

## CURRICULUM VITAE

for

**DAVID WALTNER-TOEWS**

*Website: [www.Davidwaltnertoews.wordpress.com](http://www.Davidwaltnertoews.wordpress.com)*

**Born:** May 29, 1948, in Winnipeg, Manitoba. Parents were Mennonite refugees from the USSR in 1926. **Citizenship:** Canadian. **Marital status:** Married, two grown children.

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*David Waltner-Toews is an epidemiologist, veterinarian, specialist in ecosystem approaches to human health, short story writer, novelist essayist, creative nonfiction writer, poet, teacher, essayist, poet, and a public performer – in the words of crime novel reviewer in the Globe and Mail, “a genuine polymath”.*

**CURRENT POSITION** University Professor Emeritus, University of Guelph. Full time writer/author.

**EDUCATION** Bachelor of Arts, English Literature, started at U of Manitoba, finished at Goshen College, Indiana, 1971; Doctor of Veterinary Medicine, Western College of Veterinary Medicine, University of Saskatoon, 1978; PhD (Epidemiology, dairy calf management) University of Guelph, 1985

## EMPLOYMENT HISTORY

1994 - 2011                    Professor, Department of Population Medicine, University of Guelph, Member of the Graduate Faculty, PhD In Rural Studies; Participating Faculty, Guelph-Humber Creative Writing Program

1992 - 1994                    Associate Professor, Department of Population Medicine, University of Guelph

1988 - 1992                    Assistant Professor, Department of Population Medicine, University of Guelph

1987 - 1988                    Assistant Professor (contractual), Department of Population Medicine, University of Guelph

1985 - 1987                    Epidemiologist (Development of database management system and field investigation protocols for Animal Disease Investigation Centre), Ontario Ministry of Agriculture and Food Canadian International Development Agency

1980 - 1985                    Medical Research Council Fellow (PhD in analytical epidemiology), University of Guelph

1978 - 1980                    Private Veterinary Practitioner, Grand Prairie Alberta (78-79), and Barrie, Ontario (79-80)

## SELECTED HONOURS AND AWARDS

**The WSAVA-Covetrus International Veterinary Community Service Award**, recognizing “veterinarians who have exhibited exceptional acts of valour and commitment in the face of adversity to service the community. The contribution could be specific to the veterinary community or beyond.” Presented July 18, 2019 at the WSAVA Congress in Toronto.

**Invited Keynote:** The Impact of Globalisation on Foodborne Disease. European Food Safety Agency Scientific Conference, Parma, Italy, 18-21 of September, 2018.

**Invited Speaker:** Eat the Beetles! An Exploration into our Conflicted Relationship with Insects. European Commission: Directorate General Joint Research Centre, Ispra, Italy, 20 Sept, 2018.

**Invited Keynote:** Ecology and Health. International Association of Ecology and Health. Cali Colombia. Aug 17, 2019.

**Invited Speaker:** “Speakers of Renown” series at the International Development Research Centre in Ottawa, Celebrating IDRC's 40<sup>th</sup> anniversary. This series brought together “the best minds in international development for free public lectures on a wide range of pressing issues.” (November 24, 2010).

**Awarded** inaugural “Outstanding Contribution to the field of EcoHealth” award by International Association for Ecology and Health. Awarded in London, England, at their biennial conference (August 18-22, 2010).

**Invited Participant (June 2010):** International policy seminar on strengthening collaboration between wildlife, livestock and human health sectors. Chatham House, London (Europe’s leading policy think tank).

**Gareth Davies Lecture**, March 26, 2010. The Society for Veterinary Epidemiology and Preventive Medicine, Nantes, France.

**Helen Battle Lecturer**, March 3, 2009. University of Western Ontario, Department of Biology. Global Environmental Change meets One Health: EcoHealth to the Rescue?"

**Invited Lecture:** *Riedel Lecture on Health and the Environment* .Dr. Monica Campbell, Toronto Public Health and Dr. David Waltner-Toews, University of Guelph: “Water-borne Contamination, Air Pollution and Heat Waves in a Context of Climate Change: Some Policy Implications.” The Climate Change & Health Division Healthy Environments and Consumer Safety Branch, June 13, 2006.

Pfizer Award for Research Excellence (1998)

DLT Smith Lecturer, University of Saskatchewan (1988) I was the first graduate of The University of Saskatchewan to be honoured by being asked to return to my *alma mater* to present this prestigious lecture. The above was also requested by the Australian Practice Journal for reprinting, and published in Swedish, in the Swedish Veterinary Journal.

Honour declined: asked to be a member of the Royal Society Panel to review the status of Health Canada's Primate Colony. Declined due to time constraints.

Member of expert panel convened by IDRC to develop guidelines for ecosystem approaches to health and tropical and emerging disease research in Latin America (1999).

## **PROFESSIONAL MEMBERSHIPS AND INVOLVEMENTS**

2004-2011 Scientific Advisor, Worldwide Virtual Network of Young Practitioners Working on Science and Society Issues (<http://alba.jrc.it/science-society/> - based at the European Commission's Joint Research Centre for Risk, Ispra Italy)

2003-20 Arts and Culture Editor, EcoHealth

2003 - 2011 Editorial Board, Alternatives Journal: Canadian Environmental Ideas and Action:

2003 - 2004 Scientific Advisory Board: LIPHE4 (an international not-for profit scientific association; [www.liphe4.org](http://www.liphe4.org))

2000 - 2003 Editorial Board, Global Change and Human Health

2009 - 2011 Member, Science Advisory Board, Agriculture and Agrofood Canada

Member, Canadian Public Health Association

2010 ff Advisory Board: The Post Normal Times: Perspectives on Environmental Science and Policy Decisions

1994 - 1996 President, Canadian University Consortium for Health in Development

1995 - 2003 Preventive Medicine, Executive Committee

Member, Canadian Society for International Health

Member, College of Veterinarians of Ontario

1988 – 1990 Editor of newsletter for Canadian Association of Veterinary Epidemiology and Preventative Medicine

1995 – 2001 Editorial Board, Ecosystem Health

1989 -1994 Association of Teachers of Veterinary Public Health and Preventive Medicine, Executive Committee

1994 International Society of Ecosystem Health and Medicine, Founding Member

1988 - 1990 Editor of newsletter for Canadian Association of Veterinary Epidemiology and Preventative Medicine

1983 -1984 Organizer, Veterinarians Against Nuclear War

## **ACTIVE ORGANIZATIONAL INVOLVEMENTS as of 2019**

Ecohealthinternational.Org (<https://www.ecohealthinternational.org/>)

Founding President & volunteer Advisory Board member, Veterinarians without Borders/

Vétérinaires sans Frontières – Canada

Founding Member, VSF-International

Founding Member, Communities of Practice for Ecosystem Approaches to Health in Canada (Copeh-Canada) and Southeast Asia  
The Writers Union of Canada  
The League of Canadian Poets  
PEN-Canada  
Founding president, Network for Ecosystem Sustainability and Health ([www.nesh.ca](http://www.nesh.ca)). As of June, 2010, I have stepped down as President but was elected Member for Life.

