ.
- Kesik, T. *Durability Is Only Skin Deep*. Association of Collegiate Schools of Architecture (ACSA) 2001 Technology Conference (SKINS: Where Design and Technology Meet), July 12-16, 2001, Austin TX.
- Kesik, T. *Environmental Separator Performance Matrix Methodology*. Proceedings of the International Conference on Building Envelope Systems and Technologies (ICBEST 2001), National Research Council Canada, Institute for Research in Construction, June 27-29, 2001, Ottawa ON, Vol. 2, pp. 133-138.
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- Kesik, T. and G. Papp. *Utilization of High Performance Windows and Glazing for Passive Solar Heating of Houses*, 1998 CSME Forum, May 19-22, Ryerson Polytechnic University, Toronto ON, pp. 420-427.
- Kesik, T. *Basement System Performance*. CSCE 7th Conference on Building Science and Technology, March 20 & 21, 1997, Toronto ON, pp. 227-241.
- Kesik, T. and K.A. Selby. *A Knowledge Based Systems Approach to the Assessment of Building Performance*. Second Canadian Conference on Computing in Civil Engineering, August 5-7, 1992, Ottawa ON, pp. 469-480.
- Kesik, T. and M. Lio. *A Methodological Framework for the Development of Energy Efficient Housing Policy*, Energy Efficient Builders' Association Conference, Portland, Maine, 1988.
- Kesik, T. and K.A. Selby. *Automating Construction Estimating*, Proceedings of the Canadian Society of Civil Engineers Annual Conference, May 16-18, 1990, Hamilton ON, Vol. II, Book 1, pp. 150-160.
- Kesik, T.J., and K.A. Selby. *Toward an Integrated Approach to the Management of Construction*, Proceedings of the Canadian Society of Civil Engineers Annual Conference, May 12-16, 1986, Toronto ON, Volume 1, Session 11.

## Major Technical Studies

- Mass Timber Building Science Primer, Version 1.0. 2021.  
[https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/MTBSP/MTBSP-Version1.0-03-17-21.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/MTBSP/MTBSP-Version1.0-03-17-21.pdf)
- Thermal Resilience Design Guide, Version 1.0. 2019.  
[https://pbs.daniels.utoronto.ca/faculty/kesik\\_t/PBS/Kesik-Resources/Thermal-Resilience-Guide-v1.0-May2019.pdf](https://pbs.daniels.utoronto.ca/faculty/kesik_t/PBS/Kesik-Resources/Thermal-Resilience-Guide-v1.0-May2019.pdf)
- *MURB Design Guide, Version 2.0*, funded by BC Housing (February 2017).  
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- *Resilience Planning Guide, Version 1.0*, funded by Rockwool North America (November 2017).  
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- Kesik, T. *Best Practices Guide: Management of Inflow and Infiltration in New Urban Developments*. Institute for Catastrophic Loss Reduction, Toronto, Ontario, February 2015. <https://www.iclr.org/wp-content/uploads/PDFS/best-practices-guide-management-of-inflow-infiltration-in-new-urban-developments.pdf>
- Kesik, T. and Liam O'Brien. *Sustainability Study: Misery Bay Visitors Centre and Sifferd Cottage*. Funded by Jeffrey Cook Charitable Trust with Ontario Parks. Final Report, May 17, 2011.
- Kesik, T. and Anne Miller. *Toronto Green Development Standard Cost-Benefit Study*. Funded by City of Toronto, Federation of Canadian Municipalities and Ontario Centres of Excellence. Final Report October 2008.
- Kesik, T. *Economic Assessment of Basement Insulation Options*, on behalf of Canada Mortgage and Housing Corporation, Ottawa, Final Report, November 2006.
- Swinton, M. C. and T. Kesik. *Performance Guidelines for Basement Systems and Materials: Final Report*, Institute for Research in Construction, National Research Council Canada, Ottawa, October 2005.
- Kesik, T. and Kathryn Seymour. *Practical Measures for the Prevention of Basement Flooding Due to Municipal Sewer Surcharge: Final Report*. Canada Mortgage and Housing Corporation, 2003. (External Research Program Research Report)
- Kesik, T. *Economic Assessment of Basement Systems*, Contract Report - Institute for Research in Construction, National Research Council Canada, Ottawa, March 2000.
- Kesik, T. *The Assessment and Applicability of the EnerGuide for Houses Procedures and Guidelines for the New Housing Market*, for Natural Resources Canada, Ontario Ministry of Energy, Science and Technology and EnerQuality Corporation, December 1999.
- Kesik, T. *Economic Assessment Issues Relating to Residential Basement System Performance*, Contract Report - Institute for Research in Construction, National Research Council Canada, Ottawa, 1997.

