

CURRICULUM VITAE

DAVID ROY CLEMENTS

Professor of Biology

Co-chair, Department of Geography and Environment

Trinity Western University

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Citizenship: Canada and US

EDUCATION

PhD, Queen's University, Kingston, ON, Canada, 1991

Subject: Integrated pest management in apple orchards

BSc, University of Western Ontario, London, ON, Canada, 1986

Specialization: Ecology and Evolution; B.Sc. thesis subject: Weed ecology

EMPLOYMENT

Academic

Professor of Biology and Environmental Studies, Trinity Western University, Langley, B.C., Canada, 1994-present.

Co-chair, Department of Geography and Environment

Teach courses in plant biology and ecology

Promoted to full professor in 2006

Faculty Associate, Forest Science Department, University of British Columbia

RESEARCH INTERESTS

Restoration ecology, plant ecology, weed science, invasive species ecology, agroecology, allelopathy, seed bank biology, watershed ecology, environmental ethics

SCHOLARLY, PROFESSIONAL, AND SERVICE ACTIVITIES

Graduate Examination Activities

External examiner, two MSc candidates, Thompson Rivers University

Thesis/Major Project/Major Essay Supervisions

PhD supervisory committee, Faculty of Forestry, University of British Columbia

Two PhD committees, Faculty of Land and Food, University of British Columbia

Four M.Sc. supervisory committees, Faculty of Land and Food, University of British Columbia

MSc supervisor, Royal Roads University

Supervision, graduate students, University of Guelph, 1991-1994

NSERC USRA Research Supervisions

Transport, germination, and performance of hybrid knotweed seeds. Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada (NSERC), Summer 2019

Effects of red/far-red light ratio on hybrid knotweed seed germination and seedling growth. Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada (NSERC), Spring 2019

Critical habitat parameters for the northern red-legged frog in southwestern British Columbia, Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada (NSERC), Spring 2015

Fish population biology and ecophysiology in a freshwater lake invaded by cetrarchids, Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada (NSERC), Summer 2014

Evolution and ecology of purple loosestrife, Undergraduate Student Research Award, Natural Sciences and Engineering Research Council of Canada (NSERC), Summer 2009

Editorial Activities

Member, Scientific Journals Committee, Agricultural Institute of Canada, 2008-2010

Board of Editors, Pacific Science, 2007-present

Editorial board, Weed Research, 2007-present

Associate Editor with responsibility for the Biology of Canadian Weeds Series, Canadian Journal of Plant Science, 2004-2009

Editorial Board, Journal of Crop Improvement, 2001-2010

Research Collaborations and Partnerships

Sabbatical (2018) focused on research on *Mikania micrantha* genetics with the Graham Center for Agricultural Innovation and Charles Sturt University, Wagga Wagga, Australia in collaboration with Dr. Leslie Weston and supported by an Australian Endeavour Research Fellowship

Academic exchange with Yunnan Academy of Agricultural Sciences (China): Oct. 2010, Oct. 2011, Aug. 2012, Aug. 2014, Aug. 2015, Aug. 2016, June 2017. Seven 1 week trips as part of an international advisory group studying the invasive plant *Mikania micrantha* infesting crops and natural systems.

Sabbatical (2009-2010) focused on research in grassland systems on Salt Spring Island, BC and Whidbey Island, WA

Sabbatical (2000-2001) with Dr. C.J. Swanton at the Dept. of Plant Agriculture, University of Guelph, Guelph, ON and also with Dr. P.B. Cavers in the Dept. of Biology, University of Western Ontario, London, ON

Research associate (1991-1994) with Dr. C.J. Swanton, Dept, of Crop Science, University of Guelph. Conducted a variety of research efforts on various ecological approaches to integrated weed management. Assisted with a graduate course in plant ecology.

Consulting

Garry oak restoration guide for the Garry oak ecosystems recovery team (GOERT, 2010) [\$6857 contract for editorial team, David R. Clements and Tracey Hooper]
2nd contract: \$2600 contract for editorial team, David R. Clements and Tracey Hooper] to complete the guide

SERDP (Strategic Environmental Research and Development Program, U.S. DoD) reviewer in 2013 [\$300 U.S. contract]

Assessments for Alberta Biodiversity Monitoring Institute

- Invasive Species Risk Assessment for *Ulex europaeus* in 2014 [\$300 contract]

Publications for CABI in 2009-2013 (Centre for Agricultural Bioscience International)

- Invasive Plant Species ISC datasheet for *Mikania scandens* [\$450 U.S. contract]
- Invasive Plant Species ISC datasheet for *Rumex acetosella* [\$500 U.S. contract]
- Invasive Plant Species ISC datasheet for *Rubus argutus* [\$450 U.S. contract]
- Invasive Plant Species ISC datasheet for *Passiflora suberosa* [\$450 U.S. contract]
- Invasive Plant Species ISC datasheet (supplement) for *Cinchona pubescens* [\$200 U.S. contract]
- Invasive Plant Species ISC datasheet (full review) for *Sida acuta* [\$350 U.S. contract]
- Invasive Plant Species ISC datasheet for *Typha latifolia* [\$450 U.S. contract]

Committee Memberships

Trinity Western University

Undergraduate Academic Council
Ecological Stewardship Committee

Event Participation

Local arrangements co-chair: Canadian Weed Science Society annual meeting, Kelowna, BC, 2019

Local arrangements committee: Canadian Weed Science Society annual meeting, Vancouver, BC, 2014.

Program chair: Canadian Weed Science Society meeting, Victoria, BC, 2006

Local arrangements chair: American Scientific Affiliation meeting, Trinity Western University, Langley, BC, 2004.

Chair 2nd Canadian conference for Christian environmental professionals, Trinity Western University, Langley, BC. Co-chairs John R. Wood (The King's University College) and Bruce Shelvey (TWU), 2000.

Memberships in Scholarly/Research and Professional Societies

A Rocha Canada-Christians in Conservation. Founding board member, 1996-2011

A Rocha Canada-Christians in Conservation. Science Advisory board member, 2010-present

American Scientific Affiliation/ Canadian Christian and Scientific Affiliation. Member.

Canadian Weed Science Society. Past-President; chair of Biology of Weeds committee, four years with the Awards committee; chair of Biology and Ecology section, 2015-2018

Weed Science Society of America. Endowment Committee, 2013-2017, Early Career Scientists Award Committee, 2017-2021

The Northwest Scientific Association

Soil and Water Conservation Society. Treasurer, BC chapter, 2004-2013.

Invasive Species Council of BC. Member, research and development committee, planning committee member for 2017 Research meeting in Kamloops, BC

Plant Canada, board member, 2011-2020

Research committee, Garry Oak Ecosystems Recovery Team

Stakeholders group, Derek Double Day Arboretum, 2008-2012

Langley Field Naturalists, 2010-2011. Board member.

Langley Environmental Partners Society. Board of directors 2001-2009; Chair 2008-2009.

Salmon River Enhancement Society. Board of directors, 1997-2010, 2014-2018

Awards and Honours

Australian Endeavour Research Fellowship Award, Genetics of *Mikania micrantha*. \$18,500 Australian dollars.

NSERC Discovery Development Grant, "Does ecotype variation in invasive species foster adaptation to local climates and ultimately to climate change?" \$20,000, 2017-2019.

