

Curriculum Vitae - **Jon A. Arnot, Ph.D.**
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CURRENT POSITIONS

President ARC Arnot Research & Consulting (www.arnotresearch.com)	2010 – present
Adjunct Professor, Department of Physical & Environmental Sciences University of Toronto Scarborough	2012 – present
Adjunct Professor, Department of Pharmacology and Toxicology University of Toronto	2014 – present

POSTDOCTORAL EXPERIENCE

University of Toronto Scarborough	Toronto, ON
Postdoctoral Research Scientist	2011 - 2012
NSERC Postdoctoral Fellow	2009 - 2010
Supervisor: Dr. Frank Wania	

EDUCATION

Trent University Doctor of Philosophy in Environmental and Life Sciences Thesis: Assessing the Exposure, Hazard and Risk of Organic Chemicals Supervisor: Dr. Don Mackay	Peterborough, ON 2008
Simon Fraser University Master of Environmental Toxicology Thesis: Modelling the Bioaccumulation of Organic Chemicals in Aquatic Ecosystems Supervisor: Dr. Frank Gobas	Burnaby, BC 2003
University of Alberta Bachelor of Science Specializing in Cell Biotechnology	Edmonton, AB 1991

RELEVANT PROFESSIONAL EXPERIENCE

Seventeen years of research experience in the development, application and evaluation of methods and models to assess the exposure, hazard, and risk of chemicals to humans and the environment. More than 65 co-authored peer-reviewed publications and more than 50 technical reports for government agencies and the chemical industry.

Coordinator or participant in various workshops and training sessions with competent authorities: Bioaccumulation Assessment (Society of Environmental Toxicology and Chemistry Short Course; European Chemicals Bureau, Joint Research Commission; European Food Safety Authority; European Chemical Industry Council, European Chemicals Agency), Long-Range Chemical Transport Assessment (Pesticide Management Regulatory Agency, Health Canada), Bioaccumulation and Human Exposure Assessment Models, Physical-Chemical Properties (Health Canada and Environment Canada), Exposure and Risk Assessment (NATO Advanced Study Institute, Sofia, Bulgaria).

Committee member on Incorporating 21st Century Science into Risk-Based Evaluations: A Report for the United States National Academies of Sciences Engineering and Medicine (2015-2016) and Canada's Chemicals Management Plan Scientific Committee (2017-2020)

REFEREED PUBLICATIONS (70)

- Schmidt SN, Armitage JM, **Arnot JA**, Mackay D, Mayer P. **2018**. Linking algal growth inhibition to chemical activity: Excess toxicity below 0.1% of saturation. *Chemosphere* 208: 880-886.
- Li L, **Arnot JA**, Wania F. **2018**. Towards a systematic understanding of the dynamic fate of polychlorinated biphenyls in indoor, urban and rural environments. *Environ Int* 117: 57-68.
- Li L, **Arnot JA**, Wania F. **2018**. Revisiting the contributions of far- and near-field routes to aggregate human exposure to polychlorinated biphenyls (PCBs). *Environ Sci Technol* 52(12): 6974-6984.
- Arnot JA**, Pawlowski S, Champ S. **2018**. A weight-of-evidence approach for the bioaccumulation assessment of triclosan in aquatic species. *Sci. Total Environ.* 618: 1506-1518.
- Papa E, Sangion A, **Arnot JA**, Gramatica P. **2018**. Development of human biotransformation QSARs and application for PBT assessment refinement. *Food Chem Toxicol* 112: 535-543
- Arnot JA**, Mackay D. **2018**. The influence of chemical degradation during dietary exposures to fish on biomagnification factors and bioaccumulation factors. *Environmental Science: Processes & Impacts* 20(1): 86 - 97.
- Doucette WJ, Shunthirasingham C, Dettenmaier EM, Zaleski RT, Fantke P, **Arnot JA**. **2018**. A review of measured bioaccumulation data in terrestrial plants for organic chemicals: metrics, variability and the need for standardized measurement protocols. *Environ Toxicol Chem* 37(1): 21-33.
- Mackay D, Celsie AKD, Parnis JM, McCarty LSM, **Arnot JA**, Powell DE. **2017**. The chemical exposure toxicity space (CETS) model: Relating exposure, concentration, activity, and toxicity onset time. *Environ Toxicol Chem* 36(5): 1389-1396.
- Armitage JM, Erickson RJ, Luckenbach T, Ng CA, Prosser RS, **Arnot JA**, Schirmer K, Nichols JW. **2017**. Assessing the bioaccumulation potential of ionizable organic compounds: Current knowledge and research priorities. *Environ Toxicol Chem* 36(4): 882-897
- Chen Y, Hermens JLM, Jonker MTO, **Arnot JA**, Armitage JM, Brown TN, Nichols JW, Fay KA, Droge STJ. **2016**. Which molecular features affect the intrinsic hepatic clearance rate of ionized ionizable organic chemicals in fish? *Environ Sci Technol* 50(23): 12722-12731
- Fantke P, **Arnot JA**, Doucette W. **2016**. Improving plant bioaccumulation science through consistent reporting of experimental data. *J Environ Manage.* 181: 374-384.
- Brown TN, Armitage JM, Egeghy PP, Kircanski I, **Arnot JA**. **2016**. Dermal permeation data and models for the prioritization and screening-level exposure assessment of organic chemicals. *Environ Int* 94: 424-435
- Binnington MJ, Curren MS, Quinn CL, Armitage JM, **Arnot JA**, Chan HM, Wania, F. **2016**. Mechanistic polychlorinated biphenyl exposure modeling of mothers in the Canadian Arctic: the challenge of reliably establishing dietary composition. *Environ Int* 92-93: 256-268
- Mackay D, Celsie AKD, **Arnot JA**, Powell DE. **2016**. Processes influencing chemical biomagnification and trophic magnification factors in aquatic ecosystems: Implications for chemical hazard and risk assessment. *Chemosphere* 154: 99-108
- Thomas P, Mackay D, Mayer P, **Arnot J**, Galay Burgos M. **2016**. Response to Comment on “Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals”. *Environ Sci Technol* 50(7): 4141-4142
- Kim J, Gobas FAPC, **Arnot JA**, Powell DE, Seston RM, Woodburn KB. **2016**. Evaluating the roles of biotransformation, spatial concentration differences, organism home range, and field sampling design on trophic magnification factors. *Sci Total Environ* 551-552: 438-451
- Celsie A, Mackay D, Parnis JM, **Arnot JA**. **2016**. A fugacity-based toxicokinetic model for narcotic organic chemicals in fish. *Environ Toxicol Chem* 35(5): 1257-1267
- Gobas FAPC, Burkhard L, Doucette W, Sappington K, Verbruggen E, Hope B, Bonnell M, **Arnot JA**, Tarazona J. **2016**. Review of existing terrestrial bioaccumulation models and terrestrial bioaccumulation modeling needs for organic chemicals. *Integr Environ Assess Manage* 12(11): 123-134

- Xiao R, **Arnot JA**, MacLeod M. **2015**. Towards an improved understanding of processes controlling absorption efficiency and biomagnification of organic chemicals by fish. *Chemosphere* 138: 89–95
- Thomas PC, Dawick J, Lampi MA, Lemaire P, Presow S, van Egmond R, **Arnot JA**, Mackay D, Mayer P, Galay Burgos M. **2015**. Application of the activity framework for assessing aquatic ecotoxicology data for organic chemicals. *Environ Sci Technol* 49(20): 12289-12296
- Shin H-M, Ernstoff A, **Arnot JA**, Wetmore B, Csiszar S, Fantke P, Zhang X, McKone T, Jolliet O, Bennett D. **2015**. Risk-based high-throughput chemical screening and prioritization using exposure models and in vitro bioactivity assays. *Environ Sci Technol* 49(11): 6760-71
- Arnot JA**, Quinn CL. **2015**. Development and evaluation of a database of dietary bioaccumulation test data for organic chemicals in fish. *Environ Sci Technol* 49(8): 4783-4796
- McLeod AM, **Arnot JA**, Borgå K, Selck H, Kashian D, Krause A, Paterson G, Haffner GD, Drouillard KG. **2015**. Quantifying uncertainty in the trophic magnification factor related to spatial movements of organisms in a food web. *Integr Environ Assess Manage* 11(2): 306-318
- Zhang X, **Arnot JA**, Wania F. **2014**. Model for screening-level assessment of near-field human exposure to neutral organic chemicals released indoors. *Environ Sci Technol* 48(20): 12312–12319
- Armitage JM, Wania F, **Arnot JA**. **2014**. Application of mass balance models and the chemical activity concept to facilitate the use of in vitro toxicity data for risk assessment. *Environ Sci Technol* 48(16): 9770-9779
- Mackay D, McCarty LS, **Arnot JA**. **2014**. Relationships between exposure and dose in aquatic toxicity tests for organic chemicals. *Environ Toxicol Chem* 33(9): 2038-2046
- McLachlan MS, Kierkegaard A, Radke M, Sobek A, Malmvärn A, Alsberg T, **Arnot JA**, Brown TN, Wania F, Breivik K, Xu S. **2014**. Using model-based screening to help discover unknown environmental contaminants. *Environ Sci Technol* 48(13): 7264-7271
- Mackay D, **Arnot JA**, Celsie A, Oraziotti A, Parnis JM. **2014**. QSARs for aquatic toxicity: Celebrating, extending and displaying the pioneering contributions of Ferguson, Konemann and Veith. *SAR QSAR Environ Res* 25(5):343-55
- Arnot JA**, Brown TN, Wania F. **2014**. Estimating screening-level organic chemical half-lives in humans. *Environ Sci Technol* 48(1): 723–730
- Papa E, van der Wal L, **Arnot JA**, Gramatica P. **2014**. Metabolic biotransformation half-lives in fish: QSAR modelling and consensus analysis. *Sci Total Environ* 470–471: 1040–1046
- Krogseth IS, Breivik K, **Arnot JA**, Wania F, Borgen AR, Schlabach M. **2013**. Evaluating the environmental fate of short-chain chlorinated paraffins (SCCPs) in the Nordic environment using a dynamic multimedia model. *Environ Sci: Processes Impacts* 12(15): 2240-2251
- McCarty LS, **Arnot JA**, Mackay D. **2013**. Evaluation of critical body residue data for acute narcosis in aquatic organisms. *Environ Toxicol Chem* 32(10): 2301-14
- Wambaugh JF, Setzer RW, Reif DM, Gangwal S, Mitchell-Blackwood J, **Arnot JA**, Joliet O, Frame A, Rabinowitz J, Knudsen TB, Judson RS, Egeghy P, Vallero D, Cohen Hubal EA. **2013**. High-throughput models for exposure-based chemical prioritization in the ExpoCast project. *Environ Sci Technol* 47 (15): 8479–8488
- Mitchell J, **Arnot JA**, Jolliet O, Georgopoulos PG, Isukapalli S, Dasgupta S, Pandian M, Wambaugh J, Egeghy P, Cohen Hubal EA, Vallero DA. **2013**. Comparison of modeling approaches to prioritize chemicals based on estimates of exposure and exposure potential. *Sci Total Environ*, 458–460: 555-567.
- Mackay D, **Arnot JA**, Gobas FAPC, Powell D. **2013**. Mathematical relationships between metrics of bioaccumulation. *Environ Toxicol Chem* 32(7): 1459-1466
- Nichols JW, Huggett DB, **Arnot JA**, Fitzsimmons PN, Cowan-Ellsberry CE. **2013**. Towards improved models for predicting bioconcentration of well-metabolized compounds by rainbow trout using measured rates of in vitro intrinsic clearance. *Environ Toxicol Chem* 32(7): 1611-1622

