**Papers Presented**

511 McBean, E., “Challenges of Resilience of Coastal Cities to Climate Change”, Plenary presentation, Resilience of Groundwater Resources for Accommodating Changing Climate Scenarios, Delhi, India, 2020 (delayed)

510 Kaur, B., Szentimrey, Z., Binns, A., McBean, E., and Gharabaghi, B., “Urban Flood Susceptibility Mapping Using Supervised Regression and Machine Learning Models in Toronto, Canada”, presented at American Geophysical Union meeting, San Francisco, Dec. 2020.

509 Taraky, Y., Gharabaghi, B., McBean, E., Liu, Y., Daggupati, P., Shrestha, H., “Identification of Opportunities for International Cooperation over Proposed Series of Large Freshwater Reservoirs to Capture the Melting Glaciers in the Hendu Kush Mountains”, presented at American Geophysical Union Fall Meeting, San Francisco, Dec 2020.

508 McBean, E., “Climate Change and Population Growth – The Foreboding Implications to Coastal Cities”, Keynote Presentation, EESD 2020 (5th International Conference on Environmental Engineering and Sustainable Development), Beijing Normal University, Beijing China, Dec 4-5, 2020.

507 Gao, J., Chen, H., Huang, J., McBean, E., “Partition of Daily Evapotranspiration Using an Isotope Method and a Two-source Model for Urban Forest Area, presented at AOGS 17th Annual Meeting, Sono Belle Vivaldi Park, Hongcheon, Jun28 to Jul 4, 2020.

506 Lan, Z., Chen, H., Huang, J., McBean, E., “Applying Stable Isotopes to Determine Root Water Uptake Patterns in an Urban Locust Tree Forest”, presented at AOGS 17th Annual Meeting, Sono Belle Vivaldi Park, Hongcheon, Jun 28 to Jul 4, 2020

505 Li, Y., Sun, Y., Huang, J. J., and McBean, E.: Retrieval of Water Quality Parameters in

Lake Ontario Based on Hyperspectral Remote Sensing Data and Intelligent Algorithms, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-1869, https://doi.org/10.5194/egusphereegu2020-1869, 2019

504 Sun, Y., Li, Y., Huang, G., and McBean, E., “Prediction of Chlorophyll and Phosphorus Levels in Lake Ontario using Ensemble Neural Network Models”, presented at European Geophysical Union, Vienna, Austria, March 2020.

503 McBean, E., “Challenges of Dealing with Subsidence and Urban Water Demands,“ Keynote presentation at III Indian National Conference (INGWC 2020) and International Workshop on Groundwater Modeling, Kerala, India, Feb 17-20, 2020.

502 McBean, E., “Smart Water: From Data to Artificial Intelligence”, Keynote presentation at Second International Forum on Green Development and Engineering Innovation, Tianjin Nov 22 to 24, 2019.

501 Gharabaghi, S., Marshall, R., Desjardine, M., Levison, J., and McBean, E., “Towards Effective First Nations’ Source Water Protection: a Technical and Indigenous Knowledge Collaboration”, poster presentation at SETAC North America 40th Annual Meeting, Toronto, Ontario 2019.

500 McBean, E., “Challenges for the Future - Recognizing the Need for Future Directions for Sponge City“. Keynote presentation 2019 International Conference on Resources and Environmental Research, Qingdao, China Oct 25-27, 2019

499 McBean, E., “Challenges for the Future, for Sponge City”, Keynote presentation at Chinese Hydraulic (CHES) meeting, Yichang, China, October 21-24, 2019.

498 Jiang, A., and McBean, E., “Characterizing Sponge City System Efficiencies at Lot-Level with Climate Change”, International Symposium on Sustainable Urban Drainage in October in Ningbo, Zhejiang, China, October 17-19, 2019

497 McBean, E., “Sponge City: Recognizing the Need for Future Directions“, Keynote presentation at International Symposium on Sustainable Urban Drainage in October in Ningbo, Zhejiang, China, October 17-19, 2019.

496 McBean, E., “Climate Change and Population Growth – The Foreboding Implications to Coastal Cities”, Keynote presentation at the International Conference on Asian and Pacific Coasts (APAC 2019), Hanoi, Vietnam, September 25-28, 2019.

495 McBean, E., “One Water Approach to Manage Water Issues in Urbanizing Areas”, Keynote presentation at 2019 Qingdao International Water Conference, Qingdao, China, June 25-29, 2019.

494 Han Chen, Huang, J., and McBean, E., “Study of Daily Crop Transpiration” Comparison of Random Forests and Support Vector Regression”, presented at 8th International Conference on Water Resources and Environment Research, Hohai University, Nanjing, China, June 14-18, 2019

493 Liu, B., Huang, J., and McBean, E., “Risk Assessment of Hybrid Rain Harvesting System and Other Small Drinking Water Systems by Game Theory and Fuzzy Logic Modeling”, presented at 8th International Conference on Water Resources and Environment Research, Hohai University, Nanjing China, June 14-19, 2019.

492 McBean, E., “Targeting Key Coefficients to Identify Strategies for Managing Emerging Contaminants”, Keynote Presentation at 8th International Conference on Water Resources and Environment Research, Hohai University, Nanjing China, June 14-18, 2019

491 Jiang, A., McBean, E., Binns, A., and Gharabaghi, B., and Huang J. “Characterization of Potential to Decrease Urban Flood Damages Through Removal of Foundation Drain Contributions to Sanitary Sewers”, presented at 8th International Conference on Water Resources and Environment Research, Hohai University, Nanjing, China, June 14-18, 2019.

489 McBean, E., “Small and Remote Water Systems”, Invited Panel Member at Canadian Water Summit, Partnering to Innovate in the Blue Economy, 10th Canadian Water Summit, Georgian Bay, Ontario, May 29-31, 2019

488 McBean, E., “Research Perspectives on Lot-Level Practices to Reduce the Risk of Basement Flooding”, presentation at 2019 Canadian Water Resources Association National Conference, Collingwood, Ontario, May 26-29, 2019.

487 McBean, E., “The One Water Approach to Focus on Environmental Issues in Watersheds”, The First Watershed Water Forum, River Basin Management Service Center of Shandong Provence, Shandong, China, May 18, 2019

486 McBean, E., “Utilization of the One Water Approach as a Tool to Focus on Environmental Issues in Watersheds”, presentation at International Workshop (Nankai University and Glasgow University), Nankai University, Tianjin, China, May 10, 2019.

485 Snider, B., and McBean, E., “From Data to Artificial Intelligence: Predicting Pipe Failure”, presented at Canadian Network of Asset Managers, 2019 NNAM Student Research Symposium, Kelowna, BC., May 6-9, 2019.

484 McBean, E., and Snider, B., “Buried Water Infrastructure and Artificial Intelligence Opportunities”, Keynote presentation at International Conference on 52nd Water Management Modeling, Toronto, Ontario, February 27&28, 2019.

483 McBean, E., “Water Security Issues in the 21st Century: Insights and Strategies for Physical Security Protection”, presented at Michigan State University, East Lansing, Michigan, January 24, 2019

482 Livingston, T., Gharabaghi, B., and McBean, E., “Source Water Protection in a Changing Climate: Dealing with Variable Projections, presented at Latornell Conservation Symposium, November 2018

481 McBean, E., “Removal of Emerging Contaminants: The Next Water Revolution”, Keynote presentation, International Summit Forum of Chinese Academy of Engineering on Water Pollution Control, Hangzhou China, October 27-29, 2018

480 Yang, A., Dai, Z., Yang, Q., McBean, E., and Lin, X., “A Multi-Objective Optimal Model for Groundwater Remediation under Health Risk Assessment in a Petroleum Contaminated Site”, IOP Conference Series, Earth and Environmental Science, May 2018, 146(1):012014.

479 McBean, E., “Examples of Reactive and Proactive Strategies for Physical Security Protection of Water Systems in Canada”, Keynote Presentation at NATO workshop on Cyber & Physical Security in Water Infrastructure, Oslo, Norway, October 8-11, 2018

478 McBean, E., “Sponge City: Recognizing the Needs to Expand the Initiatives Being Considered”, Keynote Presentation at 2018 International Sponge City Conference, Xi’an, China, September 2018.

477 Snider, B., and McBean, E., “Improving Time-To-Failure Predictions for Water Distribution Systems Using Gradient Boosting Algorithm”, 1st International WDSA, CCWI 2018 Joint Conference, Kingston, Ontario, Canada, July 23-25, 2018.

476 Marshall, R., Levison, McBean, “First Nations’ Source Water Protection, a Traditional and Technical Knowledge Collaboration”, poster presentation at Canadian Water Summit, Vancouver, B.C., Jun 20-21, 2018.