Trinity Western University Provost's Research Grant, Trinity Western University, "Changes in age structure and diet of invasive centrarchid fish populations under management by electrofishing" \$2355, 2016-2017

Langley Environmental Hero Award nominee, Langley, BC, 2015, 2013

Pacific Salmon Foundation \$2237 Invasive Fish Removal from McMillan Lake at TWU (2014-2015)

Canadian Weed Science Society Excellence in Weed Science recipient, 2014

Environment Canada Habitat Stewardship Program \$24,584 "Garry Oak Ecosystem Restoration and Rare Species Monitoring on Salt Spring Island" (2013-2014)

Environment Canada Habitat Stewardship Program \$39,300 "Garry oak ecosystem restoration" (2011-2012)

NSERC Discovery Grant. Restoration of Garry oak ecosystems. (2009-2010). \$17,000

LEPS Stewardship Volunteer of the Year Award Recipient 2009

Invasive Alien Species Partnership Program award (administered by Environment Canada): funding a symposium - Invasive plants: inventories, strategies and action. CWSS-SCM 2006 Symposium, Victoria, B.C. and the resulting publication (2006-2008). \$39,500

Okanagan Habitat Restoration Research Contract (c/o Dr. G.G.E. Scudder's NSERC): \$6,300

Graduate scholarship awarded by NSERC (1988-1989)

Clements, D.R. 1990. The apple rust mite, *Aculus schlechtendali* (Acari: Eriophyidae): A beneficial pest. Entomological Society of Ontario, Sault Ste. Marie, Ont. abstract published in Proc. ent. Soc. Ont. 121:127-128. Won "President's Prize"

Gold Medal for top academic achievement in honors B.Sc. in Ecology and Evolution, 1986

TEACHING

Undergraduate

Trinity Western University

BIOL 212/312	Biology of Vascular Plants
BIOL 214/314	Biology of Non-Vascular Plants
BIOL 216/316	Plant Ecology
BIOL 318	Tropical Botany

BIOL 113/114 General Biology
BIOL 360 Invertebrate Zoology
BIOL 381 General Ecology
BIOL 390 Biology & Faith
BIOL 400 Directed Studies in Biology
BIOL 482 Applied Ecology
NATS 487, 490 Natural and Applied Science capstone course

ENVS 372/373 Internship coordinator
BIOL 409/410 or ENVS 409/410 Senior Thesis supervisor
IDIS 400 (interdisciplinary) mentor

Other

Au Sable Institute of Environmental Studies (Pacific Rim Campus, Whidby Island, WA)

5-week field courses:
Plant Ecology, 2002; 2004
Field Botany, 2008.

PUBLICATIONS AND OTHER SCHOLARLY OUTPUT

Books

Clements, D.R., Upadhyaya, M., Joshi, S., and Shrestha, A. 2020. Global Plant Invasions. Springer International Publishing. (accepted)

Upadhyaya, M., Clements, D.R. and Shrestha A. 2020. Persistence Strategies of Weeds. John Wiley & Sons Limited. (accepted)

Clements, D.R., Hooper, T.D., Martell, K., and Masson, C. (eds.). 2011. Restoring British Columbia's Garry Oak Ecosystems: Principles and Practices. Garry oak ecosystems recovery team. 520 pp. http://www.goert.ca/gardeners_restoration/restoration.php

Clements, D. R. and Darbyshire, S. J. eds. 2007. Invasive plants: Inventories, strategies and action. Topics in Canadian Weed Science, Volume 5. Sainte Anne de Bellevue, Québec: Canadian Weed Science Society – Société canadienne de malherbologie. 165 pp.

Clements, D.R. and Shrestha, A. (eds.). 2004. New Dimensions in Agroecology. The Haworth Press, Binghamton, NY. 553 pp.

Book Chapters

Clements DR and DiTomasso A. 2020. Climate change and the persistence of weeds. In: Upadhyaya, M., Clements, D.R. and Shrestha A. Persistence strategies of weeds. J. Wiley & Sons, Limited. *in prep.*

Clements, D.R. 2017. Invasive weed species and their effects. Pp. 65-88 in Zimdahl, R. (ed). Integrated weed management for sustainable agriculture. Burleigh Dodds Science Publishing, Cambridge, UK.

DiTommaso A., Qin Z., and Clements D.R. 2014. Identifying climate change as a factor in the establishment and persistence of invasive weeds in agricultural crops. Pages 353-370 in Ziska, L. and Dukes, J.S. Invasive Species and Global Climate Change. CAB International.

Clements D.R., DiTommaso, A., and Hyvönen, T. 2014. Ecology and management of weeds in a changing climate. Pages 13-37 in Chauhan, B.S. and Mahajan, G. Recent Advances in Weed Management. Springer, Berlin. 411 pp.

Clements, D. R. and Atwood, L. B. 2012. Protecting ecosystems from underground invasions - Seed bank dynamics in a semi-arid shrub-steppe, Pages 393-416 In: Diversity of Ecosystems, Prof. Mahamane Ali (Ed.), ISBN: 978-953-51-0572-5, InTech, Available from: <http://www.intechopen.com/books/diversity-of-ecosystems/protecting-ecosystems-from-underground-invasions-seed-bank-dynamics-in-a-semi-arid-shrub-steppe>

Clements, D.R. and Scott, L. 2011. Weed invasion of the Montane Cordillera Ecozone. In Assessment of Species Diversity in the Montane Cordillera Ecozone. Edited by G.G.E. Scudder and I.M. Smith. Royal British Columbia Museum. Pages 1-29. http://www.royalbcmuseum.bc.ca/Content_Files/Files/mce/weed_invasion.pdf

Clements, D.R. and Swanton, C.J. 2001. Agriculture: healthy, sick or left in the waiting room? Pages 125-140 in Chesworth, W., Moss, M. R. and Thomas, V. G. (eds.) Malthus and the Third Millennium. Faculty of Environmental Sciences, University of Guelph, Guelph, ON.

Thistlewood, H.M.A., D.R. Clements, and R. Harmsen. 1996. Stigmaeidae. Pages 457-470 in Lindquist, E.E., M.W. Sabelis and J. Bruin (eds) Eriophyoid Mites – Their Biology, Natural Enemies and Control. World Crop Pests Vol. 6. Elsevier, Amsterdam.

Scientific Articles

Clements, DR, Janse van Renseburg M, Janmaat A, Jones V, Oeggerli V, Strelau MG, Weston LA, Shen, S. and Zhu, X. 2019. Leaf morphology variation in Knotweed (*Reynoutria*) Species in Relation to Interspecific Hybridization. Invasive Plant Science and Management *in prep*

Shaik R, Clements DR, Burrows G, Urwin N, and Weston LA. 2020. Likely consequences of interspecific hybridisation between the invasive weeds *Citrullus lanatus* and *C. colocynthis*. Invasive Plant Science and Management *submitted*.

Xu G, Shen S, Zhang Y, Clements DR, Yang S, Li J, Dong L, Zhang F, Jin G, Gao Y. 2019. Designing cropping systems to improve the management of the invasive weed *Phalaris minor* Retz. Agronomy. 2019 9(12), 809.

Shen S, Xu G, Li D, Jin G, Liu S, Clements DR, Yang Y, Rao J, Chen A, Zhang F, Zhu X (2019) *Ipomoea batatas* (sweet potato), a promising replacement control crop for the invasive alien

plant *Ageratina adenophora* (Asteraceae) in China. *Management of Biological Invasions* 10(3): 559-572.

Shen S, Xu G, Li D, Jin G, Liu S, Clements DR, Yang Y, Rao J, Chen A, Zhang F, Zhu X, Weston LA (2019). Potential use of sweet potato (*Ipomoea batatas* (L.) Lam.) to suppress three invasive plant species in agroecosystems (*Ageratum conyzoides* L., *Bidens pilosa* L., and *Galinsoga parviflora* Cav.). *Agronomy*, 9(6), 318.

