Dr. Iain D. Stewart
University of Toronto
Global Cities Institute
665 Spadina Avenue
Toronto, Ontario
Canada M5S 2H9

March 28, 2019

Professor David Lieske
Chair, Department of Geography & Environment
Mount Allison University
Sackville, New Brunswick, Canada

Dear Professor Lieske and members of the Search Committee:

Please accept these documents as my application for the McCain Postdoctoral Teaching Fellowship at Mount Allison University. I am a physical geographer with interdisciplinary experience in civil engineering and architecture at the University of Toronto and the University of British Columbia (Vancouver). I have conducted and published high-impact research in the areas of urban climatology and urban metabolism. I recently completed a 2-year postdoctoral fellowship (research) at the Global Cities Institute (University of Toronto), where I developed numeric indicators to steer and measure the sustainable development of cities. Prior to this appointment at the Global Cities Institute, I was a postdoctoral fellow (research) in the Department of Civil Engineering, University of Toronto, from 2013 to 2016. As lead researcher for a team of 28 investigators located in 19 countries, I helped to run a global study on the "urban metabolism"—i.e., the energy, water, material, and waste flows—of the world's 27 largest cities. The "Metabolism of Megacities" project is the most comprehensive study to date on sustainable resource flows in metropolitan areas.

From 2004 to 2011, I was a doctoral student in the Department of Geography at the University of British Columbia (UBC), where I obtained a PhD in urban climatology. For my doctoral work, I developed an innovative climate-based classification of urban and rural landscapes, called Local Climate Zones (LCZs). The LCZ scheme has been adopted globally as a spatial and analytical framework for mapping, modelling, and measuring the impacts of land use, surface cover, and human activity on local climate. LCZs have been the theme of many special workshops and sessions at international conferences, and I have been invited to speak at several of these, e.g., in China, Ireland, and Colombia. In am currently researching and writing a new LCZ field guide to help workers identify climate zones, using direct (i.e., field) and/or remote (geobrowser) observations of the form and function of urban and rural landscapes. Last summer, I presented this work in New York City at the *10th International Conference on Urban Climate*.

As a course instructor at UBC (Geography) in 2012, I co-taught an undergraduate course in biometeorology, and as a teaching assistant during my doctoral studies I instructed labs and seminars in courses on atmospheric environments, climate and ecosystems, and Canada-Japan cultural studies. I have since given numerous guest lectures at the University of Toronto on topics related to urban climate and urban metabolism, for students in architecture, civil engineering, and political science. I also spent two semesters as an English instructor at Hakuoh University and Kanagawa University in Tokyo, Japan, and I have mentored and tutored dozens of undergraduate and graduate students in diverse disciplines. In all of these activities, I have successfully integrated my research into lesson plans and classroom lectures. This spring, I will have the opportunity to continue integrating research with teaching, as I have been invited to design and teach a short course on urban climatology at the Universidad Nacional de Colombia (Manizales). This will be the first course of its kind offered to university students in Colombia.

In closing, my teaching and research profiles in physical geography, urban climatology, urban metabolism, and sustainable cities are well matched with the qualifications for the McCain Postdoctoral Teaching Fellow at Mount Allison University. I am excited for the opportunity to engage with students and faculty in the Department of Geography and Environment, and to earn valuable teaching experience at a prestigious institution like Mount Allison University.

For more information about my qualifications, please refer to the enclosed documents (teaching statement, curriculum vitae, and names and contact information for three references).

Sincerely,

Iain D. Stewart
Tel.: 647-966-3013
Email: iain.stewart@utoronto.ca

TEACHING STATEMENT

Overview

Teaching is an integral part of scholarly life. As a student and researcher at university campuses across Canada and beyond, I have interacted with many outstanding teachers. I now seek to emulate these mentors, and to inspire a new generation of students to excel in their chosen fields. A valuable asset that I have gained from my own teaching experiences is a critical mind that examines the integrity of results reported in the academic literature. Appraising our sources of knowledge in geography is what drives the discipline forward, opening it up to new directions for research-inspired teaching. My commitment as a teacher is therefore to enable this process.

When in the classroom, I rely extensively on personal and professional experiences as a geographer (i.e., researcher, writer, traveller, educator, and scholar), and I share and discuss with my students the methods and results of research in local and international journals. To convey these experiences to the students, I often use personal photographs (among other visual aids) from outdoor field excursions to research sites around the world. Photographs are a powerful tool to visualise and analyse key concepts in urban climatology and urban sustainability, for example. While giving a recent lecture on climate-sensitive urban design to civil engineering students at the University of Toronto, I concluded my talk with a photograph of the "wall effect" along Toronto's harbourfront (i.e., a row of tall towers blocking the local wind circulation [i.e., "sea breeze"] of clean, fresh air from the lake). The students were immediately roused by this illustration of insensitive planning, and it prompted a critical—and enlightening—discussion about local climate considerations for sustainable urban design. The reaction to this photograph was typical of many others that I have received in my courses, lectures, and presentations. For the students at the University of Toronto, however, the photograph had an effect that was much bigger than the city itself: it effected an "interactive atmosphere" in the classroom, it made "difficult subject matter easy to understand," and it encouraged "intelligent and independent thought" on a complex topic (quotations from student course evaluations).

