

KEITH R SOLOMON *CURRICULUM VITAE*

March 2012

1 PERSONAL INFORMATION

LAST NAME: Solomon
FIRST NAMES: Keith Ross
BORN: 1944-12-11, Cape Town, South Africa.

Professor Emeritus, School of Environmental Sciences and Director, Centre for Toxicology, 2120 Bovey Building, Gordon Street, University of Guelph, Guelph, ON, N1G 2W1, Canada
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STATUS: University Professor Emeritus and Adjunct Graduate Faculty
CITIZENSHIP: Canadian

2 EDUCATION

DEGREE	DEPARTMENT	UNIVERSITY	YEAR/MONTH
Ph.D.	Entomology	University of Illinois	1973/11
M.S.	Entomology	University of Illinois	1972/07
M.Sc.	Zoology	Rhodes University	1971/02
B.Sc.(Hons)	Zoology	Rhodes University	1967/02
B.Sc.	Zoology/Chemistry	Rhodes University	1966/02

3 EXPERIENCE

POSITION	LOCATION	YEAR/MONTH
Professor Emeritus and Associate Graduate Faculty	School of Environmental Sciences, University of Guelph	2010/01-present
Director	Centre for Toxicology, University of Guelph	1992/05-present
Assoc. Director	Canadian Centre for Toxicology, Guelph	1984/01-1992/05
Full Professor	School of Environmental Sciences, University of Guelph	1989/09-2009/31
Associate Professor	Environmental Biology, University of Guelph	1982/09-1989/09
Assistant Professor	Environmental Biology, University of Guelph	1978/08-1982/09
Entomologist/Toxicologist	Tick Control Unit, Vet. Research Institute, S. Africa	1977/07-1978/07
Insect Toxicologist	Biochemistry Div., National Chem. Research Lab, C.S.I.R.	1974/12-1977/06
Biological Chemist	Biochemistry Div., National Chem. Research Lab, C.S.I.R.	1968/01-1970/01
Biological Chemist	Tick Control Unit, Vet. Research Institute, S. Africa	1967/01-1968/01

4 SCHOLARLY AND PROFESSIONAL ACTIVITIES

ROLE	ORGANIZATION	DATE
Co-Chairman	Aquatic Toxicity Workshop Organizing Committee.	1981
Program Co-Chair	14 th Annual Aquatic Toxicity Workshop.	1987
Co-Editor	Proceedings of the 14 th Annual Aquatic Toxicity Workshop.	1988

ROLE	ORGANIZATION	DATE
Member Board of Directors	North Eastern North American Chapter of the Society of Environmental Toxicology and Chemistry (SETAC).	1986-1989
Program Chair	SETAC.	1985-1986
Publications & Educ. Comm.	SETAC.	1986-1989
Secretary/Treasurer	SETAC.	1986-1989
Co-Convenor	Environmental Toxicology Session at the IUPAC Congress of Pesticide Chemistry, Ottawa.	1986
Co-Convenor	Toxicology session at the XVIII World Congress of Entomology, Vancouver.	1988
Member	Organizing Committee, SETAC '89.	1988-1989
Associate Member	IUPAC Water Chemistry Commission	1991-1993
Member Steering Committee	Aquatic Toxicity Workshop	1980-2001
Associate	Institute of Environmental Studies University of Toronto.	1986-1994

5 SCIENTIFIC MEETINGS

ROLE (last 3 years only)	ORGANIZATION	DATE
Session co-chair	SETAC Europe Meeting, Sevilla, Spain	May 23 – 27 2010
Session co-chair	SETAC Europe Meeting, Göteborg, Sweden	May 31 – Jun 4, 2009
Session co-chair	SETAC World Meeting, Sydney, Australia	Aug 1-6, 2008

6 SCIENTIFIC SOCIETIES

American Association for the Advancement of Science
 American Chemical Society (Agrochemicals and Environmental Divisions)
 Aquatic Toxicity Workshop.
 Society of Environmental Toxicology and Chemistry (SETAC).
 Laurentian Chapter of SETAC.

7 AWARDS AND HONORS

Society for Society for Environmental Toxicology and Chemistry (SETAC) Founders Award, November 2006.
 Society for Environmental Toxicology and Chemistry (SETAC) Europe Award for Environmental Education, May 2006.
 American Chemical Society International Award for Research in Agrochemicals. Agrochemicals Division of the American Chemical Society, April, 2002.
 HERA Ecological Risk Assessment Paper of the Year 2001. Presented by the Editorial Board of HERA for the paper Solomon KR, Giesy JP, Kendall RJ, Best LB, Coats JR, Dixon KR, Hooper MJ, Kenaga EE, McMurry ST. 2001. Chlorpyrifos: ecotoxicological risk assessment for birds and mammals in corn agroecosystems. Human and Ecological Risk Assessment 7:497-632.
 Watkins Visiting Professor, Wichita State University, Wichita, Kansas. February 19-22, 1996
 Society for Environmental Toxicology and Chemistry (SETAC) North America Award for Environmental Education. November, 1993

8 POST-DOCTORAL FELLOWS AND RESEARCH ASSOCIATES

J. Bestari (1995-01 to present)
 H. Sanderson (2003-09 to 2005-09)
 S. Richards (2001-09 to 2003-09)
 P. Sibley
 R. Robinson
 R. Gensemer
 M. Sharom