Abney CR, Balzer SW, Dueckman A, Baylis A, Clements DR. 2019. Early spring and early vanishing wetlands as harbingers of the future? The climate change trap for ephemeral-pond-breeding frogs such as the Northern Red-legged Frog (*Rana aurora*). *Northwest Science* 93(1), 52-65.

Clements DR, M D Day, V Oeggerli, S C Shen, L A Weston, G F Xu, F D Zhang & X Zhu. 2019. Site-specific management is crucial to control of a global weed, *Mikania micrantha*. *Weed Research* 59(3):155-169.

Xu G, Shen S, Zhang F, Zhang Y, Kato-Noguchi H, Clements DR. 2018. Relationship between allelopathic effects and functional traits of different allelopathic potential rice accessions at different growth stages. *Rice Science*. 25(1): 32-41.

Strelau M., Janse van Rensburg, Clements DR. 2018. Dose-response methodology for variant populations of Bohemian knotweed (*Reynoutria ×bohemica* Chrtek & Chrtková). *Can. J. Plant Sci.* 98(6): 1380-1383

Shen S, Xu G, Chen F, Clements DR, Gu X, Ji S, Zhang L, Yang H, Zhang F, Yin K, Zhang, H Li H, Wu D. 2018. Effects of *Aphidius gifuensis* release on insect community and diversity in tobacco fields of Yunnan Province, China. *Pakistan Journal of Biological Sciences* 21(6): 284-291.

Strelau, M., Clements, D.R., Webb, C., R. Prasad. 2018. The Biology of Canadian Weeds. 156. *Daphne laureola* L. *Can. J. Plant Sci.* 98(4): 947-958.

Strelau, M., Clements, D.R., Benner, J., R. Prasad. 2018. The Biology of Canadian Weeds. 157. *Hedera helix* L. and *Hedera hibernica* (G. Kirchn.) Bean *Can. J. Plant Sci.* 98(5): 1005-1022.

Shen S, Xu G., Lia D., Clements D.R., Jin G., Liu S., Yanga Y., Chen A., Zhang F., Kato-Noguchi, H. 2018. Allelopathic potential of sweet potato (*Ipomoea batatas*) germplasm resources of Yunnan Province in southwest China. *Acta Ecologica Sinica* 38(6): 444-449.

Shen S, Xu G, Clements DR, Jin G, Liu S, Yang Y, Chen A, Zhang F and Kato-Noguchi H 2018. Allelopathic effects of three sweet potato cultivars (*Ipomoea batatas*) on the invasive plant *Mikania micrantha*. *Pakistan Journal of Biological Sciences* 21(1):8-15.

Young, S.L., Clements, D.R., DiTommaso A. 2017. Climate dynamics, invader fitness, and ecosystem resistance in an invasion-factor framework. *Invasive Plant Science and Management* 10(3):215-231.

Shen S., Xu G., Li D., Clements, D.R., Jin G., Yin, X., Gao R., and Zhang, F. 2017. Occurrence and damage of invasive alien plants in Dehong Prefecture, western of Yunnan Province. *Acta Ecologica Sinica* 37(3):195-200.

Shen, S., Xu, G., Li D., Clements, D.R., Zhang, F., Jin, G., Wu, J., Wei, P., Lin, S., Xue, D., 2017. Agrobiodiversity and in situ conservation in ethnic minority communities of Xishuangbanna in Yunnan Province, Southwest China. *Journal of Ethnobiology and Ethnomedicine* 13(1):28

Linderholm A., Spencer D., Battista V., Frantz L., Barnett R., Fleischer R.C., James H.F., Duffy D., Sparks J.P., Clements D.R., Andersson L., Dobney K., Leonard J.A., Larson G. 2016. A novel *MC1R* allele for black coat colour reveals the Polynesian ancestry and hybridization patterns of Hawaiian feral pigs. *R. Soc. Open sci.* 3: 160304.
<http://dx.doi.org/10.1098/rsos.160304>

Day M.D., Clements D. R., Gile C., Shen S., Weston L.A., and Zhang, F. 2016. Biology and impacts of Pacific Island invasive species. 13. *Mikania micrantha*, mile-a-minute (Magnoliopsida: Asteraceae). *Pacific Sci.* 70(3): 257-285.

Shaik RS, Zhu X, Clements DR, Weston LA (2016) Understanding invasion history and predicting invasive niches using genetic sequencing technology in Australia: case studies from Cucurbitaceae and Boraginaceae. *Conserv Physiol* 4(1): cow030; doi:10.1093/conphys/cow030.

Shen Sh-C., Xu G.-F., Clements D.R., Jin G.-M., Yang, Y., Zhang F.-D., and Kato-Nuguchi H. 2016. Suppression of reproductive characteristics of the invasive plant *Mikania micrantha* by sweet potato competition. *BMC Ecology* 16:30 DOI 10.1186/s12898-016-0085-9

Shen S., Xu G., Clements D.R., Jin G., Zhang F., Tao D., and Xu P. 2016. Competitive and allelopathic effects of wild rice accessions (*Oryza longistaminata*) at different growth stages. *Pakistan J. Biol. Sci.* 19(2):82-88.

Clements, D.R., Larsen T., and Grenz, J. 2016. Knotweed management strategies in North America with the advent of widespread hybrid Bohemian knotweed, regional differences, and the potential for biocontrol via the psyllid *Aphalara itadori* Shinji. *Invasive Plant Sci. Manag.* 9(1):60-70.

Gillies, S., Clements, D.R. and Grenz, J. 2016. Knotweed (*Fallopia* sp.) invasion of North America utilizes hybridization, epigenetics, seed dispersal (unexpectedly) and an arsenal of physiological tactics. *Invasive Plant Sci. Manag.* 9(1):71-80.

- Gaire, R., Astley, C., Clements, D.R., Bargen, M., and Upadhyaya M.K. 2015. The Biology of Canadian Weeds – Himalayan blackberry. *Can. J. Plant Sci.* 95(3): 557-570.
- Shen, Sh-C., Xu G.-F., Clements D.R., Jin G.-M., Liu S. -F., Zhang F.-D., Yang, Y., Chen A.-D. and Kato-Noguchi H. 2015. Effects of invasive plant *Mikania micrantha* on plant community and diversity in farming systems. *Asian J. Plant Sci.* 14(1):27-33.
- Shen S., Xu G., Clements, D.R., Chen A., Zhang, F., Jin G., and Kato-Noguchi, H. 2015. Suppression of the invasive plant mile-a-minute (*Mikania micrantha*) by local crop sweet potato (*Ipomoea batatas*) by means of higher growth rate and competition for soil nutrients. *BMC Ecology* 15:1-10. DOI 10.1186/s12898-014-0033-5
- Kato-Noguchi H., Hamada N., and Clements D.R. 2015. Phytotoxicities of the invasive species *Plantago major* and non-invasive species *Plantago asiatica*. *Acta Physiologiae Plantarum* 37:60. DOI 10.1007/s11738-015-1794-y
- Shen, Sh-C., Xu G.-F., Clements D. R., Jin G.-M., Liu S.-F., Chen A.-D., Zhang F.-D., and Kato-Noguchi H. 2014. Control of invasive plant mile-a-minute (*Mikania micrantha*) with the local crop sweet potato (*Ipomoea batatas*) and applications of the herbicide bentazon. *Asian J. Plant Sci.* 13(2):59-65.
- Clements, D. R. 2013. Translocation of rare plant species to restore Garry oak ecosystems in western Canada: challenges and opportunities. *Botany* 91(5): 283-291.
- Steensma K.M.M., Clements, D.R., Wood, J.R., Van Dragt, R., and Lowe, B. 2013. Stewarding the gift of land: Christian campuses as land management models. *Perspectives on Science and Christian Faith.* 65(2): 104-115.
- Clements, D. R., and DiTommaso, A. 2012. Predicting weed invasion in Canada under climate change: evaluating evolutionary potential. *Can. J. Plant Sci.* 92: 1013-1020.
- Darbyshire, S. J., Francis, A., DiTommaso, A. and Clements, D. R. 2012. The Biology of Canadian weeds. 150. *Erechtites hieracifolius* (L.) Raf. ex DC. *Can. J. Plant Sci.* 92: 729-746.
- Stopps, G. J., White, S. N., Clements, D. R. and Upadhyaya, M. K. 2011. The Biology of Canadian weeds. 149. *Rumex acetosella* L. *Can. J. Plant Sci.* 91: 1037-1052.
- Clements, D.R. and DiTommaso, A. 2011. Climate change and weed adaptation: can evolution of invasive plants lead to greater range expansion than forecasted? *Weed Res.* 51: 227-240.
- Francis, A., Darbyshire, S.J., Clements, D. R. and DiTommaso, A. 2011. The Biology of Canadian weeds. 146. *Lapsana communis* L. *Can. J. Plant Sci.* 91: 553-569.
- Clements, D.R., Luginbill, S., Jordan, D.A., Van Dragt, R., and Pelant, R. 2011. Techniques to promote Garry oak seedling growth and survival in areas with high levels of herbivory and competition. *Northwest Sci.* 85: 172-181.