## **UNIVERSITY GRADUATE TEACHING**

For 24 years, taught Epidemiology of Zoonoses as well as several courses on Ecosystem Health, Ecosystem Approaches to Health, and Special Topics in Public Health

**SUPERVISION:** I supervised or co-supervised 23 masters students and 10 doctoral students over my career

## **UNDERGRADUATE TEACHING**

Epidemiology of Foodborne Diseases (Every year since 1987 except 1999, 2004, 2008 until retirement in 2011)

Ecosystem Health I (a Field course for Veterinary Students from across Canada). Every year since 1994 except 2004.

Ecosystem Health II (a joint course with the medical school at the University of Western Ontario).

**Research Funding:** Millions of dollars over 20 years, from IDRC, CIDA, CIHR, Tri-Council Research Program, various private companies

## **PUBLICATIONS**

### ***Nonfiction Books Authored***

**Eat the Beetles! An Exploration into our Conflicted Relationship with Insects.** (ECW Press, 2017)

**The Origin of Feces: what excrement tells us about evolution, ecology and a sustainable society** (ECW Press, 2013).

**Ecohealth: a Primer. 2011.** Published by Veterinarians without Borders/ Vétérinaires sans Frontières - Canada . Available at <http://www.vwb-vsfc.ca/english/index.shtml> under Resources

**Food, Sex, and Salmonella: Why our food is making us sick.** Greystone Books, 2008.

**Integrated Assessment of Health and Sustainability of Agroecosystems.** (With T. & M. Gitau). Taylor and Francis/CRC Press, 2008.

**The Chickens Fight Back: Pandemic Panics and Deadly Diseases that Jump from Animals to Humans.** Greystone Books, 2007.

**Ecosystem Sustainability and Health: a practical approach.** (Cambridge University Press). 2004.

**Good for Your Animals, Good for You: How to live and work with animals in therapy and activity programs and stay healthy.** (with A. Ellis) (Pet Trust Foundation, 1994).

**Food, Sex & Salmonella: the risks of environmental intimacy.** Toronto, NC Press, 1992

**One Animal Among Many: Gaia, Goats and Garlic.** NC Press, Toronto, 1991.

*Nonfiction Books Edited or Co-edited with Substantial written contributions*

Brown, V.A., Harris, J.A., Waltner-Toews, D. 2019 **Independent Thinking in an Uncertain World: A Mind of One's Own.** London, Earthscan/Routledge. In Press.

**One Health: The Theory and Practice of Integrated Health Approaches.** Editors Jakob Zinsstag, Esther Schelling, David Waltner-Toews, Maxine Whittaker, and Marcel Tanner. Eds. 2015. Wallingford, UK: CAB International.

**One Health for One World. 2010.** Published by Veterinarians without Borders/ Vétérinaires sans Frontières – Canada. Available at <http://www.vwb-vsfc.ca/english/index.shtml>

**The Ecosystem Approach: Complexity, uncertainty, and managing for sustainability.** Waltner-Toews, D., Kay, J, Lister, N-M. (eds.). Also co-author on six chapters in this book. (New York: Columbia University Press, 2008).

**Agroecosystem Health: Analysis and Assessment** Agroecosystem Health Project, by Smit, B., Waltner-Toews, D., Rapport, D., Wall, E., Wichert, G., Gwyn, E., Wandel. J. (eds.) (University of Guelph, Guelph, Ontario, 1998).

**Veterinary Epidemiology in the Real World,** Waltner-Toews, D. (ed.) (CAVE PM, Guelph, 1991).

*Poetry Collections*

**The Complete Tante Tina: Mennonite Blues and Recipes,** Pandora Press, Kitchener, 2004

**The Fat Lady Struck Dumb,** Brick Books, London, Ontario, 2000

**The Impossible Uprooting**, McClelland & Stewart, Toronto, 1995.

**Endangered Species**, Turnstone Press, Winnipeg, 1988.

**Three Mennonite Poets**, with Jean Janzen and Yorifume Yaguchi, Good looks, 1986.

**Good Housekeeping**, Turnstone Press, Winnipeg, 1983.

**The Earth is One Body**, Turnstone Press, Winnipeg, 1979.

**That Inescapable Animal**, Pinchpeny Press, Goshen, Indiana, 1974.

### ***Fiction***

**One Foot in Heaven**, Regina, Coteau Books, 2005

**Fear of Landing**. Poisoned Pen Press, 2008

### **SCHOLARLY PAPERS**

#### **Scholarly Journals**

Waltner-Toews, D. 2019. The Impact of Globalisation on Foodborne Disease. *EFSA Journal*. In press.

Messens, W, Hugas, M., Afonso, A., Aguilera, J., Berendonk, T.U., Carattoli, A., Dhollander, S., Gerner-Smidt, P., Nikolaus Kriz, N., Liebana, E., Medlock, J., Robinson, T., Stella, P., Waltner Toews, D., Catchpole, M. 2019. Advancing risk assessment science- Biological hazards. *EFSA Journal*. In press.

Waltner-Toews D. and K. Houle. 2017. Biophilia on the Dinner Plate: A Conversation about Ethics and Entomophagy. *Food Ethics* 1 (2): 157-171. DOI 10.1007/s41055-017-0015-3

Waltner-Toews, M. and D. Waltner-Toews. 2017. Designed for Disease? An Ecosystem Approach to Emerging Infectious Diseases. *LA+ Fall 2017 Issue*.

Waltner-Toews, D. 2017. Zoonoses, One Health and Complexity: wicked problems and constructive conflict. *Phil. Trans. R. Soc. B* 372: 20160171.  
<http://dx.doi.org/10.1098/rstb.2016.0171>

N. Ole Nielsen, David Waltner-Toews, John S. Nishi, D. Bruce Hunter. 2012. Whither ecosystem health and ecological medicine in veterinary medicine and education *Can Vet J*. 2012 Jul; 53(7): 747–753.

David Waltner-Toews, Enid Stiles, John VanLeeuwen, Erin Fraser. 2015. Veterinarians without Borders/Vétérinaires sans frontières-Canada — The first 10 years (2005–2015) *Can Vet J.* 2015 Aug; 56(8): 882–884.

Parkes M, Morrison K, Bunch M, Hallström L, Neudoerffer C, Venema H, Waltner-Toews D. 2010. Towards Integrated Governance for Water, Health and Social-Ecological Systems: The Watershed Governance Prism. *Global Environmental Change.* 2010; DOI: 10.1016/j.gloenvcha.2010.06.001.

Pintar KD, Fazil A, Pollari F, Charron DF, Waltner-Toews D, McEwen SA. A risk assessment model to evaluate the role of fecal contamination in recreational water on the incidence of cryptosporidiosis at the community level in Ontario. *Risk Anal.* 2010 Jan 30 (1): 49-64; Epub 2009, Dec 11.

Arya N, Howard J, Isaacs S, McCallister ML, Murphy S, Rapport D, Walter-Toews D. Time for an ecosystem approach to public health? Lessons from two infectious disease outbreaks in Canada. *Global Public Health* 2009; 1: 31-49

Waltner-Toews, D. Ecohealth: a primer for veterinarians. *Canadian Veterinary Journal.* May 2009; 50(5): 519–521. (Commentary)

Zinsstag, J., Schelling, E., Bonfoh, B., Fooks, A., Kaymbekv, J, Waltner-Toews, D., Tanner, M. Towards a “one Health” research and application tool box. *Veterinaria Italiana* 2009; 45 (1): 121-134.