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- Armitage JM, **Arnot JA**, Wania F. **2012**. Potential role of phospholipids in determining the internal tissue distribution of perfluoroalkyl acids in biota. *Environ Sci Technol* 46(22): 12285–12286
- Arnot JA**, Brown TN, Wania F, Breivik K, McLachlan MS. **2012**. Prioritizing chemicals and data requirements for screening-level exposure and risk assessment. *Environ Health Persp* 120(11): 1565-1570
- Costanza J, Boethling RS, Lynch DG, **Arnot JA**. **2012**. Use of the bioaccumulation factor to screen chemicals for bioaccumulation potential. *Environ Toxicol Chem* 31(10): 2261-2268
- Brown TN, **Arnot JA**, Wania F. **2012**. Iterative fragment selection: A group contribution approach to predicting fish biotransformation half-lives. *Environ Sci Technol* 46(15): 8253-8260
- Breivik K, **Arnot JA**, Brown TN, McLachlan MS, Wania F. **2012**. Screening organic chemicals in commerce for emissions in the context of environmental and human exposure. *J Environ Monit* 14: 2028-2037
- Gama SR, Mackay D, **Arnot JA**. **2012**. Selecting and designing chemicals: application of a mass balance model of chemical fate, exposure and effects in the environment. *Green Chem* 14:1094-1102
- Burkhard L, **Arnot JA**, Embry M, Farley K, Hoke R, Kitano M, Leslie HA, Lotufo GR, Parkerton TF, Sappington KG, Tomy GT, Woodburn K. **2012**. Comparing laboratory and field measured biota-sediment accumulation factors. *Integr Environ Assess Manage* 8(1): 32-41
- Burkhard L, **Arnot JA**, Embry M, Farley K, Hoke R, Kitano M, Leslie HA, Lotufo GR, Parkerton TF, Sappington KG, Tomy GT, Woodburn K. **2012**. Comparing laboratory and field measured bioaccumulation endpoints. *Integr Environ Assess Manage* 8(1): 17-31
- Marvin CH, Tomy GT, Armitage JM, **Arnot JA**, McCarty LS, Covaci A, Palace V. **2011**. Hexabromocyclododecane: current understanding of chemistry, environmental fate and toxicology and implications for global management. *Environ Sci Technol* 45(20): 8613-8623
- Sverko E, Tomy GT, Reiner EJ, Li Y-F, McCarty BE, **Arnot JA**, Law RJ, Hites RA. **2011**. Dechlorane Plus and related compounds in the environment: a review. *Environ Sci Technol* 45(12): 5088-5098
- Mackay D, **Arnot JA**. **2011**. The application of fugacity and activity to simulating the environmental fate of organic contaminants. *J Chem Eng Data* 56(4): 1348-1355
- Mackay D, **Arnot JA**, Wania F, Bailey RE. **2011**. Chemical activity as an integrating concept in environmental assessment and management of contaminants. *Integr Environ Assess Manage* 7(2): 248-255
- Arnot JA**, Armitage JM, McCarty LS, Wania F, Cousins I, Toose-Reid L. **2011**. Toward a consistent evaluative framework for POP risk characterization. *Environ Sci Technol* 45(1): 97-103 Special Issue on Environmental Policy: Past, Present and Future - Invited
- McLachlan MS, Czub G, MacLeod M, **Arnot JA**. **2011**. Bioaccumulation of organic contaminants in humans: A multimedia perspective and the importance of biotransformation. *Environ Sci Technol* 45(1): 197-202 Special Issue on Environmental Policy: Past, Present and Future
- Arnot JA**, Mackay D, Sutcliffe R, Lo B. **2010**. Estimating farfield organic chemical exposures, intake rates and intake fractions to human age classes. *Environ Modell Softw* 25:1166-1175
- Gobas FAPC, **Arnot JA**. **2010**. Food web bioaccumulation model for polychlorinated biphenyls in San Francisco Bay, California, USA. *Environ Toxicol Chem* 29:1385-1395
- Arnot JA**, Arnot MI, Mackay D, Couillard Y, MacDonald D, Bonnell M, Doyle P. **2010**. Molecular size cut-off criteria for assessing bioaccumulation potential: Fact or fiction? *Integr Environ Assess Manage* 6(2): 210-224
- Arnot JA**, Mackay D, Parkerton TF, Zaleski RT, Warren CS. **2010**. Multimedia modelling of human exposure to chemical substances: the roles of biomagnification and biotransformation. *Environ Toxicol Chem* 29(1): 45-55

- Cowan-Ellsberry C, McLachlan M, **Arnot JA**, MacLeod MJ, McKone TE, Wania F. **2009**. Modeling exposure to persistent chemicals in hazard and risk assessment. *Integr Environ Assess Manage* 5(4): 662-679
- Mackay D, **Arnot JA**, Petkova EP, Wallace KB, Call DJ, Brooke LT, Veith GD. **2009**. The physicochemical basis of QSARs for baseline toxicity. *SAR and QSAR in Environmental Research* 20: 393-414
- Warren CS, Mackay D, Webster E, **Arnot JA**. **2009**. A cautionary note on implications of the well-mixed compartment assumption as applied to mass balance models of chemical fate in flowing systems. *Environ Toxicol Chem* 28(9): 1858-1865
- Arnot JA**, Meylan W, Tunkel J, Howard PH, Mackay D, Bonnell M, Boethling RS. **2009**. A quantitative structure-activity relationship for predicting metabolic biotransformation rates for organic chemicals in fish. *Environ Toxicol Chem* 28(6): 1168-1177 **SETAC Best Student Paper Award**
- Powell A, Mackay D, Webster E, **Arnot JA**. **2009**. Modelling bioaccumulation using characteristic times. *Environ Toxicol Chem* 28(2): 272-278
- Arnot JA**, Mackay D, Parkerton TF, Bonnell M. **2008**. A database of fish biotransformation rates for organic chemicals. *Environ Toxicol Chem* 27(11): 2263-2270
- Arnot JA**, Mackay D. **2008**. Policies for chemical hazard and risk priority setting: can persistence, bioaccumulation, toxicity and quantity information be combined? *Environ Sci Technol* 42: 4648-4654
- Arnot JA**, Mackay D, Bonnell M. **2008**. Estimating metabolic biotransformation rates in fish from laboratory data. *Environ Toxicol Chem* 27(2): 341-351
- Parkerton TF, **Arnot JA**, Weisbrod AV, Russom C, Hoke RA, Woodburn K, Traas T, Bonnell M, Burkhard LP and Lampi, MA. **2008**. Guidance for evaluating in-vivo fish bioaccumulation data. *Integr Environ Assess Manage* 4(2): 139-155
- Weisbrod AV, Burkhard LP, **Arnot JA**, Mekenyan O, Howard PH, Russom C, Boethling R, Sakuratani Y, Traas T, Bridges T, Lutz C, Bonnell M, Woodburn K. **2007**. Workgroup report: review of fish bioaccumulation databases used to identify persistent, bioaccumulative, toxic substances. *Environ Health Persp* 115(2): 255-261
- Arnot JA**, Mackay D, Webster E, Southwood J. **2006**. Screening level risk assessment model for chemical fate and effects in the environment. *Environ Sci Technol* 40: 2316-2323
- Arnot JA**, Gobas FAPC. **2006**. A review of bioconcentration factor (BCF) and bioaccumulation factor (BAF) assessments for organic chemicals in aquatic organisms. *Environ Rev* 14: 257-297
- Arnot JA**, Gobas FAPC. **2004**. A food web bioaccumulation model for organic chemicals in aquatic ecosystems. *Environ Toxicol Chem* 23(10): 2343-2355
- Arnot JA**, Gobas FAPC. **2003**. A generic QSAR for assessing the bioaccumulation potential of organic chemicals in aquatic food webs. *QSAR Comb Sci* 22(3): 337-345
- Gobas FAPC, Kelly BC, **Arnot JA**. **2003**. Quantitative structure-activity relationships for predicting the bioaccumulation of POPs in terrestrial food webs. *QSAR Comb Sci* 22(3): 329-336

MANUSCRIPTS IN REVIEW (5)

- Aylward L, Vilone G, Cowan-Ellsberry C, **Arnot JA**, Westgate JN, O'Mahony C, Hays SM. Exposure to selected preservatives in personal care products: Case study comparison of exposure models and observational biomonitoring data. Submitted to *JESEE*
- Nguyen V, Colacino J, **Arnot JA**, Kvasnicka J, Jolliet O. Age-based and time trends of exposure chemical biomarkers in the US population. Submitted to *Environ Int*
- Li L, Westgate JN, Hughes L, Zhang X, Givehchi B, Toose L, Armitage JM, Wania F, Egeghy P, **Arnot JA**. A model for risk-based screening and prioritization of near-field human exposure to chemicals. Submitted to *Environ Sci Technol*

- Ring C, **Arnot JA**, Bennett D, Egeghy P, Fantke P, Huang L, Isaacs K, Jolliet O, Phillips K, Price P, Shin, H-M, Westgate J, John; Setzer RW, Wambaugh J. Consensus modeling of median chemical intake based on predictions of exposure pathways. Submitted to *Environ Sci Technol*
- Quinn C, Armitage JM, Wania F, **Arnot JA**. Development and evaluation of a combined bioenergetics and organic chemical mass-balance bioaccumulation model for fish. Submitted to *Environ Sci Technol*

MANUSCRIPTS IN PREPARATION (SELECTED)

- Foster KL, Looky AB, Armitage JM, Embry M, Nichols JW, Wetmore B, Sangion A, Papa E, **Arnot JA**. Critical evaluation of an in vitro biotransformation rate database for humans.
- Armitage JM, Gouin T, Toose L, Bonnell M, Hughes D, Romano M, Wania F, Mackay D, **Arnot JA**. Screening-level models for evaluating the potential ecological risks of ionisable organic chemicals.
- Falls A, Toose L, Gouin T, Armitage JM, Bonnell M, **Arnot JA**. Merging monitoring data and models to address uncertainty in exposure assessment.

CHAPTERS IN BOOKS (7)

- Papa E, **Arnot JA**, Sangion A, Gramatica P. **2017**. In silico approaches for the prediction of in vivo biotransformation rates *in* Advances in QSAR modeling: Applications in Pharmaceutical, Chemical, Food, Agricultural and Environmental Sciences, Roy K, Ed. Springer International Publishing p. 640.
- Arnot JA**, Mackay D. **2015**. Fugacity and Bioaccumulation Vignette *in* Fundamentals of Ecotoxicology, Fourth Edition, Newman MC, CRC Press pp. 119-126.
- Gama S, **Arnot JA**, Mackay D. **2012**. Toxic organic chemicals *in* Transport and Fate of Chemicals in the Environment: Selected Entries from the Encyclopedia of Sustainability Science and Technology, Gulliver JS, Ed. Springer pp. 41-63.
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- Mackay D, **Arnot JA**, Webster E, Reid L. **2009**. The evolution and future of environmental fugacity models. Chapter *in* Ecotoxicology Modeling. Devillers J, Ed. Springer pp. 355-375.
- Arnot JA**. **2009**. Mass balance models for chemical fate, bioaccumulation, exposure and risk assessment *in* Exposure and Risk Assessment of Chemical Pollution – Contemporary Methodology. NATO Science for Peace and Security Series C: Environmental Security. Simeonov L and Hassanien M, Eds. Springer pp. 69-91.
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TECHNICAL REPORTS & NON-REFEREED PUBLICATIONS (69)

- Arnot J**, Toose L, Armitage J. **2018**. Generation of physical-chemical property data and the application of models for estimating fate and transport and exposure and risk potential for organic substances on the Canadian DSL. Technical Report prepared for Environment and Climate Change Canada.
- Parmar R, Gouin T, **Arnot J**. **2018**. Compilation of monitoring data from publicly available sources and from data provided by Health Canada. Technical Report prepared for Health Canada.
- Givehchi B, **Arnot J**. **2018**. Qualitative and quantitative comparisons of the RAIDAR-ICE model with other exposure models and exposure estimates for select chemicals. Technical Report prepared for Health Canada.

