

Jennifer Beth Sass, Ph.D.

**Natural Resources Defense Council, Senior Scientist
George Washington University, Professorial Lecturer**

Full-time Employment (January 2001 to present):

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Academic Affiliation (2008 to present)

Professorial lecturer
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Short Professional Biography :

I am a Senior Scientist in the Health and Environment program of the NRDC, an environmental non-profit organization. I review U.S. government regulations of industrial chemicals and pesticides, and assess the data underlying the regulatory decisions. I am well versed in the health sciences, with degrees in Anatomy and Cell Biology, and Toxicology, and have published over three dozen articles in peer-reviewed journals. In my work with NRDC I review the science underpinning the regulation of toxic chemicals and emerging contaminants such as nanomaterials, and advocate for health-protective regulations consistent with the environmental statutes. I provide testimony and scientific briefings for the U.S. Congress and regularly participate in stakeholder and expert scientific federal advisory committees.

Education:

- Post-Doctoral Fellow, 1998-2000. Program in Human Health and the Environment, University of Maryland, Baltimore. Mentor: EK Silbergeld.
- Ph.D. 1998. Dept. of Anatomy and Cell Biology, University of Saskatchewan, Canada. Thesis title: Heat-inducible and Constitutive Expression of the 90kD Heat Shock Protein Gene, Hsp90, During Zebrafish Embryogenesis. Mentor: PH Krone.
- MSc. 1993. Dept. of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, Canada. Thesis title: Aluminum Pretreatment Impairs the Ability of Astrocytes to Protect Neurons from Glutamate Toxicity. Mentor: BHJ Juurlink.
- B.Sc. Advanced. 1989. Anatomy. University of Saskatchewan, Saskatoon, Canada.

Publications:

1. Sass, J. Putting the public into alternatives assessment. Environmental Health Policy Institute. Physicians for Social Responsibility. Online December 16, 2010. <http://www.psr.org/environment-and-health/environmental-health-policy-institute/responses/putting-the-public-into-alternatives-assessment.html>
2. Joshi TK, Bailar JC 3rd, Craner J, Davis D, Ehrlich R, Franco G, Frank AL, Huff J, LaDou J, Lanphear B, London L, Melnick RL, O'Neill R, Osaro E, Rosenman KD, Sass J, Smith AH, Soskolne CL, Stephens C, Stuckey R, Takaro TK, Teiteibaum D, Watterson A, Yassi A. Physician expelled from Indian Association of Occupational Health after critique. *Int J Occup Environ Health*. 2009 Oct-Dec;15(4):419-20.
3. Sass, JB. Supporting the need for rigorous enforceable disclosure policies for scientific journals. *Commentary. Addiction* 2009 Nov;104(11):1788-9.
4. Sass, JB. Key elements of effective and practical disclosure policies for health science journals. *Editorial. Env Health Perspect*, 2009 June;117(6):A233.
5. Sass, JB, Musu T, Burns K, Illuminato I. Nanomaterials: Brief review of policy frameworks in the U.S. and Europe and recommendations from an occupational and environmental perspective. *European J Oncol*, 2009; 13(4):211-218.
6. Sass, JB. Invited book review of Bending Science: How special interests corrupt public health research. T.O. McGarity and W.E. Wagner. *Environ Health Perspect*. 2008 Nov;116(11):1654-9
7. Sass, JB. Janssen, S. Open letter to Stephen Johnson, Administrator, U.S. Environmental Protection Agency: Ban Endosulfan. *Int J Occup Environ Health*, 2008, July-Sept; 14(3):236-239.