- Lio, M. and T. Kesik. *Implications of Adopting the National Energy Code for Housing in Ontario*, for Ontario Hydro, Ontario Ministry of Housing, Ontario Ministry of Environment and Energy, the Ontario Natural Gas Association, and CMHC, 1995.
- Lio M., and T. Kesik. *1991 Energy Impact and Cost Effectiveness of Energy Efficiency Improvements in Housing in Ontario*, for Ontario Ministry of Energy, 1991.
- Lio M., and T. Kesik. *An Assessment of the Diffusion of R-2000 Technology to Homebuilding in Canada*, with Clayton Research Associates Limited for the Canadian Home Builders' Association, 1988.
- Lio, M. and T. Kesik. *Study of Residential Energy Profiles*, Ontario Ministry of Energy, 1987.

#### Other Publications

- Peters, T. and T. Kesik. *High-Rise Habitats, 55 Years Later*. Canadian Architect, November 2020, pp. 47-49.
- Touchie, M., N. Zimmermann, I. Hamilton, T. Kesik, H. Stopps and C. Thorneycroft. September 30, 2019. *Best Practices Guidelines for Tower Block Refurbishment: Final Report*. University College London and University of Toronto Joint Collaborative Projects and Exchange Activities Research Program.
- Kesik, Ted (Editor), *Building Science Roundtable Fall 2015: Defining, Measuring and Predicting Building Performance*. Building Science Roundtable, 2016.
- Kesik, Ted (Editor), *Building Science Roundtable 2015: Shaping the Future of Building in Ontario*. Building Science Consulting Inc., 2015.
- Swinton, M.C. and T. J. Kesik. *Site Grading and Drainage to Achieve High-Performance Basements*. Construction Technology Update No. 69, Institute for Research in Construction, Ottawa, April 2008.
- Swinton, M.C. and T. J. Kesik. *Options in the Selection of Materials for Basement Construction*. Construction Technology Update No. 70, Institute for Research in Construction, Ottawa, April 2008.
- Kesik, T. and Helga Wiens. *Façade Futures: A Preliminary Review of Issues Facing the EIFS Industry in Canada*, Research Report for EIFS Council of Canada, Fall 2005.
- Kesik, T. and S. Adams. *Tile Façade Systems Feasibility Study*. Report for Arriscraft International, October 2003.
- Kesik, T. and Pierre Belanger. *Technical Brief: Washburne Avenue Garden Courts and Roosevelt Road Garden Courts, New Mixed-Income Housing for the ABLA Community*, on behalf of Shim-Sutcliffe Architects for Chicago's Design Competition for Mixed-Income Housing, June 2001.
- Kesik, T. *Sustainability Options: Building Condition, Energy and Sustainability Assessment, Toronto District School Board, 155 College Street, Toronto ON*, prepared for Baird, Sampson, Neuert Architects Inc., May 2, 2001.
- Kesik, T. *Feasibility of Innovative Basement Insulation Technologies: A Review of Existing Applications and Opportunities for Innovation*, for OC Celfortec Inc., Division of Owens Corning, March 1998.
- Kesik T. and M. Lio. *CodeBord™ Air Barrier System Installation Manual*, for OC Celfortec Inc., Division of Owens Corning, May 1998.
- Lio, M. and T. Kesik. *Residential Heat Loss and Heat Gain Calculations*, for Heating, Refrigerating and Air-Conditioning Institute of Canada, 1996.
- Kesik, T. *IAS Venting Handbook*, for International Approval Services Canada Inc. (Canadian Gas Association), 1996.
- Kesik, T. *The Simple House*, Solplan Review, Vancouver, B.C., Vol. No. 60, January 1995.
- Kesik, T. and M. Lio. *1994 Housing Energy Profiles*, for Ontario Hydro.
- Kesik, T. *Environmental Program for YMCA PineCrest Facility*, with John Hix and Janis Kravis Architects, 1994.
- Lio M., and T. Kesik. *Study of Alternatives to Full Height Basement Insulation*, Ontario Ministry of Housing, 1993.
- Lio M., and T. Kesik. *Green Builder Practices in North America and Northern Europe*, for the Ontario New Home Warranty Program, 1992.
- Lio M., and T. Kesik. *Review of CAN/CSA-F326-M91 Residential Mechanical Ventilation Systems*, for the Ontario Ministry of Housing, 1992.
- Lio M., and T. Kesik. *1991 Study of Residential Ventilation*, for Ontario New Home Warranty, Ontario Hydro, Ontario Ministry of Housing, Ontario Ministry of Energy and CMHC.
- Kesik, T. and M. Lio. *Study of Supplemental Basement Heating Practices*, for Ontario Hydro, Toronto, 1991.
- Lio M., and T. Kesik. *Residential Energy Profiles Study, Semi-Detached and Row Housing Units*, for Ontario Ministry of Energy, 1989.
- Kesik, T. and M. Lio. *Final Report and Commentary on the R-2000 Program Quality Assurance, Quality Assurance Audit and Contract Audit Procedures*, with RIS Ltd. for Energy Mines and Resources Canada, 1989.
- Kesik, T. *Functional Specifications for Extending HOT2000 Heating/Cooling Load Analysis Capabilities*, for Energy Mines and Resources Canada, 1989.
- Kesik, T. and M. Lio. *Banking on Energy Efficiency, 8 Case Studies of Energy Conservation in Major Government Facilities for the Ontario Ministry of Energy*, 1986.