Waltner-Toews, D. Food, global environmental change, and health: Ecohealth to the rescue? *McGill Journal of Medicine* 2009; 12(1): 85-89. (Invited Commentary)

Lefebvre SL, Reid-Smith RJ, Waltner-Toews D, Weese JS. Incidence of acquisition of methicillin-resistant *Staphylococcus aureus*, *Clostridium difficile*, and other health-care-associated pathogens by dogs that participate in animal-assisted interventions. *J Am Vet Med Assoc* 2009;234:1404-17.

Pintar, K.D.M., Waltner-Toews, D., Charron, D., Pollari, F., Fazil, A., McEwen, S., Nesbitt, A., Majowicz, S. Water consumption habits of a south-western Ontario community, *J Water Health.* 2009 Jun;7(2):276-92.

Pintar, K.D.M, Pollari, F., Waltner-Toews, Charron, D., McEwen, S., Fazil, A., Nesbitt, A. A modified case-control study of cryptosporidiosis in the community *Epidemiol Infect.* 2009 Dec;137(12):1789-99. Epub 2009 Jun 16.

Morrison K, Prieto PA, Dominguez AC, Waltner-Toews D, Fitzgibbon J. 2008. Ciguatera fish poisoning in La Habana, Cuba: a study of local social-ecological resilience. *EcoHealth* 5: 346-359.

LeFebvre, Sandra L., Peregrine, A.S., Golab, Gail C., Gumley, Nigel R., Waltner-Toews, David, Weese, J. Scott. 2008. A Veterinary perspective on the recently published guidelines for animal-assisted interventions in health-care facilities. *Journal of American Veterinary Medical Association* 233 (3): 394-402.

Berrang-Ford, L., Berke, O., Abdelrahman, L., Waltner-Toews, D., McDermott, J. 2006. Spatial analysis of Sleeping Sickness, Southeastern Uganda, 1970-2003. *Emerging Infectious Diseases* [serial on the Internet]. 2006 May [date cited]. Available from <http://www.cdc.gov/ncidod/EID/vol12no05/05-1284.htm>

Thomas, M.K., Charron, D.F., **Waltner-Toews, D.**, Holt, J., Maarouf, A.R. 2006. The Role Of High Impact Weather In Waterborne Disease Outbreaks in Canada. *Int. J. Environmental Health Research*. 16(3) :167-180.

Ogden, N.H., Maarouf, A., Barker, I.K., Bigras-Poulin, M., Lindsay, L.R., O'Callaghan, C.J., Smoyer-Tomic, K.E., **Waltner-Toews, D.** and Charron, D. 2006. Climate change and the potential for range expansion of the Lyme disease vector *Ixodes scapularis* in Canada. *Int.J. Parasitology*, 36: 63-70.

Berrang-Ford, L., Waltner-Toews, D., Charron, D., Odiit, M., McDermott, J., Smit, B. 2005. Sleeping Sickness in South-Eastern Uganda: a Systems Approach. *Ecohealth* 3: 183-194

Parkes, M., Bienen, L., Breilh, J., Hsu, L-N., McDonald, M., Patz, J., Rosenthal, J., Sahani, M., Sleight, A., Waltner-Toews, D., Yassi, A. 2005. All Hands on Deck: Transdisciplinary Approaches to Emerging Infectious Disease. *EcoHealth* 2: 258-272.

Jones, Andria, Q., Dewey, Catherine, Dore, Kathryn, Majowicz, Shannon, McEwen, Scott, Waltner-Toews, David, Henson, Spencer, Mathews, Eric. 2005. Public perception of drinking water from private water supplies: focus group analyses. *BMC Public Health* 5:129, available on-line at <http://www.biomedcentral.com/1471-2458/5/129>

Jones, Andria, Q., Dewey, Catherine, Dore, Kathryn, Majowicz, Shannon, McEwen, Scott, Waltner-Toews, David, Mathews, Eric, Carr, Deborah J., Henson, Spencer. 2006. Public perceptions of drinking water: a postal survey of residents with private water supplies *BMC Public Health* 6:94

Neudoerffer, R. Cynthia, **D. Waltner-Toews**, J. Kay, D.D. Joshi, M.S. Tamang. 2005. A diagrammatic approach to understanding complex eco-social interactions in Kathmandu, Nepal. *Ecology and Society* 10(2): 12, 2005. [online] URL: <http://www.ecologyandsociety.org/vol10/iss2/art12/>

Ogden, N.H., Bigras-Poulin, M., O'Callaghan, C.J., Barker, I.K., Lindsay, L.R., Maarouf, A., Smoyer-Tomic, K.E., Waltner-Toews, D., Charron, D. A dynamic population model to investigate effects of climate on geographic range and seasonality of the tick *Ixodes scapularis* . *International Journal for Parasitology* 35: 375-389, 2005.



**Waltner-Toews, D.** and J. Kay. The Evolution of an Ecosystem Approach: the Diamond Schematic and an Adaptive Methodology for Ecosystem Sustainability and Health. *Ecology and Society* 10 (1): 38, 2005. [online] URL: <http://www.ecologyandsociety.org/vol10/iss1/art38/>

**Waltner-Toews, D.**, Neudeorffer, C., Joshi, D.D., Tamang, M.S. Agro-urban ecosystem health assessment in Kathmandu, Nepal: epidemiology, systems, narratives. *Ecohealth*. 2: 1-11, 2005.

Goy, J. and **Waltner-Toews, D.** Improving health in Ucayali, Peru: a multi-sector and multi-level analysis. *Ecohealth* 2: 47-57, 2005.

Charron, D., **Waltner-Toews, D.**, Butt, K., Maarouf, A. Zoonoses: climate change affects modes by which diseases are passed from animals to humans. *Alternatives Journal* 31: 24-28, 2005.

Charron, D., Thomas, M.K., **Waltner-Toews, D.**, Aramini, J., Edge, T., Kent, R.A., Maarouf, A.R., Wilson, J. Vulnerability of waterborne diseases to climate change in Canada: a review. *Journal of Toxicology and Environmental Health, Part A*, 67: 1667-1677, 2004.

**Waltner-Toews, D.**, VanLeuuwen, J., Hunter, B., Larivière, N., Bélanger, D., Smits, J. Four Veterinary College and a Common Vision: Ecosystem Health in Canadian Veterinary Colleges. *EcoHealth Supplement*, 2004.

Ogden, N.H., Lindsay, L.R., Beauchamp, G., Charron, D., Maarouf, A., O'Callaghan, C.J., **Waltner-Toews, D.**, Barker, I.K. Investigation of the relationships between temperature and development rates of the tick *Ixodes scapularis* (Acari: Ixodidae) in the laboratory and field. *Journal of Medical Entomology*, 2004; 41(4): 622-633, 2004.

**Waltner-Toews, D.**, Kay, J., Neudeorffer, C., Gitau, T. Perspective changes everything: managing ecosystems from the inside out. *Frontiers in Ecology and the Environment*. 1 (1): 23-25, 2003.