475 Black, K., Gibson, Bhatti, A., McBean, “Assessment of Effectiveness of Real-Time Monitoring in the Operation of Small Drinking Water Systems”, poster presentation at Res’Eau Annual Meeting, as part of Canadian Water Summit, Vancouver, B.C., Jun 20-21, 2018

474 Preston, T., Farrow, C., and McBean, E., “Cermic Filters as a Point-of-Use Technology”, poster presentation at Res’Eau Annual Meeting, at Canadian Water Summit, Vancouver, B.C., Jun 20-21, 2018 (recipient of Best Poster Award)

473 McBean, E., “Implications of Climate Change to Coastal Cities and the Need for Engineers”, Keynote Presentation, CSCE 2018 Annual Conference, Fredericton, New Brunswick, Jun 13-18, 2018

472 McBean, E., “Climate Change: Impacts to Coastal Cities and the Need for Adaptations”, presented at CWRA 2018 Conference, Victoria, B.C., May 29-31, 2018

471 McBean, E., “Sustainability of Groundwater Resources Using Smart Technology Assessment Methodologies”, Keynote Presentation, SATEC 2018, Shandong, China, May 19-25, 2018

470 Vrban, S., Wang, Y., McBean, E., Binns, A., and Gharabaghi, G. “Evaluation of Partial Duration and Annual Maxima Series Rainfall Models Using the Low Impact Development Treatment Train Tool”, presented at International Conference on Water Management Modeling, Feb 28 & Mar 1, Toronto, Canada.

469 Dusolt, S, Binns, A., McBean, E., and Gharabaghi, B., “Evaluating the Performance of Backwater Valves as a Lot-Level Approach to Reducing Basement Flooding in Canadian Homes”, presented at International Conference on Water Management Modeling, Feb 28 & Mar 1, 2018, Toronto, Canada

468 Siwakoti, S., Gharabaghi, B., Binns, A., Bradford, A., and McBean, E., “Rapid Clean-out Apparatus for Permeable Pavers: Initial Laboratory Tests”, presented at International Conference on Water Management Modeling (ICWMM), February 28 and March 1, 2018, Toronto, Canada**.**

467 Jiang, A., and McBean, E., “A Quantitative Statistical Analysis of Rainfall-Derived Infiltration and Inflow into the Sanitary Sewer System – A Case Study of the City of London, Ontario”, presented at International Conference on Water Management Modeling (ICWMM), February 28/March 1, 2018, Toronto, Canada.

466 McBean, E., “The Nexus of Climate Change, Population, and Water Security;

Implications for Engineering Needs”, Keynote Presentation, International Conference on Water Management Modeling, Toronto, Ontario, Feb 28/Mar 1, 2018

465 McBean, E., “Buried Water Infrastructure – Condition Assessment Using Data Mining and Artificial Intelligence Models”, Keynote Presentation, International Forum on Water and Environmental Safety, Tianjin, China, January 8, 2018

464 McBean, E., “Climate Change: Implications to Coastal Cities in China”, presented at Ocean Engineering College, Xiamen, China, October 23, 2017.

463 McBean, E., and Huang, J., “Climate Change: Implications to Coastal Cities in China”, presentation at The Second International Top-level Forum on Engineering Science and Technology Development Strategy: Water Security and Sustainable Development under Changing Environment, Nanjing, China, 19-20 October, 2017.

462 Marshall, R., Levison, J., and McBean, E., “Towards Effective First Nations’ Source Water Protection: A Groundwater-Focused Study for Decision-Making and Long-term Planning”, GeoOttawa 2017, the 70th Canadian Geotechnical Conference and the 12th Joint CGS/IAH-CNC Groundwater Conference, Ottawa, Ontario, October 1-4, 2017.

461 McBean, E., “Looking for Pathways to Decrease the Vulnerability of Drinking Water Systems in First Nations Communities”, presented at Guelph-Wellington Men's Club, Guelph, Ontario, July 18, 2017

460 Zhu, Z., Lai, J., Xiang, Y., Baird, B, and McBean, E, “Autonomous Flood Monitoring with Unmanned Aerial Vehicle”, presented at International Conference of the Florida Artificial Intelligence, Florida, June 2017

459 Gibson, C., Black, K., and McBean, E., “Strategies for Reducing DWAs in First Nations Water Systems”, presentation at BC WWA Meeting, Victoria, B.C., May 30, 2017

458 Brown, D., and McBean, E., “Clay Filter Designs for Protecting Consumers in Small Drinking Water Systems”, presented at BCWWA Meeting, Victoria, B.C., May 30, 2017

457 Gibson, C., Black, K., and McBean, E., Strategies for Reducing DWAs in First Nations Water Systems. Presentation at Res’Eau Annual Meeting, Victoria, B.C., May 28, 2017

456 Brown, D., and McBean, E., “Clay Filter Designs for Protecting Consumers in Small Drinking Water Systems”, presented at Res’Eau Annual Meeting, Victoria, B.C., May 28, 2017

455 McBean, E., “The Nexus of Stormwater and Wastewater Impacts in Urban Municipal Systems”, Keynote presentation at International Symposium on Stormwater and Wastewater Management, Chongqing, China, May 2017

454 Binns, A., and McBean, E., “Lot-level approaches to control urban flood risk and mitigate basement flooding”, presented at Institute for Catastrophic Loss Reducation Research Forum, Toronto, Ontario, April 21, 2017

453 McBean, E., “Technology Recommendations for Some water Infrastructure Needs in TBNA”, Keynote address at 2017 Nankai International Talents Forum, Sino-Canadian International Forum on Water and Environmetnal SafetyCWTX and SCWE workshop, Nankai University, Tianjin, China, Feb 22-24, 2017

452 Marshall, R., Desjardins, M., Levison, J., and McBean, E., “Towards Effective First Nations’ Source Water Protection”, OFNTSC conference, Niagara Falls, Ontario, October 2016.

451 McBean, E., “Climate Change Effects on Water Budget Components, a Case Study in Canada”, Keynote presentation, CHES Meeting Chinese Hydraulic Engineering Society Annual Meeting, Chengdu, China, October 19-20, 2016.

450 McBean, E., “Buried Water Infrastructure – Condition Assessment Using Data Mining”, Plenary Paper, International Conference on Sustainable Infrastructure, Shenzhen, China, October 17-19, 2016

449 Post, Y., Thompson, E., and McBean, E., “Insights into Boil Water Advisories as Gained from Data Mining”, presented at New England Graduate Student Water Symposium (NEGSWS) meeting, Amherst, Massachusetts Sept 4-6, 2016

448 Uduma, U., McBean, E., and Gharabaghi, B., “Risk assessment of Cyanobacteria-toxins for small drinking water treatment plants from select regions of Québec and Alberta”, presented at IAGLR meeting, Guelph, Ontario, Jun 6-10, 2016.

447 Marshall, R., Levison, J., and McBean, E., “Towards Effective First Nations’ Source Water Protection: A Groundwater-focused Study for Decision-making and Long-term Planning”, presented at 69th National Conference, Canadian Water Resources Association, Montreal, Quebec, May 25-27, 2016.

446 McBean, E., “Removal of Fluoride from Drinking Water for Rural Populations”, presented at Sino-Canadian Collaborative Innovation Forum, Tianjin Binhai New Area, China, May 22-23, 2016

445 McBean, E., and deLange, M., “Sponge Cities: Opportunities and Risks”, presented at 11th Sino-American Technology and Engineering Conference (SATEC), Jinan, China, May `5-18, 2016.

444 McBean, E., “Removal of Fluoride from Drinking Water for Rural Populations”, presented at Sino-Canadian Collaborative Innovation Forum, Tianjin Binhai New Area, China, May 22-23, 2016

443 McBean, E., and deLange, M., “Sponge Cities: Opportunities and Risks”, presented at 11th Sino-American Technology and Engineering Conference (SATEC), Jinan, China, May `5-18, 2016.

442 McBean, E. and Post, Y., “Understanding the Sources of Vulnerability of First Nations Drinking Water Systems", Workshop in Cranfield University, England, May 15, 2016

441 Post, Y., Thompson, E., and McBean, E., “Assessment of Vulnerability of a Small Water Treatment Supply System Utilizing Water Safety Plans”, BCWWA Conference, Whistler, B.C., May 2, 2016

440 Thompson, E., Post, Y., and McBean, E., “Understanding occurrence of drinking water advisories in First Nations systems: A data mining approach “, BCWWA Conference, Whistler, B.C., May 2, 2016

439 Marshall, R., Levison, J., and McBean, E., “Source water protection for First Nations: A Traditional and Technical Knowledge Collaboration", BCWWA Conference, Whistler, B.C., May 2016

438 McBean, E., “Understanding the Sources of Vulnerability of First Nations Drinking Water systems”, paper presented at Res’Eau Annual Meeting, Whistler, B.C., Apr 29 2016

437 Marshall, R., Levison, J., and McBean, E., “Source water protection for First Nations: A Traditional and Technical Knowledge Collaboration", poster presentation at Res’Eau Annual Meeting, Whistler, B.C., May 2016

436 Thompson, E., and McBean, E., “Data Mining Approach to Characterizing Drinking Water Advisory Attributes” poster presentation, Res’Eau Annual Meeting, Whistler, B.C. Apr 30, 2016

435 Post, Y., and McBean, E., “Assessment of vulnerability of small Water Treatment Supply Systems Utilizing Water Safety Plans”, poster presentation at Res’Eau Annual Meeting