As a teacher, my greatest satisfaction comes partly from these encouraging sentiments of the students, but also from the opportunity to integrate research with teaching, and to connect students with their cultural and physical environments through outdoor field work. To ease that process, I am currently researching and writing an environmental field guide for classifying urban form and function into Local Climate Zones—a climate-based classification of urban and rural landscapes that I developed during my doctoral and postdoctoral work at UBC (Geography). The guide will be an invaluable teaching (and research) aid both in the field *and* in the classroom, for students of geography, climatology, planning, engineering, and architecture.

Past teaching activities

As a research fellow at the University of Toronto (2013–18), I gave numerous lectures on urban metabolism and urban climatology to students in engineering, political science, and architecture. As an instructor at UBC (2012), I co-taught an undergraduate course in biometeorology, while also adapting the course to include *urban* meteorology. This change was helped by my own research in the field. Adding to my teaching profile is the support of several teaching assistantships at UBC (2004–11), for undergraduate courses in climate and ecosystems, atmospheric environments, and Canada/Japan cultural studies. Prior to entering the doctoral program at UBC, I spent two semesters as an English language instructor at private universities in Tokyo. Finally, to further develop and improve my teaching skills, I have completed training and certification programs in literacy tutoring, professional presenting, and Teaching of English to Speakers of Other Languages (TESOL).

In the Department of Geography and Environment at Mount Allison University, I would be very pleased and excited to teach undergraduate courses or seminars related to Earth's physical systems (e.g., weather and climate), sustainable cities, and urban environments.

Evidence of teaching effectiveness

As evidence of my teaching effectiveness—both in Canada and abroad—I have been ranked above average on all of my teacher evaluations, and have consistently received positive comments from students and peers. In these comments, I am regularly described as "approachable and friendly," "patient, respectful, and helpful," and "genuinely concerned for the success of all students." Listed below is a selection of comments from student evaluations of my undergraduate teaching at UBC (GEOG 102, 200, and 204). In GEOG 204, eighty-eight percent of respondents agreed or strongly agreed that "overall, the instructor was an effective teacher." Also listed below is an informal peer assessment written by a University of Toronto political science professor (in response to a guest lecture that I gave on sustainable megacities).

Geography 102: Introduction to Physical Geography—Climate and Ecosystems (teaching assistant)

> "Iain is very patient, knowledgeable, wonderful attitude towards students and teaching. Very good at what he does. Would recommend."

> "[Iain] was very helpful and patient when explaining the subject matter. He never made me feel that I was inadequate if I was having trouble grasping some new concepts."

Geography 200: Atmospheric Environments (teaching assistant)

> "[Iain] explained concepts in a very understandable, qualitative way that incorporated more specific quantitative ideas into his explanations."

Geography 204: Introduction to Biometeorology (course co-instructor)

> "Iain Stewart's approach to teaching is very straight-forward which is effective as he does not go into misleading tangents and uses class time very effectively and efficiently."

> "Good learning atmosphere in general. I liked both professors a great deal and found them to be clearly concerned about student learning and made a lot of effort."

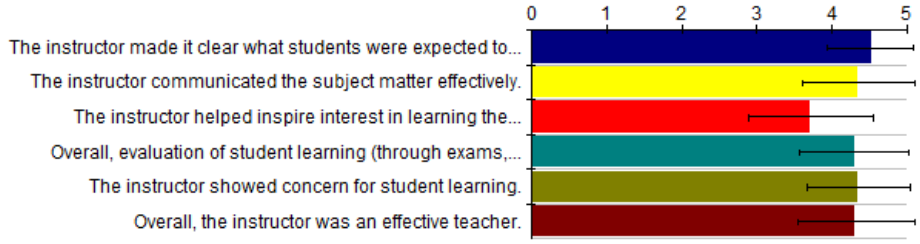
Political Science 455Y: Cities (guest lecturer)

> "Thank you for a great lecture. I know the time felt tight but everyone wanted to stay! It was just wonderful. Your research and the implications emerging are really inspiring. Let's talk more about the data and the next steps that I imagine coming out of your presentation. Truly great."