Ferrazzi, S., **Waltner-Toews, D.**, McEwen, S., Abernathy, T. The effects of prehospital advanced life support drug treatment on patient improvement and in hospital utilization. *Prehospital Emergency Care*. 5: 252-260, 2001.

**Waltner-Toews, D.** An ecosystem approach to health and its applications to tropical and emerging diseases. *Cadernos de Saude Publica/Reports in Public Health*. 17 (supplement): 7-22, 2001.

**Waltner-Toews, D.**, Lang, T. A new conceptual base for food and agricultural policy: the emerging model of links between agriculture, food, health, environment and society. *Global Change and Human Health* 1(2): 116-130, 2001.

**Waltner-Toews, D.** The end of medicine: the beginning of health. *Futures*. 32 (7): 655-667, 2000.

Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Opuda-Asibo, J. Risk factors for acute diarrhoea among inhabitants of Kampala district, Uganda. South African Medical Journal. 90(9): 891-898, 2000.

**Waltner-Toews, D.** Mad cows and bad berries: unintended consequences of solving agricultural problems. Alternatives. 25(1): 38-44, 1999.

Raina, P., **Waltner-Toews, D.**, Bonnett, B., Woodward, W., Abernathy, T. Influence of companion animals on the physical and psychological health of older people: An analysis of 1-year longitudinal study. Journal of American Geriatric Society. 47: 323-329, 1999.

Raina, P., **Waltner-Toews, D.**, Bonnett, B., Woodward, W., Abernathy, T. How reliable are selected scales from population-based health surveys? An analysis among seniors. Canadian Journal of Public Health. 90(1): 60-64, 1999.

Faye, B., **Waltner-Toews, D.**, McDermott, J. From >ecopathology= to >agroecosystem health=. Preventive Veterinary Medicine. 39: 111-128, 1999.

VanLeeuwen, J., **Waltner-Toews, D.**, Abernathy, T., Smit, B. Evolving models of human health toward an ecosystem context. Ecosystem Health. 5: 204-219, 1999.

VanLeeuwen, J.A., **Waltner-Toews, D.**, Abernathy, T., Smit, B., Shoukri, M. Associations between stomach cancer incidence and drinking water contamination with atrazine and nitrate in Ontario (Canada) agroecosystems, 1987-1991. International Journal of Epidemiology. 28(5): 836-840, 1999.

VanLeeuwen, J., Nielsen, O.N., **Waltner-Toews, D.** Ecosystem Health: an essential field for veterinary medicine. Journal of American Veterinary Medicine Association. 212: 53-57, 1998.

Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Wilson, J.B. Factors associated with occurrence of Salmonella in broiler and layer flocks of chickens in Kampala district, Uganda. Bulletin of Animal Health and Production in Africa. 46: 75-80, 1998.

Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Wilson, J.B. Risk factors for Salmonella infection among diarrhoea patients in Kampala district, Uganda. Uganda Veterinary Journal (Special Issue). 2: 5, 1998.

Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Wilson, J.B., Opuda-Asibo, J., Poppe, C. Salmonella in broiler and layer flocks of chicken in Kampala district, Uganda. Uganda Veterinary Journal. 4(6): 85-92, 1998.

Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Wilson, J.B., Opuda-Asibo, J., Poppe, C. Factors associated with the occurrence of Salmonella in broiler and layer flocks of chickens in Kampala district, Uganda. Epidemiologie et Sante Animale. 31-32:04, 24.1-3, 1997.

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Rowley, T., Gallopin, G., **Waltner-Toews, D.**, Raez-Luna, E. Developing an integrated conceptual framework to guide research on agricultural sustainability for tropical agroecosystem: Centro Internacional de Agricultura Tropical - University of Guelph Project. Ecosystem Health, 3: 154-161, 1997.

Ribble, C., Hunter, B.D., Lariviere, N., Belanger, D., Wobeser, G., Daoust, P-Y., Leighton, T., **Waltner-Toews, D.**, Davidson, J., Spangler, E., Nielsen, O. Ecosystem health as a senior rotation in Canadian veterinary schools. Canadian Veterinary Journal, 38: 485- 490, 1997.

**Waltner-Toews, D.** Ecosystem Health: A Framework for Implementing Sustainability in Agriculture. Bioscience. 46: 686-689, 1996.

**Waltner-Toews, D.** An Agroecosystem perspective on foodborne illness. Ecosystem Health. 2: 177-185, 1996.

**Waltner-Toews, D.**, Wall, E. Emergent perplexity: in search of post-normal questions for community and agroecosystem health. Social Science in Medicine. 45: 1741-1749, 1996.

**Waltner-Toews, D.** Changing patterns of communicable disease: Who is turning the Kaleidoscope? Perspective of Biomedical Science. 39: 43-55, 1995.

Gitau, G.K., McDermott, J.J., Adams, J.E., Lissemore, K.D., **Waltner-Toews, D.** Factors influencing calf growth and daily weight gain in smallholder dairy farms in Kiambu District of Kenya. Preventive Veterinary Medicine. 21: 179-190, 1995.

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VanLeeuwen, J., Rodriguez, L., **Waltner-Toews, D.** Cow and farm level risk factors of clinical vesicular stomatitis in Costa Rican dairy herds. American Journal of Tropical Medicine and Hygiene. 53: 342-350, 1995.

Baronet, D., **Waltner-Toews, D.**, Joshi, D.D., Craig, P.S. Echinococcus granulosus infection in dog populations in Kathmandu, Nepal. Annals of Tropical Medicine and Hygiene. 88: 485-492, 1994.

**Waltner-Toews, D.** L=impact de l=agriculture sure la santé de l=écosystème. Le Medicine Vétérinarian du Quebec. Numéro Spécial-Environnement, 1994.

**Waltner-Toews, D.**, McEwen, S.A. Residues of hormonal substances in foods of animal origin: a risk assessment. Preventive Veterinary Medicine. 20: 235-247, 1994.

**Waltner-Toews, D.**, McEwen, S.A. Residues of antibacterial and antiparasitic drugs in foods of animal origin: a risk assessment. Preventive Veterinary Medicine. 20: 219-234, 1994.

**Waltner-Toews, D.**, McEwen, S.A. Residues of industrial chemical and metallic compounds in foods of animal origin: a risk assessment. Preventive Veterinary Medicine. 20: 210-218, 1994.

**Waltner-Toews, D.**, McEwen, S.A. Insecticide residues in foods of animal origin: a risk assessment. Preventive Veterinary Medicine. 20: 179-200, 1994.

**Waltner-Toews, D.**, McEwen, S.A. Chemical contaminants in foods of animal origin: an overview and risk assessment. Preventive Veterinary Medicine. 20: 161-178, 1994.

Campbell, J.R., Menzies, P.I., **Waltner-Toews, D.**, Walton, J.S., Buckrell, B.C., Thorsen, J. The seroprevalence of Maedi-Visna in Ontario sheep flocks and its relationship to flock demographics and management practices. Canadian Veterinary Journal. 35: 39-44, 1994.