434 McBean, E., “Water Security – The Nexus of Priority Issues in a Climate Changing World”, presented at Brace Centre, McGill University, Montreal, Apr 4, 2016

433 McBean, E., and G. Huang, “Clay Pot Filters, A Post-Geohazard Emergency Option for Water Supply”, presented at Geohazards Management Workshop, North China Electric Power University, Beijing, March 1, 2016

432 Corston-Pine, E., and McBean, E., “Keys to Retention of Water Treatment Plant Operators”, presented at World Water Day 2016, University of Guelph, March 22, 2016

431 Marshall, R., Levison, J., and McBean, E., “First Nations’ Source Water Protection, Study of Fractured Dolostone Aquifer for Long-Term Planning”, presented at World Water Day 2016, University of Guelph, March 22, 2016

430 McBean, E., and G. Huang, “Clay Pot Filters, A Post-Geohazard Emergency Option for Water Supply”, presented at Geohazards Management Workshop, North China Electric Power University, Beijing, March 1, 2016

429 De Lange, M., and McBean, E., “The Water Utility Risk Integration Matrix: A Tool for Demonstrating Potential for an Integrated Approach to Municipal Water Management”, presentation at Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario Feb 25-26, 2016

428 Corston-Pine, E., and McBean, E., “Challenges of the Provision of Drinking Water in Ontario First Nations”, presented at Aboriginal Water and Wastewater Association of Ontario, Sudbury, Ontario, January 27-28, 2016

427 McBean, E., “Water Security, The Nexus of Water, Food, Population Growth and Energy”, Keynote presentation at Chinese Hydraulic Engineering Society Annual Conference, Nanjing, China, October 27-28, 2015

426 McBean, E., “The Nexus Impacts to Water Security at the Global Level”, Water and Development, IWA Meeting, Jordan October 18-22, 2015.

425 Murphy, H., Harvey, H., and McBean, E., “Reducing the Vulnerability of Small Water Systems Using Decision Trees: A Case Study of Canadian First Nations Water Systems”, presented at the 18th International Symposium on Health-Related Water Microbiology, IWA Conference, Lisbon, Portugal, October 2015

424 McBean, E., “Water Security – Priority Needs in a Climate-Changing World”, presented at North China Electric Power University, Beijing, China, June 18, 2015.

423 McBean, E., “Water Security – Priority Needs in a Climate Changing World”, presented at Xiamen University, Xiamen, China Jun 14, 2015

422 McBean, E., “Provision of Low-Tech Water Treatment Technologies in the Developing World”, Earth University, Costa, Rica, June 8, 2015

421 Marshall, R., Levison, J., and McBean, E., “Towards effective First Nations’ source water protection: A groundwater-focused study for decision-making and long-term planning”, presented at IAH –CNC Conference, Waterloo, Ontario, October 2015

420 McBean, E., “Data Mining to Identify Vulnerabilities of First Nations Water Systems”. presented at Res’Eau Annual Meeting, Kelowna, B.C., May 26-27, 2015

419 Grekula, M., and McBean, E., “Water Safety and Source Protection Plans – Intent and Issures”, presented at Res’Eau Annual Meeting, Kelowna, B.C., May 26-27, 2015

418 Thompson, E., and McBean, E., “Tailoring Water Safety Plans to Reflect Multiple Barriers in Small Drinking Water Systems”, presented at Res’Eau Annual Meeting, Kelowna, B.C., May 26-27, 2015.

417 Marshall, R., Levison, J., and McBean, E., “First Nations Water Source Protection, Participatory Opportunities for Decision-Making and Long Term Planning”, presented at Res’Eau Annual Meeting,Kelowna, B.C., May 26-27, 2015

416 McBean, E., Water Security – Implications in a Climate Changing World“, Keynote presentation, CSCE 22nd Canadian Hydrotechnical Conference, Montreal, Quebec, April 29 - May 2, 2015

415 McBean, E., “Water Security Needs, for a Sustainable Economy”, Research Matters, Ontario and Canadian Research Symposium, Toronto, Ontario, April 1-2, 2015

414 Harvey, R., McBean, E., Baah, K., and Dubey, B. "A Risk-Based Approach to Sanitary Sewer Pipe Asset Management, as Input for Groundwater Protection", presented at Ontario Research Foundation Meeting on Fractured Bedrock, University of Guelph March 6, 2015

413 Marshall, R., Levison, J., McBean, E. „Towards Effective First Nations' Source Water Protection“ A Groundwater-focused Study for Decision-Making and Long-Term Planning“, presented at Ontario Research Foundation Meeting on Fractured Bedrock, University of Guelph March 6,2015

412 Betts, A., Gharabaghi, B., Levison, J., and McBean, E., “Salt vulnerability assessment methodology for groundwater resources”, presented at Ontario Research Foundation Meeting on Fractured Bedrock, Guelph, Ontario, March 5-6, 2015

411 Carey, G., and McBean, E., “Innovative Diffusion Model for Predicting Remediation Timeframe at Complex Sites” presented at REMTEC, Denver, Colorado, March 2015

410 McBean, E, “Integrated Water and Risk Management – Opportunities and Next Steps”, Canadian Water Network, Consortium Leadership Annual meeting, Mississauga, Ontario, February 27-28, 2015.

410 De Lange, M., Harvey, R., Wang, Y., and McBean, E., “The Water Utility Risk Integration Matrix: A Tool for Demonstrating Potential for an Integrated Approach to Municipal Water Management”, presentation at Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario Feb 25-26, 2015

409 McBean, E., “Evidence-based Findings in Vulnerability Characterization for Small Drinking Water Systems in First Nations Communities”, presented at Innovative UV Technologies for the Removal of Emerging Contaminants and Sustainable Water Supplies in Small Communities, University of Tokyo, Japan, January 26-27, 2015

408 Salsali, H., and McBean, E., “Beta-Blockers and Disinfectants in Municipal Wastewater; Implications for Additional Treatment Needs”, 4th IWA Regional Conference on Membrane Technology 2014, Ho Chi Minh City, Viet Nam, December 2014

407 Wang, Y., McBean, E., and Gharabaghi, B., “Regional Frequency of Rainfall Intensities and ENSO Impacts on Sreamflows in Southern Ontario”, presentation at Bridging the Gaps Between Global ENSO Science and Regional Processes, Extremes and Impacts, Guayaquil, Ecuador, Nov 12-14, 2014.

406 McBean, E., “Water Security for Small Water Systems in a Climate Changing World”, Keynote paper presented at Water for Today and Tomorrow, Chinese Hydraulic Engineering Society Annual Meeting, Tianjin, China, October 28-30, 2014

405 McBean, E., “Water Security Research, Priority Needs and Opportunities”, Keynote presentation at North China Electric Power University, October, 2014

404 McBean, E., “Sustainable Cities: Putting Drinking Water Risks in Context”, Panel Presentation at 16th Canadian Conference on Drinking Water, Canadian Water Works Association, Gatineau, Quebec, Oct 26-29, 2014

403 McBean, E., “Hindcasting of Failures to Forecast Future Failure Potential for Very Small Systems – Guidance Using Data Mining”, 16th Canadian Conference on Drinking Water, Canadian Water Works Association, Gatineau, Quebec, Oct 26-29, 2014.

402 Corston-Pine, E., and McBean, E., “Challenges in the Provision of Drinking Water in Ontario Fist Nations: Some Operators’ Perspectives from Ontario”, presented at 6th Annual BC First Nation Water and Wastewater Operational Excellence Conference, Vancouver Wall Centre, Vancouver, B.C. Oct 8-10, 2014

401 McBean, E., Harvey, R., Murphy, H., Corston-Pine, E., Wang, Y., and Post, Y., “Attributes Contributing to Drinking Water Advisories for Small Drinking Water Systems”, presented at 6th Annual BC First Nation Water and Wastewater Operational Excellence Conference, Vancouver Wall Centre, Vancouver, B.C., Oct 8-10, 2014.

400 McBean, E., Harvey, R., Corston-Pine, E., Post, Y., and Wang, Y., “Vulnerability Assessment: Opportunities and Approaches for Small Drinking Water Systems”, presented at RES’EAU Annual Meeting, Whistler, B.C., May 31, 2014

399 Zhang, C., and McBean, E., “A Virtual Water Assessment Methodology For Cropping Pattern Investigation”, presented at Canadian Water Resources Association, Hamilton, Ontario, Jun 2-4, 2014

398 Harvey, R., and McBean, E., “Predictive Analytics for Planning Inspections of Deteriorating Wastewater Linear Infrastructure”, presented at Canadian Water Resources Association, Hamilton, Ontario, Jun 2-4, 2014

397 Wang, Y., McBean, E., “Regional Frequency Analysis of Design Rainfall Intensity in Southern Ontario”, presented at Canadian Water Resources Association, Hamilton, Ontario, Jun 2-4, 2014

396 McBean, E., Zhang, C., and Wang, Y., “Water Security – Priority Needs in a Climate Changing World”, keynote presentation at State Administration of Foreign Experts Affairs (SAFEA), 10th Workshop, Tianjin, China, Workshop from May 25-31, 2014.

