

Sarah Elizabeth Wolfe, Associate Professor (July 1, 2017)
School of Environment, Resources and Sustainability
University of Waterloo (Canada)

1. EDUCATION AND EMPLOYMENT

Doctor of Philosophy – Department of Geography (2007, University of Guelph)

Dissertation Title: *Commitment and Collaboration: Social networks and tacit knowledge in southern African and Canadian water demand management.*

Master of Arts - Collaborative program in Political Science and Environmental Studies (2000, University of Toronto)

Bachelor of Arts – Collaborative Program in International Development with core in ‘Biophysical Environment’ (1999, University of Guelph)

- 2017 - Associate Professor: School of Environment, Resources and Sustainability (SERS) as of July 1, 2017
- 2012 - 17 Assistant Professor (Tenure-track Appointment): School of Environment, Resources and Sustainability (SERS, formerly ERS as below), University of Waterloo. *Note: tenure clock starts in 2012; tenure decision in April 2017.*
- 2009-11 Assistant Professor (Contractually Limited Term Appointment): Department of Environment and Resource Studies, University of Waterloo
- 2006-9 Post-doctoral Researcher: Department of Environment and Resource Studies, University of Waterloo.
- 2004 Visiting Researcher: International Development Research Centre - The Middle East Regional Office. Cairo, Egypt.
- 2004 Visiting Researcher: International Union for the Conservation of Nature - South Africa Office. Pretoria, South Africa.
- 2002-6 Doctoral research (*degree conferred in 2007*)
- 2001-2 Consultant, Food and Agriculture Organization (U.N.), Water Policy, Development and Management Service. Rome, Italy.
- 2001 Rapporteur, Walkerton Inquiry – Part II. Toronto, Canada.
- 2001 Internship, People, Land and Water Program, International Development Research Centre. Ottawa, Canada
- 2000-1 Junior Professional, Food and Agriculture Organization (U.N.) – Water Policy, Development and Management Service. Rome, Italy. Competitive funding through the Department of Foreign Affairs and International Trade & United Nations Association of Canada

2. RESEARCH AND SCHOLARSHIP

PUBLICATION LIST

*Articles in refereed journals (*undergraduate student; **graduate student)*

- Wolfe**, S.E. and D. Brooks (2016). “Mortality awareness and water decisions: A social psychological analysis of supply management, demand management and soft path paradigms.” *Water International*. DOI: 10.1080/02508060.2016.1248093.
- Wolfe**, S.E. (2016). “Fear, Anger and Responsibility: Using emotions and Terror Management Theory to assess historic speeches about water and policy.” *Water History*
- Mann*, C. and S.E. **Wolfe** (2016). “Risk perceptions and Terror Management Theory: assessing public responses to urban flooding in Toronto, Canada.” *Water Resources Management*. 30(8): 2651-2670
- Ross*, H. and S.E. **Wolfe** (2016). ‘Life after death: evidence of the Hoover Dam as a hero project that defends against mortality reminders’. *Water History*, 1-19
- Wolfe**, S.E. (2014). “Women’s choices and Canadian water research and policy: a study of professionals’ careers, mentorship and experiential knowledge.” *Environmental Practice*. 16: 37–51
- Cote*, S. and **Wolfe**, S.E. (2014). “Assessing the Social and Economic Barriers to Permeable Surface Utilization for Residential Driveways in Kitchener, Ontario.” *Environmental Practice*. 16: 6–18
- Wolfe**, S.E., S. Davidson** and T. Reid* (2013). “Mentorship, knowledge transmission and female professionals in Canadian water research and policy.” *Water Policy*. 15:610-627
- Wolfe**, S.E. (2012) “Water cognition and cognitive affective mapping: identifying priority clusters within a Canadian water efficiency community.” *Water Resources Management*. 26(10): 2991-3004
- Elton*, K. and S.E. **Wolfe** (2011). “Water Efficiency and the Professional Plumbing Sector: How capacity and capability influence knowledge acquisition and innovation.” *Water Resources Management*. 26(2): 595-608
- Wolfe**, S.E and E. Hendriks** (2011). “Building Towards Water Efficiency: The influence of capacity and capability on innovation adoption in the Canadian home-building and resale industries.” *Journal of Housing and Built Environment*. 26(1): 47-72
- Wolfe**, S.E. (2010). “Beyond a Pipe Dream – The role of social capital in the development of a community’s water efficiency strategy.” *Environmental Practice*. 12 (3): 214-226
- Wolfe**, S.E. (2009). “What’s your story? Practitioners’ tacit knowledge and water demand management policies in Southern Africa and Canada.” *Water Policy*. 11: 489-503
- Wolfe**, S.E. (2009). “A Social Innovation Framework for Water Demand Management Policy: Practitioners’ capabilities, capacity, collaboration and commitment.” *Society and Natural Resources*. 22(5): 474-483
- Wolfe**, S.E. (2008). “Capacity, capability, collaboration and commitment: How social networks influence practitioners of municipal water demand management policy in Ontario, Canada.” *Environmental Practice*. 10(2): 42-52
- Wolfe**, S.E. and D.B. Brooks (2003). “Water Scarcity: an alternative view and its implications for policy and for capacity building.” *Natural Resources Forum*. 27(1): 99-107

