

JANICE M. BURKE

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EDUCATION

1988: B.Sc., Specialization in Zoology, University of Alberta, Edmonton, AB.

2000: M.Sc., Microbiology, Central Michigan University, Mount Pleasant, MI.

CURRENT PROFESSIONAL EXPERIENCE

2012–present (concurrent positions as self-employed individual)

Conference Technical Program Coordinator, Canadian Institute of Mining, Metallurgy and Petroleum (CIM) (50%)

World Mining Congress 2013; International Society for Rock Mechanics 2015; International Mineral Processing Congress 2016; Conference of Metallurgists 2017, 2019, 2020, 2021; Resources for Future Generations 2018; International Conference on Aluminum Alloys 2018; Uranium 2020

- Tailor and use four software platforms to manage abstract and paper submission and review
- Liaise with authors, conference organizers and staff, and volunteer reviewers
- Produce, edit and proofread program guides, abstract books, and proceedings
- Work on-site to ensure smooth flow in the technical program

Freelance Technical Editor and Writer (35%)

- Edit papers, proposals, books (three to date), and theses for English, technical content, and clarity
- Clients are from universities, technical institutes, and consulting firms

Editorial Coordinator, *CIM Journal* (15%)

- Liaise with authors, peer reviewers, volunteer section editors, copy editors, translators, and layout team to coordinate timely manuscript flow through peer review, from original paper submission through edit, layout, and publication
- Copy edit and proofread manuscripts

PAST PROFESSIONAL EXPERIENCE

Technical Editor, Global Mining Guidelines Group (2015–2019)

- Develop guidelines template for content and format
- Liaise with authors to write, edit, and proofread guidelines
- Work with layout team to produce published guidelines

Research Associate, Forest Watershed and Riparian Disturbance Project (2001–2012)

Faculty of Natural Resources Management, Lakehead University, Thunder Bay, ON

- Mentor and train 11 graduate students in experimental design, data analysis, and writing
- Write and edit peer-reviewed articles, grant proposals, progress reports, and abstracts
- Coordinate submission of project-related manuscripts to two special issues of a journal
- Analyze water quality and hydrology data from 30 boreal forest watersheds for a multidisciplinary NSERC- and industry-funded project
- Prepare and present research results at local, national, and international scientific meetings
- Contribute to development of field and laboratory protocols

Research Associate, Beach Sand Microbiology Project, 2001–2003

Biology Department, Central Michigan University, Mount Pleasant, MI

- Mentor and train five undergraduate and graduate students
- Collaborate with lead investigator on experimental design and results dissemination
- Supervise environmental sample collection for bacterial cultivation and DNA analysis

Graduate Assistant, Microbiology, 1997–2000

Biology Department, Central Michigan University, Mount Pleasant, MI

Course Instructor, Biology 397C, Microbiology Enrichment (Biofilms)

- Develop syllabus and course material for undergraduate course
- Prepare and present lectures, teach laboratory, write, administer and grade exams

Course and Laboratory Instructor, Biology 208, Introductory Microbiology

- Prepare and present lectures to 160 undergraduate students
- Write, administer and grade exams
- Coordinate and supervise 10 laboratory sections

Research Technologist, Limnology, 1988–1997

Department of Biological Sciences, University of Alberta, Edmonton, AB

- Mentor and train 12 graduate students in experimental design, data analysis, and writing
- Coordinate and conduct water sample collection and analysis from boreal lakes
- Supervise water quality laboratory at remote field station
- Write and edit manuscripts, proposals and reports; prepare oral and poster presentations
- Assist Associate Editor of two scientific journals

SKILLS

- Self-directed, conscientious, detail-oriented, and well organized
- Demonstrated ability to adapt to new tasks and work environments
- Demonstrated ability to work independently to manage multiple projects and meet deadlines
- Excellent written and oral communication skills
- Co-author of 36 peer-reviewed publications and 40 conference presentations
- Motivating mentor and supervisor

PUBLICATIONS

MacDonald, R., **J. Burke**, H. Chen, E. Prepas. 2012. Relationship between aboveground biomass and percent cover of ground vegetation in Canadian Boreal Plain riparian forests. *For. Sci.* 58: 47–53.