9 GRADUATE STUDENT SUPERVISION

9.1 AS SUPERVISOR

	NAME	YEAR	SUBJECT
M.Sc.			
35	S. Leelachao	May 2009 in progress	Antibodies to atrazine (Co-advised with Chris Hall)
34	R. Van Engen	Jan 2009 in progress	Effects of mine tailing sediment on benthic organisms
33	S. Baccus	Sep 2006, in progress	Analysis and risk assessment of endocrine active substances in the environment (Co-advised with Mark Hewitt).
32	S. Sturman	Sep 2005, in progress	PFCs in the Arctic food web (Co-advised with D. Muir).
31	L. Baxter	Sep 2009 – Apr 2011	Effects of atrazine and phosphorus on growth of aquatic 3 autotrophs and pond snails in outdoor microcosms
30	S. Howard	Withdrew	Effects of forest spraying with glyphosate on frogs
29	J. Rickard	Sep 2005- Dec 2008	Colonization, fecundity and probing behaviour of soybean aphid on susceptible and resistant soybean varieties (Co-advised with R Hallett)
28	M. McDowell	Withdrew	Treatment of pharmaceuticals (Co-advised with N Bunce, Chemistry, U of Guelph).
27	A. Belknap	Sep 2002 - Mar 2005	Identification of hormonally-active compounds in bleached kraft chemical recovery condensates (Co-advised with M Hewitt).
26	M. Smithwick	Jan 2002- Apr 2005	Geographic, biological, temporal trends, and accumulation parameters of polyfluorinated compounds (Co-advised with D Muir).
25	C. Wilson	May 2002- Dec 2004	Pharmaceuticals in the environment: assessment of effects on freshwater ecosystems using microcosms
24	D. Johnson	May 2001- April 2004	Risk assessment of selective serotonin reuptake inhibitors: Comparing methods in tiered environmental risk assessment.
23	A. Gamble	Withdrew	Effects of industrial effluents on fish reproduction.
22	S. Quade	Sep 2001- Sep 2003	Determination of tetrabromobisphenol-A in sediment and sludge (Co-advised with M Alaei).
21	J. Princz	Sep 2001- Mar 2003	Ecotoxicological and chemical evaluation of soils contaminated with motor gasoline, and benzene, toluene, ethylbenzene, and xylenes (BTEX).
20	T. Boudreau	Sep 1999- Dec 2002	Toxicological evaluation of perfluorinated organic acids to selected freshwater primary and secondary trophic levels under laboratory and semi-natural field conditions.
19	J. Luross	Aug 2001	Spatial and temporal distributions of polybrominated diphenyl ethers in lake trout (<i>Salvinus namaycush</i>) from the Great Lakes.
18	M. Chappel	Aug 2001	Evaluation of the toxicity of pesticides mixtures to fathead minnows (<i>Pimephales promelas</i>) using probabilistic ecological risk assessment and toxic equivalency methods
17	K. Munro	Aug 2001	Population-level and suborganismal responses in fish due to chronic creosote exposure in aquatic microcosms
16	P. Takacs	May 1999	Evaluation of probabilistic ecological risk assessment methodology using aquatic microcosms and azinphos-methyl
15	S. Knutson	Apr 1998	Effects of phytosterols and estradiol on maturation and reproduction in fathead minnows
14	H. Sonnenberg	Aug 1998	Extractable organochlorine (EOCI) in white sucker (<i>Catostomus commersoni</i>) exposed to bleached kraft-mill effluents
13	J. Lewis	May 1997	Bioindicators of polycyclic aromatic hydrocarbon PAH exposure in rainbow trout (<i>Onchorynchus mykiss</i>) and fathead minnows (<i>Pimephales promelas</i>)
12	J. McCann	Feb 1997	The use of growth and membrane integrity assays as bioindicators of

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			creosote effects in <i>Myriophyllum spicatum</i> L. growth
11	G. O'Brien	Dec 1996	Penetration and extractability of pesticides into and from plastic used for container manufacture and recycling
10	L. Novak	Sep 1994	Behavioural responses of rainbow trout (<i>Oncorhynchus mykiss</i>) to selected pulp and paper mill effluent constituents
9	A. Vandersluis	May 1993	Dislodgeability and leachability of pesticides from products made from recycled plastic pesticide containers
8	G. Fan	Jul 1991	The effect of dissolved organic matter on fenvalerate toxicity to <i>Daphnia magna</i>
7	S. Harris	May 1991	Exposure of homeowners, professional applicators and bystanders to 2,4-dichlorophenoxyacetic acid (2,4-D)
6	R. Buchanan	May 1991	Persistence, leaching and availability of chromated-copper-arsenate polyethylene glycol, copper naphthenate and pentachlorophenol wood preservatives from pressure treated utility poles
5	P. Martin	Nov 1990	Effects of carbofuran on mallard ducklings (<i>Anas platyrhynchos</i>)
4	J. Warner	May 1990	Persistence, leaching, and bioavailability of CCA and pentachlorophenol wood preservatives
3	T. Valdes	Dec 1983	Toxicity and synergism of permethrin to <i>Trichogramma minutum</i> Riley and <i>T. fuentes</i> Torre (Hymenoptera: Trichogrammatidae)
2	D. Thompson	Apr 1983	Studies on the persistence of two phenoxy herbicides in agricultural, forestry and turfgrass environments
1	S. MacDonald	Jan 1983	The management and mechanisms of resistance to permethrin in a field strain of the house fly, <i>Musca domestica</i> L.

	NAME	YEAR	SUBJECT
Ph.D.			
27	D. Moore	Sep 2009 in progress	Toxicity of metals to cold-water fish
26	J. Rodrigues	Sep 2009, in progress	Toxicity of glyphosate and formulations to aquatic organisms
25	B. de Jourdan	Sep 2007, in progress	Fate and effects of new brominated flame retardants (Co-advised with D. Muir)
24	A. Morris	Sep 2007, in progress	POPs in the arctic food chain (Co-advised with D. Muir)
23	J. Van Geest	May 2007-Sep 2010	Bioaccumulation of sediment-associated contaminants in freshwater organisms: Development and standardization of a laboratory method
22	N. Gantner	Sep 2004-Nov 2008	Effects of climate change on mercury concentrations in arctic char (<i>Salvelinus alpinus</i>) in the high arctic (Co-advised with D Muir).
21	R. Frank	Sep 2003-Apr 2008	Fractionation and toxicity of naphthenic acids from oil-sand waste
20	A. Buckman	Sep 2001-Apr 2006	Toxicokinetics and biological effects of PCBs and their hydroxylated metabolites in rainbow trout (Co-advised with Aaron Fisk)
19	M. Houde	Sep 2002-Apr 2006	Emerging organohalogen contaminants in bottlenose dolphins (<i>Tursiops truncatus</i>) (Co-advised with D Muir)
18	R. Brain	May 2002-Apr 2006	Evaluation of the phytotoxic effects of pharmaceuticals in aquatic higher plants
17	L. Lissemore	Sep 2001-Aug 2005	Pharmaceuticals in agricultural surface waters: detection, distribution, exposure and risk
16	G. Stephenson	Sep 1994-Apr 2003	Terrestrial test methods for plants and soil invertebrates.

	NAME	YEAR	SUBJECT
15	P. Hoekstra	Sep 1998- Mar 2003	Bioaccumulation and biotransformation of persistent organochlorine contaminants in the arctic marine ecosystem (Co-advised with D Muir)
14	M. Hanson	Sep 1997- Sep 2002	<i>Myriophyllum spp.</i> in ecological risk assessment: A case study with haloacetic acids.
13	J. Martin	May 1998- May 2002	Environmental (per-)halogenated acids; detection, distribution, sources, and bioaccumulation (Co-advised with D Muir).
12	A. Farwell	Jan 2000	Stable isotope study of riverine benthic food webs influenced by anthropogenic developments.
11	C. Marwood	Jul 1999	Chlorophyll fluorescence as a mechanistic bioindicator of photosynthetic inhibition in aquatic plants.
10	M. Hewitt	Jul 1997	An assessment of the contamination and effects of lampricide formulations of 3-trifluoromethyl-4-nitrophenol (TFM).
9	D. Houghton	Apr 1997	Development and validation of fluorescent tracer method to estimate dermal exposure to pesticides used indoors.
8	R. Robinson	Aug 1994	Endocrine effects of pulp mill effluents on non-target aquatic organisms
7	B. Archibald	May 1993	Video imaging as a technique for estimating pesticide exposure in greenhouse chrysanthemum production.
6	D. Thompson	May 1992	The effects of hexazinone and metsulfuron methyl in aquatic ecosystems
5	C. Fortin	Apr 1991	Acute and chronic toxicity of technical and slow-release formulations of methoprene in selected zooplankton.
4	K. Liber	Apr 1990	Persistence and biological effects of a commercial tetrachlorophenol formulation in aquatic ecosystems: Laboratory and limnocorral studies
3	A. Mahdavi	May 1990	Insecticide resistance mechanisms in Ontario strains of the Colorado Potato Beetle.
2	S. Gaul	Apr 1988	Interaction of tridiphane and metribuzin in soybean and tomato.
1	M. Lungle	Feb 1988	Studies of the dissipation and effects of chlorpyrifos in microcosms.