*Chapters in books (**graduate student)*

- Brooks, David and S.E. **Wolfe** (2011). "Gains, Gaps and Institutional Change." Chapter in: Hammou Laamrani, Joshua Paglia and Lamia El-Fattal (Eds.). *Water Demand Management in the Middle East and North Africa: Policy, Practice and Power*. International Development Research Centre. Cairo, Egypt and Ottawa, Canada. pp. 15-34
- Wolfe**, S.E. and K. Elton** (2009). "Pushing the boundaries: shifting water soft paths philosophy toward hard policy in municipal water management." Chapter in: Brooks, David, Oliver Brandes, and Stephen Gurman (Eds.). *Making the Most of the Water We Have: The Soft Path Approach to Water Management*. EarthScan, London, UK. pp. 165-181
- Brooks, D. and S. **Wolfe** (2007). "Water Demand Management as Governance: Lessons from the Middle East and South Africa." Chapter in: Shuval, Hillel and Hassan Dweik (Eds.). *Water Resources in the Middle East: Israel-Palestinian Water Issues – From Conflict to Cooperation*. Hexagon Series on Human and Environmental Security and Peace, Vol. 2. Springer-Verlag. pp. 311-324

Other publications: Technical Reports

- Maas, C. and S.E. **Wolfe** (2012). "Building Professional Capacity for a Water-Sensitive Future in Ontario." Water Sustainability Project - POLIS Project on Ecological Governance
- Wolfe**, S.E. (2009). "*Final Report, Recommendations and Policy Action Strategy: Beyond a Pipe Dream – The role of social capital in the development of a community's water demand management strategy.*" Final Report to the Canada Mortgage and Housing Corporation and the Canadian Water and Wastewater Association's Water Efficiency Network
- Wolfe**, S.E. (2007). "Introduction." *Water Demand Management Research Report Series*. International Development Research Centre (IDRC) – Middle East Regional Office
- Brooks, David and Sarah **Wolfe** (2007). *Institutional Challenges for Effective Implementation of Water Demand Management and Institutional Assessment for Capacity Development*. Water Demand Management Research Series. IDRC – Middle East Regional Office.
- Brooks, D., S.E. **Wolfe**, and T. Shames (2001). *Local Water Supply and Management: A compendium of 30 years of IDRC-Funded Research*. International Development Research Centre, Ottawa
- Wolfe**, Sarah (ed.) (2000). *Proceedings from the Regional Training Workshop on Policy and Implementation of Water Demand Management (Western Asia)*. Beirut, Lebanon. Food and Agriculture Organization, Middle East Office (Internal)

*Other publications: News Articles, Trade, and New Media (*undergraduate student; **graduate student)*

- Wolfe**, S.E. (2016). "Sounding the water alarm will backfire thanks to human nature." *The Globe and Mail*. March 22, 2016 (World Water Day)
- Wolfe**, S.E., S. Cote** and H. Ross* (2015). "It came from the water." *Alternatives Journal*. 41(4): 44-47
- Wolfe**, S.E. and S. Wismer (2010). "Gender and Careers in the Canadian Water Policy Community." *Women and Environments International Magazine*. Special Issue on Women and Water, 82-83
- Wolfe**, S.E. and E. Hendriks** (2010). "Building Toward Water Efficiency in Canada – Policy Innovation and Education in New and Existing Homes." *Water Efficiency: The journal for water resource management*. Jan/Feb 2010
- Wolfe**, S.E. (2010). "Building Toward Water Efficiency." *WaterNews – Official Magazine of the Canadian Water Resources Association*. 30(2): 14