Faculty of Arts 2012W1 Survey 2012W1	University of British Columbia Arts

Course:	APBI 244/GEOB 204 001 - APBI 244 001/GEOB 204 101	**Department:**	GEOG
Responsible Faculty:	Thomas Black; Iain Stewart	**Responses / Expected:**	25 / 57 (43.86%)
Faculty:	**Stewart, Iain**		

Category/Section: University Module/UBC-wide Questions

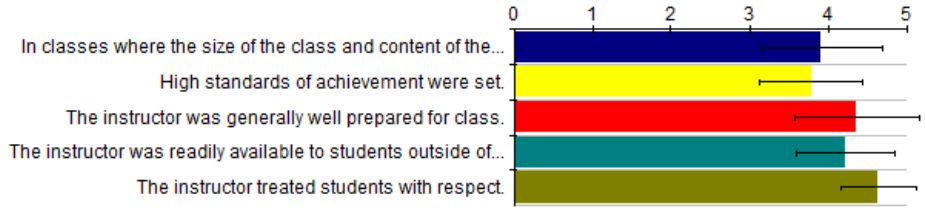


[E] Strongly Disagree=1 [D] Disagree=2 [C] Neutral=3 [B] Agree=4 [A] Strongly Agree=5

KEY	Questions	Statistics				Frequency					Response		
		Mean	Med.	Mode	Std Dev	E	D	C	B	A	Rec.	N/A*	Exp.
	The instructor made it clear what students were expected to learn.	4.5	5	5	.57	-	-	1	10	14	25	0	57
	The instructor communicated the subject matter effectively.	4.4	4	5	.74	-	1	1	11	12	25	0	57
	The instructor helped inspire interest in learning the subject matter.	3.7	4	4	.83	-	2	7	12	4	25	0	57
	Overall, evaluation of student learning (through exams, essays, presentations, etc.) was fair.	4.3	4	4	.73	-	1	1	12	10	24	1	57
	The instructor showed concern for student learning.	4.4	4	5	.69	-	-	3	10	12	25	0	57
	Overall, the instructor was an effective teacher.	4.3	4	5	.79	-	1	2	10	12	25	0	57

*N/A responses indicate that the participant felt they did not have the information or experience required to respond to a question.

Category/Section: *Arts Instructor Questions*/Instructor Questions

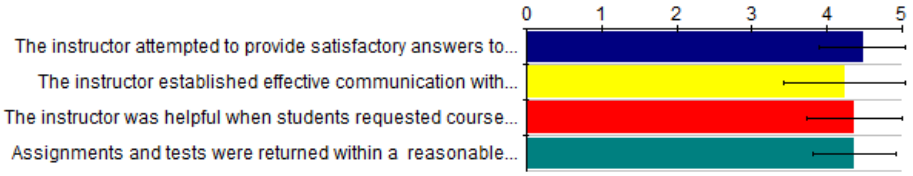


[E] Strongly Disagree=1 [D] Disagree=2 [C] Neutral=3 [B] Agree=4 [A] Strongly Agree=5

KEY	Questions	Statistics				Frequency					Response		
		Mean	Med.	Mode	Std Dev	E	D	C	B	A	Rec.	N/A*	Exp.
	In classes where the size of the class and content of the course were appropriate, student participation in class was encouraged by the instructor.	3.9	4	4	.78	-	1	5	12	5	23	2	57
	High standards of achievement were set.	3.8	4	4	.66	-	-	8	12	3	23	1	57
	The instructor was generally well prepared for class.	4.4	5	5	.79	-	1	2	9	13	25	0	57
	The instructor was readily available to students outside of class (e.g., through email, office hours, or by appointment).	4.2	4	4	.63	-	-	2	10	6	18	7	57
	The instructor treated students with respect.	4.6	5	5	.48	-	-	-	9	16	25	0	57

*N/A responses indicate that the participant felt they did not have the information or experience required to respond to a question.

Category/Section: Geography Departmental Questions/Instructor Questions



[E] Strongly Disagree=1 [D] Disagree=2 [C] Neutral=3 [B] Agree=4 [A] Strongly Agree=5

KEY	Questions	Statistics				Frequency					Response		
		Mean	Med.	Mode	Std Dev	E	D	C	B	A	Rec.	N/A*	Exp.
	The instructor attempted to provide satisfactory answers to all questions in class.	4.5	5	5	.57	-	-	1	11	13	25	0	57
	The instructor established effective communication with students in the classroom.	4.2	4	5	.81	-	1	3	10	11	25	0	57
	The instructor was helpful when students requested course related assistance outside of class.	4.4	4	4,5	.64	-	-	1	5	5	11	14	57
	Assignments and tests were returned within a reasonable time.	4.4	4	4	.56	-	-	1	14	10	25	0	57

*N/A responses indicate that the participant felt they did not have the information or experience required to respond to a question.