- Gouin T, Parmar R, **Arnot J. 2018.** Recent developments of non-target chemical analysis: Literature review and recommendations for application in human health risk assessment. Technical Report prepared for Health Canada.
- Arnot J**, Looky A, Foster K, Armitage J. **2018.** Development of an in vitro and in vivo biotransformation and toxicokinetic database for fish and rodents. Technical Report for European Commission - Joint Research Centre (JRC).
- Armitage JM, **Arnot JA. 2017.** Application of Mass Balance Modeling to Facilitate the Interpretation and Evaluation of In Vitro Toxicity Data. Technical Report for American Chemistry Council Long-Range Research Initiative.
- Arnot J**, Armitage J, Escher B, Fischer F, Scholz S, Klüver N, Schmidt S, Mayer P. **2017.** Expanding the Applicability Domain of the Chemical Activity Approach for Hazard and Risk Assessment: Final Report for Cefic-LRI ECO.30 Project.
- National Academies of Sciences Engineering and Medicine. **2017.** Using 21st Century Science to Improve Risk-Related Evaluations. Washington, DC: The National Academies Press.
- Armitage JM, **Arnot JA. 2016.** Progress report on a refined Generic PBPK model. Technical Report for American Chemistry Council Long-Range Research Initiative.
- Armitage JM, **Arnot JA. 2016.** TBBPA Degradation: Scoping Assessment of Available Data. Technical Report prepared for ICL – Industrial Chemicals.
- Westgate JN, Armitage JM, **Arnot JA. 2016.** Multimedia Modeling of Decamethyltetrasiloxane (L4) and Dodecamethylpentasiloxane (L5). Technical Report prepared for American Chemistry Council, Silicones Environmental, Health, and Safety Center (SEHSC).
- Arnot J**, Armitage J, Brown T, Hermens J, Droge S, Jonker M, Chen Y, Mackay D. **2016.** Improving the performance and expanding the applicability of a mechanistic bioconcentration model for ionogenic organic compounds (IOCs) in fish (BIONIC): Final Report for Cefic-LRI ECO.21 Project.
- Arnot J. 2016.** Estimating Bioconcentration Factors for Triclosan using In Vitro Biotransformation Rate Data from Catfish Liver. Technical Report prepared for BASF SE.
- Armitage JM, **Arnot JA. 2015.** Model Development to Support Monitoring Data for Assessing the Bioaccumulation and Biomagnification Potential of Bifenthrin in Terrestrial Environments. Technical Report prepared for FMC Chemical.
- Arnot J. 2015.** A Review of the Bioaccumulation of Triclosan in Fish and Other Species. Technical Report prepared for BASF SE.
- Falls A, **Arnot JA. 2015.** Applying RAIDAR to Address Data Gaps for Assessing the Exposure and Potential Risk of Select Organic Flame Retardants to the Environment. Technical Report for Environment Canada.
- Nichols J, Gobas F, MacLeod M, Borgå K, Leonards P, Papa E, Laue H, **Arnot J. 2015.** Summary of Cefic-LRI Sponsored Workshop: Recent Scientific Developments in Bioaccumulation Research. Workshop Report prepared for Cefic-LRI.
- Arnot JA. 2014.** Bioaccumulation Assessment of Medium Chain Chlorinated Paraffins (MCCPs). Summary Report prepared for The Regulatory Network Inc.
- Armitage JM, Wania F, **Arnot JA. 2014.** Evaluation of long-range transport (LRT) screening tools and models for pre-market assessment of new pesticides. Technical Report prepared for The Environmental Assessment Directorate, Pest Management Regulatory Agency, Health Canada.
- Arnot JA. 2014.** Parameterize and apply the Risk Assessment Identification And Ranking (RAIDAR) model to screen approximately 1370 substances. Technical Report for Environment Canada.
- Arnot JA. 2014.** Preliminary Bioaccumulation Assessment of Additiv 104. Technical Draft Report prepared for BP.
- Arnot J**, Zhang X, Hughes L, Kircanski I. **2014.** Develop Sub-Module for Direct Human Exposures to Consumer Products. Technical Report for United States Environmental Protection Agency.

- MacLeod M, McLachlan MS, Adolfsson-Erici M, **Arnot JA**, Borgå K, Mayer P, Nichols J. **2013**. Tiered Methods for Fish Trophic Magnification Factor (TMF²): Final Report for Cefic-LRI ECO.15 Project.
- Hermens J, Jonker MTO, van der Heijden S, Mayer P, Gilbert D, **Arnot JA**, McCarty LS, Mackay D. **2013**. Critical Body Residue Validation for Aquatic Organisms Exposed to Chemicals Causing Toxicity by Baseline Narcosis: Final Report for Cefic-LRI ECO.16 Project.
- Arnot JA**. **2013**. Comments on Preliminary Bioaccumulation Assessment of Medium Chain Chlorinated Paraffins (MCCPs). Technical Report prepared for The Regulatory Network Inc.
- Arnot JA**, Armitage JM. **2013**. Parameterization and application of the RAIDAR model to aid in the prioritization and assessment of chemical substances. Technical Report for Health Canada.
- Arnot JA**, Brown, TN. **2013**. Developing databases and models for mammalian biotransformation rate and dietary assimilation efficiency for improved bioaccumulation assessment. Technical Report for Environment Canada.
- McLachlan MS, Wania F, Breivik K, **Arnot JA**, Brown TN. **2012**. Development, Application, and Evaluation of Model-Based Screening Procedures for PBT Chemicals and POPs: Final Report for Cefic-LRI ECO.13 Project.
- Arnot JA**. **2012**. A bioaccumulation hazard assessment of three flame retardant alternatives for DecaBDE. Technical Report prepared for ICL Industrial Products Bromine Compounds Ltd.
- Arnot JA**, Armitage J, Gilbert N, Wang J. **2012**. Developing databases and methods to address uncertainty in microbial chemical biodegradation estimates for ecological and human health assessment. Technical Report for Health Canada.
- Arnot JA**, Hughes L, Mackay D. **2012**. Development of a new Health Canada Far-field Human Exposure (FHX-CAN) model including selected regional Canadian environments. Technical Report for Health Canada.
- Arnot JA**. **2012**. Bioaccumulation test method validation: comparative analysis of trout and carp results from an OECD ring test. Technical Report prepared for United Kingdom Environment Agency and included in OECD Series on Testing and Assessment No. 175 [ENV/JM/MONO(2012)20] “Validation Report of a Ring Test for the OECD 305 Dietary Exposure Bioaccumulation Fish Test (Part 1) with Additional Report including Comparative Analysis of Trout and Carp Results (Part II)”.
- Arnot JA**. **2012**. Exploring the fate, bioaccumulation and exposure potential of ionogenic chemicals released to the environment using the RAIDAR model. Technical Report for Unilever.
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- Arnot JA**, Armitage JM. **2011**. Modelling the bioaccumulation of long chain amines (cationic surfactants) in fish. Technical Report for the APAG Companies.
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- Arnot JA**. **2010**. Estimating chemical absorption efficiency from dietary exposures and degradation rate constants in the gastro-intestinal tract. Technical Report for Environment Canada.
- Arnot J**, Armitage J. **2009**. Bioaccumulation and exposure modelling of bifenthrin in aquatic ecosystems. Technical Report for FMC Corporation.
- Arnot J**, Armitage J. **2009**. Application of mass balance models to interpret bifenthrin bioaccumulation data from an Alabama pond field study. Technical Report for FMC Corporation.

- Armitage J, **Arnot J. 2009.** Evaluative assessment of the bioaccumulation potential of bifenthrin (CAS RN 82657-04-3) in a simplified terrestrial food-chain. Technical Report for FMC Corporation.
- Arnot JA, McCarty LS, Armitage J, Toose-Reid L, Wania F, Cousins I. 2009.** An evaluation of hexabromocyclododecane (HBCD) for persistent organic pollutant (POP) properties and the potential for adverse effects in the environment. Technical Report for European Brominated Flame Retardant Industry Panel (EBFRIP).
- McCarty LS, **Arnot JA. 2008.** Ecological risk assessment for pyridalyl. Technical Report for Valent USA Corporation.
- Arnot JA. 2008.** Aquatic exposure estimates for bifenthrin based on four application scenarios. Technical Report for FMC Corporation.
- Arnot JA, Mackay D. 2008.** Estimation of human intake fractions and total body burdens for selected persistent organic pollutants and petrochemicals. Technical Report for ExxonMobil Biomedical Sciences Inc.
- Arnot JA. 2007.** A critical review of proposals for molecular size restrictions in bioaccumulation assessments. Technical Report for Environment Canada.
- Arnot JA, Mackay D. 2007.** Risk prioritization for a subset of Domestic Substances List chemicals using the RAIDAR model. CEMC Report No. 200703. Technical Report for Environment Canada.
- Mackay D, **Arnot JA, Hickie B, Wania F, Webster E. 2007.** Towards a strategy for reviewing substance profiles prepared under Environment Canada's "Challenge" program. Technical Report for Environment Canada.
- Gobas FAPC, Moore MM, Hermens JLM, **Arnot JA. 2006.** Bioaccumulation reality check. SETAC Globe, Learned Discourse 7(5): 40-41.
- Arnot JA, Mackay D, Webster E. 2006.** Health Canada Farfield Model. Technical Report for Health Canada.
- Mackay D, **Arnot JA. 2006.** The toxicity of organic chemicals: does a fugacity perspective help? SETAC Globe, Learned Discourse 7(3): 23-24.
- Arnot JA. 2006.** Bioconcentration factor and bioaccumulation factor assessments for organic chemicals on the Canadian Domestic Substances List: Database update. Technical Report for Environment Canada.
- Arnot JA. 2006.** Estimates of metabolic transformation rates in fish. Technical Report for Environment Canada.
- Arnot JA, Gouin T, Mackay D. 2005.** Practical methods for estimating environmental biodegradation rates. CEMN Report No. 200503. Technical Report for Environment Canada.
- Webster E, Mackay D, Wania F, **Arnot JA, Gobas F, Gouin T, Hubbarde J, Bonnell, M. 2005.** Development and application of models of chemical fate in Canada: modelling guidance document. CEMN Report No. 200501. Technical Report for Environment Canada.
- Arnot JA, Mackay D. 2004.** Proceedings of a workshop on the environmental fate of fluorotelomer-based polymers. Canadian Environmental Modelling Network Report No 200401.
- Arnot JA. 2004.** Recommendations on the bioaccumulation categorization of 502 DSL chemicals. Technical Report for Environment Canada.
- Arnot JA. 2004.** Compilation and quality assessment of bioconcentration and bioaccumulation factors for 502 chemicals for the DSL categorization. Technical Report for Environment Canada.
- Arnot JA. 2004.** Recommendations on the bioaccumulation categorization of 502 DSL chemicals. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2004.** San Francisco Bay PCB food web model. Technical Report for San Francisco Bay Regional Monitoring Program.
- Arnot JA. 2004.** Recommendations on the bioaccumulation categorization of 648 DSL chemicals. Technical Report for Environment Canada.

- Gobas FAPC, **Arnot JA. 2003**. The categorization of organic chemicals on the Domestic Substances List for bioaccumulation potential. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2003**. Identification of Bioconcentration and Bioaccumulation Factors for 8,000 DSL Substances. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2002**. Variability of bioconcentration and bioaccumulation factors with experimental conditions. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2001**. Bioaccumulation categorization of organic chemical substances on the DSL. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2000**. The application of bioaccumulation models for the categorization and screening of chemical substances on the DSL. Technical Report for Environment Canada.
- Gobas FAPC, **Arnot JA. 2000**. Identification of bioconcentration and bioaccumulation factors for DSL substances. Technical Report for Environment Canada.

INVITED PRESENTATIONS OR LECTURES AT NATIONAL AND INTERNATIONAL ORGANIZATION MEETINGS AND WORKSHOPS (44)

- Arnot JA. 2018**. Developing, evaluating and applying evaluative models for human health and ecological risk assessment. Special International Symposium “Fate and Transport of Pollutants in the Environment in Honour of Don Mackay”, 29th Inter-American Congress of Chemical Engineering and the 68th Canadian Chemical Engineering Conference. October 28-21, Toronto, ON.
- Arnot JA. 2018**. Integrating in vitro, in vivo and in silico toxicokinetics data for bioaccumulation and exposure assessment. International Council of Chemical Association’s Long-Range Research Initiative, Health Canada and US Environmental Protection Agency Workshop “Demonstrating 21st Century Methods and Critical Tools for Risk-Based Decisions”, June 20-21, Ottawa, ON.
- Arnot JA. 2017**. Methods, tools and data for 21st century risk-based evaluations. Canadian Consumer Specialty Products Association (CCSPA) Annual Conference, September 19-20, Toronto, ON.
- Arnot JA. 2017**. Framing the technical challenges and opportunities. International Council of Chemical Association’s Long-Range Research Initiative (ICCA-LRI) and Joint Research Centre (JRC) Workshop “Fit-For-Purpose Exposure Assessment into Risk-Based Decision-Making”, June 21-22, Como, Italy.
- Arnot JA. 2017**. Recognizing the important role of exposure models in characterizing risk in the 21st century. ECETOC Workshop “Advances in Exposure Modelling: Bridging the Gap between Research and Application” May 4-5, Brussels, Belgium.
- Armitage JM, **Arnot JA. 2016**. Assessing the fate and transport of ionogenic organic chemicals (IOCs) in aquatic and terrestrial environments. Workshop for Health Canada, March 21, Ottawa, ON.
- Arnot JA, Armitage JM, Embry M, Gouin T, Mackay D. 2015**. Applying models to quantitatively link in vitro bioassay results with chemical exposures to aquatic organisms, SETAC Conference, November 1-5, Salt Lake City, UT.
- Arnot JA. 2015**. Overview of Framework for Environmental Risk Assessment at the SETAC International Programs Committee Application of Weight-of-Evidence (WoE) in Risk-based Ecological Assessment Frameworks Symposium, May 3, Barcelona, Spain.
- Arnot J, Papa E. 2014**. Biotransformation: *In Vivo* and *In Silico*. Presentation at the Cefic-LRI Workshop on Recent Scientific Developments in Bioaccumulation Research at the European Chemicals Agency, September 24, Finland.
- Arnot J, MacLeod M. 2014**. Laboratory Data. Presentation at the Cefic-LRI Workshop on Recent Scientific Developments in Bioaccumulation Research at the European Chemicals Agency, September 24, Helsinki, Finland.