9.2 AS CO-SUPERVISOR

	NAME	YEAR	SUBJECT AND LOCATION
9	A. Wojtyniak, M.Sc.	Sep 2004- Withdrew	Effects of veterinary pharmaceuticals on soil microbiological processes (Supervisor Paul Sibley).
8	D. Hillis, Ph.D.	Sep 2004- Dec 2008	Arbuscular mycorrhizal fungi in ecological risk assessment: a case study with selected pharmaceuticals (Supervisor Paul Sibley).
7	E. Dussault, Ph.D.	May 2003- Apr 2008	Effects of pharmaceuticals on benthos (Supervisor Paul Sibley).
6	B. Fraser, M.Sc.	Sep 2003- Dec 2006	Degradation of carbamazepine in STPs. With Nigel Bunce, Chemistry, U of Guelph.
5	G. Everson, M.Sc.	Jan 2004- Jan 2006	Reproduction of <i>Xenopus laevis</i> under field conditions (Supervisor, L Du Preez, Potchefstroom University, SA)
4	M. MacDonald, M.Sc.	Jan 2002- Sep 2005	Fluorotelomer acid toxicity to aquatic organisms (Supervisor Paul Sibley).
3	K. Rattan, M.Sc.	May 2002- Jan 2005	Establishing a reference condition to assess the effects of forest harvesting on phytoplankton community structure in boreal lakes (Supervisor Paul Sibley).
2	A. Warne, M.Sc.	Jan 2002- Dec 2004	The effects of antibiotics on the structure and function of freshwater sediment bacterial communities. (Supervisor Paul Sibley).
1	A. Jooste, M.Sc.	Jan 2001- July 2003	Effects of atrazine on <i>Xenopus laevis</i> under field conditions. (Supervisor, L Du Preez, Potchefstroom University, SA)

9.3 AS EXTERNAL EXAMINER (Ph.D.)

NAME	YEAR	UNIVERSITY
Karen Fildes	2008	University of Wollongong, Australia
Neil Tripodi	2005	The University of Queensland, Australia
Kerri-Ann Bartley-Hynes	2004	University of the West Indies, Kingston, Jamaica
Tsui Tsk Ki Martin	2002	Chinese University of Hong Kong
Yousef El-alawi	2000	University of Waterloo
U. Klee	1998	University of Waterloo
V. Kimani	1995	University of Nairobi
P.Y. Caux	1988	University of Ottawa, Ontario
M. Rafi Ahamed	1987	Sri Krishnadevaraya University, India
C. Henry	1985	University of the West Indies, Jamaica.
B. Sutherland	1979	Witwaterstrand, S. Africa

9.4 AS COMMITTEE MEMBER

Average number of supervisory committees per year = 5

10 TEACHING

10.1 GRADUATE COURSES TAUGHT

TOX6530, Ecotoxicological Risk Characterization 1996 - present
 TOX6000, Advanced Principles of Toxicology 1997 - present
 ENVB6720, Advanced Seminar 2006 - 2007
 ENVB6700, Seminar 1979 - 1982
 ENVB6710, Seminar 1983 - 1984
 ENVB6510, Scientific Methods in Biology II (Residue analysis module) 1979 - 1983

10.2 UNDERGRADUATE COURSES TAUGHT

TOX2000, Principles of Toxicology 1982 - 2009
 TOX4200, Topics in Toxicology, 1984 - 2010
 TOX4550, Ecotoxicological Risk Characterization (Same as TOX6530 above)
 ENVB3030, Pesticides in the Environment 1978 - 1994
 ENVB4240, Biological Activity of Pesticides 1979 - 1992

10.3 COURSEWORK MATERIAL

Principles of Toxicology, 1st to 21st edition, 1988-2009. Courseware for Principles of Toxicology, TOX-2000. Editor and Chapter author (200 pp).
 Chemical and Biological Pesticides in the Environment, 1994-2006. Courseware for Pesticides in the Environment, ENVG-3030. Author with G.R. Stephenson, R. Frank, T. Hsaing (350 pp).
 Ecotoxicological Risk Characterization. 1996-2010. Courseware for Ecotoxicological Risk Characterization, ENVB-6530/4550 & TOX-6530/4550 (246 pp).

11 RESEARCH FUNDING (last 3 years only)

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
2011-2012	Developing methods for more realistic assessments of indirect effects of herbicides on threatened and endangered species. PI, Paul Sibley and Mark Hanson	\$24,000	Contract from CLA.
2011	Influence of light intensity, nutrient content, and temperature on the toxicity of atrazine to the green algae <i>Pseudokirchneriella subcapitata</i> (formerly <i>Selenastrum capricornutum</i>). PI, Mark Hanson.	\$60,000	Contract from Syngenta Crop Protection