IAIN DOUGLAS STEWART

Global Cities Institute, University of Toronto, Canada
665 Spadina Avenue, Toronto, Ontario M5S 1T9 Tel. +1-647-966-3013 iain.stewart@utoronto.ca
Academic profiles: WordPress and Google Scholar

EDUCATION

2011 Ph.D. in Geography
University of British Columbia, Vancouver, Canada
Dissertation: Redefining the urban heat island
https://circle.ubc.ca/handle/2429/38069

1998 M.Sc. in Geography
University of Regina, Saskatchewan, Canada
Thesis: Spatial & temporal dynamics of the urban heat island effect in Regina
http://www.collectionscanada.gc.ca/obj/s4/f2/dsk2/tape17/PQDD_0017/MQ30560.pdf

1993 B.Sc. Hons. in Geography
University of Regina, Saskatchewan, Canada

PROFESSIONAL APPOINTMENTS

2017–18 Postdoctoral Fellow (research)
Global Cities Institute
Daniels Faculty of Architecture, Landscape & Design
University of Toronto

2013–16 Postdoctoral Fellow (research)
Department of Civil Engineering
University of Toronto

2012 Course Instructor (teaching)
Department of Geography
University of British Columbia

PUBLICATIONS

Refereed journal articles—first or second author

2018 Stewart ID, Kennedy C, Facchini A, Mele R. The electric city as a solution to sustainable urban development. *Journal of Urban Technology* 25, 3–20.
http://www.tandfonline.com/doi/full/10.1080/10630732.2017.1386940

2018 Kennedy C, Stewart ID, Westphal, MI, Facchini A, Mele R. Keeping global climate change to within 1.5 °C through net negative electric cities. *Current Opinion in Environmental Sustainability* 30, 18–25. https://www.sciencedirect.com/science/article/pii/S1877343517300593

2017 Stewart ID, Kennedy C. Metabolic heat production by human and animal populations in cities. *International Journal of Biometeorology* 61, 1159–71.
http://link.springer.com/article/10.1007/s00484-016-1296-7

2017 Skarbit N, Stewart ID, Unger J, Gal T. Employing an urban meteorological network to monitor air temperature conditions in the 'local climate zones' of Szeged (Hungary). *International Journal of Climatology* 37 (S1), 582–96. http://onlinelibrary.wiley.com/doi/10.1002/joc.5023/full

2017 Kennedy C, Stewart ID, Facchini A, Mele R. The role of utilities in developing low carbon, electric megacities. *Energy Policy* 106, 122–8. http://www.sciencedirect.com/science/article/pii/S0301421517301337

2015 Kennedy C, Stewart ID, Facchini A, et al. Energy and material flows of megacities. *Proceedings of the National Academy of Sciences of the United States of America* 112, 5985–90. http://www.pnas.org/content/112/19/5985.abstract

2014 Stewart ID, Oke TR, Krayenhoff ES. Evaluation of the 'local climate zone' scheme using temperature observations and model simulations. *International Journal of Climatology* 34, 1062–80. http://onlinelibrary.wiley.com/doi/10.1002/joc.3746/abstract

2014 Kennedy C, Stewart ID*, Ibrahim N, et al. Developing a multi-layered indicator set for urban metabolism studies in megacities. *Ecological Indicators* 47, 7–15 (*corresponding author). http://www.sciencedirect.com/science/article/pii/S1470160X14003483

2013 Stewart ID. Local climates of the city. *Architectural Design* 83, 100–5. http://onlinelibrary.wiley.com/doi/10.1002/ad.1625/full

2012 Stewart ID, Oke TR. Local climate zones for urban temperature studies. *Bulletin of the American Meteorological Society* 93, 1879–1900. http://journals.ametsoc.org/doi/abs/10.1175/BAMS-D-11-00019.1

2011 Stewart ID. A systematic review and scientific critique of methodology in modern urban heat island literature. *International Journal of Climatology* 31, 200–17. http://onlinelibrary.wiley.com/doi/10.1002/joc.2141/abstract

2009 Stewart ID, Oke TR. A new classification system for urban climate sites. *Bulletin of the American Meteorological Society* 90, 922–3.