- Gobas FAPC, **Arnot J. 2014.** Technical Background and Rationale. Presentation at the Cefic-LRI Workshop on Recent Scientific Developments in Bioaccumulation Research at the European Chemicals Agency, September 24, Helsinki, Finland.
- Arnot J, Armitage J. 2014.** The role of biotransformation rates in food webs in pesticide bioaccumulation and risk assessment. Presentation at the American Chemical Society National Meeting and Exposition. AGRO: Ecosystem and Human Exposure and Risk Assessment. August 10-14, San Francisco, CA.
- Arnot J, Ernstoff A, Shin HM, Csiszar SA, Fantke P, Zhang X, Jolliet O, Bennett D, Wetmore B. 2014.** Developing and applying high-throughput exposure models for screening-level chemical assessment: The ExpoDat Project. Presentation and panelist at the International Council of Chemical Association's Long-Range Research Initiative (ICCA-LRI) Workshop "What Is Safe? Integrating Multi-Disciplinary Approaches for Decision Making about the Human Health and Environmental Impacts of Chemicals", June 17-18, Lugano, Switzerland.
- Armitage J, Wania F, **Arnot J. 2014.** Long-range transport (LRT) screening tools and models. Workshop prepared for the Pesticide Management Regulatory Agency, Health Canada, March 21, Ottawa, ON.
- Arnot JA. 2014.** Developing, applying and evaluating models for rapid screening of chemical exposures. Presentation and panelist at GlobalChem Conference, March 4, Baltimore, MD
- Arnot JA, Brown TN, Wania F, Breivik K, McLachlan MS. 2013.** Holistic methods for chemical screening and priority setting. Presentation (web-based) for the European Chemicals Agency (ECHA): PBT Expert Group, March 12, Helsinki, Finland.
- Arnot JA. 2012.** Improving mechanistic models for bioaccumulation assessment. Presentation at the HESI Bioaccumulation Project Committee *In Vivo* Experts Workshop. May 17-18, German Federal Environment Agency (UBA), Berlin, Germany.
- Arnot JA, Reid L. 2012.** Mass balance models for assessing chemical fate and exposure. Workshop for the 17th Laurentian SETAC Annual General Meeting & Conference, March 21, Trent University, Peterborough, ON.
- Arnot JA. 2012.** Technical workshop and training session for the new Health Canada Far-field Human Exposure (FHX-CAN) model. Workshop for Health Canada, March 8, Ottawa, ON.
- Arnot JA, Brown T, Papa E, Gramatica P, Dimitrov S, Mekenyan O, Janzen W, Schüürmann G, Meylan B, Howard P. 2011.** A framework to improve *in vivo* biotransformation rate constant estimation. Presentation at the SETAC Conference Special Symposium: "Bioaccumulation – lessons learned and challenges ahead", November 13-17, Boston, MA.
- Armitage J, Wania F, **Arnot J. 2011.** The role of physical-chemical properties in the ecological assessment of organic chemicals. Workshop prepared for Environment Canada, November 3, Gatineau, QC.
- Arnot JA. 2011.** Addressing key data gaps and issues for establishing linkages to high throughput risk assessment (HTRA). Presentation at the Exposure-Based Chemical Prioritization Workshop II: Extending Capabilities for High Throughput Assessment. United States Environmental Protection Agency, September 26-27, Research Triangle Park, NC.
- Mackay D, **Arnot JA. 2011.** Mass balance models of the environmental fate of chemicals and bioaccumulation and human exposure assessment models. Workshop for Health Canada and Environment Canada, February 28-March 1, Ottawa, ON.
- Arnot JA. 2011.** Biotransformation rates and dietary uptake efficiencies: measurements and models. Presentation at the HESI Bioaccumulation Project Committee Workshop "Moving bioaccumulation assessments to the next level: progress made and challenges ahead", February 8-10, Alexandria, VA.
- Arnot JA, Armitage JM. 2011.** Food web bioaccumulation models. Presentation at the European Food Safety Authority (EFSA), February 1, Parma, Italy.

- Arnot JA. 2010.** Methods for organic chemical screening and priority setting. Presentation at the Industry Coordinating Group Canadian Environmental Protection Act Update Conference, May 12-13, Etobicoke, ON.
- Arnot JA. 2010.** Models for organic chemical exposure and risk assessment. Environment Canada and Health Canada, April 1, Gatineau, QC.
- Arnot JA. 2010.** Estimating persistence, bioaccumulation and future directions for exposure-based prioritization. Presentation at the US Environmental Protection Agency Exposure-Based Chemical Prioritization Workshop: Exploring Opportunities for Collaboration, April 6-7, Research Triangle Park, NC.
- Arnot JA, Mackay D, Webster E, Wania F. 2009.** Tracking emissions from indoor sources to tissues using fugacity mass balance models. Presentation and panelist at the International Society of Exposure Science (ISES) Annual Conference, November 1-5, Minneapolis MN.
- Arnot JA, Mackay D, Wania F. 2009.** Multimedia human exposure and pharmacokinetic models for screening assessments. Presentation at the ISES Annual Conference, November 1-5, Minneapolis MN.
- Arnot JA, McCarty LS, Armitage J, Toose-Reid L, Wania F, Cousins I. 2009.** An evaluation of hexabromocyclododecane (HBCD) for persistent organic pollutant (POP) properties and the potential for adverse effects in the environment. Presentation at the United Nations Environment Programme Stockholm Convention Persistent Organic Pollutant Review Committee 5, Contact Group Meeting, October 13, Geneva, Switzerland.
- Arnot JA. 2009.** Holistic mass balance modeling approach for chemical screening and priority setting. Presentation at the US Environmental Protection Agency Exposure Science Community of Practice (ExpoCoP, webinar), July 14.
- Arnot JA, Mackay D, Parkerton TF, Meylan W, Tunkel J, Howard P, Mackay D, Boethling RS, Bonnell M. 2008.** In vivo metabolic biotransformation rate estimation and in silico prediction for organic chemicals in fish. Presentation at SETAC Conference, November 16-20, Tampa Bay, FL.
- Arnot JA. 2008.** A thought starter for chemical prioritization. Presentation at Environment Canada and Health Canada DSL Priority Setting Workshop, June 17-18, Ottawa, ON.
- Arnot JA. 2008.** Lectures and presentations at the NATO Advanced Study Institute on Exposure and Risk Assessment of Chemical Pollution - Contemporary Methodology, as a part of the NATO Science for Peace and Security Series – C: Environmental Security, July 1-10, Sofia, Bulgaria.
- Arnot JA, Mackay D. 2007.** Chemical concentration, activity, fugacity, and toxicity: dynamic implications. Presentation at the International QSAR Foundation McKim Conference, September 24-27, Duluth, MN.
- Gobas FAPC, **Arnot JA. 2006.** Food web bioaccumulation modeling of organic substances. Short Course Workshop at the Society of Environmental Toxicology and Chemistry Conference, November 5-9, Montreal, QC.
- Arnot JA, Gobas FAPC, Bonnell, M. 2006.** BCF and BAF models for organic chemicals in aquatic species. Presentation at the European Chemicals Bureau Training Course on (Q)SARs, July 24-26, Ispra, Italy.
- Arnot JA, Mackay D, Webster E, Southwood J. 2006.** RAIDAR: A screening level risk assessment model for chemical fate and effects in the environment. Presentation at the Organisation for Economic Cooperation and Development (OECD) Workshop on the Application of Models for Identification of POPs, May 31-June 2, Ottawa, ON.
- Arnot JA. 2005.** Bioaccumulation databases, quality assessment and evolution. Presentation at the Industry Coordinating Group for Canadian Environmental Protection Act Meeting, December 2, Mississauga, ON.
- Arnot JA, Gobas FAPC. 2005.** Environment Canada BCF and BAF database. Presentation at the ILSI-HESI Bioaccumulation of Chemicals Subcommittee *In Vivo* Bioaccumulation Database Workshop, November 11-12, Baltimore, MD.

- Arnot JA, Gobas FAPC. 2005.** The BAF-QSAR Model. Presentation at the ILSI-HESI and Procter & Gamble Sponsored Bioaccumulation Workshop, April 12-14, Cincinnati, OH.
- Arnot JA, Mackay D. 2004.** Presentation and panelist at the ComET Farfield Modelling Health Canada's Complex Exposure Tool (ComET), Peer Consultation Workshop for ComET, November 8, Cincinnati, OH.
- Arnot JA, Gobas FAPC. 2002.** A site-specific model for assessing bioaccumulation in aquatic food webs. Presentation at the Aquatic Toxicity Workshop, October 20-24, Whistler, BC.

INVITED PARTICIPANT AT NATIONAL AND INTERNATIONAL WORKSHOPS (13)

- Human Health Scoping & Progress Review Meeting. **2018.** Co-organized by European Centre for Ecotoxicology and Toxicology of Chemicals (ECETOC) and Cefic-LRI, February 1-2, Brussels, Belgium.
- Environment Scoping & Progress Review Meeting. **2018.** Co-organized by European Centre for Ecotoxicology and Toxicology of Chemicals (ECETOC) and Cefic-LRI, January 30-31, Brussels, Belgium.
- Establishment of the Eco-TTC Approach for Environmental Risk Assessment of Chemicals: An International Workshop. **2017.** Organized by HESI, September 18 – 19, Ottawa, ON
- Expert Workshop on Aggregate Exposure Pathway: A Conceptual Framework to Support Exposure Science Research and Complete the Source-to-Outcome Continuum for Risk Assessment. **2016.** Organized by the US Environmental Protection Agency, May 9-11, Research Triangle Park, North Carolina, USA
- Defining the role of chemical activity in environmental risk assessment within the context of mode of action: Practical guidance and advice. **2015.** Co-organized by European Centre for Ecotoxicology and Toxicology of Chemicals (ECETOC) and Research Institute for Fragrance Materials (RIFM), October 29-30, Snowbird Resort, Utah, USA
- What Will Work? Application of New Approaches for Chemical Safety Assessment. **2015.** Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) in collaboration with the United States Environmental Protection Agency (US EPA) June 16-17, New Orleans, USA
- Experts Workshop on the Ecotoxicological Risk Assessment of Ionizable Organic Chemicals. **2014.** Co-sponsored by Environment Canada, SETAC, HESI, and Cefic, November 5-7, Vancouver, BC.
- What Is Safe? Integrating Multi-Disciplinary Approaches for Decision Making about the Human Health and Environmental Impacts of Chemicals. **2014.** Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) and the Joint Research Centre (JRC), June 17-18, Lugano, Switzerland
- What is Normal? Implications for Chemical Safety Assessment. **2013.** Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) and the U.S. National Institutes of Health's National Center for Advancing Translational Sciences (NCATS), June 11-12, Santa Fe, NM.
- Terrestrial Bioaccumulation Workshop. **2013.** ILSI Health and Environmental Sciences Institute (HESI), January 8-10, Miami, FL.
- Advancing Exposure Science to Improve Chemical Safety Workshop. **2011.** Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) and Health Canada, June 22-23, Quebec City, QC.
- Lab-to-Field Bioaccumulation Workshop. **2009.** Co-sponsored by the Health and Environmental Sciences Institute (HESI) and the United States Environmental Protection Agency and SETAC, November 18-19, New Orleans, LA.
- SETAC Pellston Workshop on Science-Based Guidance and Framework for the Evaluation and Identification of PBTs and POPs. **2008.** January 27-February 1, Pensacola, FL.