*Other publications: News Articles, Trade, and New Media continued (*undergraduate student;
**graduate student)*

- Wolfe**, S.E. and A. Craig (2010). "What are you doing today? Mentoring, gendered work, and an academic career." Invited submission to the *Canadian Federation of Social Sciences and Humanities – Equity Matters*
- Wolfe**, S.E. (2009). "How to keep women on the career ladder." *The Globe and Mail*. December 23rd: A23
- Homer-Dixon, T. and S.E. **Wolfe** (2008). "Everything is not Peachy." *The Globe and Mail*. August 18th: A21
- Wolfe**, S.E. (2007). "Reforming and Rebuilding: Water Efficiency Initiatives in Hermanus, South Africa." *Water Efficiency: The journal for water resource management*. Nov/Dec - 2(6)
- Wolfe**, S.E. and T. Homer-Dixon (2003). "The matrix of our troubles." *The Globe and Mail*. August 16th:A23
- Wolfe**, S.E. (2003). "Networks." Invited paper for the *UN Chronicle Magazine* (Water Resources Special Issue). XL (1): 33-35

*Addresses at conferences *presented*

- 2013 Craig, AK* and S.E. **Wolfe**. "Are you my mentor?: Daily strategies for symbiotic mentorship between academic mothers". Motherhood Initiative for Research and Community Involvement Conference. Toronto, ON
- 2010 **Wolfe**, S.E. "The cognitive-affective sciences and water governance" Invited Lecture to the International Development Research Centre, Ottawa. July 7th, 2010.
- 2010 **Wolfe**, S.E. and E. Hendriks*. "Chasing the Dream: the myth of work-life balance in the water sector". Invited Keynote to the *2010 Young Professionals Summit, Water Environment Federation and the American Water Works Association*. March 11, 2010. San Juan, Puerto Rico.
- 2009 **Wolfe**, S.E. and E. Hendriks*. "Building towards Water Efficiency: Policy Innovation and Education in New and Existing Homes." Pre-Screened WaterSmart Innovations Conference, Las Vegas, Nevada. Thursday, October 7th, 2009.
- 2009 **Wolfe**, S.E. and E. Hendriks*. "Building towards Water Efficiency - Research Findings". Pre-Screened The 3rd National Conference on Water Efficiency and Conservation, Canadian Water and Wastewater Association. Friday, October 16th, 2009.
- 2008 **Wolfe**, S.E. "Social Capital in Community-Level Water Efficiency Programs: Reports from South Africa and Canada." Pre-Screened 2nd National Conference and Policy Forum on Water Efficiency and Conservation. Canadian Water and Wastewater Association - Water Efficiency Network. November 3rd, 2008. Waterloo, ON.
- 2006 **Wolfe**, S.E. "Commitment and Collaboration: Social networks and tacit knowledge in southern African and Canadian water demand management." Pre-Screened Conference Proceedings and Presentation at the Canadian Water Resources Association's National Conference. June 5-7, 2006. Toronto, ON.
- 2006 **Wolfe**, Sarah. *Field Report: research on water demand management issues in southern Africa and Canada*. Invited Lecture, International Development Research Centre, Ottawa
- 2004 Brooks*, David and Sarah **Wolfe**. 'Water Demand Management as Governance: Lessons from the Middle East and South Africa'. Invited paper & presentation for the *2nd Israeli-Palestinian International Conference on Water for Life in the Middle East*, 10-14 October 2004 - Antalya, Turkey

RECORD OF RESEARCH APPLICATIONS

Faculty (Assistant Professor) Research – Running Total of Successful grants \$232 704 (2009-ongoing)

2016 “Think fast, think slow: the influence of heuristics, emotion and mortality awareness on our water decisions”, \$251,736; Social Science and Humanities Research Council: Insight Grant (Principal Investigator (PI); submitted October 2016, pending results spring 2017).