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
2010-2011	Testing toxicity of mine effluents in Northern fish. K Solomon	\$35,000	Contract from BHP Billiton Diamonds. and Diavik Diamond Mines.
2009-2010	Implementation of a Laboratory-based Bioaccumulation Testing and Model. K Solomon	\$35,940	OME BIS
2008-2011	Potential effects of glyphosate herbicide applications on forest wetland habitat and amphibian breeding success. PI D. Thompson with AI Stinson, Jeff Leach, AI Tremblay.	\$417,830	OMNR VMAP
2008	Fate, bioavailability, and effects of decabromodiphenyl ether and non-BDE BFRs. PI Derek Muir.	\$33,048	Environment Canada CMP
2007	Methods for assessing bioaccumulation in benthos.	\$20,000	MOE BIS
2007	Ecotoxicity and bioaccumulation of POPs in the Arctic PI Derek Muir.	\$40,000	Environment Canada NWRI
2006	Aquatic Toxicology Research Facility. PI - K Liber, JP Giesy, M Dubé, P Jones, D Janz, P Krone, KR Solomon, DCG Muir, and C Janssen.	\$7,015,000 (CFI contribution \$2,806,000)	CFI Major Infrastructure
2003-2007	Participation in EUFRAM process. PI K Solomon.	€11,000	EU Contract
2005-2006	Ecotoxicity and bioaccumulation of POPs in the Arctic PI Derek Muir	\$33,048	Environment Canada NWRI
2005-2006	Aquatic toxicity of monensin PI K Solomon	\$22,000	MOE BIS
2004-2005	Isolation of Naphthenic acids PI K Solomon	\$8,800	EC Contract
2003-2004	Characterization of naphthenic acids. PI K Solomon	\$8,800	EC Contract
2003-2004	Analysis of pharmaceuticals. PI K Solomon	\$20,000	OME, EC Contract
2003-2004	Characterizing effects of pharmaceuticals in the environment PI K Solomon	\$45,000	CNTC Grant
2002-2004	Beef Cattle Research Council. The occurrence, fate, and ecotoxicological effects of veterinary antibiotics used in the beef cattle industry. K Solomon, M Goss, P Sibley, S Mabury, H Lee, S Richards.	\$40,000 \$40,000 \$35,000	Contribution agreement
2002-2003	Agriculture and Agri-food Canada LEI. Occurrence and Fate of Agricultural Pharmaceuticals in the Environment. K Solomon, P Sibley, S Mabury, S Richards	\$40,000	Contract
2002-2004	American Council of Chemistry. EXPECT! EXtrapolation Practice for Ecological effeCT characterization of chemicals. K Solomon, T Brock, P Van den Brink, L Posthuma, D de Zwart, S Dyer.	US\$270,000	Contract
2002-2003	Characterizing effects of pharmaceuticals in the environment	\$50,000	NSERC matching grant
2002-2003	Characterizing effects of pharmaceuticals in the environment. K Solomon*, P Sibley, S Richards	\$90,000	CNTC Grant
2002-2003	Characterizing effects of pharmaceuticals in the environment. K Solomon*, P Sibley, S Richards	\$50,000	Rx&D grant via CNTC

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
2001-2002	Probabilistic Risk Assessment of Mixtures of Human and Animal Drugs in Non-Target Aquatic Organisms. K.R. Solomon*, P Sibley, S Richards, C Metcalfe	\$120,000	CNTC Grant
2001-2002	Effects of fluorinated surfactants in freshwater mesocosms. K Solomon, S Mabury, D Muir, B Scott, P Sibley*	\$100,000	Grant, 3M, applied for.
2001	Review of the toxicity and health effects of pesticides. KR Solomon, B Linton, E Carpenter, N Dowman, C Lettner	\$3,500	Grant from SATA
2000-2001	Probabilistic Risk Assessment of Mixtures in Non-Target Aquatic Organisms. KR Solomon*, P Sibley	\$135,000	CNTC Grant
1999-2000	Human exposure to IPBC in wood-workers. K Solomon and J Bestari. PPG/Troy	\$56,000	Contract
1999-2002	Occurrence, fate, and effects of fluorinated surfactants in the Canadian environment. S Mabury*, D Muir, B Scott, K Solomon	\$180,000 \$208,000 \$208,000	TSRI
1999-2002	Polybrominated Diphenyl Ethers in the Environment. M Alaei*, J Ryan, H Newsome, B Wakeford, B Sergeant, M Lebeuf, M Ikononou, N Bunce, C Metcafe, K Solomon.	\$120,000 \$179,000 \$155,000	TSRI
1999	Probabilistic Risk Assessment of Pesticide Mixtures in Non-Target Aquatic Organisms. KR Solomon*, K Liber, P Sibley	\$65,000	CNTC Grant
1999	Assessment of the Environmental Fate and Biological Effects of Trichloroacetic Acid (TCA), Trifluoroacetic Acid (TFA) and Related Mixtures of Haloacetic Compounds in Field Enclosures CNTC (Microcosms) KR Solomon* and P Sibley.	\$100,000	CNTC Grant
1998	Novartis Crop Protection: Peril, a game of risk perception. KR Solomon*	\$100,000	Grant
1997-2000	Assessment of the Effects, Fate and Sources of Trifluoroacetic Acid and Related Haloacetic Acids in Canadian Aquatic and Terrestrial Environments D. Muir*, S. Mabury, and K. Solomon	\$241,442	NSERC Strategic Grant
1997	Risk assessment of mixtures of pesticides in aquatic organisms. K. Solomon*	\$25,000	Sphere Grant
1997-1998	Assessment of the Environmental Fate and Biological Effects of Trichloroacetic Acid (TCA), Trifluoroacetic Acid (TFA) and Related Mixtures of Haloacetic Compounds in Field Enclosures CNTC (Microcosms) K. Day*, K.R. Solomon	\$100,000	CNTC Grant
1997-1998	Probabilistic Risk Assessment of Pesticide Mixtures in Non-Target Aquatic Organisms. CNTC. K.R. Solomon*, K. Liber	\$83,000	CNTC Grant
1997	Peril, a game of risk perception. CNTC. K.R. Solomon*	\$30,000	CNTC Grant
1996	Peril, a game of risk perception. Donner Canadian Foundation. K.R. Solomon*	\$100,000	Grant
1996-1997	Effects of sitosterol on fish reproduction. Noranda. K.R. Solomon and G. Van der Kraak*.	\$30,000	Contract
1996	Risk assessment of pesticide residues in recycled pesticide containers. Crop Protection Institute. K.R. Solomon* G. O'Brien.	\$5,000	Contract
1996	Peril, a game of risk perception. Ciba Crop Protection. K. Solomon* and 94-420, W, 1996	\$6,000	Contract
1995-1996	Effects of sitosterol on fish reproduction. Noranda. G. Van der Kraak*, K.R. Solomon.	\$20,000	Contract
1996	Probabilistic risk assessment of pesticides in surface waters of Canada. Environment Canada. K. Solomon*	\$14,000	Contract