OTHER PRESENTATIONS (POSTERS, PLATFORMS) (154)

- Arnot JA. 2018.** Evaluating exposure models. Symposium “Consensus Modeling of Chemical Exposure”, ISES-ISEE 2018 Joint Meeting, August 26-30, Ottawa, ON.
- Li L, **Arnot JA**, Wania F. **2018.** Incorporating lifecycle emission information in promoting chemical exposure screening. ISES-ISEE 2018 Joint Meeting, August 26-30, Ottawa, ON.
- Arnot JA**, Li L, Givehchi B. **2018.** Comparisons of the RAIDAR-ICE model with other exposure models and exposure estimates. International Council of Chemical Association’s Long-Range Research Initiative, Health Canada and US Environmental Protection Agency Workshop, June 20-21, Ottawa, ON.
- Armitage JM, **Arnot JA. 2018.** Application of mass balance models to understand the behaviour of organic chemicals in in vitro toxicity tests. International Council of Chemical Association’s Long-Range Research Initiative, Health Canada and US Environmental Protection Agency Workshop, June 20-21, Ottawa, ON.
- Papa E, Sangion A, **Arnot JA**, Gramatica P. **2018.** QSAR prediction of biotransformation half-lives in multiple species and PBT assessment refinement of pharmaceuticals and personal care products. 18th International Conference on QSAR in Environmental and Health Sciences, June 11-15, Bled, Slovenia.
- Foster KL, Looky AB, Armitage JM, Embry M, Sangion A, Papa E, **Arnot JA. 2018.** A human in vitro biotransformation rate database for QSAR model development. 18th International Conference on QSAR in Environmental and Health Sciences, June 11-15, Bled, Slovenia.
- Li L, **Arnot JA**, Wania F. **2018.** Using a dynamic, aggregate exposure model to identify far and near-field contributions to human PCB exposure through time. Society of Environmental Toxicology and Chemistry (SETAC) Europe Meeting, May 13-17, Rome, Italy.
- Papa E, Sangion A, **Arnot JA**, Gramatica P. **2018.** Development of biotransformation half-life QSARs and PBT assessment refinement of pharmaceuticals and personal care products. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Gouin T, Parmar R, **Arnot JA. 2018.** Towards the development of a framework for applying non-target chemical analysis data within exposure and risk assessment. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Armitage JM, **Arnot JA. 2018.** Application of equilibrium and toxicokinetic models to understand the behaviour of organic chemicals in in vitro toxicity tests. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Nguyen V, Colacino J, **Arnot JA**, Kvasnicka J, Jolliet O. **2018.** Age-based and time trends of exposure chemical biomarkers in the US population 1999-2014. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Sangion A, **Arnot JA**, Gramatica P, Papa E. **2018.** A tiered approach for screening chemicals for biomagnification potential in humans. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Foster KL, Looky AB, Armitage JM, Embry M, Nichols JW, Wetmore B, **Arnot JA. 2018.** Critical evaluation of a human in vitro biotransformation rate database: case study of seven chemicals. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Arnot JA**, Westgate J, Hughes L, Li L, Zhang X, Givehchi B, Armitage JM. **2018.** A modelling framework to link aggregate exposure pathways with internal exposures and potential bioactivity. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Arnot JA**, Looky A, Foster KL, Armitage JM, Halder M, Lostia A, Kienzler A. **2018.** A critically evaluated database of in vitro and in vivo toxicokinetic data for mammals and fish. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Schirmer K, **2018.** SETAC Europe Meeting, May 13-17, Rome, Italy., Bramaz N, Bury N, Embry MR, Fitzgerald J, Hogstrand C, Kropf C, Segner H, Stadnicka-Michalak J. **2018.** A tiered testing strategy for rapid estimation of bioaccumulation by a combined modelling - in vitro testing

- approach: derivation of kinetic rate constants in different in vitro models. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Toose L, Armitage JM, Foster KL, Embry M, **Arnot JA. 2018.** The Bioaccumulation Assessment Tool (BAT): A quantitative weight of evidence approach for bioaccumulation assessment. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Kierkegaard A, Chen CL, McLachlan M, Armitage JM, **Arnot JA**, Droge S. **2018.** Measuring bioconcentration of cationic surfactants in fish. SETAC Europe Meeting, May 13-17, Rome, Italy.
- Gouin T, Falls A, Armitage JM, Toose L, Bonnell M, **Arnot JA. 2017.** Applying the RAIDAR model for ecological risk assessment: A case study for 10 organic flame retardants. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Foster KL, Looky AB, Armitage JM, Embry M, **Arnot JA. 2017.** Critical evaluation of an in vitro biotransformation rate database for humans. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Armitage JM, Gouin T, **Arnot JA. 2017.** Simulating the toxicokinetics of organic contaminants in in vitro test systems: When do they matter? SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Otter RR, Beasley A, Embry MR, Allen DK, **Arnot JA**, Bonnell M, Leon Paumen M, Lillicrap A, Salvito D, Valenti T. **2017.** ecodatahub: Big data techniques to create actionable ecotox data. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Toose L, Armitage JM, Foster KL, Embry M, **Arnot JA. 2017.** The Bioaccumulation Assessment Tool: Overview and Case Study Application. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Doucette WJ, Shunthirasingham C, Dettenmaier EM, Fantke P, **Arnot JA. 2017.** Organic chemical uptake in terrestrial plants: experimental variability. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Gouin T, **Arnot JA**, Zidek A. **2017.** Towards the development of a framework for applying non-target chemical analysis data within exposure and risk assessment. SETAC North America Meeting, November 12-16, Minneapolis, MN.
- Arnot J**, Toose L, Armitage J, Gouin T, Falls A, Bonnell M. **2017.** Case study applications of the RAIDAR model for chemical risk assessment. 254th American Chemical Society National Meeting & Exposition, August 20-24, Washington, DC
- Arnot J**, Bury N, Embry M, Hogstrand C, Segner H, Stadnicka-Michalak J, Schirmer K. **2017.** A tiered testing strategy for rapid estimation of bioaccumulation by a combined modelling - in vitro testing approach: Identification of candidate test chemicals. Society of Environmental Toxicology and Chemistry (SETAC) Europe Meeting, May 7-11, Brussels, BE
- Arnot J**, Armitage J, Foster KL, Toose L, Embry M. **2017.** The bioaccumulation assessment tool: An organizational framework for bioaccumulation assessment. SETAC Europe Meeting, May 7-11, Brussels, BE.
- Armitage J, **Arnot J**, Oraziotti A, Gouin T, Brown TN, Celsie A, McCarty LS, Mackay D. **2017.** Expanding the evaluation of the chemical activity hypothesis for toxicity assessment. SETAC Europe Meeting, May 7-11, Brussels, BE.
- Papa E, Sangion A, **Arnot J**, Brown TN, van der Wal L, Gramatica P. **2017.** Prediction of in vivo biotransformation in fish and human for the refinement of bioaccumulation. SETAC Europe Meeting, May 7-11, Brussels, BE.
- Celsie A, Mackay D, Parnis JM, McCarty L, **Arnot J**, Powell D. **2017.** The chemical exposure toxicity space (CETS) model: Relating exposure, concentration, activity and toxicity onset time. SETAC Europe Meeting, May 7-11, Brussels, BE.
- Arnot J.** Development and application of computational tools to support chemical exposure and risk assessment. **2017.** Society of Toxicology (SOT) Annual Meeting March 12-16, Baltimore, MD.

- Arnot J**, Foster KL, Looky AB, Brown TN, Armitage J, Papa E, Wetmore B, Nichols J. Comparisons of in vitro, in vivo and in silico biotransformation rates in fish and humans. **2016**. SETAC North America Annual Meeting, November 6-10, Orlando, FL.
- Arnot J**, Armitage J, Foster KL, Toose L, **2016**. The bioaccumulation assessment tool: An organizational framework for bioaccumulation assessment. SETAC North America Annual Meeting, November 6-10, Orlando, FL.
- Gouin T, Embry M, **Arnot J**. **2016**. Building improved in-vitro exposure assessment capability: Towards the development and implementation of enhanced QIVIVE tools. SETAC North America Annual Meeting, November 6-10, Orlando, FL.
- Arnot J**, Armitage J, Westgate J, Embry M, Gouin T. **2016**. Examining underlying assumptions when translating in vitro bioassay results to in vivo conditions. International Society of Exposure Science (ISES) Meeting, October 9-13, Utrecht, The Netherlands.
- Arnot J**, Foster KL, Looky AB, Brown TN, Armitage J, Papa E, Nichols, J. **2016**. Merging methods, measurements and models to estimate metabolism rates in fish and select mammal species. ISES Meeting, October 9-13, Utrecht, The Netherlands.
- Arnot J**, Westgate J, Hughes L, Zhang X, Armitage J. **2016**. A modelling framework to link aggregate exposure pathways with internal exposures. ISES Meeting, October 9-13, Utrecht, The Netherlands.
- Arnot JA**, Falls A, Armitage JM, Gouin T, Toose L, Bonnell M. Applying the RAIDAR model and the chemical activity approach for ecological risk assessment: A case study for select organic flame retardants. **2016**. SETAC Conference, May 22-26, Nantes, France.
- Arnot J**, Armitage J, Embry M, Gouin T. Examining underlying assumptions when translating in vitro bioassay results to in vivo conditions. **2016**. SETAC Conference, May 22-26, Nantes, France.
- Schmidt SN, Armitage JM, **Arnot JA**, Kusk KO, Mayer P. **2015**. Linking algal growth inhibition to chemical activity. SETAC Conference, November 1-5, Salt Lake City, UT.
- Falls A, Armitage JM, Gouin T, Bonnell M, **Arnot JA**. **2015**. Applying and evaluating the RAIDAR model to address data gaps for chemical exposure assessment: Case study for Dechlorane Plus. SETAC Conference, November 1-5, Salt Lake City, UT.
- Armitage JM, Brown T, Wania F, Mackay D, **Arnot JA**. **2015**. Introducing BIONIC v2: A mechanistic mass balance model for predicting bioconcentration factors (BCFs) of ionizable organic chemicals in fish. SETAC Conference, November 1-5, Salt Lake City, UT.
- Arnot JA**, Falls A, Armitage JM, Gouin T, Bonnell M. **2015**. Applying the RAIDAR model and the chemical activity approach for ecological risk assessment: A case study for select organic flame retardants. SETAC Conference, November 1-5, Salt Lake City, UT.
- Armitage JM, **Arnot JA**, Mackay D. **2015**. Why is chemical activity successful as a metric of aquatic toxicity? A gedankenexperiment explains why. SETAC Conference, November 1-5, Salt Lake City, UT.
- Brown TN, Armitage JM, **Arnot JA**. **2015**. Addressing uncertainty in sub-cooled liquid property estimation: Applications for chemical activity calculations. SETAC Conference, November 1-5, Salt Lake City, UT.
- Pawlowski S, **Arnot JA**, Champ S. **2015**. A bioaccumulation assessment of triclosan (TCS) using a weight of evidence approach. SETAC Conference, November 1-5, Salt Lake City, UT.
- Fantke P, Trapp S, **Arnot JA**, Doucette WJ. **2015**. The role of dissipation processes in plants for modeling bioaccumulation. SETAC Conference, November 1-5, Salt Lake City, UT.
- Jolliet O, Huang L, Csiszar SA, **Arnot J**, Bennett D, Ernstoff AS, Shin H, Wetmore BA. **2015**. Tier 2 high-throughput exposure screening of chemicals in consumer products: chemicals encapsulated in articles and in cosmetics. International Society for Exposure Science (ISES) Exposure 25th Annual Meeting, Exposures in an Evolving Environment, October 18-22, Henderson, NV
- Arnot JA**, Nichols J, MacLeod M, Papa E, Borgå K, Laue H, Leonards P, Gobas F. **2015**. Bioaccumulation assessment: Developing frameworks and finding common ground. SETAC Conference, May 3-7, Barcelona, Spain.