2007 Stewart ID. Landscape representation and the urban-rural dichotomy in empirical urban heat island literature, 1950–2006. *Acta Climatologica et Chorologica* 40-41, 111–21. http://www.sci.u-szeged.hu/eghajlattan/akta07/111-121.pdf

2000 Stewart ID. Influence of meteorological conditions on the intensity and form of the urban heat island effect in Regina. *The Canadian Geographer* 44, 271–85. http://onlinelibrary.wiley.com/doi/10.1111/j.1541-0064.2000.tb00709.x/abstract

Refereed journal articles—collaborating author

2018 Ching J, Mills G, Bechtel B, See L, Feddema J, Wang X, Ren C, Brousse O, Martilli A, Neophytou N, Mouzourides P, Stewart ID, et al. World urban database and access portal tools (WUDAPT), an urban weather, climate and environmental modeling infrastructure for the anthropocene. *Bulletin of the American Meteorological Society* 99, 1907–24. https://doi.org/10.1175/BAMS-D-16-0236.1

2017 Facchini A, Kennedy C, Stewart ID, et al. The energy metabolism of megacities. *Applied Energy* 186, 86–95. http://www.sciencedirect.com/science/article/pii/S0306261916313277

2016 Bechtel B, Pesaresi M, See L, Mills G, Ching J, Alexander PJ, Feddema J, Florczyk AJ, Stewart ID. Towards consistent mapping of urban structure—Global human settlement layer and local climate zones. *ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* XLI-B8, 1371–78. http://pure.iiasa.ac.at/13962/

2015 Bechtel B, Alexander PJ, Böhner J, Ching J, Conrad O, Feddema J, Mills G, See L, Stewart ID. Mapping local climate zones for a worldwide database of the form and function of cities. *ISPRS International Journal of Geo-Information* 4, 199–219. http://www.mdpi.com/2220-9964/4/1/199/htm

2015 See L, Perger C, Duerauer M, Fritz S, Bechtel B, Ching J, Alexander P, Mills G, Foley M, O'Connor M, Stewart ID, et al. Developing a community-based worldwide urban morphology and materials database (WUDAPT) using remote sensing and crowdsourcing for improved urban climate modelling. *Proceedings, 2015 Joint Urban Remote Sensing Event (JURSE)*, Lausanne, CH, 1–4. http://ieeexplore.ieee.org/document/7120501/authors?ctx=authors

Book chapters

2019 Stewart ID, Kennedy CA, Facchini A. Key performance indicators for sustainable megacities. IN: Sorenson A, Labbé D (eds.), *International Handbook of Megacities and Megacity Regions*. Edward Elgar, Cheltenham, UK (in review).

2015 Stewart ID, Oke TR. Local climate zones and urban climatic mapping. In *The Urban Climatic Map: A Methodology for Sustainable Urban Planning*, Ng E, Ren C (eds.). Routledge, London. https://www.amazon.ca/Urban-Climatic-Map-Methodology-Sustainable/dp/1849713766

Books contracts

2017 Mills G, Stewart ID. *The Urban Heat Island: A Worker's Handbook*. Under contract with Elsevier Inc., Cambridge, USA. Anticipated publication date 2020.

Technical reports

2019 Kennedy C, Stewart ID, Westphal M. *Shifting currents: Opportunities for low-carbon electric cities in the Global South*. World Resources Institute, Washington. https://www.wri.org/publication/shifting-currents

2016 Stewart ID, Kennedy C, Facchini A. *Megacities—Comparative analysis of urban macrosystems. A summary report.* Enel Foundation, Rome. https://www.enelfoundation.org/en/topic/UrbanMegacities

2014 Stewart ID, Kennedy C, Facchini A. *Metabolism of megacities: A review and synthesis of the literature.* Enel Foundation, Rome.

2014 Kennedy C, Ibrahim N, Stewart ID, et al. *An urban metabolism survey design for megacities.* Enel Foundation, Rome. https://www.enelfoundation.org/en/topic/UrbanMegacities

Encyclopedia entries

2011 Krayenhoff ES, Stewart ID. Heat Island Effect. In *Green Cities: An A-to-Z Guide*, Cohen E (ed.). SAGE Publications, London.

2005 Stewart ID. Urban Heat Islands. In *The Encyclopedia of Saskatchewan: A Living Legacy*, Gauthier D, Douaud P (eds.). University of Regina Press.

2005 Stewart ID. Single author of 40 entries @ 150–800 words. In *The Encyclopedia of Saskatchewan: A Living Legacy*, Gauthier D, Douaud P (eds.). University of Regina Press. https://uofrpress.ca/Books/E/Encyclopedia-of-Saskatchewan-The

Other

2016 Stewart ID. Medellin's comuna 13 is riding escalators to a better future. *The Globe and Mail*, April 23. http://www.theglobeandmail.com/life/travel/destinations/medellins-comuna-13-is-riding-escalators-to-a-better-future/article29706095/

2008 Stewart ID. Urban observations from Japan. *UBC Geographer*, February issue.

2007 Stewart ID. A reflection on Professor Tim Oke. *Geogramme: A Newsletter for Geography Alumni*, summer issue. http://geography.sites.olt.ubc.ca/files/2014/07/geogramme_07.pdf

INVITED ORAL PRESENTATIONS

2018 *Introduction to "Local Climate Zones" and their Application to Manizales, Colombia*. Institute of Environmental Studies, National University of Colombia, Manizales. October 18.