395 McBean, E., “Assessment of Vulnerability of Small Drinking Water Systems in the Developed and Developing World “, presented at EAWAG, Zurich, Switzerland, April 29, 2014

394 McBean, E., “Vulnerability Assessment Methodologies for Small Drinking Water System Characterizations in the Developed and Developing World”, seminar presented at University of Lausanne, Switzerland, Apr 28, 2014

393 McBean, E., 'Municipal Risk/Liability for Stormwater, Water, Wastewater”, Keynote presentation at Surviving the Perfrect Storm- Managing your Water, Wastewater and Stormwater Risks in Light of Climate Change, 21st River Symposium on the St. Lawrence River and Great Lakes Ecosystems, Belleville,Ontario, May 7-8, 2014.

392 Harvey, R., and McBean, E.,“Predictive Analytics for Planning Inspections of Sewer Infrastructure“, presented at Ontario Research Foundation Meeting on Fractured Bedrock, Guelph, Ontario, March 28, 2014

391 McBean E., “Human Health Risk Assessment and Options for Improvement of Arsenic-Contaminated Drinking Water”, presented at UBC Okanagan, Kelowna, BC, March 10, 2014

390 McBean, E., “Water Safety Plan for Small- to Medium-Sized Municipalities”, presented at UBC Okanagan, Kelowna, BC, March 10, 2014

389 McBean, E., “Towards Sustainable Drinking Water Solutions for the Small Communities with Intermittent Road Access”, invited presentation at 2014 First Nations Water Symposium, March 4-5, 2014, Niagara Falls, ON

388 Sabouri, F., Tu, C., Gharabaghi, B., and McBean, E., “Thermal Investigaion of Stormwater Management Ponds” presented at Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario Feb 26-27, 2014

387 McBean, E., and Wang, Y., “Insights for Assigning Precipitation Rates Pertinent to Buried Municipal Stormwater System Design in 2013 and Going Forward”, keynote presentation, presented at Stormwater and Urban Water Systems Modeling Conference, Toronto, Feb 26-27, 2014

386 McBean, E., "Developing Water Safety Plans for Very Small Communities; Indications of the Challenges”, invited presentation at Assembly of First Nations Infrastructure Conference, Toronto, Ontario Feb 3-5, 2014

1. McBean, E., “Overview of Unconventional Water Uses in Canada – Future Opportunities and Directions”, Keynote Presentation at Use of Unconventional Water in Urban Water Management, (a meeting organized by UNESCO), Muscat, Oman, 11-13 February, 2014

384 Zhu, Z., Xiang, Y., and McBean, E., “Modeling Disinfection By-product Formation in Drinking Water Using Combined Probabilistic Networks and Regression Analysis,

A Case Study for Haloacetic Acids”, 9th ICSA International Conference on Challenges of Statistical Methods for Interdisciplinary Research and Big Data, Hong Kong, Baptist University, 20-23 December 2013

383 Harper, B., Zhu, Z., and McBean, E., “Mitigation of Disinfection By-Product Formation Whilst Incorporating the Bromide Ion”, presented at International Conference on Agriculture Science and Environment Engineering iCASEE13, Beijing, China Dec 19-20, 2013

382 McBean, E., “Aggressive Recovery of Energy from Solid Wastes Through Bioreactor Engineering”, invited presentations at Future of Energy Recovery from Wastes, Toronto, Ontario October 31, 2013

381 Vasiljevic, B., Wang, Yi, and McBean, E., “Temporal Trend Assessment for Rainfall Frequency Analysis in Ontario, Canada”, presented at International Conference Climate Change Impacts on Water Resources, Cerni Institute, Belgrade, Serbia, Oct 17-18, 2013

380 Salsali, H., Massen, S., and McBean E., “Added Value from Rebate Beer in Anaerobic Digestion”, presented at 86th Annual Water Environment Federation Technical Exhibition and Conference Oct. 5 - 9. Chicago, 2013.

379 McBean, E., “Reducing the Vulnerability of Small Drinking Water Systems Through Improved Understanding of Multiple Barriers”, presented at Res’Eau Impact, Putting Rural Community Water Systems First, Sheraton Hotel, Vancouver, B.C., October 2-3, 2013

378 Murphy, H., Pintar, K., Thomas, K., and McBean, E., “Developing a Waterborne Disease Burden Estimate for the Canadian Population”, presented at 17th International Symposium on Health Related Water Microbiology, Florianopolis, Brazil, Sept 15-20, 2013

377 Motiee, H., and McBean, E., “Impact of Potential Climate Change and Drought on Lake Uromiyeh (in Iran) and its Environment”, presented at 6th International Conference on Water Resources and Environmental Research, Koblenz, Germany, June 2013

376 Harvey, R., and McBean, E., “Use of Data Mining to Guide Sanitary Sewer Integrity Investigations”, presented at 6th International Conference on Water Resources and Environmental Research (ICWRER), Koblenz, Germany, June 2013

375 Xu, H., McBean, E., Kilgour, D., Hipel, K., Conflict Resolution with Risk Management in Graph Models”, presented at 6th International Conference on Water Resources and Environment Research (ICWRER 2013), Koblenz, Germany, June 2013

374 McBean, E., 2013. “Impacts of Climate Change, Insights to Extremes Precipitation in Mining Activities”, Keynote Presentation, Mine Water Solutions in Extreme Environments, Lima Peru, Apr 15-17, 2013

373 Simmons, J., Yang, W, and McBean, E., “Deriving Effluent Requirements Using a Watershed-Level Model”, presented at WEAO Conference, Toronto, Ontario Apr 7-9, 2013

372 Carey, G., and McBean, E., “Predicting Achievable Mass Discharge Goals, Timeframes, and Back-Diffusion Contributions” presented at REMTEC, Westminster, Colorado, March 4-6, 2013

371 McBean, E., and Harvey, R., ”Leakage Potential to Groundwater From Deteriorated Sewer Infrastructure”, presented at Ontario Research Foundation Meeting on Fractured Bedrock, Guelph, Ontario, March 1, 2013

370 McBean, E. ,” Climate Change Impacts – Evidence and Projections”, Keynote presentation, Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario, February 2013.

369 Zhu, Z., McBean, E., and Harper, B., “Disinfection By-Product Modeling Using Bayesian Networks”, presented at Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario, February 2013

368 Wang, Yi, and McBean, E., “Rainfall Intensities for Infrastructure Design: Implication of Record Length and Prediction Uncertainties”, presented at 2013 Stormwater and Urban Water Systems Modeling Conference, Toronto, Ontario, February 2013

367 Harvey, R., and McBean, E., “Understanding Stormwater Pipe Deterioration Through Data Mining”, presented at 2013 Stormwater & Urban Water Systems Modeling Conference, Toronto, Ontario February 2013

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364 McBean, E., ”Watershed Planning Practice”, Ten day Shortcourse presented to Afghanistan Engineers, funded by Asian Development Bank, IIT-Roorkee. Roorkee, India, December 2012.

363 McBean, E, “Challenges in Rural Water Supply”, presented Agriculture Water Saving and Rural Water Supply, Chinese Hydraulic Engineering Society Annual Meeting, Beijing, China, November 14, 2012

362 McBean, E., “Water Security – Challenges in Water Treatment & Distribution Systems”, presented at Tianjin Hua Miao Research and Design Institute of Water and Wastewater Co., Tianjin, China, November 10, 2012

361 McBean, E., “Developing a Technical Paper”, presented at Tianjin University, Tianjin, China, November 10, 2012

360 McBean, E., “Impacts of Climate Change on the Hydrologic Cycle, Evidence and Predictions”, keynote presentation at 2012 Chinese Hydrologic Engineering Society 2012 Annual Conference, Nov 7, 2012, Wuhan, China.

359 McBean, E., “Water Security Research, Priority Needs and Opportunities”, Keynote presentation at Advanced Workshop on Changing Hydrologic Cycle and Water Security, Tianjin University, November 3, 2012

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353 Brunsting, J., and McBean, E, Arsenic in Groundwater, Causes, Issues and Proposed Mitigation”, presented at 2012 Workshop on Control of Emerging Contaminants in Water and Wastewater Treatment Systems, Guelph Arboretum, Guelph, Ontario, May 30, 2012.

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347 McBean, E., “Risk Assessment Procedures in Water Security”, shortcourse presented at Nanjing University, China, April 2012.

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345 McBean, E., and Farrow, C., “Threats to Subsurface Water Quality: Impact Analysis Modeling and Risk Assessment/Management”, presented at Ontario Research Foundation Meeting on Fractured Bedrock, March 26-27, 2012

344 McBean, E., “SOWC – a 60 million dollar research venue”, presentation at World Water Day Celebrations, University of Guelph, Guelph, OntarioMarch 22, 2012.