- Papa E, van der Wal L, **Arnot J**, Gramatica P. **2015**. Recent advances in QSAR prediction of fish and human biotransformation half-lives. SETAC Conference, May 3-7, Barcelona, Spain.
- Papa E, van der Wal L, **Arnot J**, Sangion A, Cassani S, Gramatica P. **2015**. Prediction and screening of fish biotransformation half-lives. SETAC Conference, May 3-7, Barcelona, Spain.
- Armitage JM, Brown T, Wania F, Mackay D, **Arnot JA**. **2015**. Expanding the applicability of a mechanistic mass balance model for estimating the bioaccumulation potential of ionizable organic chemicals in fish. SETAC Conference, May 3-7, Barcelona, Spain.
- Brown TN, Armitage JM, **Arnot JA**. **2014**. Exploring fragment-based QSARs to predict the equilibrium partitioning of ionogenic organic chemicals to biologically relevant media. SETAC Conference, November 9-13, Vancouver, BC.
- Armitage JM, **Arnot JA**, Wania F. **2014**. Simulating the bioaccumulation behaviour of the neutral organic chemical hexachlorobenzene and its ionogenic metabolite, pentachlorophenol, in mammals. SETAC Conference, November 9-13, Vancouver, BC.
- Doucette B, Dettenmaier E, Shunthirasingham C, Arnot J. **2014**. A review of measured bioaccumulation data in terrestrial plants for organic chemicals: variability and the need to develop standard protocols. SETAC Conference, November 9-13, Vancouver, BC.
- Arnot J**, Mayer P, Schmidt SN, Armitage J, Gouin T, McCarty LS, Mackay D. **2014**. Chemical activity for integrated chemical assessment. SETAC Conference, November 9-13, Vancouver, BC.
- Arnot JA**, Armitage JM, Gouin T, Toose L, Bonnell M, Hughes D, Romano M, Wania F, Mackay D. **2014**. Exploring the exposure and hazard potential of ionogenic organic chemicals released to the environment. SETAC Conference, November 9-13, Vancouver, BC.
- McCarty LS, Mackay D, **Arnot J**. **2014**. Exposure-Dose Relationships in Aquatic Toxicity: Interaction of Test Design, Modifying Factors, and Dose Surrogates. SETAC Conference, November 9-13, Vancouver, BC.
- Arnot J**, Quinn C. **2014**. Evaluating and applying laboratory dietary bioaccumulation testing data and models for organic chemicals in fish. SETAC Conference, November 9-13, Vancouver, BC.
- Krogseth IS, Breivik K, **Arnot J**, Wania F. **2014**. Screening chemicals in commerce in the Nordic countries using multimedia environmental models – the role of emissions. SETAC Conference, November 9-13, Vancouver, BC.
- Shin HM, Ernstoff A, **Arnot J**, Jolliet O, Wetmore B, Csiszar SA, Fantke P, Zhang X, McKone T, Bennett D. **2014**. Risk-based High-Throughput Chemical Screening and Prioritization Using Exposure Models and in Vitro Bioactivity Assays. SETAC Conference, November 9-13, Vancouver, BC.
- Binnington MJ, Quinn C, Curren MS, Armitage JM, **Arnot J**, Chan HM, Wania F. **2014**. Quantifying the Effect of Permanent Dietary Transitions in the North on Human Exposure to Persistent Organic Pollutants. SETAC Conference, November 9-13, Vancouver, BC.
- Bennett D, Jolliet O, **Arnot J**, Shin HM, Ernstoff A, Csiszar SA, Fantke P, Zhang X, Wetmore B. **2014**. The Long-Range Initiative (LRI) ExpoDat Modeling Case Study. International Society for Exposure Science (ISES) Exposure Science Integration to Protect Ecological Systems, Human Well-Being and Occupational Health, October 12-16, Cincinnati, OH.
- Binnington MJ, Quinn C, Curren MS, Armitage JM, **Arnot J**, Chan HM, Wania F. **2014**. Quantifying the Effect of Permanent Dietary Transitions in the North on Human Exposure to Persistent Organic Pollutants. International Society for Exposure Science (ISES) Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health, October 12-16, Cincinnati, OH.
- Doucette B, Dettenmaier E, Shunthirasingham C, **Arnot J**. **2014**. Terrestrial Plant Bioconcentration Factors for Organic Chemicals: Experimental Values Database. 11th International Phytotechnologies Conference, September 30 – October 3, Heraklion, Crete, Greece.

- Armitage JM, Wania F, **Arnot JA**. 2014. An In Vitro Test System Model to Facilitate the Use of Toxicity and Bioassay Data for Screening-Level Hazard and Risk Assessment. US EPA ToxCast Data Summit, September 29-30, Research Triangle Park, NC.
- Csiszar SA, Ernstoff A, Shin HM, Bennett D, **Arnot J**, Fantke P, Wetmore BA, Zhang Z, Jolliet O. 2014. ExpoDat High-Throughput Exposure Assessment of 229 ToxCast I and II Chemicals: Comparing Near- and Far-field Exposures to in vitro Bioactivities. US EPA ToxCast Data Summit, September 29-30, Research Triangle Park, NC.
- Arnot J**, Mayer P, Schmidt SN, Armitage JM, Gouin T, Mackay D. 2014. Chemical activity for integrated chemical assessment. ICCA-LRI Workshop, June 17-18, Lugano, Switzerland.
- Ernstoff A, Shin HM, Bennett D, **Arnot J**, Wetmore B, Judson R, Dioniso K, Isaacs K, Csiszar SA, Fantke P, Jolliet O. 2014. Flagging health risks of chemicals by combining environmental and consumer product exposure modeling with in vitro bioactivity. SETAC Conference, May 11-15, Basel, Switzerland.
- Xiao R, **Arnot JA**, MacLeod M. 2014. A dynamic multi-compartment fish bioaccumulation model with a focus on dietary chemical absorption. SETAC Conference, May 11-15, Basel, Switzerland.
- Lillicrap A, **Arnot JA**, Borgå K, Embry M. 2014. A tiered strategy for Bioaccumulation assessment. SETAC Conference, May 11-15, Basel, Switzerland.
- Adolfsson-Erici M, Arnot J, McLachlan MS, MacLeod M. 2014. A benchmarking approach to determine biotransformation rate constants for organic chemicals in fish from in-vivo experiments. SETAC Conference, May 11-15, Basel, Switzerland.
- Krogseth IS, Breivik K, **Arnot J**, Wania F. 2014. Screening chemicals in commerce in the Nordic countries using multimedia fate and bioaccumulation models. SETAC Conference, May 11-15, Basel, Switzerland.
- Arnot JA**, Armitage JM, Oraziotti A, Gouin T, Brown TN, McCarty LS, Mackay D. 2013. Expanding the evaluation of the chemical activity hypothesis for toxicity assessment. SETAC Conference, November 17-21, Nashville, TN.
- Armitage JM, **Arnot JA**, Wania F. 2013. Evaluating the performance of a mechanistic screening level model for assessing the bioaccumulation potential of Active Pharmaceutical Ingredients (APIs) in fish. SETAC Conference, November 17-21, Nashville, TN.
- Xiao R, McLachlan MS, MacLeod M, **Arnot JA**. 2013. A kinetic modeling study of sources of variability in measurements of absorption efficiency of chemicals by fish. SETAC Conference, November 17-21, Nashville, TN.
- Zhang X, **Arnot JA**, Wania F. 2013. Screening organic chemicals for human exposure potential in the indoor environment: The roles of chemical properties and biotransformation rates. SETAC Conference, November 17-21, Nashville, TN.
- Binnington MJ, Quinn CL, Curren M, Armitage JM, **Arnot JA**, Chan HM, Wania F. 2013. Quantifying Human Exposure to Persistent Organic Pollutants in the Arctic: Developing New Bioaccumulation Models for Narwhal, Beluga Whale and Caribou. SETAC Conference, November 17-21, Nashville, TN.
- Gobas FAPC, Burkhard L, Doucette B, Sappington K, Verbruggen E, Hope B, Bonnell M, **Arnot JA**. 2013. Terrestrial Bioaccumulation Models for Bioaccumulation Screening and Exposure Assessment: Workshop Summary. SETAC Conference, November 17-21, Nashville, TN.
- Zhang X, **Arnot JA**, Wania F. 2013. Integrating near-field and far-field environmental fate and exposure models for screening-level exposure and risk assessment. ICCE 2013, June 25 - 28, Barcelona, Spain.
- Arnot JA**, Brown TN, Wania F. 2013. Estimating screening-level organic chemical half-lives in humans. What is Normal? Implications for Chemical Safety Assessment. 2013. Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) and the U.S. National Institutes of Health's National Center for Advancing Translational Sciences (NCATS), June 11-12, Santa Fe, NM.

- Arnot JA**, Reid L, Brown TN, Mackay D. **2013**. The role of chemical mode-of-entry and biotransformation on trophic magnification factors in the terrestrial environment. SETAC Conference, May 12-16, Glasgow, Scotland.
- Arnot JA**, Shunthirasingham C, Dettenmaier E, Doucette B, Mackay D. **2013**. Measured plant bioaccumulation data and screening-level models for organic chemicals. SETAC Conference, May 12-16, Glasgow, Scotland.
- McCarty LS, **Arnot JA**, Mackay D. **2013**. Critical body residue validation for aquatic organisms exposed to chemicals causing toxicity by baseline narcosis. SETAC Conference, May 12-16, Glasgow, Scotland.
- Krogseth IS, Breivik K, **Arnot JA**, Schlabach M. **2013**. Evaluating the environmental fate of short-chain chlorinated paraffins (SCCPs) in the Nordic environment using a dynamic multimedia model. SETAC Conference, May 12-16, Glasgow, Scotland.
- Armitage JM, **Arnot JA**, Wania F. **2013**. Modelling the accumulation and internal tissue distribution of PCBs and their hydroxylated metabolites in polar bears (*Ursus maritimus*). SETAC Conference, May 12-16, Glasgow, Scotland.
- MacLeod M, **Arnot JA**, Borga K, McLachlan MS. **2013**. Controls on the Trophic Magnification Factor of organic chemicals in aquatic foodwebs. SETAC Conference, May 12-16, Glasgow, Scotland.
- Kierkegaard AH, McLachlan MS, Breivik K, **Arnot JA**, Wania F. **2013**. Prioritization, screening and identification of organosilicon contaminants in the environment. SETAC Conference, May 12-16, Glasgow, Scotland.
- Arnot JA**, Brown TN, Breivik K, Thomas RS, Wetmore B. **2012**. Combining in vitro toxicity data with QSARs and mass balance exposure models for high throughput risk assessment. SETAC Conference, November 11-15, Long Beach, CA.
- Gobas FAPC, Arblaster J, Wing Ho Luc P, **Arnot JA**. **2012**. Towards ecologically relevant sediment quality criteria. SETAC Conference, November 11-15, Long Beach, CA.
- Mackay D, **Arnot JA**. **2012**. Has the time come to revisit, revise and expand PBT criteria? SETAC Conference, November 11-15, Long Beach, CA.
- Armitage JM, **Arnot JA**, Brown TN, Wania F, Mackay D. **2012**. Prospects and limitations for applying mechanistic bioaccumulation models for ionogenic organic chemicals in aquatic ecosystems. SETAC Conference, November 11-15, Long Beach, CA.
- Arnot JA**, Brown TN, Breivik K, Thomas RS, Wetmore B. **2012**. High throughput exposure screening and critical emission rate simulations. American Chemistry Council Long-Range Research Initiative Workshop: Exposure Determinants for High-Throughput Exposure Assessment, June 14-15, Budapest, Hungary.
- Arnot JA**, Mackay D, McCarty L. **2012**. A tiered modeling approach for simulating toxicokinetics of baseline narcosis in aquatic organisms. SETAC Conference, May 20-24, Berlin, Germany.
- Arnot JA**, Brown TN, Breivik K, Wania F, McLachlan MS. **2012**. Development, application, and evaluation of models for screening organic chemical exposures to humans. SETAC Conference, May 20-24, Berlin, Germany.
- Arnot JA**, Armitage JM, Reid L, Wania F, Mackay D. **2012**. Simulating ionogenic chemical fate, bioaccumulation and exposure with RAIDAR. SETAC Conference, May 20-24, Berlin, Germany.
- Brown TN, **Arnot JA**. **2012**. Prediction of environmental and biological degradation half-lives with quantitative structure-activity relationships. SETAC Conference, May 20-24, Berlin, Germany.
- Brown TN, **Arnot JA**, Wania F. **2011**. Generation of 2D QSARs for properties relevant to chemical prioritization. SETAC Conference, November 13-17, Boston, MA.
- Brown TN, **Arnot JA**, Wania F. **2011**. Evaluating overall degradability of chemicals with QSARs. SETAC Conference, November 13-17, Boston, MA.
- Mackay D, Gobas F, **Arnot JA**. **2011**. Exploiting relationships between metrics of biouptake in fish to improve laboratory to field extrapolation. SETAC Conference, November 13-17, Boston, MA.