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
1996-1998	Measurement and assessment of the toxicological significance of dermal exposure to antisapstain compounds. Industry Consortium. K.R. Solomon*, J. Bestari and B. Archibald.	\$264,000	Contract
1996-1997	Biological Monitoring Exposure Assessment Pilot Study. Collaborative study with Health Canada, the Ontario Ministry of Agriculture, Food and Rural Affairs, the Department of Environmental Biology, University of Guelph, the U.S. National Institute of Occupational Safety and Health and the U.S. National Cancer Institute. Health Canada. Dr. L. Ritter* K. Solomon, B. Archibald	\$600,000	Contract
1996	Probabilistic risk assessment of pesticides in surface waters of Ontario and Quebec. Environment Canada. K. Solomon*	\$16,000	Contract
1994-1996	Penetration into and extraction of pesticides from plastic pesticide container material. Ontario Ministry of the Environment, OPAC. K. Solomon*	\$41,200	Grant
1994-1996	Validation of the probabilistic risk assessment model in aquatic microcosms. CNTC, K. Solomon*	\$82,130	Grant
1994-1996	Effects of creosote treated wood on aquatic communities. Environment Canada, EPS. K.R. Solomon*, R. Gensemer and R. Robinson.	\$156,000	Contract
1994-1996	Studies on the effects of pulp mill effluents on fish and the characterization of the substances responsible for the MFO induction and suppression of steroid production. Industry Canada. K.R. Solomon* and Glen van der Kraak.	\$390,000	Contact
1994	Review of the plant testing guidelines. Crop Protection Institute of Canada. K.R. Solomon*, G.R. Stephenson, B. Hale and J.C. Hall.	\$14,000	Contract
1993-1995	Develop and validate the fluorescent tracer method to estimate indoor exposure to pesticides used for pest control in structures. Health Canada: K.R. Solomon and C.R. Harris. 1994.	\$61,945	Contract
1993	Assessment of the risks associated with filters for the removal of chlorine from water. Brita. K.R. Solomon*	\$3,000	Contract
1993	Industry Consortium. Protocol to measure and assess the toxicological significance of dermal exposure to antisapstain compounds. K.R. Solomon* and L. Ritter	\$2,100	Contract
1993	Proposal to measure and assess the toxicological significance of dermal exposure to pesticides (2,4-D) in pesticide container collection and processing. Crop Protection Institute. K.R. Solomon* and L. Ritter.	\$117,315	Contract
1992-1994	Field and laboratory studies on the behavioral responses of rainbow trout (<i>Oncorhynchus mykiss</i>) to industrial effluents using biotelemetry tags. Ontario Ministry of the Environment. K.R. Solomon*	\$24,000	Grant
1993-94	Sources of exposure to pesticides used for pest control in urban and rural environments. Ontario Ministry of the Environment. K.R. Solomon*	\$110,000	Grant
1992-93	Design, development, and on-site construction of a field microcosm research facility. Environment Canada. K.R. Solomon*	\$94,432	Contract
1992	Mycotoxin Review. OMAF. K.R. Solomon*.	\$26,562	Contract
1992-1996	National Toxicology Network. Environment Canada. K.R. Solomon*, G. Plaa, H.B. Schiefer.	\$14,100,000	Contribution

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
1992	Planning workshop, National Toxicology Workshop. Environment Canada. K.R. Solomon, I.C. Munro*.	\$260,000	Grant
1991-1994	Toxicity of pulp mill effluents to aquatic organisms. ISTC/PAPRICAN. K.R. Solomon*.	\$478,365	Contract
1991-1992	Dislodgeability studies in the use of "OPTION" in turfgrass weed control. Fisons Agrochemicals. K.R. Solomon*, G.R. Stephenson.	\$31,751	Contract
1991-1992	Recycling of plastic pesticide containers: Study of plastic end products from recycled pesticide containers. ACRE, Manitoba. K.R. Solomon*.	\$58,954	Contract
1990-1991	2,4-D Use in Relation to Cancer. 2,4-D Task Force. I.C. Munro* and K.R. Solomon	\$150,000	Contract
1989-1990	Influence of dissolved organic matter on toxicity of pesticides to aquatic organisms. Environment Canada. K.R. Solomon*	\$39,000	Contract
1989	Possible Hazards Associated with Recycling of Metal Pesticide Containers. Alberta Special Waste Management. K.R. Solomon*	\$2,960	Contract
1989	Update of assessment on the human and environmental health effects of Amitrole and the dichloraniline herbicides. Ontario Ministry of the Environment, OPAC. K.R. Solomon*	\$2,000	Operating
1989	Cholinesterase and behavior of mallard ducklings (Anas platyrhynchos) exposed to carbofuran-treated grass. Canadian Wildlife Service of Environment Canada. K.R. Solomon* H. Boermans and P. Martin.	\$6,300	Contract
1989	Routes of uptake, the mode of action and pharmacokinetics of carbofuran in mallard ducklings (Anas platyrhynchos) Delta Waterfowl and Wetland Research Station and World Wildlife Toxicology Fund. K.R. Solomon* and P. Martin.	\$10,300	Operating
1989-1991	Persistence, Leaching and Availability of Pentachlorophenol Copper Naphthenate and Copper-Chromium-Arsenic and Polyethylene Glycol Wood Preservatives from Treated Poles. Ontario Hydro. K.R. Solomon*, G.R. Stephenson	\$60,042	Contract
1989-1991	Exposure studies in the use of pesticides in the home garden and for landscape pest control. Ontario Ministry of the Environment. K.R. Solomon* and G.R. Stephenson.	\$216,081	Contract.
1988-1990	Evaluate de minimus carcinogenic and non-carcinogenic risks from chemicals. Society of the Plastics Industry. I.C. Munro* and K.R. Solomon	\$64,400	Contract
1988	Routes of uptake, the mode of action and pharmacokinetics of carbofuran in mallard ducklings (Anas platyrhynchos) Delta Waterfowl and Wetland Research Station and World Wildlife Toxicology Fund. K.R. Solomon* and P. Martin.	\$14,000	Operating
1988	Persistence, leaching and bioavailability of copper, chromium arsenic and PCP wood preservatives. Ontario Ministry of Environment. K.R. Solomon* and N.K. Kaushik	\$76,223	Contract
1987	Toxicity of pentachlorophenol, tetrachlorophenol and congeners to zooplankton and macrobenthos: Fate, toxicity and the influence of pH in laboratory and field studies. DSS. K.R. Solomon* and N.K. Kaushik	\$57,000	Contract
1987	Toxicity of pentachlorophenol, tetrachlorophenol and congeners to zooplankton and macrobenthos: Fate, toxicity and the influence of pH in laboratory and field studies. World Wildlife Fund. K.R. Solomon* and N.K. Kaushik	\$30,000	Operating