Wilson, J.B., McEwen, S.A., Clarke, R.C., Leslie, K.E., **Waltner-Toews, D.**, Gyles, C.L. Risk factors for bovine infection with verocytotoxigenic *Escherichia coli* in Ontario, Canada. Preventive Veterinary Medicine. 16: 159-170, 1993.

**Waltner-Toews, D.** Zoonotic disease concerns in animal-assisted therapy and animal visitation programs. Canadian Veterinary Journal. 34: 549-551, 1993.

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**Waltner-Toews, D.** VTEC - is it a food-borne zoonosis? Journal of Food protection. 53: 258-261, 1990.

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**Waltner-Toews, D.** One animal among many; veterinarians in the global community. The 1988 DLT Smith Lecture. Canadian Veterinary Journal. 30: 13-20, 1989.

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Schneider, R., Hunter, D.B., **Waltner-Toews, D.**, Barker, I.K. A descriptive study of mortality at the Kortright Waterfowl Park, 1982-1986. Canadian Veterinary Journal. 29: 911-914, 1988.

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### **Papers in Conference Proceedings**

Zinsstag J, Schelling E, Waltner-Toews D, Tanner M. 2009. From one medicine to one health and systemic approaches to health and well-being. Keynote address at conference of International Society for Veterinary Epidemiology and Economics, Durban, South Africa.

**Waltner-Toews, D.** Agro-urban ecosystem health analysis in Kathmandu, Nepal: a multi-scale, multi-perspective synthesis. Bridging Scales and Epistemologies: Linking Local Knowledge with Global Science in Multi-scale Assessments, Alexandria, Egypt, March 17-20, 2004.

Jones, A., Majowicz, S., Dewey, C., Dore, K., **Waltner-Toews, D.**, McEwen, S. Drinking water consumption patterns of residents in a Canadian community. Proceedings of the Graduate Student Appreciation Day, University of Guelph, Guelph, Ontario, Canada, November 28, 2003.

Charron, D.F., Thomas, M.K., **Waltner-Toews, D.**, Aramini J.J., Edge, T., Kent, R.A., Maarouf, A.R., Wilson, J. Vulnerability of waterborne disease to climate change in Canada: a review, in Hrudey, S.E. (Ed.), Drinking Water Safety: a Total Quality Management Approach. Proceedings of the International Conference on Water and Health, September 23-25, 2003, Ottawa, Ontario, Canada published at Institute for Risk Research, University of Waterloo, Waterloo, Ontario, Canada, 476 pp.

**Waltner-Toews, D.** Whose pressure is this? A systems perspective on the DSR Model. An Interdisciplinary Dialogue: Agriculture and Ecosystems Management. An Organization of Economic Co-operation and Development (OECD) Co-operative Research Workshop, Ballina, Australia, November, 2003.

Neudoerffer, R.C., **Waltner-Toews, D.** Building eco-social resilience of a rural watershed on the Canadian prairies - a climate change adaptation strategy. Presented at the Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Montreal, Quebec, Canada, October 16-18, 2003.

Neudoerffer, R.C., **Waltner-Toews, D.** Eco-social resilience, vulnerability, and climate change on the Canadian Prairies. Presented at the Annual Meeting of the Canadian Association of Geographers, AOn the Edge@, Victoria, British Columbia, Canada, May 27-31, 2003.

Neudoerffer, R.C., **Waltner-Toews, D.**, Charron, D. Eco-social resilience, vulnerability, and climate change on the Canadian Prairies. Presented at the First Annual Conference of the Graduate Students' Association, Department of Rural Development, Brandon University, Rural Canada: Issues and Insights, Brandon, Manitoba, March 28-29, 2003.

Neudoerffer, R.C., **Waltner-Toews, D.**, Kay, J.J. An ecosystem approach to health in Kathmandu II: Working with multiple system models. Presented at the annual conference of the International Society for Ecosystem Health (SEH), AHealth Ecosystems Healthy People@, Washington, D.C., U.S.A., June 6-11, 2002.

Gitau, T., McDermott, J.J., **Waltner-Toews, D.**, McDermott, B.M. Use of correspondence analysis in agroecosystem health and sustainability assessment. Proceedings of the IX International Society for Veterinary Epidemiology and Economics, Breckenridge, Colorado, U.S.A., 2000.

**Waltner-Toews, D.** The ecosystem approach: challenges to health. *In* The Ecosystem Approach: Emergent Complexity, Post-Normal Science, and the Practice of Sustainable Development, at the World Congress of Systems Sciences, Toronto, Ontario, Canada, 2000. This will be part of a peer-reviewed book, of which I am one of the editors. It was also included in the CD-ROM version of the Congress Proceedings, which all participants received.

Gitau, T., McDermott, J.J., **Waltner-Toews, D.**, Gathuma, J.M., Kang'ethe, E.K., Kimani, V.W., Kilungo, J.K., Muni, R.K., Mwangi, J.M., Otieno, G.O. Ecosystem health: principles and methods used in a high potential tropical agroecosystem. In Jabbar, MA et al (eds) Agro-ecosystems, natural resources management and human health related research in East Africa. Proceedings of an IDRC-ILRI international workshop held at ILRI, Addis Ababa, Ethiopia, 11-15 May, 1998. IDRC (Ottawa)/ ILRI (Kenya), 2000.

**Waltner-Toews, D.**, Murray, T., Kay, J.J., Gitau, T., Raez-Luna, E., McDermott, J.J. One assumption, two observations, some guiding questions, and a process for the investigation and practice of agroecosystem health. In Jabbar, MA et al (eds) Agro-ecosystems, natural resources management and human health related research in East Africa. Proceedings of an IDRC-ILRI international workshop held at ILRI, Addis Ababa, Ethiopia, 11-15 May, 1998. IDRC (Ottawa)/ ILRI (Kenya), 2000.

Murray, T., Kay, J., **Waltner-Toews, D.**, Raez-Luna, E. An adaptive methodology for ecosystem sustainability and health (AMESH): development and application in the Western Amazon Lowlands. Presented to Conservation Medicine Conference, White Oak Conservation Center, Florida, U.S.A., 1999. This is coming out as a chapter in a peer-reviewed book, Conservation Medicine, later this year.

**Waltner-Toews, D.**, Nielsen, N.O. Agroecosystem Health Management and Livestock, in Arend Nell, editor, Livestock and the Environment. International Conference (organized by the World Bank, F.A.O. and The International Agriculture Centre, International Agriculture Centre), published by the IAC, Wageningen, The Netherlands, pp 224-231, 1998.

**Waltner-Toews, D.**, Nielsen, N.O. Livestock and the Environment. International Conference organized by the World Bank, F.A.O., and The International Agriculture Centre, International Agriculture Centre, Wageningen, The Netherlands, 1998.



**Waltner-Toews, D.** Agro-ecosystem health: Concept and Principles. In Agroecosystem Health. Proceedings of a Seminar held in Wageningen on September 26<sup>th</sup>, 1996 at National Council for Agricultural Research, Wageningen, Den Haag, The Netherlands, 1997.

Faye, B., **Waltner-Toews, D.**, McDermott, J. From Ecopathology to Agroecosystem Health. Plenary Session address to the VIIIth International Symposium of Veterinary Epidemiology and Economics, Paris, France. Epidemiol. Sante animal 31-32 XVII-XXI, 1997.