- Arnot JA. 2011.** Exposure based prioritization of organic chemicals and data needs using the RAIDAR and FHX models. International Society of Exposure Science (ISES) Conference, US EPA Symposium “Exposure based prioritization of chemicals: A global challenge” October 23-27, Baltimore, MD.
- Hermens J, **Arnot JA**, van der Heijden S, Jonker M, Mackay D, Mayer P, McCarty L. **2011.** The CEFIC ECO16 project: Critical body residue validation for aquatic organisms exposed to chemicals causing toxicity by baseline narcosis. SETAC Conference, May 15-19, Milan, Italy.
- Arnot JA. 2011.** Using exposure models to identify data gaps and develop knowledge infrastructure. SETAC Europe and International Society of Exposure Science (ISES) Joint Special Session “Emerging exposure science for developing chemical regulatory policy: REACH, Biocides, TSCA reform”, SETAC Conference, May 15-19, Milan, Italy.
- Armitage JM, **Arnot JA**, Wania F, Mackay D. **2011.** The development and evaluation of a mass balance bioaccumulation model for ionogenic chemicals in fish. SETAC Conference, May 15-19, Milan, Italy.
- Arnot JA**, Burkhard L, Reid L. **2011.** Applying multimedia models to calculate trophic magnification factors (TMFs): exploring basic assumptions and the role of the physical environment. SETAC Conference, May 15-19, Milan, Italy.
- Malmvärn A, Kierkegaard A, Radke M, Alsberg T, McLachlan MS, **Arnot JA**, Breivik K, Brown T, Wania F. Dicyclohexylamine: Discover of an environmental contaminant using in-silico screening tools. SETAC Conference, May 15-19, Milan, Italy.
- Breivik K, **Arnot JA**, Brown TN, Wania F, McLachlan MS. **2011.** A high-throughput method to screen organic chemicals in commerce for emissions. SETAC Conference, May 15-19, Milan, Italy.
- Arnot JA**, Brown TN, Wania F, McLachlan MS, Breivik K. **2011.** Screening and prioritizing chemicals based on far-field human exposure. SETAC Conference, May 15-19, Milan, Italy.
- Mackay D, Reid L, MacLeod M, **Arnot JA. 2010.** Towards a global source-receptor analysis for persistent organic chemicals. PacificChem Conference, December 15-20, Honolulu, HI.
- Arnot JA**, Burkhard L, Reid L. **2010.** Exploring the use of multimedia fate and bioaccumulation models to calculate trophic magnification factors (TMFs). SETAC Conference, November 7-11, Portland, OR.
- Arnot JA**, Armitage JM, Mitchell GC, Leggett MF, O’Grodnick J, Eickhoff CV, Hardy I. **2010.** Integrating laboratory and field data with mass balance models for bioaccumulation and exposure assessment: A case study with bifenthrin. SETAC Conference, November 7-11, Portland, OR.
- Burkhard L, **Arnot JA**, Embry M, Farley K, Hoke R, Kitano M, Leslie HA, Lotufo G, Parkerton T, Sappington K, Tomy G. **2010.** Comparing laboratory and field measured bioaccumulation endpoints. SETAC Conference, November 7-11, Portland, OR.
- Lee SH, **Arnot JA**, Wania F, Yim BJ, Huh YJ, Kim SD. **2010.** Risk assessment of organic pollutants in the Yeongsan and Seomjin Rivers, South Korea. SETAC Conference, November 7-11, Portland, OR.
- Arnot JA**, Brown TN, Wania F, McLachlan MS, Breivik K. **2010.** Prioritizing chemicals and data requirements for exposure and risk assessment. SETAC Conference, May 23–27, Seville, Spain.
- Mackay D, Reid L, **Arnot JA**, Powell D. **2010.** Where have all the siloxanes gone? Evaluating fate and transport of a "challenging" class of chemical substances using an updated, state of the science Equilibrium Criterion (EQC) model. SETAC Conference, May 23–27, Seville, Spain.
- Brown TN, **Arnot JA**, Wania F. **2010.** Prediction of metabolic biotransformation half-lives using iterative fragment selection (IFS). SETAC Conference, May 23–27, Seville, Spain.
- Papa E, Moccia A, Gramatica P, **Arnot JA**, Mackay D. **2010.** Metabolic biotransformation in fish: A QSAR approach. SETAC Conference, May 23–27, Seville, Spain.
- Burkhard L, **Arnot JA**, Embry M, Farley K, Hoke R, Kitano M, Leslie HA, Lotufo G, Parkerton T, Sappington K, Tomy G. **2010.** Comparison of laboratory and field measured bioaccumulation endpoints. SETAC Conference, May 23–27, Seville, Spain.

- Breivik K, Arnot JA, Brown TN, Wania F, McLachlan MS. **2010**. Screening organic chemicals in commerce for emissions. SETAC Conference, May 23–27, Seville, Spain.
- Arnot J**, Brown T, Wania F, McLachlan M, Breivik K. **2009**. QSARs and mass balance models for screening level exposure and risk assessment. SETAC Conference, November 19–23, New Orleans, LA.
- Mackay D, **Arnot JA**. **2009**. Can the combination of Lewis’s fugacity, Ferguson’s activity hypothesis and Lipnick’s excess toxicity form the basis of a new generation of multi-media environmental QSARs? SETAC Conference, November 19–23, New Orleans, LA.
- Burkhard L, Hoke R, **Arnot J**, Lotufo G, Parkerton T, Sappington K. **2009**. Comparison of laboratory measured BCFs, BMFs, and BSAFs to field measured BAFs, BMFs, and BSAFs. SETAC Conference, November 19–23, New Orleans, LA.
- Mekenyan O, Dimitrov S, Dimitrova N, **Arnot J**, Bonnell M, Parkerton T. **2009**. QSAR model for predicting rate of metabolism in fish. SETAC Conference, November 19–23, New Orleans, LA.
- Arnot JA**, Brown T, Wania F, McLachlan M, Breivik K. **2009**. Screening organic chemical inventories for human exposure potential. 12th EuCheMS International Conference on Chemistry and the Environment (ICCE), June 14-17, Stockholm, Sweden.
- Arnot JA**, Mackay D. **2008**. Do current chemical assessment methods effectively identify chemicals of greatest concern?: implications and importance to REACH. SETAC Conference, November 16-20, Tampa Bay, FL.
- Mackay D, Reid L, **Arnot JA** **2008**. Global scale modeling of contaminant transport: the role of the Distant Residence Time concept. SETAC Conference, November 16-20, Tampa Bay, FL.
- Arnot JA**, Mackay D, Parkerton TF, Zaleski RT, Warren CS. **2008**. The influence of biomagnification and biotransformation on exposure assessments in a regional environment. SETAC Conference, November 16-20, Tampa Bay, FL.
- McLachlan M, Czub G, MacLeod M, **Arnot J**. **2008**. Overall bioaccumulation from a multimedia perspective – What is the relative importance of partitioning properties and metabolic biotransformation? SETAC Conference, November 16-20, Tampa Bay, FL.
- McLachlan M, **Arnot J**, MacLeod M, McKone T, Wania F, Cowan-Ellsberry CE. **2008**. Using fate and exposure models in the evaluation of potential POPs. SETAC Conference, November 16-20, Tampa Bay, FL.
- McCarty LS, **Arnot JA**. **2008**. Ecological risk assessment for pyridalyl. Presentation to FIFRA SAP on Selected Issues Associated with the Risk Assessment Process for Pesticides with P, B, and T Characteristics, October 28-31, Washington, DC.
- MacLeod MJ, **Arnot J**, McLachlan M, Wania F. **2008**. Tracking the sources, transport, and fate of persistent pollutants at regional, continental, and global scales. International Society of Environmental Epidemiology and International Society of Exposure Analysis (ISEE and ISEA) Joint Annual Conference, October 12-16, Pasadena, CA.
- McKone TE, **Arnot J**, Sohn M, Vallero D. **2008**. Characterizing source-to-dose relationships for persistent pollutants. ISEE and ISEA Joint Annual Conference, October 12-16, Pasadena, CA.
- Cowan-Ellsberry CE, McKone TE, Vallero D, McLachlan M, MacLeod MJ, Wania, F, **Arnot, J**. **2008**. The role of models in an international framework for characterizing persistence, long-range transport and exposure for POPs. ISEE and ISEA Joint Annual Conference, October 12-16, Pasadena, CA.
- Arnot JA**, Meylan W, Tunkel J, Howard P, Mackay D, Boethling RS, Bonnell M. **2008**. Predicting metabolic biotransformation rates for fish. QSAR Conference 2008, June 8-12, Syracuse, NY.
- Arnot JA**, Mackay D. **2008**. Combining persistence, bioaccumulation, toxicity and quantity information for hazard and risk assessment. QSAR Conference 2008, June 8-12, Syracuse, NY.
- Leggett MF, **Arnot JA**, Fay D, Rose A, Miyamoto M. **2008**. Aquatic risk of plant protection products with low solubility. 4th Pan Pacific Conference on Pesticide Science, June 1-4, Honolulu, HI.
- Arnot JA**, Mackay D, Bonnell, M. **2007**. Estimating metabolic biotransformation rates in fish from laboratory data. SETAC Conference, November 11-15, Milwaukee, WI.

- Mackay D, Webster E, Hubbarde JE, **Arnot JA. 2007.** Towards a credible model of chemical bioaccumulation in plants. SETAC Conference, November 11-15, Milwaukee, WI.
- Arnot JA, Gobas FAPC, Mackay D, Bonnell M. 2006.** A tiered method to assess the bioaccumulation of organic chemicals in aquatic systems. SETAC Conference, November 5-9, Montreal, QC.
- Arnot JA, Mackay D, Webster E, Southwood J. 2006.** RAIDAR: A modelling approach to assess risk and uncertainty of organic chemicals released to the environment. SETAC Conference, November 5-9, Montreal, QC.
- Mackay D, **Arnot JA, Powell A. 2006.** Understanding and displaying bioaccumulation and biomagnification in organisms and food webs. SETAC Conference, November 5-9, Montreal, QC.
- Bonnell M, **Arnot JA. 2006.** Effect of fish biotransformation rate on the bioaccumulation and biomagnification potential of substances regulated under CEPA: Case studies from wildlife risk assessment. SETAC Conference, November 5-9, Montreal, QC.
- Mackay D, **Arnot JA, Webster E. 2006.** Evaluating potential PBT substances: The Fractional Approach to Toxic Effects (FATE) model. American Chemical Society National Meeting, September 10-14, San Francisco, CA.
- Gobas FAPC, **Arnot JA. 2006.** Assessing B(ioaccumulation) of commercial chemicals. American Chemical Society National Meeting, September 10-14, San Francisco, CA.
- Bonnell M, Robinson P, Davidson N, **Arnot JA, Gobas FAPC. 2006.** Canadian bioaccumulation experience from the assessment of substances under CEPA. HESI/JRC/SETAC Europe Workshop on Bioaccumulation Assessments, May 5-6, Brussels, Belgium.
- Gobas FAPC, **Arnot JA. 2006.** Lessons learned from the evaluation of bioconcentration and bioaccumulation factors of commercial chemicals. ILSI-HESI Meeting.
- Arnot JA, Mackay D, Webster E, Southwood J. 2005.** Screening level risk assessment model for chemical fate and effects in the environment. SETAC Conference, November 13-18, Baltimore, MD.
- Mackay D, **Arnot JA. 2005.** Paracelsus got it wrong: fugacity makes the poison. SETAC Conference, November 13-18, Baltimore, MD.
- Arnot JA, Mackay D, Toose-Reid L, Macleod M. 2005.** Modelling the long-range transport of contaminants to the arctic: a contribution to international negotiations on POPs. Northern Contaminants Program Results Workshop, September 27-29, Victoria, BC.
- Arnot JA, Mackay D, Toose-Reid L, Ponce-Hernandez R. 2005.** Towards a BETR-Africa: fate and risk assessment of persistent organic pollutants originating in Africa at local, regional and global scales. Dioxin Conference, August 21-26, Toronto, ON.
- Arnot JA, Gobas FAPC. 2004.** Application of a food web bioaccumulation model as an ecosystem approach to sediment target levels: a case study for PCBs in SFB. Fourth SETAC World Congress, November 13-18, Portland, OR.
- Arnot JA, Gobas FAPC. 2002.** A QSAR for categorizing the bioaccumulation potential of organic chemicals in aquatic food chains QSAR Conference, May 25-29, Ottawa, ON.
- Arnot JA, Gobas FAPC. 2001.** Evaluation of QSAR and simulation models for the screening of potentially bioaccumulative substances. SETAC Conference, May 6-10, Madrid, Spain.

SUCCESSFUL GRANT AND RESEARCH FUNDING (44)

- American Chemistry Council Long-Range Research Initiative (ACC-LRI): Applying 21st Century Science for Risk-Based Chemical Assessments (2018 – 2020). **Principal investigator**
- Global Silicones Council. Comparison of PBT vs. holistic methods for chemical prioritization and screening assessment (2018 – 2019). **Principal investigator**
- European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 44: Integrating Bioaccumulation Assessment Tools for Mammals (2018 – 2019). **Principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 41: Improved characterization of partitioning and biotransformation for screening organic compounds for the potential to bioaccumulate in air-breathing species (2018 – 2020). **Co-applicant**

Environment Canada: Generation of physical-chemical property data and the application of models for estimating fate and transport and exposure and risk potential for organic substances on the Canadian DSL (2017 – 2018). **Principal investigator**

Health Canada: Advances in Exposure Methodology, through standing offer reference number: 4600001172 with Summit Toxicology (2017 – 2018).