343 McBean, E., “SOWC Platform as part of International Water Contributions”, presented at Innovation Guelph, Canada Water Week Business event, March 19, 2012

342 Sabouri, Farshid, Perera, N., Gharabaghi, B., and McBean, E., “Evaluation of Stormwater Management Ponds Thermal Impact Using PCSWMM”, Computational Hydraulics Inc. Conference, Toronto, Ontario, February 22-23, 2012.

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338 McBean, E., “Groundwater: Assessments of Sustainability in a Climate Changing World”, Keynote Presentation, 2011 Chinese Hydraulic Engineering Society Annual Academic Conference, Beijing, China, October 11-12, 2011

337 McBean, E., “Groundwater In a Climate Changing World”, presented at State Key Laboratory of Simulation and Regulation of Water Cycle in River Basins, Beijing, China October 10, 2011

336 McBean, E., "Vulnerability Assessment Procedures for Small Water Supply Systems, In present Conditions and Under Climate Changing Conditions", Keynote Presentation, International Conference on Drinking Water Safety, Security and Sustainability, presented, Hangzhou, China, Oct 9-12, 2011

335 McBean, E., “Fostering of Partnerships in Developing Countries for Knowledge Sharing”, keynote paper, Big-Value in Small Systems, Biennial Knowledge Transfer Workshop, Res-Eau, Vancouver, B.C. October 4-6, 2011

334 McBean, E., “Managing Security for Water Distribution Systems”, Keynote paper, International Waterworks Symposium, Seoul, Korea, Sep 2011

333 McBean, E., “Groundwater in the Developing World: An Assessment of Sustainability in a Climate Changing World”, Keynote paper, IWA Groundwater Specialization Conference, Belgrade, Serbia, Sep 8-11, 2011

332 McBean, E., “Water, The Ultimate Recycled Good”, Keynote Presentation at International Conference on Water and Wastewater with Focus on Privatization and Benchmarking, Tehran, Iran, April 27-28, 2011.

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P. Whalen, "Capabilities of Alternative Sensors in the Detection of Water Contamination", presented at OWWA/AWWA Conference, Collingwood, Ontario, May 1-4, 2011

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324 McBean, E., "Implications of Leaking Sanitary Sewer Infrastructure", presented at Sustainable Bedrock Water Supplies for Ontario Communities, University of Guelph, Ontario, April 12-13, 2011

323 Banting, C., and McBean, E., "Application of Risk Model to Below Water Table Aggregate Mining Extraction Site in Guelph", presented at Canadian Water Network National Conference, Ottawa, Ontario, Feb 28-Mar 3, 2011

322 Shen, H., McBean, E., and Wang, Y., "Sensor Placement Under Nodal Demand Uncertainty for Water Distribution Systems", presented at Computational Hydraulics Symposium, Toronto, Canada, February 24-25, 2011

321 Massen, S., Salsali, H., and McBean, E., "Rebate Beer as a co-substrate for anaerobic Digestion of Dairy Manure", Growing the Margins, London, Ontario, February 25-26, 2011

320 Chan, A., Salsali, H., and McBean, E., "CO2 Uptake of Microalgae Exposed to Simulated Biogas", presented at Growing the Margins, London, Ontario, February 25-26, 2011

319 Brennan, R., McBean, E., Pramanik, A., and Ahmed, S., "Assessment of Arsenic-Iron Removal Plans in the Manikganj District of Bangladesh", presented at Canadian Associated for Water Quality, Burlington, Ontario, Feb 22-23, 2011.

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316 Shaver, D., Salsali, H., and McBean, E., "Fate of Pharmaceuticals in Municipal Wastewater Treatment', presented at 25th Canadian Association for Water Quality, Burlington, Ontario, Feb 22-23, 2011

315 Farrow, C., McBean, E., and Salsali, H., "Viral Contamination and Attenuation in Fractured Bedrock Groundwater Aquifers", presented at 25th Canadian Association for Water Quality, Burlington, Ontario, Feb 22-23, 2011

314 Harper, B., Zhu, Z., and McBean, E., "Tradeoff between Zebra Mussel Control and Carcinogenic DBP Formation", presented at 25th Canadian Association for Water Quality, Burlington, Ontario, Feb 22-23, 2011

313 McBean, E., "Global Climate: Evidence of Climate Change and Potential Future Implications", Keynote Paper, International Conference on Sustainable Water Resources Management and Climate Change Adaptation, National Institute of Technology, Durgapur, India, February 16-18, 2011

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311 McBean, E., "Examples of Empirical Evidence of Climate Trends in North America", presented at Canada Centre for Inland Waters, Burlington, Ontario October 7, 2010.

310 McBean, E., and Lagos, G., "The Emerging Focus on Pharmaceuticals in Water", Enviropharm 2010, Toronto, Ontario, October 7, 2010

309 Ritchie, S., and McBean, E., “Assessment of Optimal Controls on Landfill Gas Generation to Improve Utilization Opportunities ", Second International Conference on Waste Engineering and Management, Shanghai, China, 13-15 October 2010.

308 Ahmed, S., McBean, E., Rovers, F., and Gidda, T., "A Model for Carbon Credit from Composting", Second International Conference on Waste Engineering and Management, Shanghai, China, 13-15 October 2010.

307 Asnaashari, A., Gharabaghi1, B., Kunjikutty, S., McBean, E., and Lehman, P. “Reservoir Management Decision Support Tool for the Mississippi River Watershed” Canadian Dam Association, Niagara Falls, Ontario, Oct 2-7, 2010.

306 Safi, M., Asnaashari, A, Beheshti, A., Gharabaghi, B., Hamidian, M., and McBean, E., "Iranian Dam Safety Assessment Guideline", Canadian Dam Association, Niagara Falls, Ontario, Oct. 2-7, 2010.

305 Carey, G., and McBean, E., "Validation and Application of a NAPL Depletion Model for Predicting Remediation Timeframe", presented at Consoil Conference, Vienna, Austria, September 2010.

304 Carey, G., and McBean, E., "Uses, Benefits, and Limitations of Mass Flux and Mass Discharge: A Case Study Review", presented at Consoil Conference, Vienna, Austria, September 2010.

303 Carey, G., and McBean, E., "Sustainability and Back-diffusion Implications for the Integrated Management of DNAPL Sources and Plumes", presented at Consoil Conference, Vienna, Austria, September 2010.

302 Shen, H., and McBean, E., "An ArcGIS Tool for Rapid Contaminant Source Identification", presented at WDSA Meeting, Tucson, Arizona, September 12-15, 2010.

301 Shen, H., and McBean, E., "Real-Time Water Quality Assessment with Bayesian Belief Networks", presented at WDSA Meeting, Tucson, Arizona, September 12-15, 2010.

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298 McBean, E., "Improved Sustainability of Arsenic-Impacted Water Supplies Through Rainwater Harvesting", Third IASTED Africa Conference on Water Resource Management, Gabarone, Botswana, Sept 6-8, 2010.

297 McBean, E., "Trends in Desertification and Sustainability of Water Resources", presented at International Conference on Environmental Science and Engineering, Singapore, August 2010.

296 Asnaashari, A., McBean, E., Gharabaghi, B. and Tutt, A., "Asset Rehabilitation Planning Using Neural Network Models", Water 2010, Quebec City, July 2010.

295 Rajib, M.A., Rahman, M., and McBean, E., “Validation of Observed Evaporatorion-Temperature Trend Models with GCM Projections for Bangladesh”, Proceedings of the 5th International Water Association Young Water Professionals Conference, The University of New South Wales, Sydney, Australia, presented at the Special Paper Session on Climate Change, 5-7, July 2010

294 Shen, H., and McBean, E., "Role of parallel computing in data mining for contaminant source identification for water distribution systems", Water 2010, Quebec City, July 2010.

293 McBean, E., "Challenges in Water Treatment for Small Drinking Water Systems", 6th International Symposium on Ozone Applications and Vth International Symposium on Environment, Havana, Cuba, Jun 28-Jul 1, 2010

292 Yochim, A., Zytner, R., McBean, E., Endres, A., McCaughan, D., and Gondim, F.,  "Using GPR to Measure Water Content in an Active Landfill" presented at CSCE Annual Meeting, June 9-11, 2010.

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288 Carey, G., and McBean, E., "Conducting a Cost-Risk-Benefit Analysis for DNAPL Source Remediation", Shortcourse at Battelle Conference, Monterey, California, May 2010.

287 Hayward, J., McBean, E., Kitagawa, K., and Michaud, J-R, "Assessing the Potential Effects of Climate Change to Support Adaptive Management of Contaminated Sites in Canada", presented at 2010 RPIC Federal Contaminated Sites National Workshop, Montreal, Quebec, May 2010.

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284 McBean, E., "Drinking Water Security at Small Systems in Canada", presented at Consensus Conference on Small Water Systems, Management for the Promotion of Indigenous Health, University of Victoria, Victoria, B.C., March 21-23, 2010.

283 McBean, E., "Risk Management of Arsenic in Drinking Water for the Rural Poor in a Climate Changing World", plenary presentation at the International Conference on Environmental Health and Technology, Kanpur, India, March 15-17, 2010.