Chen, H., **J. Burke**, E. Prepas. 2011. Cyanobacterial toxins in fresh waters. Invited chapter. pp. 860–871. In J.O. Nriagu (ed.). *Encyclopedia of Environmental Health* (Vol. 1). Elsevier.

Chen, H., **J. Burke**, T. Mosindy, P. Fedorak, E. Prepas. 2009. Cyanobacteria and microcystin-LR in a complex lake system representing a range in trophic status: Lake of the Woods, Ontario, Canada. *J. Plankton Res.* 31: 993–1008.

Pelster, D., **J. Burke**, E. Prepas. 2008. Runoff and inorganic nitrogen export from Boreal Plain watersheds 6 years after wildfire and 1 year after harvest. *J. Environ. Eng. Sci.* 7: 51–61.

PUBLICATIONS (CONT'D)

- Pelster, D., **J. Burke**, K. Couling, S. Luke, B. Watson, G. Putz, D. Smith, E. Prepas. 2008. Water and nutrient inputs, outputs and storage in Canadian boreal forest wetlands: a review. *J. Environ. Eng. Sci.* 7: 35–50.
- Prepas, E., **J. Burke**, G. Putz, D. Smith. 2008. Dissolved and particulate phosphorus concentration and export patterns in headwater streams draining Boreal Plain watersheds one year after experimental forest harvest and post-harvest silvicultural activities. *J. Environ. Eng. Sci.* 7: 63–77.
- Alm, E., **J. Burke**, E. Hagan. 2006. Persistence and potential growth of the fecal indicator bacteria, *Escherichia coli*, in shoreline sand at Lake Huron. *J. Great Lakes Res.* 32: 401–405.
- *Recipient of Highly Cited Author Award, 2006–2011.**
- Prepas, E., **J. Burke**, I. Whitson, G. Putz, D. Smith. 2006. Associations between watershed characteristics, runoff and stream water quality: Hypothesis development for watershed disturbance experiments and modelling in the Forest Watershed and Riparian Disturbance (FORWARD) project. *J. Environ. Eng. Sci.* 5: 27–37.
- Burke, J.**, E. Prepas, S. Pinder. 2005. Runoff and phosphorus export patterns in large forested watersheds on the western Canadian Boreal Plain before and for 4 years after wildfire. *J. Environ. Eng. Sci.* 4: 319–325.
- Zurawell, R., H. Chen, **J. Burke**, E. Prepas. 2005. Hepatotoxic cyanobacteria: A review of the biological importance of microcystins in freshwater environments. *J. Toxicol. Environ. Health Part B* 8: 1–37.
- Alm, E., **J. Burke**, A. Spain. 2003. Fecal indicator bacteria are abundant in wet sand at freshwater beaches. *Water Res.* 37: 3978–3982.
- Putz, G., **J. Burke**, D. Smith, D. Chanasyk, E. Prepas, E. Mapfumo. 2003. Modelling the effects of boreal forest landscape management upon streamflow and water quality: Basic concepts and considerations. *J. Environ. Eng. Sci.* 2: 87–101.
- Burke, J.** 2000. Examination of the hindgut community of the aquatic crane fly larva, *Tipula abdominalis*, for the presence of methanogenic Archaea and methylotrophic Bacteria. M.S. Thesis, Department of Biology, Central Michigan University, Mount Pleasant, MI.
- I HAVE CO-AUTHORED AN ADDITIONAL 24 PEER-REVIEWED ARTICLES

REFERENCES

- Dr. Ellie Prepas, Professor Emeritus, Canada Research Chair, Natural Resources Management, Lakehead University, Thunder Bay, ON. (613) 376-6010 eleanorjonathan@yahoo.ca
- Dr. Elizabeth Alm, Professor, Biology Department and Institute for Great Lakes Research, Central Michigan University, Mount Pleasant, MI. (989) 774-2503 alm1ew@cmich.edu
- Prof. Ferri Hassani, Webster Chair Professor in Mining Engineering, Department of Mining Engineering, McGill University, Montreal, QC. (514) 398-8060 ferri.hassani@mcgill.ca
- Ms. Brigitte Farah, Managing Director, The Metallurgy and Materials Society of the Canadian Institute of Mining, Metallurgy and Petroleum, Montreal, QC. (514) 939-2710 bfarah@cim.org