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
1987	The distribution of the juvenile hormone mimic methoprene in an aquatic microcosm and the effects of chronic exposure to this compound in key aquatic organisms. Ontario Ministry of the Environment, OPAC. K.R. Solomon*	\$5,825	Operating
1986	The persistence and lateral movement of picloram and 2,4-D in soils. Ontario Min. Env., OPAC and Ont. Hydro. G.R. Stephenson*, K.R. Solomon	\$30,000	Operating
1986	Persistence of 2,4-D and triclopyr in northern aquatic environments. Ontario Ministry of the Environment, OPAC. G.R. Stephenson*, K.R. Solomon*	\$4,433	Operating
1986	Symposium on Future Directions in Eco-Toxicology. Ontario Ministry of the Environment. K.R. Solomon*	\$4,240	Operating
1985	Proceedings of conference on Toxicology and Technological Development, September, 1985, NSERC and MRC. K.R. Solomon*	\$12,640	Operating
1985	Toxicological assessment of dichloraniline based herbicides and amitrole. Ont. Min. Env., OPAC. G.R. Stephenson*, K.R. Solomon	\$5,000	Operating
1985	The persistence and lateral movement of picloram and 2,4-D in soils. Ontario Min. Env., OPAC and Ont. Hydro. G.R. Stephenson*, K.R. Solomon	\$39,500	Operating
1984	Persistence of Velpar in northern aquatic environments. Environment Canada, PRUF Program. G.R. Stephenson*, K.R. Solomon*	\$35,500	Contract
1984	Persistence of triclopyr in northern aquatic environments. Environment Canada, PRUF Program. G.R. Stephenson*, K.R. Solomon*	\$35,500	Contract
1984	Persistence of 2,4-D in northern and southern aquatic environments. Ontario Ministry of the Environment, OPAC. K.R. Solomon*, G.R. Stephenson	\$15,500	Operating
1983	Determination of the leachability, persistence and lateral movement of triclopyr in selected Canadian forestry soils. DSS/FPML. G.R. Stephenson*, K.R. Solomon	\$50,374	Contract
1983-84	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 3). K.R. Solomon*, L.V. Edgington, N.K. Kaushik, J.B. Robinson, G.R. Stephenson, F.L. McEwen	\$154,000	Strategic
1983	Sublethal effects of fenvalerate on zooplankton. Ontario Ministry of the Environment, OPAC. N.K. Kaushik*, K.R. Solomon	\$8,000	Operating
1982-83	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 2). K.R. Solomon*, L.V. Edgington, N.K. Kaushik, J.B. Robinson, G.R. Stephenson, F.L. McEwen	\$140,000	Strategic
1982	High pressure liquid chromatograph. Research Advisory Board. University of Guelph (RAB). R.A. Fletcher*, L.V. Edgington, G.R. Stephenson, K.R. Solomon	\$12,000	Equipment
1982	Sublethal effects of pesticides in aquatic organisms. Ontario Ministry of the Environment, OPAC. N.K. Kaushik*, K.R. Solomon	\$7,000	Operating
1981-82	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 1). K.R. Solomon*, L.V. Edgington, N.K. Kaushik, J.B. Robinson, G.R. Stephenson, F.L. McEwen.	\$150,000	Strategic

YEAR	TITLE AND RECIPIENTS	AMOUNT	TYPE
1981	Persistence of phenoxy herbicides in agricultural and forest environments. Ontario Ministry of the Environment, OPAC. G.R. Stephenson*, K.R. Solomon	\$15,000	Operating
1981	Liquid scintillation counter. University of Guelph (RAB). R.A. Fletcher*, L.V. Edgington, G.R. Stephenson, D. Hume, B. McKersie, K.R. Solomon	\$18,000	Equipment
1981	Pesticide interactions in aquatic organisms. NSERC (Instalment 2). K.R. Solomon*	\$5,500	Operating
1980-81	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 3). C.T. Corke, L.V. Edgington, N.K. Kaushik, G.R. Stephenson, F.L. McEwen*, K.R. Solomon	\$80,000	Strategic
1980	Mechanisms of resistance in Ontario house flies. O.M.A.F. (3 year grant). K.R. Solomon*	\$37,222	Operating
1980	Gas chromatograph and data system. NSERC. K.R. Solomon*, C.T. Corke, L.V. Edgington, G.R. Stephenson, F.L. McEwen	\$19,600	Equipment
1980	Pesticide interactions in aquatic organisms. NSERC (Instalment 1). K.R. Solomon*	\$5,500	Operating
1979-80	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 2). C.T. Corke, L.V. Edgington, N.K. Kaushik, G.R. Stephenson, F.L. McEwen*, K.R. Solomon	\$75,000	Strategic
1979	Screening of systemic insecticides in bloodsucking insects. University of Guelph (RAB). K.R. Solomon*	\$7,740	Operating
1979	Packard sample combustor. University of Guelph (President's Fund). L.V. Edgington*, G.R. Stephenson, R.A. Fletcher, K.R. Solomon, D. Hume	\$12,000	Equipment
1978-79	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC (Instalment 1). C.T. Corke, L.V. Edgington, N.K. Kaushik, G.R. Stephenson, F.L. McEwen*, K.R. Solomon	\$70,000	Strategic
1978	Methods to evaluate the effects of pesticides in the aquatic ecosystem. NSERC. C.T. Corke, L.V. Edgington, N.K. Kaushik, G.R. Stephenson, F.L. McEwen*, K.R. Solomon	\$35,000	Strategic

* indicates principal investigator.

12 SUPERVISION OF RESEARCH PERSONNEL (person years at University of Guelph)

Research Associates	24
Technicians	32
Summer students	30

13 SCIENTIFIC AND ADVISORY COMMITTEES

13.1 STANDING COMMITTEES

Member and Secretary of the United Nations Environment Programme (UNEP) Panel on Environmental Effects of Ozone Depletion 2001-present.

Member of the International Institute for Life Sciences (ILSI) HESI committee, July 1998-present. Current subcommittees are: Cumulative Risks and Problem Formulation for Cumulative Risks

Member and Chair of the OAS CICAD Panel on Environmental and Human Health Risk Assessment of the Use of Glyphosate for the Eradication of Illicit Crops. 2004-2008.

Member of the EUFRAM team for pesticide risk assessment 2003-2007.

Member of the Science Advisory Panel to PMRA on risks of the use of 2,4-D for landscape uses 2003-2004.

Member of ILSI Technical Committee on Aggregate Exposure September 2000-2004.

Member of the US EPA Ecological Committee on FIFRA Risk Assessment Methods (ECOFRAM) 1998-2000.

Member of the Science Panel, Centre for Environmental Endocrine Effects, Washington DC 1994-1996.

Member and Chair of the Board of Directors of the Pest Management Alternatives Office, Agriculture Canada.
Member and Vice Chair of the Ontario Pesticides Advisory Committee (OPAC) 1982-1994.
Member of the OPAC Research Sub-committee 1982-1994.
Chairman of the OPAC Classification Review, Classification and Toxicology Sub-committees 1982-1994.
Member of the Associate Committee on Toxicology, NRCC 1984-1986.
Member of the Minneapolis Mosquito Control District Technical Advisory Committee and Scientific Peer Review Panel 1991-1995.
Member of the Ontario Waste Management Classification Sub-committee 1982-1983. Member of the Canadian Centre of Toxicology, Environmental Toxicology Task Force 1982-1986.
Chairman of the NRCC, ACSCEQ Expert Panel on the Environmental Impact of the Pyrethroid Insecticides.
Member of the National Research Council of Canada (NRCC), Associate Committee on Scientific Criteria for Environmental Quality (ACSCEQ), Expert Panel on Pesticide Pollinator Interactions 1986-1986.
Member of the Review Board for D5 Siloxane for Environment Canada, 2010 – 2011.

13.2 CONSULTING COMMITTEES AND RELATED CONSULTATIVE ACTIVITIES (Last 5 years only)

Member of the ECORISK Atrazine Endocrine Risk Assessment Panel, 1997-2007.