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281 Trenouth, W., Kazmi, S., Asnaashari, A., Gharabaghi, B., and McBean, E., "Stormwater Management for Construction Sites: A Case Study in Lake Simcoe Jurisdiction Area", presented at Conference on Stormwater and Urban Water Systems Modeling, Toronto, Ontario, February 18-19, 2010.

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279 McBean, E., “Trends in Climate in Canada - Past and Future Characteristics”, presented at Stressors, Habitat, and Biology in Agricultural Streams, Utopia, Ontario, February 17, 2010.

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274 Murphy, H., McBean, E., and Farabakshch, "Microbial and Chemical performance of Ceramic and BioSand water filters in rural Cambodia", 2009 Water Quality Technology Conference and Exposition (WQTC), Seattle, Washington, Nov. 15- 19, 2009

273 McBean, E., and Summerscales, I., Application of Risk Assessment Tools to Selected Small Systems in BC, presented at Small Community Water Supplies Task Group Meeting, Health Canada, Ottawa, Ontario, November, 3, 2009

272 McBean, E., "Issues and Challenges of Source Waters as Supplies to Small Drinking Water Systems", presented at Res'Eau Waternet, Knowledge Transfer Workshop, Toronto, Ontario Oct 1-2, 2009

271 McBean, E., "Chlorinated Ethene Plume Migration in Groundwater at Free-Phase Petroleum Sites", keynote presentation, presented at ModelCare -7th International Conference on Calibration and Reliability in Groundwater Modeling, Wuhan, China, September 20-23, 2009.

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261 McBean, E., and Motiee, H., "Progress of Climate Change in Arid and Semi-Arid Zones and Utility of Meteorological Data", Plenary Presentation, Watarid, 2nd International Conference on Water, Ecosystem, Sustainable Development in Arid and Semi-Arid Zones, Yazd, Iran, May 5-7, 2009

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250 McBean, E., "Global Climate Change, Desertification, and Population Impacts", Plenary Presentation, 3rd Iran Water Resources Management Conference, Tabriz, Iran, October 21-24, 2008

249 Motiee, H., and McBean, E., Climate Change Impacts on Lake Superior, 3rd Iran Water Resources Management Conference, Tabriz, Iran, October 21-24, 2008

248 Huang, J., McBean, E., and Shen, H., "Data Mining as a Tool to Identify Contaminant Sources in Water Distribution Systems", 10th International Water Distribution System Analysis Conference, Water Distribution Systems Analysis, Kruger, South Africa, August 17-20, 2008

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246 McBean, E., "Risk Assessment Models for Small Water Treatment Systems Within a Multi-Barrier Approach", Canadian Water Networks Symposium,Victoria, B.C., June 25-26, 2008

245 McBean, E., "CWN Small Systems Knowledge Translation Workshop for Small Water Systems in Canada", Canadian Water Networks Symposium, Victoria, B.C. June 24, 2008

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234 Cunderlik, J., and McBean, E. "Accuracy of Inflow Forecasting Tools", CEATI International Workshop, Tennessee November 2007

233 Motiee, H., and McBean, E., **"**Water Crisis in Arid and Semi-Arid Regions Long Distance Water Transfer as a Solution to Urban Water Demands", International History Seminar on Irrigation Drainage, Tehran, Iran 2007.

232 McBean, E., "Desertification Trends and Impending Water Crises", 6th International Conference on Environmental Informatics, Bangkok, Thailand, November 2007 (plenary presentation)

231 McBean, E., Gondim, F., Rovers, F., and Mosher, R., "Implications of Kyoto Protocol to Recycling and Composting of Solid Wastes in Developing Countries", presented at 11th International Waste Management and Landfill Symposium, Cagliari, Italy, 1-5, October 2007

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101.\*+ Ponnambalam, K., Vannelli, A., McBean, E.A. and Unny, T.E., "Solving Large-Scale Electric Energy Production Planning and Pollution Control Problems with Karmarkar Algorithms", presented at Workshop on Resources Planning Under Uncertainty for Electric Power Systems, eds. G. Dantzig and P. Glynn, Stanford University, California, pp. 179-196, January 21-22, 1989.

100.\*+ McBean, E.A., "Analyses of Conflicting Uses for the Grand River Basin, Canada", presented at Seminar on Conflict Analysis in Reservoir Management, Bangkok, Thailand, December 6-13, 1988.

99.\*+ Donald, J., Soulis, R., Kouwen, N. and McBean, E., "Utilization of Radar-Rainfall Information for Use in Flood Forecasting", presented at International Seminar on Hydrology of Extremes (Floods and Low Flows), National Institute of Hydrology, Roorkee, India, December 1-3, 1988.

98.\*+ Udayasen, N. and McBean, E., "Forecasting of River Flows Using a CARMA Model", presented at International Seminar on Hydrology of Extremes (Floods and Low Floods), National Institute of Hydrology, Roorkee, India, December 1-3, 1988.

97.\*+ Fitch, M. and McBean, E.A., "Multi-Day Flow Forecasting Using the Kalman Filter Model", presented at International Seminar on Hydrology of Extremes (Floods and Low Flows), National Institute of Hydrology, Roorkee, India, December 1-3, 1988.

96.\*+ Farquhar, G.J., Benson, B., Kell, R., McBean, E., Stickney, B. and Farrish, D., "Immiscible Liquids and Vapours in Soil: Recent Experiments on Transport and Control", presented at 1988 Technology Transfer Conference, Ontario Ministry of the Environment, Toronto, Ontario, November 28-29, 1988.

95.\*+ McBean, E.A., Kompter, M.G. and Farquhar, G.J., "Detectability of Step Trends in the Rate of Atmospheric Sulphate Deposition", presented at 1988 Technology Transfer Conference, Ontario Ministry of the Environment, Toronto, Ontario, November 28-29, 1988.

94.\*+ Hipel, K., McBean, E., Okada, N. and Unny, T., "International Acid Rain Conflict: Metagame Analysis", presented at International Specialty Conference on Environmental Challenges in Energy Utilization During the 90's, Cleveland, Ohio, October 9-12, 1988.

93.\*+ McBean, E. and Rovers, F., "Statistical Discrimination of Testing of Field-Monitored Data", presented at ASTM Symposium in Standards Development for Ground Water and Vandose Zone Monitoring, Albuquerque, New Mexico, January 27-29, 1988.

92. McBean, E.A., "Utility of Airshed Delineation in Detecting Trends in Acid Rain Deposition", presented at 1987 Fall Meeting, American Geophysical Union, San Francisco, California, December 6-11, 1987.

91.\*+ McBean, E.A., Kompter, M. and Farquhar, G., "Detectability of Step Trends in the Rate of Atmospheric Deposition of Sulphate", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, November 30 - December 1, 1987.

90.\*+ Farquhar, G., Abbott, W., Kell, R., McBean, E. and Stickney, B., "Experiments on the Movement of Immiscible Liquids and Their Vapours in Soil", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, November 30 - December 1, 1987.

89.\*+ McBean, E.A., Kompter, M., Donald, J., Donald, S. and Farquhar, G., "Spatial and Temporal Variabilities of Acid Rain Levels in Ontario", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, November 30 - December 1, 1987.

88.\*+ Fitch, M. and McBean, E.A., "Multi-Day Streamflow Forecasts Using the Kalman Filter", presented at 3rd Streamflow Forecasting Workshop, Ontario Ministry of Natural Resources and Environment Canada, Toronto, Ontario, October 21-22, 1987.

87.+ McBean, E.A., "Developing Management Positions for Acidic Emission Reduction Negotiations", presented at Systems Analysis in Water Quality Management, IAWPRC Meeting, London, UK, June 30 - July 2, 1987.

86.\*+ McBean, E.A., "Key Factors in Taste and Odour Problems for Municipal Water Works Using Surface Water", presented at International Conference on Reservoir Limnology and Water Quality, Ceske Budejovice, Czechoslovakia, June 15-20, 1987.

85.\* Leduc, R., Unny, T. and McBean, E., "Stochastic Models for First-Order Kinetics Biochemical Oxygen Demand with Random Initial Condition Input and Parameter", presented at the 3rd Seminar on Systems Theory in Civil Engineering, Ecole Polytechnique de Montreal, Montreal, June 8-10, 1987.

84+ Schmidtke, K., McBean, E. and Rovers, F.A., "Drawdown Impacts in Dense Non-Aqueous Phase Liquids", presented at Groundwater Monitoring Symposium, NWWA Conference, Las Vegas, May 18-21, 1987.

83.\*+ McBean, E.A., Byrne, J.M. and Farquhar, G., "Impact of Seasonal Meteorologic Variability on Acid Rain Management", presented at ASCE Energy Division Specialty Conference "Energy 87, Atlantic City, New Jersey, April 27-30, 1987.

82.\*+ Udayasen, N. and McBean, E.A., "Planning for the Combined Hydro-Thermal Power Generating System for Thailand", presented at International Symposium on Water for the Future, University of Rome, Italy, April 6-11, 1987.