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Nasinyama, G.W., McEwen, S.A., **Waltner-Toews, D.**, Gyles, C.L., Wilson, J., Opuda-Asibo, J., Poppe, C. Factors associated with occurrence of Salmonella in broiler and layer flocks of chickens in Kampala District, Uganda. VIIIth International Symposium of Veterinary Epidemiology and Economics, Paris, France. Epidemiol. Sante Animal 31-32: 04.24.1-3, 1997.

**Waltner-Toews, D.** Agroecosystem Health: a Canadian experience in understanding complexity in agricultural sustainability. In T. Murray, ed., Proceedings of the First Internal Workshop. CIAT, Cali, Colombia, Working Document No. 166., 1997.

**Waltner-Toews, D.** Complex systems tutorial, In T. Murray and G. Gallopin, eds., Proceedings of the First International Workshop. CIAT, Cali, Colombia, Working Document No. 167, 1997.

Gallopin, G., Kay, J., **Waltner-Toews, D.**, Raez-Luna, E., Murray, T. Agroecosystem development in Ucayali, Peruvian Amazon. A catastrophe theory representation. In T. Murray and G. Gallopin, eds., Proceedings of the First International Workshop, CIAT, Cali, Colombia, Working Document No. 167, 1997.

**Waltner-Toews, D.** Ecosystem Health: A framework for implementing sustainability in agriculture. Proceedings of an International Workshop, Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, Canada, 1994.

**Waltner-Toews, D.** Ecosystem Health Care. Proceedings of an International Workshop, Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, Canada, 1994.

**Waltner-Toews, D.** Agroecosystem Health Care. Proceedings of the International Development Research Center, Ottawa, Ontario, Canada, 1994.

**Waltner-Toews, D.** Eggheads on a chicken farm. Proceedings of an International Workshop, Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, Canada, 1994.

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**Waltner-Toews, D.**, Bernardo, T. Record-keeping systems for small-to-medium scale livestock enterprises. Proceedings of the International Seminar on Livestock Services for Smallholders, Yogyakarta, Indonesia, pp 51-53, 1992.

**Waltner-Toews, D.** What is a healthy farm? Proceedings of the International Seminar on Livestock Services for Smallholders, Yogyakarta, Indonesia, pp 199-200, 1992.

**Waltner-Toews, D.**, Bernardo, T.M., Stemshorn, B.W. The Caribbean Animal and Plant Health Information network (CARAPHIN): Animal Health. 6<sup>th</sup> International Society of Veterinary Epidemiology and Economics, Ottawa, Ontario, Canada, 1991.

Payne, R.C., **Waltner-Toews, D.**, Djauhari, D., Khadjadotun A. Determination of the causes of death and ill health, with particular reference to trypanosomiasis and anaplasmosis in buffaloes imported into Indonesia from Australia. Proceedings of the Standing Committee on Agriculture Workshop on Livestock Export Research, Melbourne, Australia, 1989.

**Waltner-Toews, D.** Herd effects in trials of animal biologics. Canadian Veterinary Medical Association, Saskatoon, Saskatchewan, Canada, 1988.

**Waltner-Toews, D.** Caught in the causal web: analytical problems in the epidemiology of zoonoses. Fifth International Symposium Veterinary Epidemiology and Economics, Copenhagen, Denmark, 1988.

**Waltner-Toews, D.** Epidemiology transfer from rich areas of the world to poor areas. Fifth International Symposium on Veterinary Epidemiology and Economics, Copenhagen, Denmark, 1988.

Baker, T.F., McEwen, S.A., Prescott, J.F., Meek, A. H., **Waltner-Toews, D.** The prevalence of leptospirosis and its association with multifocal interstitial nephritis in swine at slaughter. Fifth International Symposium on Veterinary Epidemiology and Economics, Copenhagen, Denmark, 1988.

**Waltner-Toews, D.**, Martin, S.W., Meek, A.H. The ecological fallacy: a problem in interpreting survey data. Fourth International Symposium on Veterinary Epidemiology and Economics, Singapore, pp. 403-404, 1985.

**Waltner-Toews, D.**, Martin, S.W., Meek, A.H. Estimating disease prevalence using a test with no false positives. Fourth International Symposium on Veterinary Epidemiology and Economics, Singapore, pp 414-415, 1985.

**Waltner-Toews, D.** Developing workable calf management programs. American Association of Bovine Practitioners 16<sup>th</sup> Annual Conference, Oklahoma City, Oklahoma, U.S.A., 1983.

**Waltner-Toews, D.**, Martin, S.W., Meek, A.H., McMillan, I., Crouch, C.F. A field trial to test the efficacy of a combined rotavirus/coronavirus/E. Coli vaccine in dairy cattle. Fourth International Symposium on Neonatal Diarrhea, Saskatoon, Saskatchewan, Canada, pp 456-483, 1983.

**Waltner-Toews, D.** Questionnaire design and administration. Third International Symposium on Veterinary Epidemiology and Economics, Arlington, Virginia, U.S.A., pp 31-37, 1982.

### **Technical Reports**

One Health for One World: a compendium of case studies. Prepared for the Public Health Agency of Canada and published on line at [www.vwb-vsfc.ca](http://www.vwb-vsfc.ca)

Charron, D., **Waltner-Toews, D.**, Maarouf, A., Stalker, M. A synopsis of known and potential diseases and parasites of humans and animals associated with climate change in Ontario. In S. Greitenhagen and T.L. Noland (comps.). A synopsis of known and potential diseases associated with climate change. Ontario Ministry of Natural Resources, Ontario For. Research Institute, Sault Ste. Marie, Ontario, Ontario For. Research Information Paper No. 154,200 pp, 2003.

**Waltner-Toews, D.**, Kay, J., Neudoerffer, C. Complex reality, just participation, and healthy sustainability. Final report of UNDP International Workshop of the APPI Trust Fund AFighting urban poverty@, York University, Toronto, Ontario, Canada, April 18-19, 2002.

Duncan, K., Guidotti, T., Cheng, W., Naidoo, K., Gibson, G., Kalkstein, L., Sheridan, S., **Waltner-Toews, D.**, MacEachen, S., Last, J. Canada Country Study: Climate impacts and adaptation - Health Sector. In: Environment Canada, Global Climate Change, Volume VII, National Sectoral Volume. The Canada Country Study: Climate Impacts and Adaptation. [Http://www.ec.gc.ca/climate/ccs/volume&\\_chapters.htm](http://www.ec.gc.ca/climate/ccs/volume&_chapters.htm), October, 1999.

**Waltner-Toews, D.** Integrated conceptual framework for tropical agroecosystems research based on complex systems theories. Final Report to IDRC, 1999.

**Waltner-Toews, D.** Health, biodiversity and natural resource use in the Western Amazon lowlands: an integrated agroecosystem approach. Annual technical report,1999.

**Waltner-Toews, D.**, Briceño-León, R., Fernandes, O. An Ecosystem Approach to Health: Guidelines to Re-Assess Tropical Disease Research Projects. Prepared for an international workshop on ecosystem approaches to communicable and emerging diseases, 1999, Rio de Janeiro. Posted on IDRC-Montevideo web-site ([www.idrc.ca/lacro/docs/conferencias/](http://www.idrc.ca/lacro/docs/conferencias/)).