- Dennehy, C., Alverson, E.R., Anderson, H.E., Clements, D.R., Gilbert, E.R., and Kaye, T.N. 2011. Management strategies for invasive plants in Pacific Northwest prairies, savannas, and oak woodlands. *Northwest Sci.* 85: 329-351.
- Gonzales, E.K. and Clements, D.R. 2010. Plant community biomass shifts in response to mowing and fencing in invaded oak meadows with non-native grasses and abundant ungulates. *Restoration Ecology* 18: 753-761.
- DiTommaso, A., Clements, D. R., Darbyshire, S. J. and Dauer, J. T. 2009. The Biology of Canadian Weeds 143. *Apocynum cannabinum* L. *Can. J. Plant Sci.* 89: 977-992.
- Qaderi, M. M., Clements, D. R. and Cavers, P. B. 2009. The Biology of Canadian Weeds 139. *Rhamnus cathartica* L. *Can. J. Plant Sci.* 89: 169-189.
- Feenstra, K. R. and Clements, D. R. 2008. Biology and impacts of Pacific Island invasive species. 4. *Verbesina encelioides*, Golden Crownbeard (Magnoliopsida: Asteraceae). *Pacific Science* 62: 161-176.
- Clements, D. R., Feenstra, K. R., Jones, K. and Staniforth, R. 2008. The biology of invasive plants in Canada 9. *Impatiens glandulifera* Royle. *Can. J. Plant Sci.* 88: 403-417.
- Clements, D. R. and Catling, P. 2007. Invasive species issues in Canada – How can ecology help? *Can. J. Plant Sci.* 87: 989-992.
- Clements, D. R. and Darbyshire, S. J. 2007. Introduction. Pages 1-4 *in* Invasive plants: Inventories, strategies and action. *Topics in Canadian Weed Science, Volume 5.* Sainte Anne de Bellevue, Québec: Canadian Weed Science Society – Société canadienne de malherbologie. 165 pp.
- Clements, D.R., Krannitz, P.G. and Gillespie, S.M. 2007. Seed banks of invasive and native plant species in a semi-desert shrub-steppe with varying grazing histories. *Northwest Science* 81: 37- 49.
- Clements, D.R. and Daehler, C. 2007. Introducing a new series: Biology and impacts of Pacific Island Invasive Species. *Pacific Science* 61:1.
- Swanton, C.J., Booth, B.D., Chandler, K., Clements, D.R. and Shrestha, A. 2006. Management in a modified no-tillage corn–soybean–wheat rotation influences weed population and community dynamics. *Weed Science* 54:47-58.
- Murphy, S.D., Clements, D.R., Belaoussoff, S., Kevan, P.G. and Swanton, C.J. 2006. Promotion of weed species diversity and reduction of weed seedbanks with conservation tillage and crop rotation. *Weed Science* 54:69-77.

- Clements, D.R. and Corapi, W.V. 2005. Paradise lost? Setting the boundaries around invasive species. *Perspectives on Science and Christian Faith* 57:44-54.
- Shrestha, A., Clements, D.R. and Upadhyaya, M.K. 2004. Weed management in agroecosystems: Towards a holistic approach. *In: Recent Research Developments in Crop Science*, 1: 451-477. Published by Research Signpost, Trivandrum, Kerala, India.
- Clements, D.R., DiTommaso, A., Jordan, N., Booth, B., Murphy, S.D., Cardina, J., Doohan, D., Mohler, C., Swanton, C.J. 2004. Adaptability of plants invading North American Cropland. *Agriculture, Ecosystems and Environment* 104:379-398.
- Clements, D.R. and Shrestha, A. 2004. New dimensions in agroecology for developing a biological approach to crop production. *Journal of Crop Improvement* 11(1/2):1-20.
- Clements, D.R., DiTommaso, A., Darbyshire, S.J., Cavers, P.B. and Sartono, A.D. 2004. Biology of Canadian Weeds.127. *Panicum capillare* L. *Canadian Journal of Plant Science* 84: 327-341.
- Clements, D.R., Cole, D., Darbyshire, S.J., King J. and McClay, A. 2004. Biology of Canadian Weeds. 128. *Leucanthemum vulgare* Lam. *Canadian Journal of Plant Science* 84: 343-363.
- Shrestha, A. and Clements, D.R. 2003. Emerging trends in cropping systems research. *Journal of Crop Production* 8:1-14.
- Klemow, K.M., Clements, D.R., Threadgill, P.F., and Cavers, P.B. 2002. The biology of Canadian weeds 116. *Echium vulgare* L. *Canadian Journal of Plant Science* 82: 235-248.
- Swanton, C.J., Shrestha, A., Clements, D.R. and Chandler, K. 2002. Evaluation of alternative weed management systems in a no-till corn-soybean-winter wheat rotation: Crop yield and economic analysis. *Weed Science* 50: 504-511.
- Clements, D.R., Peterson, D.J. and Prasad, R. 2001. The biology of Canadian weeds. 112. *Ulex europaeus* L. *Canadian Journal of Plant Science* 81: 325-337.
- Clements, D.R., M.K. Upadhyaya, and S.J. Bos. 1999. The biology of Canadian weeds 110. *Tragopogon dubius* Scop., *Tragopogon pratensis* L., and *Tragopogon porrifolius* L.. *Canadian Journal of Plant Science* 79: 153-163.
- Swanton, C.J., S.D. Murphy, D.J. Hume and D.R. Clements. 1996. Recent improvements in the energy efficiency of agriculture: Case studies from Ontario, Canada. *Agricultural Systems* 52:399-418.
- Clements, D.R., D.L. Benoit, S.D. Murphy and C.J. Swanton. 1996. Tillage effects on weed seed return and seedbank composition. *Weed Science* 44:314-322.

Saner, M.A., D.R. Clements, M.R. Hall, D.J. Doohan, C.W. Crompton. 1995. The biology of Canadian weeds 105. *Linaria vulgaris* L. Canadian Journal of Plant Science 75:525-537.

Clements, D.R., C.J. Swanton, S.F. Weise, R. Brown, D. Hume and P. Stonehouse. 1995. Energy analysis of tillage and herbicide inputs in alternative weed management systems. Agriculture, Ecosystems and Environment 52:119-128.