13.3 WORKSHOP GROUPS AND AD HOC COMMITTEES

Member of the U.S. Environmental Protection Agency Advisory Panel for the Development of a Method to Assess the Impact of Pesticides in Aquatic Ecosystems 1982.
Member of the U.S. Environmental Protection Agency Research Review Panel for the U.S. EPA Regional Laboratory, Gulf Breeze, Florida 1986.
Member of the U.S. National Academy of Science/NRC Board of Environmental Studies and Toxicology Working Group on "Research Needs in Anticipation of Future Environmental Problems 1988.
Consultant to the Prairie Provinces Container Disposal Committee, January, 1990.
Consultant to the B.C. Antisapstain Committee, March, 1990.
Member of the U.S. EPA's Aquatic Risk Assessment and Mitigation Dialogue Group for Pesticides. 1992-1994
Chair of the Scientific Advisory Board to review and assess the ecological risks associated with the use of chlorine dioxide for the bleaching of pulp. 1992-1993
Member of the Steering Committee for the SETAC workshop on Environmental Risk Assessment for Organochlorine Chemicals, July 24-29, 1994.
Member of the SETAC workshop on Ecological Risk Assessment Decision Support Systems, Pellston, MI, August 23-28
Member and group leader of the SETAC workshop on Sediment Risk Assessment, Asilomar, CA, April 23-28, 1995
Member of the Atrazine Risk Assessment Panel, TIWET, 1994-1995.
Member of the U.S. EPA workshop on Environmental Risk Assessment of Endocrine Disruptors, Duluth, MN, June 12-13, 1995
Member of the U.S. EPA workshop on Toxicity Thresholds for Superfund Sites, Chicago, IL June 19-20, 1995
Member and group chair of the SETAC Pellston workshop on Multiple Stressors, Pellston, MI, September 1997.
Participant in SETAC/Europe OECD Higher Tier Aquatic Risk Assessment for Pesticides (HARAP) workshop on higher tier methods of toxicity testing in Bordeaux, France, April 1998.
Participant in the SETAC Pellston Workshop of Water Quality Criteria in Fairmont Montana, July 1998.
Participant in the Community Level Aquatic System Studies - Interpretation Criteria (CLASSIC) workshop in Schmalleberg, Germany in May 30-June 2, 1999.
Invited plenary speaker and participant at Workshop on Risk Assessment and Risk Mitigation in the Context of the Authorization for Plant Protection Products (WORMM) workshop in Braunschweig, Germany, Sept 26-30, 1999
Participant and member of organizing committee for ILSI Aggregate Exposure Workshop, Omni Inner Harbour Hotel, Baltimore MD, October 19-21, 1999.
Participant in workshop on "Innovative Exposure Assessment of Pesticide Uses for Appropriate Risk Assessment" The Hague, Netherlands, September 2000
Participant in the WERF PBT Workshop, Washington DC, March 17, 2001
Participant in CCIW Sediment Toxicity Workshop, Cambridge ON, November 23-26, 2001
Participant in Probabilistic Risk Assessment Workshop, June 3-9 2001, Netherlands.
Participant in CNTC Planning Workshop, June 28-29, 2001.
Co-Chair at Intertopic Workshop IW7 "Environmental Risk Assessment: Integrating the Exposure and Effects Information" IUPAC meeting in Basel Switzerland, August 4-9 2002

Participant in Workshop on Assessment Endpoints for PMRA at Far Hills Inn in Quebec. October 4-6, 2002
Participant in EPIF Workshop in Le Croisic, France. October 21, 2003
Participant in DFO Site Specific Risk Assessment Workshop, Ottawa, ON. October 27-28, 2003
Participant in Probabilistic Assessment Methods for Risk Analysis in the Framework of PPP Authorization. Umweltbundesamt Berlin. 25-28 November 2003
Participant in Toward a Monitoring Network: A Technical Workshop for Pharmaceuticals & Personal Care Products in the Environment March 28-30, 2004. Queen's Landing. Niagara-on-the-Lake, Ontario
Participant in SOLEC Workshop, October 8, 2004. Toronto, ON.
Participant in Environment Agency Workshop on Chronic Aquatic Ecotoxicity Testing of Human Pharmaceuticals May 19, 2005, London, UK.
Participant in SOLEC Workshop, November 11, 2005. Windsor, ON.
Participant in Veterinary Pharmaceuticals: A SETAC Pellston Workshop. February 12-15, 2006, Pensacola FL.
Participant in POPs Workshop: A SETAC Pellston Workshop. January 20-26, 2008, Pensacola FL.
Member of the siloxane D5 Board of Review established under the Canada Environmental Protection Act Aug 23 2010.

14 EDITORIAL BOARDS

Human and Ecological Risk Assessment (HERA) 2001 - present
Chemosphere 2000 – present as Editorial Board
Environmental Toxicology and Chemistry (2004-2007) and 2010 to present as Section Editor
Pesticide Management Science (Associate editor 2009-present)

14.1 REVIEWS FOR JOURNALS AND GOVERNMENT REPORTS (last 4 years only)

JOURNAL OR REPORT	2009	2010	2011	2012
Aquatic Toxicology	1	1	1	
Archives for Environmental Contamination and Toxicology	2	1		
Biofouling	1	0		
Biosystems Engineering	0	1	0	
Chemosphere	5	7	1	
Ecotoxicology	3	0	3	
Ecotoxicology and Environmental Safety	1	1		
Environment International	2	0		
Environmental Health Perspectives	3	2		
Environmental Pollution	1	0		
Environmental Science and Technology	4	2	1	
Environmental Toxicology and Chemistry	1	2	1	
Fresenius Environmental Bulletin	2	0		
Global Change Biology	0	1	1	
Human and Ecological Risk Assessment	2	1	2	
Hydrology	0	1		
Integrated Environmental Assessment and Management	2	1	2	
International Journal of Ecology	1	0		
International Journal of Environmental Research and Public Health	0	0	1	
Journal of Agricultural and Food Chemistry	0	1	0	
Journal of Toxicology	0	0	1	
Journal of Toxicology and Environmental Health B	0	1	1	
Pest Management Science	0	1	0	
Proceedings of the National Academy of Sciences of the United States of America	0	1	0	

JOURNAL OR REPORT	2009	2010	2011	2012
Regulatory Toxicology and Pharmacology	0	1	0	
Science of the Total Environment	0	1	2	
Regulatory Reports	0			
Book chapters (assorted)	1	4	0	
Total	32	31	17	0

15 PERSONNEL REVIEWS (including P&T) (last 4 years only)

	2009	2010	2011	2012
Total	0	2	1	

16 GRANT REVIEWS (last 4 years only)

Agency	2009	2010	2011	2012
Canadian Defense Force	0	1	0	
IFS Sweden	1	0	0	
Swiss National Science Foundation	1	1	0	
Total	2	0	0	

17 UNIVERSITY COMMITTEES

17.1 UNIVERSITY (Until 2009-12-31)

Member of the Toxicology Graduate Program Committee.
 Member of the B.Sc Honours Toxicology Program Management Committee.
 Counsellor for the Environmental Toxicology area of emphasis.
 CRC Validation Committee.