Menzies, P.I., **Waltner-Toews, D.**, Buckrell, B., Walton, J., Physick-Sheard, P.W., Castellan, D., Campbell, J. Sheep health and productivity herd study. Final report to OMAF, 1991.

**Waltner-Toews, D.**, McEwen, S.A. Chemical contaminants in foods of animal origin: a review. Chapters on risk assessment, industrial chemicals, agricultural chemicals, antibacterials, and hormones, submitted to OMAF, 314 pp, 1991.

**Waltner-Toews, D.** Food, Sex, and Salmonella: The risks of environmental intimacy. Invited editorial for Canadian Journal of Public Health, 1991.

Thorsen, J., **Waltner-Toews, D.**, McGregor, B., (University of Guelph); Applewhaite, L., (Guyanese Ministry of Agriculture); Durant, N., (CARISOM Secretariat); Alexander, F.C., Munoz, H., Buckmire, G., Estefanell, G. (IICA). Improvement of animal food supply in Caribbean: feasibility project proposal. Inter-American Institute for Cooperation in Agriculture (IICA), 1987.

### **Papers Read at Scientific Conferences**

January 10-19, 2010. Participant and workshop co-coordinator at the conference of the Asian Partnership for Emerging Infections Research, Kunming, China.

June 15, 2010. Main speaker on panel organized by Nick Previsich, Senior Advisor and Manager, One World One Health, the Public Health Agency of Canada, at the Centenary of the Canadian Public Health Association conference, Toronto. The panel was “Into the Future: Zoonotic Diseases and the Health of Canadians”; my talk was title “7 Signs of Public Ill-Health: 3 Remedies”. The official respondents to my talk were Harvey Artsob, who just retired from the national laboratory in Winnipeg and Margot Parkes, CRC in Health, Ecosystems and Society at UNBC.

I also chaired part of a post-CPHA forum on “Ecohealth in Canada: Actions to link public health, ecosystem sustainability and social equity”, which had attendance from government (including Dr. David Butler-Jones), research agencies (at least one CIHR Research program Director), International Development Research Centre, and universities.

July 21, 2010. Plenary speaker at the International Society for Systems Sciences annual conference. Waterloo, Ontario. “Surfing the Pandemic Wave: Poise, Passion and Insoluble Problems.”

January 16, 2009. Invited speaker at a workshop on “Scientific needs and the research agenda for the health risks of climate change” organized by the Institute of Medicine (National Academy of Sciences) Roundtable on Environmental Health Sciences, Research and Medicine, Washington, DC.

March 3, 2009. “Helen Battle Lecture”, University of Western Ontario, Department of Biology. Global Environmental Change meets One Health: EcoHealth to the Rescue?"

May 26, 2009. Plenary presentation on foodborne diseases to the joint conference of the

Canadian Society for Epidemiology and Biostatistics/Association of Public Health  
Epidemiologists in Ontario Scientific Meeting in Ottawa.

June 3, 2009. Speaker at the Summit of Canadian Veterinary Leaders in Montreal on “Health without Borders: One Health, Ecohealth and Veterinarians”

October 1, 2008. Invited speaker (by the Executive Director of the Canadian Foundation for Climate and Atmospheric Sciences) on Global Change and Human Health at the International Group of Funding Agencies for Global Change Research (an international cooperative organization of national research funding organizations). Mexico City.

December 2008. International Association for Ecology and Health global forum, Merida, Mexico. I was on several panels and gave one formal oral presentation on “Ecosystem Sustainability and the Water-Health Nexus: A New Methodology”  
Continuing Education, Extension, etc.

October 31 – Nov 2, 2008. Invited speaker/ participant in a philosophy of science workshop, "From Exemplarity to Probability: Early Modernity in a New Light". Oslo, Norway.

Nov 9, 2008. Plenary speaker (on listeria). Food Secure Canada National Assembly.

Jan 23, 2009. Participant in “Food E-Summit” on food safety and food production, organized by Guelph Member of Parliament Frank Valeriote.

June 26-27, 2009. Invited speaker to a special workshop “Post Normal Science – perspectives & prospectives” in honour of the 80<sup>th</sup> birthday of internationally renown philosopher of science Jerome Ravetz, in Oxford, England.

Nov 15, 2009. Keynote address (on foodborne diseases): Ontario Association of Naturopathic Doctors.

Keynote address (on foodborne diseases). Canadian Association for Physical Anthropology.

January 30, 2010. Presentation to session on volunteerism at the Ontario Veterinary Medical Association conference, Toronto.

January 28, 2010. Panel Participant: “Talking turkeys: marketing boards and the freedom to farm progressively”, at the

Feb 25, 2010. Invited lecture to Foresight for Canadian Animal Health (Fore-CAN, Ontario branch, hosted by OMAFRA, on “One Health”.

May 10, 2010. “Riding the wave: living with contradictions”. Presentation to “Changing Cultures: Veterinary Medicine and Literature”, Ontario Veterinary College.

May 11, 2010. Invited Lecture to Foresight for Canadian Animal Health (Fore-CAN). The project is funded by National Defence in response to concerns about potential bio-terrorism threats. I was asked to speak on “What keeps me awake at night”.

January 30, 2010. Presentation on Veterinarians without Borders/ Vétérinaires sans Frontières to the OVMA annual conference.

April 6, 2010. Talk to high school kids in Toronto as part of “The Biotechnology Initiative Lectures on Bioscience Education Canada. “Between Parasites and Planets: Science in the Muggled Middle”.

March 16-17, 2010. Invited participant to a seminar on developing integrated livestock, wildlife and human health policies at Chatham House, a leading policy research institute in the UK (there were representatives from OIE, WHO, ILRI, United Nations). I was the only Canadian academic invited.

May 2, and May 3. Yukon Science Institute. Two public lectures – in Whitehorse and Watson Lake, on Ecosystem approaches to health..

Extension communications published in non-refereed journals/magazines

Waltner-Toews, D. and Waltner-Toews. M. 2010. The Ecosystem Approach, Health, and Biodiversity Conservation. MEDSOS (a Greek and English magazine serving the Mediterranean region)

**Interviews given for the popular press (i.e. radio, TV, newspapers, magazines)**

Many television and radio interviews & consultations on food safety, waterborne diseases, environmental issues, including two interviews on CBC TV’s “The Hour,” with George, on zoonotic diseases and on H1N1 vaccination.

I have been “on call” for many CBC and other radio and television researchers doing background work on both radio & TV programs for public health issues related to food, water and the environment.