Aflakpui, G.K.S., G.W. Anderson, T.J. Vyn, D.R. Clements, M.R. Hall and C.J. Swanton. 1994. Crop management systems for corn (*Zea mays* L.) following established alfalfa (*Medicago sativa* L.). Canadian Journal of Plant Science 74:255-259.

Clements, D.R., S.F. Weise and C.J. Swanton. 1994. Integrated weed management and weed species diversity. Phytoprotection 75:1-18.

Swanton, C.J., D.R. Clements and D.A. Derksen. 1993. Weed succession under conservation tillage: A hierarchical framework for research and management. Weed Technology 7:286-297.

Clements, D.R. and R. Harmsen. 1993. Prey preferences of adult and immature *Zetzellia mali* Ewing (Acari: Stigmaeidae) and *Typhlodromus caudiglans* Schuster (Acari: Phytoseiidae). Canadian Entomologist 125:967-969.

Clements, D.R. and R. Harmsen. 1992. Stigmaeid-phytoseiid interactions and the impact of the natural enemy complex on plant inhabiting mites. Experimental and Applied Acarology 14:327-341.

Li, S.Y., D.R. Clements and R. Harmsen. 1992. The impact of low dose pyrethroid applications on the spotted tentiform leafminer, *Phyllonorycter blancardella* (Lepidoptera: Gracillariidae) and its parasitoids in an apple orchard. Journal of Economic Entomology 85:192-201.

Swanton, C.J., P.B. Cavers, D.R. Clements and M.J. Moore. 1992. Biology of Canadian Weeds 101. *Helianthus tuberosus* L. Canadian Journal of Plant Science 72:1367-1382.

Clements, D.R., R. Harmsen and P.J. Clements. 1991. A mechanistic simulation to complement an empirical transition matrix model of acarine population dynamics. Ecological Modelling 59:257-277.

Clements, D.R. and R. Harmsen. 1990. Predatory behavior and prey-stage preferences of stigmaeid and phytoseiid mites and their potential compatibility in biological control. Canadian Entomologist 122: 321-328.

Clements, D.R. and P.B. Cavers. 1990. Seasonal viability patterns and the role of incomplete seed development in the life history strategy of *Linaria vulgaris*. Naturaliste canadiene. 117:189-198.

Other Publications

Clements, D.R. 2017. Seeking reconciliation one moment at a time. Clarion Journal of Spirituality and Justice
http://www.clarionjournal.com/clarion_journal_of_spirit/2017/10/seeking-reconciliation-one-moment-at-a-time-david-r-clements.html

Clements, D.R. 2011. Review of “Global Warming and the Risen Lord: Christian Discipleship and Climate Change by Jim Ball”. Perspectives on Science and Christian Faith 63:206-207.

Brown, P.D., D.A. Jordan, G. Jordan, D. Clements, K. VanderGugten, S. Steunenberg, T. Buhler, M. Ness, M. Paivinen, and D. Budi Ayu. 2011. Langley Bog Scientific Projects Report, 2008-2009. Trinity Western University Environmental Studies Research Report 012011. Trinity Western University, Langley, BC.

Clements, D.R. and Warners, D.P. 2006. “The Plants We Grow”, pages 57-62 In: Koetje, D.S. (ed) Living the Good Life on God’s Good Earth. Grand Rapids, MI: Faith Alive Christian Resources. 83 pp.

Shrestha, A., M.K. Upadhyaya, and D. Clements. 2006. Seeking solutions: Researchers shine a spotlight on alternative weed management tools. American/Western Fruit Grower. 12-14.

Upadhyaya, M.K., D. Clements and R. Cranston. 2003. Purple Loosestrife: Don’t Let This Beauty Fool You. Agri-Digest September/October, p. 25.

Cavers, P. B., Warwick, S. I. and Clements, D. R. 2003. The biology of Canadian weeds. Revised instructions and format, updated lists of accounts published and in preparation. Canadian Journal of Plant Science 83: 661-665.

Graham, P. 2003. Invasive plants of southwestern British Columbia.
<http://www.shim.bc.ca/invasivespecies/title.htm> (D.R. Clements, editor).

Invited Presentations

Clements, D.R. 2019. Will climate change hurt native organisms and help invasive species? Kanaka Education and Environmental Partnership Society AGM, Maple Ridge, BC.

Clements, D.R. 2019. Invasive plants on our doorstep: What a warmer and more extreme climate could bring to Metro Vancouver. Metro Vancouver Regional District Regional Planning Advisory Committee (RPAC) Regional Invasive Species Subcommittee, Burnaby, BC.

Clements, D.R. 2019. Invasive plants on our doorstep: What a warmer and more extreme climate could bring to British Columbia. Invasive Species council of British Columbia Annual Forum, Richmond, BC.

Clements, D.R. 2019. Knotweed hybridization, seed production and water - a bad combination? Quw’utsun (Cowichan) Heritage River Knotweed Symposium, Duncan, BC.

Clements, D.R. Shaik R., Zhu X., and L. A. Weston. 2018. What is a weed ecologist doing in a lab? – the value of molecular approaches for understanding plant invasions. Canadian Weed Science Society, Niagara Falls, ON.

Clements, D.R. 2018. Knotweed hybridization and seed production: what does it all mean? Invasive Species Council of Metro Vancouver, Burnaby, BC.

Clements, D.R. 2018. Slowing down the global weed mile-a-minute using site-specific management and genetics. HIE Seminar Series, Hawkesbury Institute for the Environment, Western Sydney University, Sydney, Australia. [invited talk]

Clements, D.R. 2017. Climate change: past, present, and future. Vancouver Parksfest, Burnaby, BC.

Clements, D.R. 2017. Ecological research and management of invasive alien plants (ecological management principles applied to *Mikania micrantha*). Training Workshop for Plant Protection Technology in South & Southeast Asia, organized by Yunnan Provincial Science and Technology Department, Yunnan Academy of Agricultural Sciences, and Agricultural Environment (YAAS) and Resources Research Institute, YAAS, Kunming, Yunnan, China. [invited talk]

Clements D.R. 2017. Climate Change, Extreme Events and Invasion. Western Society of Weed Science, Coeur d'Alene, Idaho. [invited talk]

Clements D.R. 2017. Knotweed research update. Invasive Species Council of British Columbia Forum, Richmond, BC. [invited talk].

Clements D.R. 2017. Extreme climate events and invasive plants. Invasive Species Council of British Columbia Forum, Richmond, BC. [invited “lightning talk”].

Clements D.R. 2016. Impacts of invasive plants: complex ecology, complex solutions. Symposium on Invasive Plant Control: Towards a Vegetation Management Plan for the Maplewood Conservation Area. Vancouver, BC. [invited talk]

Clements D.R.* 2015. Weeds: masters of adaptation, ready-made for climate change. North American Invasive Species Management Association, Vancouver, BC. [invited talk]

Clements, D.R.*, Abney C. and Guirr B. 2015. The story of the Blaauw Forest. South Coast Conservation Program workshop, Abbotsford, BC. [invited talk]

Clements, D.R. 2012. Translocation of rare plant species to restore Garry oak ecosystems in western Canada: challenges and opportunities. Botanical Society of America (Joint meeting with the Canadian Botanical Association), Columbus, OH. [invited talk]

Hall, L.M.*, Beckie, H.J., Simard, M-J., Nurse, R.E. and Clements, D.R. 2011. New crops with new traits: are they weedy or invasive. Plant Canada, Halifax, NS. [invited talk]

Clements, D.R. 2011. Vulnerability of plant communities in coastal British Columbia to past and future environmental change. Plant Canada, Halifax, NS. [invited talk]