81.+ Schmidtke, K., Sykes, J.F. and McBean, E.A., "Adjoint Sensitivity Analysis for Mass Transport", presented at Solving Ground Water Problems with Models, NWWA Conference, Denver, Colorado, February 10-12, 1987.

80.\*+ Belore, R. and McBean, E., "Modelling of the Spreading of Chemical Spills on Grass and Impermeable Surfaces", presented at Fourth Technical Seminar on Chemical Spills, Toronto, Ontario, February 10-12, 1987.

79.\*+ Farquhar, G.J., McBean, E.A., Byrne, J.M., Abbott, W., Kell, R. and Stickney, B., "Numerical and Laboratory Modelling of Two-Phase Flow in Porous Media: I. Two-Phase Gaseous Flow. II. Two-Phase Liquid Flow", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, December 8-9, 1986.

78.\* Wareham, D., McBean, E. and Byrne, J., "Emission Controls for Nitrogen Oxides in Acid Rain Abatement Strategies", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, December 8-9, 1986.

77.\*+ Byrne, J., McBean, E., Donald, J. and Farquhar, G.J., "Study of the Spatial Distribution of the Impact of Sudbury Smelting Emissions", presented at Ontario Ministry of the Environment Technology Transfer Conference, Toronto, Ontario, December 8-9, 1986.

76.\* McBean, E.A., "Case Study Applications for RCRA Ground Water Monitoring", presented at RCRA Ground Water Issues and Permitting Consideration Workshop, Air Pollution Control Association, Minneapolis, Minnesota, June 24, 1986.

75.+ Farquhar, G.J. and McBean, E.A., "Disposal Activities as a Source of Contaminants to Large Lakes", presented at World Conference on Large Lakes, Mackinac, Michigan, May 19-20, 1986.

74.+ Oegema, B. and McBean, E.A., "Uncertainty Analysis in Floodplain Delineation", presented at the International Symposium on Flood Frequency and Risk Analysis, Louisiana State University, Baton Rouge, LA, May 14-17, 1986.

73.+ Puskas, J. and McBean, E.A., "Behavior and Transport of Oil Under Ice", Fourth International ASCE Cold Regions Engineering Specialty Conference, Anchorage, Alaska, February 1986.

72.\*+ Belore, R., McBean, E.A. and Farquhar, G.J., "Modelling of the Spreading, Infiltration and Evaporation of Chemical Spills on Grass and impermeable Surfaces", presented at Third Annual Technical Seminar on Chemical Spills, Montreal, Quebec, February 5-7, 1986.

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70.+ McBean, E.A. and Rovers, F.A., "Use and Pitfalls of Statistical Discrimination Techniques in Assessment of Remediation Effectiveness at Landfills", presented at 7th National Conference on Waste Management in Canada, Ottawa, Ontario, November 4-6, 1985.

69.\*+ McBean, E.A., "An Overview of the Incorporation of Environmental Impacts into Water Resources Assessment", presented at the Interregional Seminar on Assessment and Evaluation of Multiple Objective Water Resource Projects, United Nations Environment Programme, Budapest, Hungary, 14-18 October, 1985.

68.+ McBean, E.A., "Alternatives for Identifying Statistically Significant Differences", presented at Workshop on the Statistical Aspects of Water Quality Monitoring, Canada Centre for Inland Waters, Burlington, Ontario, October 7-10, 1985.

67.\*+ McBean, E.A. and Farquhar, G.J., "Use of Optimization Models for Decision-Making in Acid Rain Management", presented at Scientific Basis for Water Resources Management, Proceedings of the Jerusalem Symposium, September 1985, pp. 253-264.

66.+ Sykes, J.F., Schmidtke, K., Rovers, F.A. and McBean, E.A., "Flow and Sensitivity Analyses at a Hazardous Waste Landfill", presented at Practical Applications of Groundwater Models, Columbus, Ohio, August 19-20, 1985.

65.+ Rovers, F.A. and McBean, E.A., "Safety and Health Programs for Remediation of Past Disposal Practices", presented at the Symposium on Environmental Health Risks: Assessment and Management, Waterloo, Ontario, May 29-31, 1985.

64. McBean, E.A. and Rovers, F.A., "Statistical Evaluation of Performance Monitoring to Ensure Acceptable Risk Exposure of Remediated Landfills", presented at the Symposium on Environmental Health Risks: Assessment and Management, Waterloo, Ontario, May 29-31, 1985.

63.+ Ismail, M.I., Farquhar, G.J., Prasad, T. and McBean, E.A., "Non-Destructive Techniques for Monitoring Soil/Groundwater Immiscible Contaminants", presented at Electrochemical Society Meeting, Toronto, May 12-17, 1985.

62.+ Andrews, D., Bhatia, K.K.S. and McBean, E.A., "Modeling of Phosphorus Concentrations from Diffuse Sources", presented at Stormwater and Water Quality Model Users Group Meeting, Gainesville, Florida, January 31, 1985.

61.\*+ McBean, E.A., "Multi-Objective Design of Stormwater Impoundments", presented at Stormwater and Water Quality Model Users Group Meeting, Gainesville, Florida, January 31, 1985.

60.\*+ Farquhar, G.J. and McBean, E.A., "Assessing the Behavior of Hazardous Liquids Spilled Onto Soils", presented at Technology Transfer Conference No. 5, Ontario Ministry of the Environment, Toronto, Ontario, November 7-8, 1984.

59. Cousins, J. and McBean, E.A., "Optimal Modelling for the Selection of an Abatement Program for Diffuse Agricultural Pollutants", presented at International Association of Water Pollution Research, Amsterdam, September 17-21, 1984.

58.+ Rovers, F.A. and McBean, E.A., "Monitoring an Implemented Remedial Action", presented at the 7th Annual Madison Waste Conference, University of Wisconsin - Extension, Madison, Wisconsin, September 11-12, 1984.

57.+ Leduc, R., Unny, T.E. and McBean, E.A., "A Stochastic Model for First-Order BOD Kinetics with Uncertainty with Parameters", presented at 4th International Symposium on Stochastic Hydraulics, University of Illinois, Urbana, Illinois, August 1984.

56. Ellis, H. and McBean, E.A., "Chance-Constrained/Stochastic Linear Programming Model for Development of Acid Rain Abatement Strategies", presented at 1984 Spring Meeting, American Geophysical Union, Cincinnati, Ohio, May 1984.

55. Burn, D. and McBean, E.A., "Optimizing Water Quality Under Uncertainty", presented at 1984 Spring Meeting, American Geophysical Union, Cincinnati, Ohio, May 1984.

54.+ McBean, E.A. and Lennox, W.C., "Effect of Survey Size on Measurement of Teaching Effectiveness", presented at Fourth Canadian Conference on Engineering Education, Fredericton, New Brunswick, May 28-29, 1984.

53.+ Dandy, G.C., McBean, E.A. and Hutchinson, B.G., "Water Pricing Policies as an Aid in Demand Management", presented at Hydrology and Water Resources Symposium 1983, University of Tasmania in Hobart, Australia, November 1983.

52.\*+ McBean, E.A., "River Flow Forecasting Using Filter Models", presented at Technical Workshop of Streamflow Forecasting, Inland Waters Directorate, Environment Canada, Toronto, November 22-24, 1983.

51.+ McBean, E.A. and Belore, R., "Physical Modelling of Dilution Entrainment of Heated Discharges Under Ice", presented at International Association for Hydraulic Research Congress, Moscow, USSR, September 1983.

50.+ Al-Nassri, S. and McBean, E.A., "Graphical Mode Output for the Analysis of Water Distribution Networks by Computer", presented at International Symposium on Urban Hydrology, Hydraulics and Sediment Control, University of Kentucky, Lexington, Kentucky, July 25-28, 1983.

49.+ McBean, E.A. and Burn, D.H., "Thermal Modeling in Urban Runoff and the Implications to Stormwater Pond Design", presented at International Symposium on Urban Hydrology, Hydraulics and Sediment Control, University of Kentucky, Lexington, Kentucky, July 25-28, 1983.

48. Burn, D.H. and McBean, E.A., "River Flow Forecasting Using an Interactive State and Parameter Filter Technique", presented at American Geophysical Union Meeting, San Francisco, California, December 1982.

47.+ McBean, E.A., Bishop, R., Ashamalla, A. and Ahmed, M., "Mathematical Modeling of Coliforms in Combined Sewer Discharges", presented at SWMM Users Meeting, University of Ottawa, Ottawa, Ontario, October 1982.

46.+ McBean, E.A. and Lennox, W.C., "The Role of Questionnaires in Determining Teaching Effectiveness", presented at the Canadian Conference on Engineering Education, University of Saskatchewan, Saskatoon, May 1982.

45. Gemin, J.J. and McBean, E.A., "Methodology for Selection of Wastewater Treatment for Northern Environments Using Multiple Objective Analysis", presented at the Seventeenth Canadian Symposium on Water Pollution Research, Burlington, Ontario, March 11, 1982.

44.\* Rovers, F. and McBean, E.A., "Groundwater Data Analysis and Interpretation", presented at Central Lake States Regional Meeting, National Council for Air and Stream Improvement Inc., Chicago, Illinois, September 23, 1981.