## Other Media

- Kesik, T. *Enclosure Detailing*, Canadian Architect, November 2002, Volume 47, Number 11, pp. 56-57.
- Kesik, T. *Enclosure Durability*, Canadian Architect, September 2002, Volume 47, Number 9, pp. 48-49.
- Kesik, T. *Enclosure Design Tools*, Canadian Architect, July 2002, Volume 47, Number 7, pp. 52-53.
- Kesik, T. *Enclosure Design Strategies*, Canadian Architect, May 2002, Volume 47, Number 5, pp. 50-51.
- Kesik, T. *Principles of Enclosure*, Canadian Architect, March 2002, Volume 47, Number 3, pp. 34-35.
- Kesik, T. *Perspectives on Sustainability*, Canadian Architect, January 2002, Volume 47, Number 1, pp. 28-29.
- Consultant/Contributing Developer, *CSA B149 Gas and Propane Code Series Interactive CD-ROM*, (interactive features development for CSA's first "smart" standard), CSA International, Toronto, 2000.

Unabridged HTML versions of the above Canadian Architect articles about sustainability may be viewed at:  
[http://www.cdnarchitect.com/asf/arch\\_science\\_forum.htm](http://www.cdnarchitect.com/asf/arch_science_forum.htm)

## Professional, Academic and Public Service

### Service on Design Award Juries (National/International)

- Jury Member, *Shift 2021 Resiliency Architecture Challenge*, Ontario Association of Architects.
- Sustainability and Resilience Advisor, *The New Art Gallery of Nova Scotia Design Competition*, Government of Nova Scotia, Halifax, Nova Scotia, September 2020.
- Sustainability and Resilience Advisor, *The Arbour Design Competition*, George Brown College, Toronto, Ontario, March 2018.
- Jury Member, *EIFS Design Awards*, Toronto, 2017.
- Jury Member, *House 2020 Student Ideas Competition*, WORKshop Inc., Toronto, 2015.
- Jury Member, *Guide to Toronto's Green Buildings*, for USGBC Greenbuild 2011, Toronto, Ontario, October 4 - 7, 2011.
- Technical Advisor, *Student Ideas Competition for a New Face for 80 Bloor Street West*, Fall 2010 – Winter 2011. (Larry Richards, Competition Coordinator)
- Jury Member, *Cities Alive Student Design Challenge*. (October 2009)
- Member, Architectural Selection Committee, *OCAD - Re-Skinning of 100 McCaul Street*. (March 2009)
- Selection Committee Member, *Net Zero Energy Healthy Housing Design Competition*, sponsored by Canada Mortgage and Housing Corporation, coordinated by RAIC, January 21-24, 2007.
- Sustainability Consultant, *Sustainability Review for the Regent Park Phase 1 Design Competition*, Toronto Community Housing Corporation. (2005)
- Juror, *Canada Masonry Centre Awards*, Toronto, ON. (November 2002)

## Membership on Boards and Committees

- Member, Canadian Standards Association, CSA S478 *Technical Committee on Designing for Durability*. (since July 2017)
- Independent Member, Ontario Energy Board, *Evaluation Advisory Committee for Natural Gas Demand-Supply Programs*. (2014-2023)
- Member, Board of Directors, *International Building Performance Simulation Association Canada*. (2002-2022)
- Member, Board of Directors, *Ontario Building Envelope Council*. (2006-08)
- Member, *Steering Committee for the Development of Performance Guidelines for Basement Envelope Systems and Materials*. (IRC/CMHC). (2002-05)
- Project Committee Voting Member, ASHRAE SSPC 90.2, *Energy Efficient Design of New Low-Rise Residential Buildings*. (2002-04)