Clements, D.R.* and DiTommaso, A.D. 2011. Predicting weed invasion of Canada under climate change: measuring evolutionary potential. Plant Canada, Halifax, NS. [invited talk]

Clements, D.R. 2009. Weed ecology in the antelope brush ecosystem. Pacific Regional Society of Soil Science Fall Field Trip, Oliver, BC. [invited talk]

Clements, D.R.* and Gonzales, E.K. 2008. Restoration techniques for Garry oak meadows with abundant non-native grasses and herbivores. BC Invasive Plant Council Research Forum, Richmond, BC. [invited talk]

Clements, D.R. 2008. Invasive plant research in Western Canada: University Perspective. Manitoba Invasive Species Council Forum "BREAKING DOWN BORDERS: Issues and Actions for Invasive Plant Species in Western Canada." Winnipeg, Manitoba. [invited talk]

Gonzales, E.K. and Clements, D.R.* 2007. Community response to two types of disturbance: Lessons for Garry oak ecosystem restoration. Plant Canada, Saskatoon, SK. [invited talk]

Clements, D.R.* 2004. Adaptability of cropland weeds: the genetic route across the border. Weeds Across Borders (North American Weed Management Association), Minneapolis, MN [invited talk]

Clements, D.R.* 2004. Invasive weeds of BC. BC Society of Landscape Architects, Vancouver, BC. [invited talk]

Clements, D.R.* 2003. Invasive weeds of BC. Canadian Weed Science Society, Halifax, NS. [invited talk]

Participant, "Christian environmentalism with/out Boundaries," 3-week seminar, Calvin College, Grand Rapids, MI," 2003

Clements, D.R. and Shrestha, A.* Oct., 2001. New dimensions in agroecology for developing a biological approach to crop production. Joint meeting of the Agronomy Society of America, the Soil Science Society of America and the Crop Science Society of America [invited talk]

Clements, D.R.* and R. Harmsen. 1991. Interactions within the natural enemy complex of plant inhabiting mites. Symposium on Population Dynamics of Plant Inhabiting Mites, Amsterdam, The Netherlands. [invited talk]

Guest lecturer, IDIS 400 and NATS 487, Trinity Western

Guest lecturer, University of British Columbia

Guest lecturer, University of the Fraser Valley

Presentations

(presenter(s) marked with an asterisk*)

Jones V*, Clements DR. 2019. Determining light requirements for Bohemian knotweed (*Reynoutria x bohemica*) seed germination. Canadian Weed Science Society, Kelowna, BC.

Oeggerli, V*, Clements DR. 2019. Determining shade responses of Bohemian knotweed (*Reynoutria x bohemica*) seedlings. Canadian Weed Science Society, Kelowna, BC.

Anderson, D*, Critchley R, Bae J, Clements DR. 2019. Effects of red/far-red light ratio on hybrid knotweed (*Reynoutria x bohemica*) seed germination and seedling growth. Canadian Weed Science Society, Kelowna, BC.

Goncharova M*, Brouwer J, Clements DR. 2019. The effect of water disturbance on floatation, germination and survival of hybrid knotweed (*Reynoutria x bohemica*). Canadian Weed Science Society, Kelowna, BC.

Clements DR, Abney CR*, Balzer SW, Dueckman A, Baylis A. 2018. Early spring and early vanishing wetlands as harbingers of the future? The climate change trap for ephemeral pond-breeding *Rana aurora*. Canadian Herpetological Society, Kamloops, BC.

Strelau MG, Clements DR*, Janse Van Rensburg M, Bogress MJD 2017. Potential for glyphosate resistance in Bohemian knotweed (*Fallopia x bohemica*). Canadian Weed Science Society, Saskatoon, SK.

Grenz, J.*, Robertson, R., Clements, D.R. 2017. Effects of fire and herbivore exclusion fencing on native and non-native plant populations in a Garry Oak Ecosystem on Salt Spring Island in British Columbia: A role for deer grazing in novel ecosystem management? Invasive Species Research Conference: Turning Science Into Action, Invasive Species Council of British Columbia, Kamloops, BC.

Clements, D.R. 2017. Seeking reconciliation one moment at a time. A Sacramental Approach to Ecology, conference Organized by All Saints Monastery and Hosted by TWU Department of Geography and Environment and TWU Department of Philosophy Trinity Western University, Langley, BC.

Strelau, M.*, Bogress, M., and Clements, D.R. 2017. Potential for glyphosate resistance in Bohemian knotweed (*Fallopia x bohemica*). Invasive Species Research Conference: Turning Science Into Action, Invasive Species Council of British Columbia, Kamloops, BC.

Roberts, D.*, Clements, D.R. 2017. Changes in age structure and diet of invasive centrarchid fish populations under management by electrofishing. Invasive Species Research Conference: Turning Science Into Action, Invasive Species Council of British Columbia, Kamloops, BC.

Clements, D.R.*, Marconato, J. and Gonzales, E.K. 2016. Community dynamics and management of invasive perennial grasses using mowing and prevention of grazing in Garry oak meadows over 7 years. Canadian Weed Science Society, Moncton, NB.

Hall L.*, Alexander B.C., Beckie H.J., Clements D., Nurse R.E., Simard M.-J. 2015. Persistence and invasiveness of genetically modified canola in Canada: A demographic comparison of open pollinated and hybrid canola. Canadian Weed Science Society, Edmonton, AB.

Guthrie A.*, Rumley J. and Clements D.R. 2015. Characterizing the effect of herbivory and competition on native *Camassia quamash* in Garry oak ecosystems. Murdock College Science Research Program annual meeting, Spokane, Washington. [poster]

Clements D.R.* 2015. The story of the Blaauw Eco Forest (so far). Verge Conference, Trinity Western University, Langley, BC.

Clements D.R.* and Weston L.A. 2015. Recent advances in genetic characterization of plant invasions: case studies from Cucurbitaceae and Boraginaceae. 13th International Conference: Ecology and Management of Alien Plant Invasions, Waikoloa, Hawaii.

Clements, D.R.* and Prins, R. 2014. Fire may spark weed invasion instead of restoration. Canadian Weed Science Society, Montreal, QC.

Clements, D.R. 2014. Publishing in creation with illustrations from Garry oak ecosystem restoration in the Pacific Northwest. American Scientific Affiliation annual meeting, Hamilton, ON.

Rumley, J.* and Clements, D.R. 2013. Restoration of Native *Camassia quamash* in Garry Oak Meadows. GOERT Seminar Series, Victoria, BC. http://prezi.com/zvjmuwmgld-/?utm_campaign=share&utm_medium=copy

Prins, R.* and Clements, D.R. 2013. Restoration through regrowth: Fire as a conservation catalyst of Garry oak ecosystems? GOERT Seminar Series, Victoria, BC. http://prezi.com/hdp_52nln4ql/burned-plots/

Clements, D.R. 2012. Predicting how far mile-a-minute (*Mikania micrantha* Kunth.) will invade. Canadian Weed Science Society Annual meeting, Winnipeg, Manitoba.

Alexander, B.C.*, Beckie, H.J., Clements, D.R., Nurse, R.E., Simard, M.-J., Hall, L.M. 2012. Quantifying the relative invasive potential of PNT using demographic analysis. Canadian Weed Science Society Annual meeting, Winnipeg, Manitoba.

Clements, D.R.* and Shrestha, A. 2012. High tech and human pride versus the inexorable evolution of weeds. International Eco-theological (Ecothee) Symposium, Renew it. Do it. Green the Scene! Surrey, BC.

L.M. Hall*, B. Alexander, H.J., Beckie, M.-J. Simard, R.E. Nurse, D. Clements. 2012.