2018 *Local Climate Zones: Principles, Practices, and Prospects*. Workshop on Local Climate Zones and World Urban Database and Access Portal Tools. School of Architecture and Design, Southwest Jiaotong University, Chengdu, People's Republic of China. May 26 (video lecture).

2017 *Metabolism of Megacities*. Geography Speaker Series. Department of Geography, University of Western Ontario, London, Canada. March 17.

2016 *Metabolism of Megacities*. Speaker Series on Sustainable & Smart Cities. Global Cities Institute, University of Toronto, Canada. February 5. http://www.globalcitiesinstitute.org/lunch-and-learn-series

2015 *Local Climate Zones: An Introduction*. Workshop on Mapping Urban Landscapes and their Climate Effects. Chinese University of Hong Kong, People's Republic of China. December 12.

2014 *Introducing Local Climate Zones*. Workshop on the World Urban Database and Access Portal Tools (WUDAPT). University College Dublin, Ireland. July 7.

2014 *Metabolism of Megacities*. Fourth International Conference on Urban Environmental Pollution: Climate Change and Urban Environment (UEP2014), Toronto, Canada. June 12.

2011 *Local Climate Zones: Origins, Development, and Application to Urban Heat Island Studies*. Annual Meeting of the American Association of Geographers. Seattle, USA. April 14.

2011 *Local Climate Zones: Application to Heat Island Studies in Tropical Regions*. Workshop on Urban Climatology in Tropical and Sub-Tropical Regions (Croucher Advanced Study Institute). Chinese University of Hong Kong, People's Republic of China. December 5. http://web5.arch.cuhk.edu.hk/asi2011/en/Sources/Programme_revised%201128.pdf

2009 *Newly Developed 'Thermal Climate Zones' for Defining and Measuring Urban Heat Island Magnitude in the Canopy Layer*. T.R. Oke Symposium & 8th Symposium on Urban Environment. Phoenix, USA. January 11. http://ams.confex.com/ams/89annual/techprogram/paper_150476.htm

2008 *Measuring the Urban Heat Island Intensity: Challenges with 'Urban-Rural' Differentiation and the East Asian city*. 2nd Workshop on Earth Observation for Urban Planning and Management: Sub-theme Urban Heat Island / Urban Climatology. Hong Kong Polytechnic University, People's Republic of China. May 20. http://www.lsgi.polyu.edu.hk/rsrg/resources/News/2nd_ws/present/stewart_p.pdf

CONFERENCE ACTIVITY

Papers presented or co-authored

2018 Stewart ID. *Metabolism of megacities: A global perspective.* 2nd International Congress on the Environment—Air Quality, Public Health & Sustainable Transportation, October 16–18, Manizales, Colombia.

2018 Stewart ID. *Developing a field guide to identify local climate zones in cities*. 10th International Conference on Urban Climate and 14th Symposium on the Urban Environment, August 6–10, New York City, USA. https://ams.confex.com/ams/ICUC10/meetingapp.cgi/Paper/342085

2017 Stewart ID. *Metabolic heat production by human and animal populations in Asian megacities.* Annual Meeting of the American Association of Geographers, April 5–9, Boston, USA.

2016 Kennedy C, Stewart ID. *Key performance indicators for sustainable megacities.* Americas Meeting of the International Society for Industrial Engineering, May 25–27, Bogota, Colombia.

2015 Stewart ID. *Urban metabolism of megacities: A comparative study.* 13th Conference of the European Ecological Federation, September 21–25, Rome, Italy.

2015 Stewart ID, Kennedy C. *Estimating anthropogenic heat release from megacities*. 9th International Conference on Urban Climate and 12th Symposium on Urban Environment, July 20–24, Toulouse, France. http://www.meteo.fr/icuc9/LongAbstracts/gd5-1-2961311_a.pdf

2015 Stewart ID, Kennedy C. *Metabolism of megacities: Global and regional analysis*. Annual Meeting of the American Association of Geographers, April 21–25, Chicago, USA.

2014 Kennedy C, Stewart ID, Facchini A, Mele R. *Inequality of access to resources in megacities.* 7th World Urban Forum (UN Habitat), April 5–11, Medellin, Colombia.

2012 Stewart ID, Oke TR. *Local climate zones: Towards a protocol for assessing heat island magnitude in the canopy layer.* 8th International Conference on Urban Climate, August 5–10, Dublin, Ireland.