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 37: D-BASS: Developing a bioaccumulation assessment strategy for surfactants (2017 – 2019). **Co-applicant**

European Commission - Joint Research Centre (JRC): Developing databases of in vitro and in vivo biotransformation rates in fish and mammalian species (2016 – 2018). **Principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 34: A tiered testing strategy for rapid estimation of bioaccumulation by a combined modelling - in vitro testing approach (2016 – 2019). **Co-applicant**

American Chemistry Council Long-Range Research Initiative (ACC-LRI): Improving exposure models and integrating exposure and risk information for high-throughput chemical screening (prioritization) and higher tiered assessments (2015 – 2018). **Principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 30: Expanding the applicability domain of the chemical activity approach for hazard and risk assessment (2015 – 2017). **Principal investigator**

The Research Council of Norway: Climatic, abiotic and biotic drivers of mercury in freshwater fish in northern ecosystems (Climer) (Researcher project – OKOSYSTEM, 2015 – 2018). **Co-applicant**

U.S. Environmental Protection Agency: Enhance and Integrate RAIDAR-ICE Near-Field Human Exposure Model (2014 – 2015). **Principal investigator**

Environment Canada: Calibration of the RAIDAR model to determine environmental exposure concentrations from monitoring data (2015). **Principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 21: Improving the performance and expanding the applicability of a mechanistic bioconcentration model for ionogenic organic compounds (IOCs) in fish (BIONIC) (2013 – 2015). **Principal investigator**

U.S. Environmental Protection Agency: Expanding the RAIDAR model framework for consumer product exposures (2012 – 2013). **Principal investigator**

Unilever: Expanding the evaluation of the chemical activity hypothesis for toxicity and risk assessment (2012 – 2014). **Principal investigator**

Northern Contaminants Program (NCP): Quantifying the effect of transient and permanent dietary transitions in the north on human exposure to persistent organic pollutants (2012 – 2014). **Co-applicant**

American Chemistry Council Long-Range Research Initiative (ACC-LRI): Developing, applying and evaluating models for screening level chemical exposure and risk assessment (2012 – 2015). **Principal investigator**

International Life Sciences Institute - Health and Environmental Sciences Institute (ILSI – HESI): Update of laboratory BCF and BMF databases for fish and calibration/verification of improved mechanistic models for bioaccumulation assessment (2012 – 2013). **Principal investigator**

Environment Canada: Developing databases and models for mammalian biotransformation rate and dietary assimilation efficiency for improved bioaccumulation assessment (2012 – 2013). **Principal investigator**

Health Canada: Developing and applying methods to reduce uncertainty in chemical biodegradation rate estimates for ecological and human health assessment (2012). **Principal investigator**

The Research Council of Norway, Leiv Eiriksson Mobility Grant: Merging food web contaminant empirical and modeling expertise - Visiting Researcher Dr. Jon Arnot (2012). **Co-applicant**

Stockholm University: Grant for Internationally Renowned Visiting Scientists and Postdocs (2012).

Co-applicant

Health Canada: Development of a new Health Canada Far-field Human Exposure (FHX-CAN) model including selected regional Canadian environments (2011 – 2012). **Principal investigator**

ExxonMobil Biomedical Sciences Inc.: Exploring the role of plant biotransformation on human exposure to organic chemicals (2011 – 2013). **Principal investigator**

Health Canada and Environment Canada: Development, evaluation and application of novel methods for exposure and risk assessment for ‘problematic’ CMP substances (2011 – 2014). **Co-applicant**

Unilever: Exploring the fate, bioaccumulation and exposure potential of ionogenic chemicals released to the environment using the RAIDAR model (2011 – 2012). **Principal investigator**

Health Canada: Model updates and work to aid in the prioritization and assessments of chemicals including ionisable substances (2010 – 2011). **Co-principal investigator**

U.S. Environmental Protection Agency: Rapid exposure-based prioritization of environmental chemicals (2010 – 2011). **Principal investigator**

Northern Contaminants Program (NCP): Bioaccumulation modelling of current use pesticides and new organohalogenes in Arctic marine and terrestrial food webs (2010 – 2011). **Co-principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 16: Generate a validated CBB database and validate a CBB chronic toxicity range for narcotics (2010 – 2013).

Co-applicant

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 15: Rapid estimation of trophic magnification factor (TMF) using laboratory, field and computer modelling methods in aquatic organisms (2010 – 2013). **Co-applicant**

European Oleochemicals and Allied Products Group (APAG): Assessing the bioaccumulation potential of long chain amines (cationic surfactants) in fish (2010 – 2011). **Principal investigator**

Environment Canada: Revising models for estimating chemical dietary uptake efficiency in fish (2009 – 2010). **Principal investigator**

European Chemical Industry Council Long-range Research Initiative (Cefic-LRI) ECO 13: Applying and verifying PBT/POP models through comprehensive screening of chemicals (2009 – 2012).

Co-applicant

European Brominated Flame Retardant Industry Panel (EBFRIP): Systematic scientific evaluation of HBCD for Persistent Organic Pollutant (POP) properties according to the UNEP Stockholm Convention criteria and comparison with existing classified POPs (2009 – 2010). **Principal investigator**

Health Canada and Environment Canada: Screening Chemical Management Plan chemicals to identify those with the greatest exposure potential to humans and wildlife (2008 – 2011). **Co-applicant**

Canadian Environmental Protection Act Industry Coordinating Group: Postdoctoral Research Grant (2008). **Principal investigator**

International Life Sciences Institute - Health and Environmental Sciences Institute (ILSI – HESI): Funding to support the development of a QSAR model to predict biotransformation rates of organic chemicals in fish (2008). **Principal investigator**

Environment Canada: A critical evaluation of the limitations and uncertainties associated with the use of molecular size information when evaluating the bioaccumulation of substances (2007).

Principal investigator

Environment Canada: Develop and evaluate a method to calculate probability distributions for rates of organic chemical biotransformation by fishes (2007). **Co-principal investigator**

ExxonMobil Biomedical Sciences Inc.: Development of a model to estimate human intake fractions and compare results with estimates calculated by the European Union System for the Evaluation of Substances (2006 – 2007). **Co-applicant**

Environment Canada: Development of methods to estimate environmentally relevant biodegradation rates for organic chemicals (2006). **Co-applicant**

SCHOLARSHIPS AND AWARDS

NSERC Postdoctoral Fellowship	2009 – 2010
SETAC Best Student Paper Award	2009
Trent University President's Medal: best academic record, Ph.D. (Science)	2009
James M. McKim III Innovative Student Research Award	2008
NSERC Postgraduate Scholarship	2005 – 2008
Trent University Research Fellowship	2005

SERVICES, MEMBERSHIPS AND ACADEMIC ASSOCIATIONS

- Canada's Chemical Management Plan Scientific Committee (Member: 2017 – present)
- Society of Toxicology (Member: 2017 – present)
- American Chemical Society (Member: 2017 – present)
- HESI RISK21 Scientific Advisory Board (Member: 2017 – present)
- National Academy of Sciences Committee Member: Incorporating 21st Century Science into Risk-Based Evaluations (2015 – 2016)
- International Society of Exposure Science (Member: 2010 – present)
- Society of Environmental Toxicology and Chemistry Bioaccumulation Science Advisory Group (Member: 2006 - present; Co-chair: 2014 – 2017)
- Green Party of Canada (Member: 2006 – 2017)
- HESI Bioaccumulation Workgroup (Member: 2005 – present)
- Society of Environmental Toxicology and Chemistry (Member: 2001 – present)

PEER-REVIEWER (JOURNALS)

- AIMS Environmental Science
- Atmospheric Environment
- Bulletin of Environmental Contamination and Toxicology
- Chemosphere
- Critical Research in Toxicology
- Ecotoxicology and Environmental Safety
- Environment International
- Environmental Health Perspectives
- Environmental Modelling & Software
- Environmental Pollution
- Environmental Research
- Environmental Science & Policy
- Environmental Science & Technology
- Environmental Toxicology & Chemistry
- Human and Ecological Risk Assessment
- Journal of Environmental Management
- Journal of Exposure Science & Environmental Epidemiology
- Journal of Great Lakes Research
- Journal of Hazardous Materials
- Journal of Toxicology
- Oecologia

- SAR and QSAR in Environmental Research
- Science of the Total Environment
- Toxicology and Applied Pharmacology
- Water Research

PEER-REVIEWER (GOVERNMENT AGENCIES)

- Health Canada
- Environment and Climate Change Canada
- Aboriginal Affairs and Northern Development Canada
- Ontario Centre for Excellence
- Swiss Brazilian Scientific and Technology Cooperation Program

CONFERENCE CO-CHAIR

- Differing biotransformation capacity across species: measurements, modeling and implications for decision-making (SETAC North America Conference, November 6-10, 2016, Orlando, FL)
- Measuring and estimating bioavailability: Linking exposures to effects for improved ecological risk assessment (SETAC North America Conference, November 6-10, 2016, Orlando, FL)
- Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to quantify exposure-response relationships for risk assessment (International Society of Exposure Science Conference, October 9-15, 2016 Utrecht, The Netherlands)
- Quantitative in vitro to in vivo extrapolation (QIVIVE): Advances in tools to link external and internal exposures for applications in risk assessment (SETAC Europe Conference, May 22-26, 2016, Nantes, France)
- Building a weight of evidence for bioaccumulation assessment (SETAC North America Conference, November 1-5, 2015, Salt Lake City, UT)
- Recent scientific developments in bioaccumulation research and assessment (SETAC Europe Conference, May 3-7, 2015, Barcelona, Spain)
- Bioaccumulation: Science & regulation (SETAC North America Conference, November 9-13, 2014, Vancouver, BC, Canada)
- Advances in exposure-science research and technology: expanding the integration among multiple disciplines (SETAC Europe and ISES Joint Special Session “Emerging exposure science for developing chemical regulatory policy: REACH, Biocides, TSCA reform” SETAC Europe Conference, May 15-19, 2011, Milan, Italy)
- From molecular structure to properties and toxicity. In honor of Dr. Bob Lipnick (SETAC North America Conference, November 19-23, 2009, New Orleans, LA, USA)

ORGANIZING COMMITTEE MEMBER (WORKSHOPS, CONFERENCES, SYMPOSIA)

- How Can Fit-For-Purpose Exposure Assessments Best Be Integrated Into Risk-Based Decision Making? Co-organized by International Council of Chemical Associations’ Long-Range Research Initiative (ICCA-LRI) in collaboration with the Joint Research Centre (JRC) June 21-22, 2017, Como, Italy
- Advances in Exposure Modelling: Bridging the Gap between Research and Application. Organized by European Centre for Ecotoxicology and Toxicology of Chemicals (ECETOC) May 4-5, 2017, Brussels, Belgium
- What Will Work? Application of New Approaches for Chemical Safety Assessment. Co-organized by International Council of Chemical Associations’ Long-Range Research Initiative

(ICCA-LRI) in collaboration with the United States Environmental Protection Agency (US EPA) June 16-17, 2015, New Orleans, USA

- SETAC International Programs Committee Symposium: Application of Weight-of-Evidence (WOE) in Risk-Based Ecological Assessment Frameworks (May 3, 2015, Barcelona, Spain)
- Cefic-LRI Workshop on Recent Scientific Developments in Bioaccumulation Research (September 24, 2014, European Chemicals Agency, Helsinki, Finland)
- What Is Safe? Integrating Multi-Disciplinary Approaches for Decision Making about the Human Health and Environmental Impacts of Chemicals. Co-organized by International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) and the Joint Research Centre (JRC), June 17-18, 2014 Lugano, Switzerland

LECTURES

- Advanced Seminar in Environmental Science (EES1100)
- Interdisciplinary Toxicology (PCL473)
- Environmental Chemistry (CHMB55)
- Modelling the Fate of Organic Chemicals in the Environment (CHMD59/CHM1425/EES1121)
- Applications of Modelling in the Natural and Social Sciences (AMOD5610)
- Pollution Ecology (ERSC355)
- Current Issues in Environmental Science and Policy (ERSC/T395)