Quantification of invasiveness in crops using demographic analysis. 12th International Symposium on Biosafety of Genetically Modified Organisms (ISBGMO12). St Louis, Missouri, USA (September).

Clements, D.R.* and Gile, C. 2012. Mile-a-Minute Weed (*Mikania micrantha*) Infestations in the Indo-Pacific: Can We Put the Brakes on These Invasions? Weed Science Society of America, Kona, HI.

Clements, D.R.* and Gile, C. 2011. Japanese knotweed (*Fallopia japonica* Houtt.): getting to the root of the problem. Canadian Weed Science Society, Niagara Falls, ON.

Methven, D.* and Clements, D.R. 2011. Induction of condensed tannins in Garry oak (*Quercus garryana*) foliage. Garry oak ecosystem recovery team (GOERT) Research Colloquium, Victoria, BC [11 Feb. 2011].

Clements, D.R.*, Luginbill, S., Jordan, D., Van Dragt, R. and Pelant, R. 2010. Techniques to promote Garry oak seedling survival in areas with high levels of herbivory and competition. Northwest Science Annual Meeting, Centralia, WA.

Methven, D.* and Clements, D.R. 2010. Field studies of the larval biology of Propertius duskywing (*Erynnis propertius*). Garry oak ecosystem recovery team (GOERT) Research Colloquium, Victoria, BC [4 Mar. 2010].

Clements, D.R. 2010. Pacific islands invaded by pigs, plants and people: is paradise lost? Thompson Rivers University, Environmental Science Seminar Series, Kamloops, BC. [14 Jan. 2010].

Clements, D.R.* and Steunenbergh, S. 2009. A tale of two cranberry species: native (*Vaccinium oxycoccus*) vs. non-native (*V. macrocarpon*). Canadian Weed Science Society, Charlottetown, Prince Edward Island.

Clements, D.R. 2008. Seed bank responses to restoration techniques in an invaded semi-desert plant community. Canadian Weed Science Society, Banff, AB.

Clements, D.R.* and Carlson, G. 2008. Conservation science, doing right and walking humbly: An A Rocha perspective. American Scientific Affiliation, George Fox University, Newberg, Oregon.

Clements, D.R. 2007. Long-term strategies against invasive weeds: case study from Langley, BC. Canadian Weed Science Society, Mt. Tremblant, QC.

Steensma, K.M.M.* and Clements, D.R.* 2006. A Tale of Oaks, Salmon and Snails: Land Stewardship at Trinity Western University. American Scientific Affiliation, Calvin College, Grand Rapids, Michigan.

Roberts, K.*, Koole, S. and Clements, D. 2006. Garry oak meadow restoration through Douglas-fir removal. Garry Oak Ecosystems Research Colloquium, Victoria, BC.

Newmaster, S. G.*, S. Ragupathy, C. A. Lacroix, J. Levac, D. R. Clements, B. Booth, M. Irvine, F. W. Bell, M. Cowbrough and J. Alex. 2005. Invasive Alien Plants in Ontario. Popular Summary from Eastern Canadian Vegetation Management Associations Conference. October 4-6, Kingston, Ontario.

Shelvey, B.* and D.R. Clements. 2005. Surviving in paradise: Keeping the image of the Kipahulu Valley pristine. American Society of Environmental History, Houston, TX.

Clements, D.R. 2005. Invasive species and ethical values: learning from the Hawaiian experience. Weed Science Society of America, Honolulu, HI.

Clements, D.R.* and Corapi, W. V. 2004. Paradise lost? Setting the boundaries around weeds. American Scientific Affiliation, Langley, BC. [symposium talk]

Clements, D.R.* and Corapi, W. 2002. Responsible stewardship: What about pigs? American Scientific Affiliation, Malibu, California.

Clements, D.R.* July, 2001. Stewardship of creation: what about the weeds? American Scientific Affiliation, Manhattan, Kansas.

Swanton*, C.J., Shrestha, A., Chandler, K., Clements, D.R. and Booth, B. July, 2001. Alternative weed management systems in a no-till corn-soybean-winter wheat rotation. Canadian Society of Agronomy, Guelph, ON.

Swanton*, C.J., Shrestha, A., Chandler, K., Clements, D.R. and Booth, B. February, 2001. Agronomic and ecological evaluation of weed management systems in a no-till corn-soybean-winter wheat rotation. Weed Science Society of America, Greensboro, NC. [note, my name was added after submission of the abstract but was in the title slide of the presentation]

Clements, D.R.* 2000. The war on biological invaders: Churchill's defiance or Chamberlain's complicity? Inheriting the Earth: Faith, Conflict and the Environmental Professional. 2nd in the series of Canadian conferences for Christian environmental professionals, held at Trinity Western University in Langley. I chaired the conference, along with John R. Wood (The King's University College) and Bruce Shelvey (TWU).

Clements, D.R.* , Birch, B. and Snidal, T. 2000. Invasive characteristics of Himalayan balsam, *Impatiens glandulifera*. Weed Science Society of America annual meeting, Toronto, ON.

Jack Van Dyke* and David R. Clements*. 1999. Stewardship of Creation (Awakening Biophilia to Keep the Earth). Presentation to combined meeting of Christian teachers (NWCSI-CTABC), Lynden, Washington.

David R. Clements* and Heather Robinson.* 1999. The five C's of A Rocha. Workshop at "Stewardship of Creation" at St. John's Shaughnessy, Vancouver, BC.

Michael T. Irvine*, Robert G. Wagner, David R. Clements and Clarence J. Swanton. 1998. Growth response of bareroot eastern white pine nursery stock to multi-species weed competition. 3rd International Symposium on Forest Vegetation Management, Sault Ste Marie, ON.

Clements, D.R.* 1998. Preserving the back 40 at TWU. Sensitive Habitat Inventory Mapping Workshop, 1998. Capilano College, North Vancouver, B.C.

Clements, D.R.* and P. Krannitz. 1998. Seed banks and disturbance dynamics in a dry grassland with antelope bitter-brush. Weed Science Society of America annual meeting, Chicago, Illinois

Clements, D.R.*, L. Reedyk and P. Krannitz. 1996. Weed seedbanks in the Southern Okanagan Grassland. Expert Committee on Weeds national meeting, Victoria, B.C.

Clements, D.R.* 1996. The underground world: Weeds lying in wait. Antelope-brush Ecosystem Symposium for the South Okanagan Grassland Conservation Project, Penticton, B.C.

Clements, D.R.*, C.J. Swanton and D.L. Benoit. 1994. Seed return and seedbank dynamics of common lambsquarters (*Chenopodium album* L.) in four tillage systems. Weed Science Society of America annual meeting, St. Louis, Missouri

Clements, D.R.* 1993. Integrating ecological theory into integrated weed management. Guest lecture to a graduate course at the University of Western Ontario, Dept. of Plant Sciences, London, Ontario.

Clements, D.R.* 1993. Energy analysis of alternative weed management systems. IWM seminar, Guelph Legion, Guelph, Ontario.

Clements, D.R.*, C.J. Swanton and S.F. Weise. 1993. Implications of increased weed diversity under integrated weed management. Weed Science Society of America annual meeting, Denver, Colorado

Clements, D.R.* and R. Harmsen. 1992. Foraging strategy of *Zetzellia mali* (Acari: Stigmaeidae). Entomological Society of Ontario, Kingston, Ontario.

Clements, D.R. 1990. The apple rust mite, *Aculus schlechtendali* (Acari: Eriophyoidae): A beneficial pest. Entomological Society of Ontario, Sault Ste. Marie, Ont. abstract published in Proc. ent. Soc. Ont. 121:127-128. Won "President's Prize"

Clements, D.R. 1990. Population dynamics of phytoseiid-stigmaeid (Acarina) interactions. American Arachnological Society, Ottawa, ON.