2010 Stewart ID, Oke TR. *Thermal differentiation of local climate zones using temperature observations from urban and rural field sites*. 9th Symposium on Urban Environment, August 2–6, Keystone, USA. http://ams.confex.com/ams/19Ag19BLT9Urban/techprogram/paper_173127.htm

2009 Stewart ID, Oke TR. *Classifying urban climate field sites by 'local climate zones': The case of Nagano, Japan.* 7th International Conference on Urban Climate, June 29–July 3, Yokohama, Japan. http://www.ide.titech.ac.jp/~icuc7/extended_abstracts/pdf/385055-1-090515165722-002.pdf

2009 Krayenhoff S, Stewart ID, Oke TR. *Estimating thermal responsiveness of local-scale climate 'zones' with a numerical modeling approach.* 8th Symposium on the Urban Environment, January 11–15, Phoenix, USA. http://ams.confex.com/ams/89annual/techprogram/paper_149911.htm

2006 Stewart ID, Oke TR. *Methodological concerns surrounding the classification of urban and rural climate stations to define urban heat island magnitude.* 6th International Conference on Urban Climate, June 12–16, Goteborg, Sweden. http://urban-climate.com/wp3/wp-content/uploads/2011/04/ICUC6_Preprints.pdf

OTHER RESEARCH & ACADEMIC WORK

2004–05 Canadian Plains Research Center, University of Regina, Saskatchewan
Researcher and writer for the Encyclopedia of Saskatchewan project. Worked with a team of writers and editors to author more than 40 entries for the Encyclopedia. Entries covered a variety of themes including geography, transportation, science & technology, politics & government, business & industry, and arts & culture.

2001–06 University of Regina Press, Regina, Saskatchewan
Proofreader for the managing editor of the University of Regina Press. Checked the final proofs of scholarly books and articles for lucidity, syntax, grammar, and consistency in spelling, punctuation, citation, and style.

1999–00 Agriculture and Agri-Food Canada, Regina, Saskatchewan
Earth science analyst for the Prairie Agroclimate Unit. Developed statistical models to predict wind/ water erosion and soil sustainability for a nation-wide report on Canada's agricultural industry.

AWARDS & SCHOLARSHIPS

2018 Outstanding Reviewer Awards (3), Elsevier Inc. (awarded for "outstanding contribution in reviewing" of journal manuscripts for Urban Climate; Sustainable Cities & Society; and Landscape & Urban Planning).

2017 Reviewer's Certificate, International Journal of Climatology (awarded for "effort and integrity of manuscript reviews").

2014 Editor's Award, Journal of Applied Meteorology and Climatology, American Meteorological Society (awarded for "multiple, timely, and thorough reviews").

2012 Postdoctoral Travel Award, Postdoctoral Fellows Office, University of British Columbia.

2011 Certificate of Appreciation, ACS Publications (awarded for "dedicated service in the peer review of manuscripts").

2009 Outstanding Oral Presentation, 8th Symposium on Urban Environment, Phoenix, USA.

2009 William P. Lowry Memorial Award, 7th International Conference on Urban Climate, Yokohama, Japan (awarded to the author of a paper incorporating "best conceptual or experimental methodology").

2006 William P. Lowry Memorial Award, 6th International Conference on Urban Climate, Goteborg, Sweden (awarded to the author of a paper incorporating "best conceptual or experimental methodology").

2006–08 Canada Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (NSERC doctoral level, $70,000), University of British Columbia.

2004–08 National PhD Tuition Fee Award, University of British Columbia.

1996–97 Faculty of Graduate Studies and Research Scholarships, University of Regina (master's level).

1993 Canadian Association of Geographers' Undergraduate Award in Geography for highest graduating average, Dept. of Geography, University of Regina.

CLASSROOM TEACHING

University of Toronto

2015–18 Guest lecturer on urban climatology. Course: *Infrastructure for Sustainable Cities*, Dept. of Civil Engineering

2015–18 Guest lecturer on urban metabolism. Course: *Cities*, Dept. of Political Science

University of British Columbia

2012 Course instructor: *Introduction to Biometeorology*, Dept. of Geography
Delivered weekly lectures to a group of 65 students majoring in Geography, Forestry, and Applied Biology. Developed, graded, and administered course examinations.

2009 Head teaching assistant: *Our Changing Environment—Climate & Ecosystems*, Dept. of Geography
Conducted weekly 2-hour laboratory exercises for groups of 10–20 students.

2006 Teaching assistant: *Canada, Japan, and the Pacific—Cultural Studies*, Faculty of Arts
Conducted weekly 1-hour discussion seminars for groups of 5–15 students from UBC (Vancouver) and Ritsumeikan University (Kyoto, Japan).

2004 Teaching assistant: *Atmospheric Environments*, Dept. of Geography
Planned and delivered weekly 2-hour laboratory exercises for groups of 15–25 students.

International

2018 Invited guest lecturer on urban climatology. Course: *Environmental Problems*, Dept. of Civil Engineering, National University of Colombia, Manizales.