17.2 COLLEGE

Environmental Biology Chair Review (2007)

17.3 DEPARTMENTAL

Graduate Program Committee (2008-2009).

18 COMMUNITY ACTIVITIES

Advocate for bringing science to the public. Advisor to a number of City Councils and Provincial Governments on matters related to pesticides and other matters.

19 PUBLICATIONS

19.1 BOOKS AND CHAPTERS IN BOOKS

- 47 Solomon KR, Stephenson GR, Carazo E. 2010. Plaguicidas y el Ambiente. San Juan, Costa Rica, University of Costa Rica Press.
- 46 Solomon KR, Stephenson GR, Correa CL Zambrone FAD. 2010. Praguicidas e o Meio Ambiente. Sao Paulo, Brazil, ILIS Press 473 pp.
- 45 Solomon KR. 2010. Ecotoxicological Risk Assessment of Pesticides in the Environment. In: Krieger RI, Doull J, van Hemmen JJ, Hodgson E, Maibach HI, Ritter L, Ross J, Slikker W, editors. Handbook of Pesticide Toxicology. Vol. 2, 3 ed. Burlington, MA, USA: Elsevier. p 1191-1217.
- 44 Solomon KR, Hillis DG, Lissemore L, Sibley PK. 2009. Risks of Agricultural Pharmaceuticals in Surface Waters and Soil. In: Henderson K, Coats JR, eds. *Veterinary Pharmaceuticals in the Environment*, ACS Symposium Series 1018. Washington, DC, USA: American Chemical Society. p 191-204.
- 43 Solomon KR. 2008. Use of (eco) toxicity data as screening criteria for the identification and classification of PBT / POP compounds. In: Klecka G, Muir DCG, editors. Science-Based Guidance and Framework for the Evaluation and Identification of PBTs and POPs: Summary of a SETAC Pellston Workshop. Pensacola, LF, USA: SETAC. p 17-20.

- 42 Solomon KR, Cooper D. 2008. Probabilistic Assessment of Laboratory-derived Acute Toxicity Data for Triazine Herbicides to Aquatic Organisms. In: LeBaron HM, McFarland JE, Burnside OC, editors, *The Triazine Herbicides. 50 Years Revolutionizing Agriculture*. Amsterdam, NL, Elsevier, p 425-438.
- 41 Brock TCM, Maltby L, Hickey C, Solomon KR. 2008. Spatial Extrapolation in Ecological Effect Assessment of Chemicals. In: Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p 233-256.
- 40 Brock TCM, Solomon KR, Van Wijngaarden RPA, Maltby L. 2008. Temporal Extrapolation in Ecological Effect Assessment of Chemicals. In: Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, Van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p 187-221.
- 39 Posthuma L, De Zwart D, Solomon KR, Brock TCM. 2008. Guidance On the Application of Extrapolation Methods in Ecological Exposure and Effects Characterization of Chemicals. In: Solomon KR, Brock TCM, De Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p 281-322.
- 38 Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ. 2008. Preface. In: Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p xv-xviii.
- 37 Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ. 2008. Extrapolation for Criteria Setting and Risk Assessment. In: Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p 1-32.
- 36 Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ. 2008. Conclusions. In: Solomon KR, Brock TCM, de Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. p 257-267.
- 35 Solomon KR, Brock TCM, De Zwart D, Dyer SD, Posthuma L, Richards SM, Sanderson H, Sibley PK, van den Brink PJ, editors. 2008. *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*. Pensacola, FL, USA: CRC/Taylor and Francis/SETAC Press. 368 p
- 34 Stephenson GR, Solomon KR. 2007. *Pesticides and the Environment*. Guelph, Ontario, Canada: Canadian Network of Toxicology Centres Press. 427 p.
- 33 Kennedy IR, Solomon KR, Gee S, Crossan AN, Wang S, Sanchez-Bayo F. 2007. Achieving Rational Use of Agrochemicals: Environmental Chemistry in Action. In: Kennedy IR, Solomon KR, Gee S, Crossan AN, Wang S, Sanchez-Bayo F, editors. *Rational Environmental Management of Agrochemicals: Risk Assessment, Monitoring, and Remedial Action*. ACS Symposium Series No 966 Washington, DC, USA: American Chemical Society, pp 1-7.
- 32 Solomon KR, Anadón A, Brain RA, Cerdeira AL, Crossan AN, Marshall AJ, Sanin LH, Smith L. 2007. Comparative Hazard Assessment of the Substances used for Production and Control of Coca and Poppy in Colombia. In: Kennedy IR, Solomon KR, Gee S, Crossan AN, Wang S, Sanchez-Bayo F, editors. *Rational Environmental Management of Agrochemicals: Risk Assessment, Monitoring, and Remedial Action* ACS Symposium Series No 966 Washington, DC, USA: American Chemical Society, pp 87-99.
- 31 Giddings JM, Anderson TA, Hall LW, Jr, Kendall RJ, Richards RP, Solomon KR, Williams WM. 2005. A Probabilistic Aquatic Ecological Risk Assessment of Atrazine in North American Surface Waters. Pensacola, FL, USA: SETAC Press. 432 p
- 30 Solomon KR, Carr JA, du Preez LH, Giesy JP, Gross TS, Kendall RJ, Smith EE, Van Der Kraak GJ. 2005. Ecotoxicological risk assessment of atrazine in amphibians. In: Clark JM, Ohkawa H, editors. *Environmental Fate and Safety Management of Agrochemical* ACS Symposium Series No 899. Washington, DC, USA: American Chemical Society. p 124-137.
- 29 Bright DA, Hodson PV, Lehtinen K-J, McKague BA, Rodgers JH Jr, Solomon KR. 2003. Evaluation of Ecological Risks Associated with the Use of Chlorine Dioxide for the Bleaching of Pulp: Scientific Progress Since 1993. In: *Aquatic Impacts of Pulp and Paper Effluents*. In: Stuthridge T, van den Heuvel M, Marvin N, Slade A, Gifford J (Eds). *Environmental Impacts of Pulp and Paper Waste Streams*. SETAC Press: Pensacola FL. 552 pp p18-26.
- 28 Brooks BW, Richards SM, Weston J, Turner PK, Stanley JK, La Point TW, Brain R, Glidewell EA, Rene A, Massengale D, Smith W, Blank, CL, Solomon, KR, Slattery M, Foran CM. 2004. Aquatic Ecotoxicology of Fluoxetine: A Review of Recent Research. In: Dietrich D, Webb S, Petry T, Eds, *Hot Spot Pollutants: Pharmaceuticals in the Environment*. Elsevier. Same paper as Brooks et al. 2003.