## Conference Chairs and Scientific Committees

- Scientific Review Committee Member, CCBST 2022 - 16<sup>th</sup> Canadian Conference on Building Science and Technology, Vaughan, Ontario, October 27 & 28, 2022.
- Scientific Review Committee Member, ACADIA 2022: Hybrids and Haecceities Conference, University of Pennsylvania, October 27-29, 2022.
- Scientific Review Committee Member, 5th International Conference on Building Energy and Environment (COBEE), July 25-29, 2022, Montreal PQ.
- Scientific Review Committee Member, *eSim 2022 Conference*, June 21-24, 2022, Ottawa ON.
- Technical Review Committee Member, *2018 Facade Tectonics World Congress*, University of Southern California, Los Angeles, March 12-13, 2018.
- Chair, Scientific Review Committee, *eSim2016 Conference*, McMaster University, Hamilton, Ontario, May 3 - 6, 2016.
- Conference Moderator, *BUILD Ideas Toronto Conference*, Toronto, Ontario, October 20, 2015.
- Chair, Scientific Review Committee, *eSim2014 Conference*, Ottawa, Ontario, May 2 - 10, 2014.
- Scientific Review Committee Member, *Symposium on Simulation for Architecture and Urban Design 2013*, San Diego, CA, USA, April 7-10, 2013.
- Scientific Review Committee Member, *eSim 2012 Conference*, May 2-3, 2012, Halifax NS.
- Scientific Review Committee Member, *eSim 2004 Conference*, June 9-11, 2004, Vancouver BC.
- Scientific Review Committee Member, *eSim 2019 Conference*, May 19-20, 2010, Winnipeg MB.
- Scientific Review Committee Member, *4th Canadian Solar Buildings Conference*. Toronto, ON, June 25-27, 2009.
- Co-Chair, *4th Canadian Solar Buildings Conference*. Toronto, ON, June 25-27, 2009.
- Scientific Committee Member, *PLEA 2009 - 26<sup>th</sup> Passive Low Energy Architecture (PLEA) 2009 Conference: Architecture, Energy and the Occupant's Perspective*, University of Laval, Quebec City, PQ, June 21 to 24, 2009.
- Scientific Committee Member, *eSim 2008 Conference*, May 21-22, 2008, Quebec City PQ.
- Co-ordinator, *Getting the Green Light: Sustainable Architecture Success Stories*. 1-Day Workshop during the Natural City Conference, University of Toronto, June 2, 2006.
- Chair, *eSim 2006 Building Performance Simulation Conference*, Faculty of Architecture, Landscape and Design, University of Toronto, May 4 & 5, 2006.
- Scientific Review Committee Member, *CIB World Building Congress 2004*, May 2-7, 2004, Toronto, Canada.

## Lectures, Presentations, Panels

- Invited Speaker, *Planning for the Future: Perspectives of Resilience*. Ontario Building Envelope Council Spring Seminar, Toronto, Ontario, March 8, 2023.
- Invited Speaker, *Mass Timber Building Science Primer*, Ontario Building Officials AMTS Conference, Hamilton, Ontario, Tuesday, October 4, 2022.
- Invited Speaker, with Aylin Ozkan for TSA Technical Lecture Series. *Enhancing Passive Systems for Thermal Resilience*. February 9, 2021.
- Invited Speaker, DesignTO, TSA Urban Affairs Forum – *Addressing the Climate Crisis*, Tuesday, January 21, 2020 Toronto ON.
- Session Chair, *Building for the Future*, Passive House Canada Conference, University of Toronto at Scarborough, October 18, 2019.
- Co-Chair & Keynote Speaker, *Material Matters: Emerging Strategies and Design Practices for Facade Systems, Building and Urban Habitat*. Facade Tectonics Institute Forum, University of Toronto, May 3, 2019.