“Global Blue Cities Initiative – Letter of Intent” Networks of Centres of Excellence of Canada (NCE)-International Knowledge Translation Platforms (NCE-IKTP) Initiative. Submitted by the Canadian Municipal Water Consortium and the Global Water Research Coalition, via the Canadian Water Network and Water Institute at the University of Waterloo, pending (*Wolfe signed on at 5% time*)

2014 “Cognition and Terror Management Theory in water decision-making on policy and infrastructure development”, \$22 000; Social Science and Humanities Research Council: Connection Grant (PI; 100% funded).

“Something in the water: using TMT to explore and explain the decisions we make about water”, \$8 000, Waterloo International: UW International Research Partnership Grant (PI; 100% funded)

“Something in the water: using TMT to explore and explain the decisions we make about water”, \$3 000, Halbert Centre for Canadian Studies, Hebrew University, Israel (PI; 100% funded)

“Something in the water: using TMT to explore and explain the decisions we make about water”, \$1 000, Faculty of Environment – UW: Faculty support for workshop (PI; 100% funded)

2013 “Thinking about Water: what, why and how we teach to engage the next generation of interdisciplinary water leaders”, \$15 000, Water Institute - UW: Interdisciplinary Water Workshops or Symposia Grant (PI; 100% funded)

2012 “Cognition and Terror Management Theory in water decision-making on policy and infrastructure development”, \$74 884, Social Sciences and Humanities Research Council: Insight Development Grant (PI; 100% funded)

Note: I ranked 3rd of 61 national applicants as Emerging Scholar; my Capability ranked as Excellent while in the categories of Challenge and Feasibility I was ranked Very Good)

“Research Seed/Start Up Grant”, \$15 000, Faculty of Environment, University of Waterloo

“Graduate Student Support by New Faculty Members Award”, \$5 500, Faculty of Environment, University of Waterloo

“Governing water in the face of uncertainty, proposal for a Canada-Israel Workshop”, \$11 550; University of Waterloo: International Research Partnership Grant, (Co-applicant with P. Kay; 100% funded; 40% proposal contribution by Wolfe)

- 2012 “Governing water in the face of uncertainty, proposal for a Canada-Israel Workshop”, \$12 000, Halbert Centre for Canadian Studies, Hebrew University, Israel (Co-applicant with P. Kay; 100% funded; 40% proposal contribution by Wolfe)
- 2011 “Song my paddle sings: gender, work and practices in the Canadian water policy community”, \$41 770, Social Sciences and Humanities Research Council: Standard Research Grant (PI; 28.5% funded from request of \$146 615)
- “University of Haifa Research Stipend”, \$10 000, University of Waterloo (PI;100% funded)
- 2009 “Social capital assessment of the Water Master Plan process in the Township of Centre Wellington”, \$13 000; Grand River Conservation Authority: Grant SOCAP study (PI; 100% funded)

Post-doctoral Research - Total of Successful grants \$234 010 (2006-2008)

- 2008 “Building toward water efficiency: policy innovations and education in new and existing home builders”, \$24 505, British Columbia Real Estate Foundation: Research Grant (PI; 100% funded)
- “Building toward water efficiency: policy innovations and education in new and existing home builders”, \$24 505, Alberta Real Estate Foundation: Research Grant (PI; 100% funded)
- 2007 “Building toward water efficiency: policy innovations and education in new and existing home builders”, \$100 000.00, Walter and Duncan Gordon Foundation: Research Grant (PI; 100% funded)
- Thinking about the soft path for water: from idea to implementation (workshop), \$25 000, Walter and Duncan Gordon Foundation: Research Grant (PI; 100% funded)
- 2006 “Building toward water efficiency: policy innovations and education in new and existing home builders”, \$20 000, Canadian Water and Wastewater Association: Grant for Post-Doctorate (PI; 100% funded)
- “Building toward water efficiency: policy innovations and education in new and existing home builders”, \$25 000, Canada Mortgage and Housing Corporation: Grant for Post-Doctorate (PI; 100% funded)
- “Post-Doctoral Fellowship”, \$15 000, Walter and Duncan Gordon Foundation