Clements, D.R.* and R. Harmsen. 1990. Predatory compatibility: An evaluation by system simulation. Entomological Society of Canada, Banff, AB.

Clements, D.R. 1990. Population implications of egg cannibalism. Ontario Ecological and Ethological Colloquium, Brock University, St. Catharines, ON.

Clements, D.R. 1989. The role of stigmatheids in the orchard acarine system. Entomological Society of Ontario, London, Ont. abstract published in Proc. ent. Soc. Ont. 120:74-75.

Clements, D.R.* and R. Harmsen. 1989. The potential efficacy of phytoseiid and stigmatheid predators in integrated control of spider mites on apple. Ontario Pesticides Advisory Committee, Toronto, ON.

Clements, D.R.* and R. Harmsen. 1988. Niche differentiation by two predatory mites. Ontario Ecological and Ethological Colloquium, U.W.O., London, ON.

Clements, D.R.* and R. Harmsen. 1988. The development of an IPM module for the control of phytophagous mites in apple orchards. Ontario Pesticides Advisory Committee, Toronto, ON.

Clements, D.R.* and P.B. Cavers. 1986. The seasonal pattern of seed viability in *Linaria vulgaris*. Ontario Ecological and Ethological Colloquium, York University, Toronto, ON.

Posters

Anderson, D.D., and Clements, D.R. 2018. Characterization of a Wetland Ecosystem in Langley, British Columbia. Murdock College Science Research Program annual meeting, Vancouver, Washington. [poster]

Clements, D.R.*, Marconato, J. and Gonzales, E.K. 2017. Community dynamics and management of invasive perennial grasses using mowing and prevention of grazing in Garry oak meadows over 7 years. Invasive Species Research Conference: Turning Science Into Action, Invasive Species Council of British Columbia, Kamloops, BC. [poster].

Marconato, J.*, Jordan, G., and Clements, D. 2017. Using surface analysis to characterize slope and aspect of *Quercus garryana* research enclosures on Salt Spring Island, BC. Western Division, Canadian Association of Geographers, University of the Fraser Valley, Abbotsford, BC [poster]

Strelau, M.*, Jordan, G., and Clements, D.R. 2017. Spatial relationships between anthropogenic trails and Daphne Laurel on Salt Spring Island, BC. Western Division, Canadian Association of Geographers, University of the Fraser Valley, Abbotsford, BC [poster]

Clements, D.R., Marconato, J.* and Gonzales, E.K. 2017. Community dynamics and management of invasive perennial grasses using mowing and prevention of grazing in Garry oak meadows over 7 years. Invasive Species Council of British Columbia Forum, Richmond, BC. [poster].

Clements, D.R., Marconato, J.* and Gonzales, E.K. 2016. Community dynamics and management of invasive perennial grasses using mowing and prevention of grazing in Garry oak meadows over 7 years. Murdock College Science Research Program annual meeting, Spokane, Washington. [poster]

Guthrie A.*, Rumley J. and Clements D.R. 2015. Characterizing the effect of herbivory and competition on native *Camasia quamash* in Garry oak ecosystems. Murdock College Science Research Program annual meeting, Spokane, Washington. [poster]

Tung, A.* and Clements, D.R. 2014. Age and size structure of invasive bass and sunfish populations sampled by electrofishing. Murdock College Science Research Program annual meeting, Vancouver, Washington. [poster]

Alexander B.*, Raatz L., Beckie H., Clements D., Nurse R., Simard M.-J., and Hall L., 2014. Quantifying the relative invasive potential of genetically modified crops using demographic analysis. Canadian Weed Science Society / Weed Science Society of America meeting, Vancouver, BC. [poster]

Alexander, B.*, Beckie, H., Clements, D., Nurse, R., Simard, M.-J., Hall, L. 2011. Validating demographic analysis as a method for predicting the invasive potential of plant species. Canadian Weed Science Society, Niagara Falls, ON. [poster]

Gile, C.* and Clements, D.R. 2011. Effects of different control methods on the rhizomes of Japanese knotweed (*Fallopia japonica* Houtt.) Invasive Plant Council of BC Research Forum, Richmond, BC. [poster]

Gile, C.* and Clements, D.R. 2011. Effects of different control methods on the rhizomes of Japanese knotweed (*Fallopia japonica* Houtt.) Murdock Undergraduate Research Conference, Seattle University, Seattle, WA. [poster]

Clements, D.R.* and Steunenber, S. 2010. Competition between native (*Vaccinium oxycoccus*) and non-native (*V. macrocarpon*) cranberries in a *Sphagnum* bog. BC Invasive Plant Council Annual Forum, Richmond, BC.[poster]

Methven, D.* and Clements, D.R. 2009. The relationship between *Propertius* duskywing larvae and the Garry Oak Ecosystem. Murdock Undergraduate Research Conference, Spokane, WA. [poster]

Clements, D.R.*, Zhou A. and Brown, P.D. 2008. Invasive plant management from cradle to grave: management of decomposition of the annual *Impatiens glandulifera*. 5th International Weed Science Congress, Vancouver, BC. [poster]

Clements, D.R. and Cavers, P.B. 2007. The biology of Canadian Weeds. Update on the series. Canadian Weed Science Society, Mt. Tremblant, QC. [poster]

Campbell, K.R. and Clements, D.R. 2006. Investigation of allelopathic phenolics exuded from roots of *Verbesina encelioides*. Canadian Weed Science Society, Victoria, BC. [poster]

Campbell, K.R.* and Clements, D.R. 2006. Investigation of allelopathic phenolics exuded from roots of *Verbesina encelioides*. Murdock Pacific Northwest conference [poster]

Clements, D.R.*, Campbell, K., Becker, A, and Bainard, J.D. 2005. Phenotypic differences between a coastal and an interior population of purple loosestrife (*Lythrum salicaria* L.) in British Columbia. Canadian Weed Science Society, Niagara Falls, ON. [poster]

Becker, A., Clements, D.R.* and Kunstar, H. 2004. Optimal timing and control treatments for Scotch broom. Canadian Weed Science Society, Winnipeg, MT. [poster]

Shriner, H. and Clements, D.R.* 2003. Seedbanks, herbivory and N dispersion for Scotch broom (*Cytisus scoparius* L.). Canadian Weed Science Society, Halifax, NS [poster]

Kunstar, H.C* and Clements, D.R. 2003. Seed banks, propagation and solarization in grassland restoration with *Sporobolus cryptandrus*. Soil and Water Conservation Society, Spokane, WA. [poster]

Clements, D.R.* 2003. Knapweed seed banks in antelope brush. Society for Ecological Restoration Meeting (BC Chapter), Osoyoos, BC. [poster]

Clements, D.R.*, Vander Woude, J., and Johnson, J.L. 2002. Weed adaptability: Coastal vs. interior purple loosestrife. Canadian Weed Science Society, Saskatoon, SK. [poster]

Clements, D.R.,* A. Carlile, K.M.M. Steensma, D. Kehler, B.G. Wernick and H. Schreier. 1997. Management of a healthy salmon stream (The Salmon River, Langley, B.C.) subject to increased urban and agricultural pressures. Soil and Water Conservation Society Annual Meeting, Toronto, ON. [poster]

Clements, D.R.*, C.J. Swanton, S.F. Weise, R. Brown, D. Hume and P. Stonehouse. 1993. Energy efficiency of alternative weed management systems. Poster at Ontario Ministry of Environment and Energy Technology Transfer Conference, Toronto, Ontario. [poster]

Media

Monthly column for the local paper called the *Green Beat*.