- Keynote Speaker, *Building Stock Rehab 101: Strategies for Sustaining Where We Live, Work and Play*. C40 Conference & Workshops, University of Toronto, November 6, 2018.
- Invited Speaker, *Energy Modelling and the Performance Path for Part 9 Housing*, delivered at Ontario Building Officials Association Annual Meeting, Huntsville, ON, October 4, 2017.
- Invited Panelist, OBEC Seminar: *So Your Condo's 90% Glass – Now What?* Markham, Ontario, April 12, 2017.
- Invited Speaker, *Better Building Science*, B.E.S.T. Lecture Series, University of Montreal, March 22, 2016, Montreal, QC.
- Conference Moderator, *BUILD Ideas Toronto Conference*, Toronto, Ontario, October 20, 2015
- Coordinator, *Building Science Roundtable #2: Defining, Measuring and Predicting Building Performance* (U of T, Waterloo, Ryerson & George Brown), October 19, 2015.
- Panelist, *Toronto 2020: Where Will We Live?* WORKshop Inc., Toronto, Ontario, September 9, 2015.
- Coordinator, *Building Science Roundtable #1: Shaping the Future of Building in Ontario* (U of T, Waterloo, Ryerson & George Brown), April 30, 2015
- Invited Speaker, *The Building Science Behind High Performance Buildings*, Creating High Performance Buildings Symposium, National Institute of Building Science and AIA, April 8, 2015, Washington, DC.
- Panelist, *What Is Smart Now?* WORKshop Inc., Toronto, Ontario, December 9, 2014.
- Panelist, *Are Canadian Real Estate Assets at Risk of Losing Investors Due to Lack of Sustainability Performance?* University of Toronto Environmental Finance Committee, Toronto, Ontario, September 23, 2014.
- Keynote Speaker, *2nd Basement Flooding Symposium*, Institute for Catastrophic Loss Reduction, Toronto, ON, September 19, 2013.
- Invited Speaker, *Sustainable Roofing: Delivering Quality, Value and Performance*. AIA Buffalo Chapter Seminar, Fontana Boathouse, Buffalo, NY, April 13, 2012.
- Keynote Speaker, *Delivering High Performance Buildings*. Great Lakes High Performance Building Conference, Michigan State University, Lansing, Michigan, April 5, 2012.
- Invited Speaker, *Net Energy Use, Urban Density and Solar Buildings*. Collaborative Challenges for the Climate Change Research Community - A Weekly Transdisciplinary Seminar Series at the University of Toronto, March 19, 2012.
- Panelist, *Making Sustainability Sustainable*. Cannon Design Academy, Toronto, Ontario, October 3, 2011 (AIA Seminar as part of USGBC Greenbuild 2011).
- Invited Speaker, *Durability and High Performance Buildings*. RPM High Performance Buildings Expo, Toronto, Ontario, April 27 & 28, 2011.
- Moderator, *Out of Water Conference*, Daniels Faculty, University of Toronto, April 1 & 2, 2011.
- Invited Speaker, *A Brief History of Energy Efficient Green Buildings in Canada*. 4th Canadian-German Conference and Trade Mission on Energy Efficiency in Buildings and Green Buildings, Toronto, September 29, 2010.
- Invited Speaker, *Building Science and Sustainability*. Northumberland Learning Connection, Cobourg Ontario, April 15, 2010.
- Invited Speaker, *How Green Is Your Roof? Assessing Environmental Performance As If It Really Matters*. Sustainable Buildings: The Road Less Travelled, sponsored by Tremco Roofing, Ontario Place, April 8, 2010.
- Invited Speaker, *Multi-Unit Residential Buildings Retrofit Guidelines*, presented to Building Envelope Council of Ottawa Region (BECOR) - February 12, 2009, Ottawa, Ontario.
- Invited Speaker, *Toronto Green Development Standard Cost-Benefit Study*, presented at IIDEX/NeoCon Exposition and Conference, September 25 & 26, 2008, Toronto, Ontario.
- Invited Speaker, *Toronto Green Development Standard Cost-Benefit Study*, presented at 2008 Ontario Association of Architects Annual Conference – The Future of the Profession, April 30 - May 3, 2008, Niagara Falls, Ontario.
- Invited Speaker, *Healthcare Facility Material Selection*, presented at Canadian Health Engineering Society National Trade Show and Education Forum, September 14 – 16, 2008, Toronto, Ontario.
- Keynote Speaker, *1<sup>st</sup> Canadian Building and Health Sciences Workshop*, by Institute for Research in Construction, Canadian Building and Health Sciences Network, November 3 & 4, 2008, Montreal, PQ.
- Invited Speaker, *Sustainable Roofing*, presented at Tremco Annual Design Seminar, Ontario Place, Toronto, Ontario, November 9, 2006.
- Keynote Speaker, *Lean and Green Building Science*. Address to the first joint meeting of the Ontario Building Envelope Council and the Canadian Green Building Council, Toronto, ON, February 17, 2005.