Graduate Research - Total of Successful grants \$124 581 (2001-2004)

- 2004 “Canadian Window on International Development Award: Renewal”, \$9 581, International Development Research Centre (100% funded)
- 2003 “Doctoral Research Award”, \$59 000, Social Sciences and Humanities Research Council of Canada
- “Canadian Window on International Development Award”, \$20 000, International Development Research Centre (IDRC)
- 2002 Ontario Graduate Scholarship in Science and Technology - University of Guelph (\$5 000)

3. SERVICE

COMMITTEES

a. University level

- Reviewer: Water Institute, Graduate scholarships adjudication *2011 - 2014*
- Reviewer: UW/SSHRC, Small Grants Committee Reviewer *2014*

b. Faculty level

- Representative: WATER 602 final project evaluation for the Water Institute. *2016*
- Representative: ENV Communications Group (UG curriculum review post-ELPE) *2014 – 2015 ongoing*
- Representative: Integrated Water Management Program Sub-Committee. *April 2013 – 2014*
- Representative: Arts Faculty Council. University of Waterloo. *June 2011 – 2014*
- Representative: Academic Board of the Independent Studies Undergraduate Program. University of Waterloo. *January 2010 – January 2014*
- Representative: Status of Women and Equity Committee. University of Waterloo. *May 2011-June 2013*
- Representative: President’s Advisory Committee for the mid-cycle review of the 6th Decade Plan. University of Waterloo. *January – February 2012*

c. Department/School level

- SERS Director Search Committee (2017)
- Program development – Accelerated Bachelors-to-Masters program option. 2015 – ongoing
- ERS Administrative Manager Hiring Committee. *2014*
- ERS-WISER Hiring Committee. *2014*
- Comprehensive Exam and Thesis Defense Chair: School of Environment, Resources and Sustainability, University of Waterloo. *January 2011 - ongoing*
- Member: Undergraduate Curriculum Committee, School of Environment, Resources and Sustainability, University of Waterloo. *September 2010 - 2013*
- Recruitment Open Houses, new student Welcome Weekends, Meet-the-Prof events, convocations etc

REVIEWS

a. Journals Manuscript Reviewer

- *Journal of Environmental Planning and Management; Journal of Sustainable Tourism; International Journal of Water; Society and Natural Resources; Journal of Urban Sustainable Development; Alternatives (water issue); Journal of Environmental Planning Education and Research; International Journal of Water; Journal of Environmental Management; Environmental Management*

b. Grant applications

- External Grant Reviewer: SSHRC Connection Grant (2012)
- External Scholarship Reviewer:
 - Shastri Indo-Canadian Institute (2009; 2010)
 - Walter and Duncan Gordon Foundation “Water Fellowship” application proposals (2007; 2008)

COMMUNITY SERVICE

- Community representative (academic) to the Region of Waterloo's Urban Biosolids Master Plan committee, *2016 – ongoing*
- Community representative (academic) to the Region of Waterloo's Water Efficiency Advisory Committee (WEAC), *2016 - ongoing*
- Informal Advisor: "Save our Water" campaign in Fergus-Elora organizing against Nestle water taking permit in the community *2015 – ongoing*
- Research advisory requests:
 - "Friends of Elora Water" on research perspective based on community activism against bottled water company and water extraction May 2015
 - Grand River Conservation Authority (Etienne): perspectives on bottled water extraction and community activism November 2015
 - High River Community Group (Fowler): perspective based on 'water efficient residential builders' research *2014*
 - CGIAR Research program on climate change, agriculture and food security, Kenya office (water efficiency and irrigation issues) *2012*
 - Great Lakes United – knowledge management in water sector *2012*
 - POLIS Institute, University of Victoria *2012*
 - Policy and Priorities Directorate, Infrastructure Canada *2011*
 - World Wildlife Foundation, water program *2011*
 - UN Foundation (Washington, DC) gender, water-sanitation, developing world context *2011*
 - Ministry of Environment on Water Opportunities Act speech *2010*
- Media outreach: interviews
 - Canadian Broadcasting Corporation, Sept and Oct 2015 x 2 interviews
 - "Water. It's complicated" Watch Magazine *2011*
 - Water Canada *2010*