2002 English language instructor: Kanagawa University & Hakuoh University, Tokyo, Japan
Planned and delivered daily English communication lessons to groups of 5–15 students.

2001 English language instructor: YBM Sisa-Yong-O-Sa Language Institute, Seoul, South Korea
Taught classes in English writing, conversation, and listening comprehension to groups of 5–20 adult learners.

COMPLETED COURSEWORK—PROFESSIONAL DEVELOPMENT

Teaching, presenting & tutoring

2015 The Art of Presenting Professionally. Postdoctoral Office, University of Toronto

2014 ESL Tutoring Program. Cecil Community Centre, Toronto

2000 Certificate in Teaching English to Speakers of Other Languages (TESOL). Canadian Global TESOL Training Institute, Edmonton

1999 Certificate in Literacy Tutoring. Regina Public Library, Literacy Volunteers Program

Writing & publishing

2014 Travel Writing. Continuing Studies, University of Toronto

2011 Scientific Writing & Publishing. Faculty of Graduate Studies, University of British Columbia

2008 Scientific Writing for Graduate Students. Continuing Studies, University of British Columbia

2007 Writing with Style. Continuing Studies, University of British Columbia

Language learning

2014 Japanese culture & language communication. Aitas Japanese Language School, Toronto

2008 Japanese-Language Proficiency Test. Capilano University, Vancouver

2004 Japanese-Language Proficiency Test. Douglas College, Vancouver

2003–04 Japanese culture & language communication. Saskatchewan Centre for International Languages, University of Regina

PROFESSIONAL SERVICE

Invited manuscript reviews for scholarly journals

Advances in Meteorology
Atmosfera
Atmosphere
Building and Environment
Bulletin of the American Meteorological Society
Climate
Climate Change (3)
Climate Research
Computers, Environment and Urban Systems
Environmental Engineering and Management Journal
Environmental Pollution
Environmental Science and Technology
Frontiers of Architectural Research
Geographica Polonica
Geophysical Research Letters (3)
International Journal of Biometeorology
International Journal of Climatology (10)
International Journal of Environmental Research and Public Health
IEEE Journal of Selected Topics in Applied Earth Observations & Remote Sensing
ISPRS Journal of Photogrammetry and Remote Sensing
Journal of Applied Meteorology and Climatology (8)
Journal of Atmospheric and Oceanic Technology
Journal of Atmospheric and Solar-Terrestrial Physics
Journal of Geophysical Research—Atmospheres
Journal of Industrial Ecology
Landscape and Urban Planning (2)
Moravian Geographical Reports
Nature Energy
Nature Communication
Nature Sustainability
Physical Geography
Polish Journal of Environmental Studies
Quarterly Journal of the Royal Meteorological Society
Remote Sensing
Remote Sensing of Environment
Sustainability (2)

Sustainable Cities and Society (2)
Theoretical and Applied Climatology (7)
Urban Climate (10)
Urban Geography
Urban Greening and Urban Forestry

Memberships & professional roles

2017– Member of the Technical Committee on Sustainable Cities & Communities (TC 268), International Organization for Standardization (ISO), Geneva, CH

2017– Subject matter expert on the Working Group for City Indicators (WG2) for ISO 37120 (City Services & Quality of Life), ISO 37122 (Smart Cities), and ISO 37123 (Resilient Cities). International Organization for Standardization (ISO), Geneva, CH

2017 Representative of the Standards Council of Canada at the 15th Meeting of ISO/TC268/WG2 in Paris (Feb. 6–10), the 16th Meeting in Berlin (May 29–June2), and the 17th Meeting in Mexico City (Oct. 23–27)

2016– Member of the American Association of Geographers (AAG)

2016 Member of the Review Committee, Urban Transitions Global Summit, Shanghai, China

2015 Session chair for the 9th International Conference on Urban Climate (ICUC), Toulouse, France

2012 Session chair for the 8th International Conference on Urban Climate (ICUC), Dublin, Ireland

2009– Member of the American Meteorological Society (AMS)

2006– Member of the International Association for Urban Climate (IAUC)

LANGUAGES

English: native proficiency
Japanese: limited working proficiency

CITIZENSHIP

Canadian

REFERENCES

Timothy Oke
Professor Emeritus
Department of Geography
University of British Columbia
1984 West Mall, Vancouver BC
Canada V6T 1Z2
Tel. 604-822-2663
toke@geog.ubc.ca

Chris Kennedy
Professor and Chair
Department of Civil Engineering
University of Victoria
PO Box 1700 STN CSC, Victoria BC
Canada V8W 2Y2
Tel. 250-472-4463
cakenned@uvic.ca

Gerald Mills
Associate Professor and Head
School of Geography
University College Dublin
Belfield, Dublin 4, Ireland
Tel. +353-1-716-8229
gerald.mills@ucd.ie