**EXTERNAL RESEARCH FUNDING 1987 to 2004 (Details)**

YEA R	SOURCE	TYP E	AMOUNT	PROJECT	PRINCIPAL INVESTIGAT OR
2004	Pet Trust	O	\$12,000.00	Health risks with dogs visiting Ontario hospitals	D. Waltner- Toews

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
2004	Dare Foods	O	\$94,000.00	Mapping ecological and social diversity in the Peruvian amazon	D. Waltner-Toews
2004	Pan American Health Organization	O	\$16,750.00 (USD)	Study of ciguatera fish poisoning in Cuba	D. Waltner-Toews
2004	Pan American Health Organization	O	\$12,195.00	Surveillance: enteric and emergent diseases, Cuba (a workshop)	D. Waltner-Toews
2003	Climate Change Action Fund	G	\$223,244.00	The impacts of climate change on the spread of Lyme Disease in Canada	D. Waltner-Toews* Dominique Charron
2002	Health Policy Research program, Health Canada	G	\$274,800.00	Impacts of global climate change on waterborne diseases in Canada	D. Waltner-Toews* D. Charron
2002	Ontario Ministry of Natural Resources/ARIO	G	\$30,000.00	A synopsis of known and potential diseases and parasites of animals and people associated with climate change in Ontario	D. Waltner-Toews* D. Charron*
2000-2001	Bull Fellowship, O.V.C.	O	\$8,800.00	Research trip in Central America	D. Waltner-Toews
2000-2001	IDRC/AVC C	G	\$4,000.00	Canada-Latin America and the Caribbean Research Exchange Grants	D. Waltner-Toews

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
2000-2003	IDRC/ Research Uganda	O	\$150,000.00	Links between sleeping sickness and natural endowments and use: what can communities do?	John McDermott, ILRI* D. Waltner-Toews & B. Smit are Guelph collaborators
2000-2001	Social Sciences and Humanities Research Council	G	\$10,000.00	A workshop on The Ecosystem Approach at the World Congress of Systems Sciences	D. Waltner-Toews
1999	Astra Pharma Inc.	O	\$2,330.00	Evaluation of the impact of Ontario's emergency health services ASymptom relief drug program@ on hospital utilization	D. Waltner-Toews
1998-2001	IDRC	O	\$45,200.00	Urban Ecosystem Health (Kathmandu, Nepal)	D. Waltner-Toews* Partners: National Zoonoses and Food Hygiene Research Centre; Social Action for Grassroots Unity and Networking
1997-2000	IDRC/ Research Kenya	O	\$89,200.00	Design and implementation of a program to assess the health of an intensively farmed highland agroecosystem in Kenya	J. McDermott* D. Waltner-Toews Partner: University of Nairobi



YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
1997-1999	Centro Internacional de Agricultura Tropical	O	\$24,000.00 USD	A case study of agroecosystem health in Honduras	D. Waltner-Toews* S. Humphries
1996-1999	CIDA/ Research Peru	G	\$150,000.00	Development and application of an integrated conceptual framework to tropical agroecosystems based on complex system theories	D. Waltner-Toews* Partners: Centro Internacional de Agricultura Tropical (CIAT-Colombia)
1993-1996	TriCouncil Research	C	\$1,350,000.00	Agroecosystem health: analysis and assessment	D. Waltner-Toews*
1993-1996	Pet Trust	O	\$ 5,000.00	The effects of pet ownership on health and health care costs in people over 65	D. Waltner-Toews* B. Bonnett P. Raina
1993-1996	University of Guelph Pet Trust	G	\$ 5,000.00	Produce a book for lay people in Animal-Assisted Therapy	D. Waltner-Toews* A. Ellis
1992-1996	IDRC/ Research Nepal	O	\$150,000.00	Urban echinococcosis in health transition (Nepal)	D. Waltner-Toews*
1992	Waltham Centre for Pet Nutrition	O	\$77,036.00	The effects of pet ownership on health and health care costs in people over 65	D. Waltner-Toews* B. Bonnett P. Raina

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
1992	Ontario Pesticide Advisory Council	O	\$16,200.00	Household pesticide use in the City of Guelph - a survey	D. Waltner-Toews*
1992	University of Guelph Pet Trust	G	\$5,000.00	The effects of pet ownership on health and health care costs in people over 65	D. Walter-Toews* B. Bonnett
1992	Tri-Council (SSHRC/MRC/NSERC) Eco-Research Fund	G	\$ 20,000.00	Project Development Grant	D. Waltner-Toews* D. Rapport B. Smit
1991	Ontario Veterinary College	G		Study of Q Fever in OVC students	D. Waltner-Toews
1990	University of Guelph Pet Trust	G		Zoonoses in Animal Assisted Therapy Programs	D. Waltner-Toews
1990	OMAF	G			D. Waltner-Toews* P. Menzies
1990	OMAF	G		Risk assessment of chemical residues in foods of animal origin	D. Waltner-Toews* S. McEwen
1990	University of Guelph Discretionary Fund	G			D. Waltner-Toews

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
1989	Department of Population Medicine Discretionary Fund	G		Selenium on Ontario sheep farms	D. Waltner-Toews* J. Lumsden P. Menzies B. Buckrell P. Physick-Sheard J. Walton
1989	Ontario Cattlemen's Association	O		Welfare issues in veal operations	A. Luescher* D. Waltner-Toews P. Menzies
1989	Coopers Agropharm Inc.	O		Clinical trial	A. Hoffman* D. Waltner-Toews J. Prescott H. Staempfli L. Viel
1988	Agriculture Canada	G		Creation of Plant and Animal health Monitoring System in Caribbean. Ongoing supervision of Caribbean Plant and animal Health Information network (CARAPHIN). Provision of Advice, Development, and Planning of Training Courses, etc. Administrative and co-ordinating function	D. Waltner-Toews
1988	CIDA	O		Negotiation of institutional links with veterinary schools in Costa Rica and Columbia	D. Waltner-Toews

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
1988	Research Enhancement Fund	O		Toxoplasmosis on Ontario sheep farms	D. Waltner-Toews* R. Mondesire P. Menzies
1988	OMAF/ University of Guelph	G		Investigation of and report on possible exchanges program between University of Guelph, OMAF, and Royal Agriculture and Veterinary University, Copenhagen	D. Waltner-Toews
1987	OMAF Red Met Program	G			P. Menzies* P. Physick-Sheard B. Buckrell J. Walton D. Waltner-Toews
1987	OMAF Agriculture and Food Research Fund	G			C. Gyles* D. Waltner-Toews R.C. Clarke J. Lam S. McEwen
1987	University of Guelph New Initiatives	G		Exploration of sites for field semester for Graduate Diploma	D. Waltner-Toews* J. Thorsen

YEAR	SOURCE	TYPE	AMOUNT	PROJECT	PRINCIPAL INVESTIGATOR
1987	University of Guelph	G		Improvement of Animal Food Supply in the Caribbean: Feasibility project proposal: Improvement of the animal food supply in the Caribbean, Inter-American Institute for Cooperation in Agriculture (IICA), Georgetown, Guyana	D. Waltner-Toews* J. Thorsen B. McGregor L. Applewhaite N. Durant F.C. Alexander H. Munoz G.. Buckmire G. Estefanell

\* Principal Investigator

Type: C-Granting Councils; G-Government; F-Foundations; O-Other

**NOTE:** Except for the IDRC/Uganda and the CIDA/Peru projects , which are shared budgets, for the research amounts I only include money that came directly through Guelph. The total amount of the research is anywhere from 3 to 5 times higher. Also I have only mentioned the Guelph investigators. All projects have co-principal collaborators in other countries with separate budgets.