43.\* Rovers, F. and McBean, E.A., "An Assessment of Alternatives for Analysis of Monitoring Program Data for Solid and Hazardous Waste Disposal Sites", presented at Groundwater Monitoring, Columbus, Ohio, May 29-30, 1981.

42.\*+ McBean, E.A. and Ellis, H., "State of the Art in Primary Clarifier Design", presented at CSCE Regional Conference on Application of Hydraulics, University of Windsor, Windsor, Ontario, April 24, 1981.

41. Wigle, R., Longland, M. and McBean, E.A., "Exploration of Response Alternatives for Real-Time Flood Forecasting on Lake Nipissing", presented at International Symposium on Real-Time Operation of Hydrosystems, Waterloo, Ontario, June 26, 1981.

40. Ayers, C., McBean, E.A., and Unny, T., "Dynamic Investment Planning for a Waste Heat Utilization Scheme", presented at International Symposium on Real-Time Operation of Hydrosystems, Waterloo, Ontario, June 26, 1981.

39.\* McBean, E.A., Longland, M. and Kargel, R., "Real-Time Operation on Large Lakes", presented at International Symposium on Rainfall-Runoff Modelling, Mississippi State University, Mississippi, May 18-21, 1981.

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37. Lafleur, D.W., McBean, E.A. and Al-Nassri, S.A., "Design and Analysis of Stormwater Retention Ponds Based on Water Quality Objectives", presented at International Conference on Numerical Modelling of River, Channel and Overland Flow for Water Resources and Environmental Application, Bratislava, Czechoslovakia, May 4-8, 1981.

36. McBean, E.A. and Crutcher, A.J., "Statistical Analyses of Landfill-Generated Methane Gas Data, presented at 1980 Spring Meeting, American Geophysical Union, Toronto, Ontario, May 22, 1980.

35. Cousins, J.R. and McBean, E.A., "Selection of Optimal Diffuse Agricultural Pollutant Controls", presented at 1980 Spring Meeting, American Geophysical Union, Toronto, Ontario, May 22, 1980.

34. Lafleur, D. and McBean, E.A., "Storage Capacity Assignment Concerns in Stormwater Management Ponds", presented at Fifteenth Symposium on Water Pollution Research, Burlington, Ontario, February 21, 1980.

33. Andrews, D. and McBean, E.A., "Temporal and Spatial Variability in Non-Point Source Pollution, Some Practical Implications in Sampling", presented at Fifteenth Symposium on Water Pollution Research, Burlington, Ontario, February 21, 1980.

32. Gupta, S., McBean, E.A. and Cousins, R., "Mathematical Efficiency Concerns in Water Distribution Network Considerations", presented at the Annual Conference of the Canadian Society for Civil Engineering, Montreal, Quebec, June 1979.

31. McBean, E.A., "Issues in Simulation Model Design - A Case Study", presented at Annual Conference of Canadian Society of Civil Engineering, Montreal, Quebec, June 1979

30. Farquhar, G.J., McBean, E.A. and Constable, T.W., "An Examination of Temporal Variations in Landfill-Generated Methane Gas", presented at the Fourteenth Canadian Symposium on Water Pollution Research, Toronto, Ontario, February 1979.

29. Sykes, J.F., McBean, E.A. and Laviolette, D.J., "The Interdependence of Sanitary Landfill Gas and Leachate", presented at the Fourteenth Canadian Symposium on Water Pollution Research, Toronto, Ontario, February 1979.

28.+ McBean, E.A. and Bushert, K.C., "Risk Assessment in Water Quality Sampling for Calibration/Verification Analyses", presented at the International Symposium on Risk and Reliability in Water Resources, University of Waterloo, Ontario, June 1978 and published in proceedings pp. 221-245.

27.+ McBean, E.A., "Student Response to Computer-Aided Teaching", Computerized Multi-media Instructional Television Symposium, Waterloo, Ontario, April 6, 1978 and published in proceedings, pp. 10-16 (ed. G. Andrews).

26.+ Lam, P.T., McBean, E.A. and Farquhar, G.J., "Mathematical Modelling of Advanced Waste Treatment Processes", presented at the 1978 Summer Computer Simulation Conference, Newport Beach, California, July 24-26, 1978 and published in proceedings, pp. 553-560.

25.+ Wisner, P.E. and McBean, E.A., "Utilization of Models in Urban Drainage Planning", presented at the Specialty Conference on Computer Applications in Hydrotechnical and Municipal Engineering, Toronto, Ontario, May 18-19, 1978 and published in proceedings, 14 pages.

24.+ Alarie, R.L., McBean, E.A. and Farquhar, G.J., "Mathematical Simulation of Primary Clarifiers", presented at the Specialty Conference on Computer Applications in Hydrotechnical and Municipal Engineering, Toronto, Ontario, May 18-19, 1978 and published in proceedings, 18 pages.

23. McBean, E.A., Farquhar, G.J., Kouwen, N. and Dubek, O., "Prediction of Ice Cover Formation and Growth Rate and the Effects on Dissolved Oxygen", presented at Thirteenth Canadian Symposium on Water Pollution Research, Hamilton, Ontario, February 1978.

22. deVries, L., McBean, E.A. and Hipel, K., "Subjective Weight Assessment in Water Resources Planning Problems", presented at 58th Annual Meeting, American Geophysical Union, Washington, D.C., May 31, 1977.

21. McBean, E.A., and Bushert, K., "Selection of Spatial and Temporal Water Quality Sampling Intensities", presented at 58th Annual Meeting, American Geophysical Union, Washington, D.C., May 20, 1977

20. Constable, T.W. and McBean, E.A., "Discrete Bayesian Filtering Applied to Non-Linear River Water Quality Models", presented at 58th Annual Meeting, American Geophysical Union, Washington, D.C., May 20, 1977.

19. Constable, T.W., McBean, E.A. and Farquhar, G.J., "Probability Distribution of Instream BOD Reflecting Measurement and Periodic Variabilities", presented at 12th Canadian Symposium on Water Pollution Research, Toronto, February 17, 1977.

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17.\*+ McBean, E.A., "Selection of Spatial and Temporal Intensities in Water Quality Sampling", presented at Modelling Workshop, Environment Canada, Winnipeg, Manitoba, November 1976.

16. Hipel, K. and McBean, E.A., "Selection Between Alternative Hydrologic Generating Models", presented at the 57th Annual Meeting, American Geophysical Union, Washington, D.C., April 15, 1976.

15. deLucia, R., McBean, E.A. and Harrington, J., "A Water Quality Planning Model with Multiple Time, Pollutant and Source Capabilities", presented at the 57th Annual Meeting, American Geophysical Union, Washington, D.C., April 15, 1976.

14. Constable, T.W. and McBean, E.A., "Bayesian Model Discrimination and Parameter Estimation for BOD Analyses", presented at the 57th Annual Meeting, American Geophysical Union, Washington, D.C., April 15, 1976.

13. Hodgins, D.B., McBean, E.A. and Wisner, P.E., "A Screening Model for Environmental Evaluation of a System of Reservoirs", presented at the Second CSCE Atlantic Region Hydrotechnical Conference, Amherst, Nova Scotia, February 1976.

12. McBean, E.A. and deLucia, R., "Water Quality Management in the Saint John River Basin", presented at the 11th Canadian Symposium on Water Pollution Research, Canada Centre for Inland Waters, February 5, 1976.

11. McBean, E.A. and Gorrie, J.E., "Non-Point Source Contributions to Water Quality Problems", presented at the Tenth Canadian Symposium on Water Pollution Research, University of Toronto, February 5, 1975.

10. Hipel, K.W., and McBean, E.A., "The Stochastic Effect of Reservoirs on River Flow", presented at 56th Annual Meeting of the American Geophysical Union, Washington, D.C., June 1975

9. McBean, E.A., "Water Reuse - The Quantity, Quality and Land-Use Planning Implications", presented at the Annual Congress of the Engineering Institute of Canada, Toronto, October 1974.

8. Tsou, C.A. and McBean, E.A., "Quantities to Qualities - The State of the Art in Macro Environmental Modelling", presented at the Annual Congress of the Engineering Institute of Canada, Toronto, October 1974.

7. McBean, E.A., "Some Engineering and Operational Aspects of Recycling Urban Wastewater on Land", presented at the Workshop on Research Needs Related to Recycling Urban Wastewater on Land, The Pennsylvania State University, June 1974.

6. McBean, E.A., Gradients in Multi-Objective, Water Resources Planning", presented at the Fifty-Fifth Annual Meeting of the American Geophysical Union, Washington, D.C., April 8-12, 1974.

5. McBean, E.A., "Water Resources Planning - Are the Results Being Biased?", presented at the Annual Congress of the Engineering Institute of Canada, Montreal, October 1-3, 1973.

4.+ deLucia, R., McBean, E.A. and Harrington, J., "System Optimization for Water Quality Management in the Saint John River", presented at the International Symposium on Applications of Computers and Operations Research to Problems of World Concern, Washington, D.C., August 20-22, 1973.

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