8. Huff, James and Jennifer Sass. Atrazine – A likely human carcinogen? *Int J Occup Environ Health*, 2007, July-Sept;13(3):356-358.
9. Balbus JM, Maynard AD, Colvin VL, Castranova V, Daston GP, Denison RA, Dreher KL, Goering PL, Goldberg AM, Kulinowski KM, Monteiro-Riviere NA, Oberdörster G, Omenn GS, Pinkerton KE, Ramos KS, Rest KM, Sass JB, Silbergeld EK, Wong BA. Meeting report: hazard assessment for nanoparticles--report from an interdisciplinary workshop. *Environ Health Perspect*. 2007 Nov;115(11):1654-9.
10. Guth JH, Denison RA, Sass J. Require comprehensive safety data for all chemicals. *New Solut*. 2007;17(3):233-58.
11. Sass JB, Wu M. Budget cuts to the U.S. EPA will reduce government data on pollutants, and increase reliance on industry data. *Int J Occup Environ Health*. 2007 Apr-Jun;13(2):244-6.
12. Sass JB. Recommendations for improved risk assessment approaches. *J Hum Ecol Risk Assessment*. 2007.
13. Sass, JB, Colangelo A. European Union bans atrazine, while the United States negotiates continued use. *Int J Occup Environ Health*, 2006 July;12:260-267.
14. Sass J, Simms P, Negin E. Nanotechnologies: The promise and the perils. *Sustainable Development Law & Policy (SDLP) journal*, 2006, Apr/May:11-16.
15. Sass, J. No small problem: It's high time for the United States to get nanotech regulations – and it needs to get them right. *Bull Atom Sci*, 2006, Mar/April; 62(2): 21-22
16. Sass, J.B. Credibility of Scientists: conflict of interest and bias. *Env Health Perspect*, 2006 March; 114(3):A147.
17. Needleman HL, Reigart JR, Landrigan P, Sass J, Bearer C, Resnik DB, Portier C. Correspondence: Benefits and Risks of Pesticide Testing on Humans and author response. *Environ Health Perspect*. 2005 Dec;113(12):a804-5.
18. Sass, JB. Industry efforts to weaken the EPA's classification of the carcinogenicity of 1,3-butadiene. *Int J Occup Environ Health*, 2005; 11:378-383.
19. Sass JB, Castleman B, Wallinga D. Vinyl chloride: Sass et al respond. *Environ Health Perspect*. 2005 Oct;113(10):A654-655.
20. Sass JB, Castleman B, Wallinga D. Vinyl chloride: a case study of data suppression and misrepresentation. *Environ Health Perspect*. 2005 Jul;113(7):809-12.
21. Sass J, Solomon G. Inappropriate influence by industry on EHP news article. *Environ Health Perspect*. 2005 Feb;113(2):A87-8.

22. Sass J. U.S. Department of Defense and White House working together to avoid cleanup and liability for perchlorate pollution. *Int J Occup Environ Health*. 2004 Jul-Sep;10(3):330-4.
23. Sass JB, Needleman HL. Human testing: Sass and Needleman respond to industry. *Environ Health Perspect*. 2004 May;112(6):A340-1.
24. Sass JB, Needleman HL. Industry testing of toxic pesticides on human subjects concluded "no effect," despite the evidence. *Environ Health Perspect*. 2004 Mar;112(3):A150-1; author reply A151-2; discussion. A152-6.
25. Sass JB, Devine JP Jr. The Center for Regulatory Effectiveness invokes the Data Quality Act to reject published studies on atrazine toxicity. *Environ Health Perspect*. 2004 Jan;112(1):A18; author reply A18-9.
26. Axelson O, Balbus JM, Cohen G, Davis D, Donnay A, Doolittle R, Duran BM, Egilman D, Epstein SS, Goldman L, Grandjean P, Hansen ES, Heltne P, Huff J, Infante P, Jacobson MF, Joshi TK, LaDou J, Landrigan PJ, Lee PR, Lockwood AH, MacGregor G, Melnick R, Messing K, Needleman H, Ozonoff D, Ravanesi B, Richter ED, Sass J, Schubert D, Suzuki D, Teitelbaum D, Temple NJ, Terracini B, Thompson A, Tickner J, Tomatis L, Upton AC, Whyatt RM, Wigmore D, Wilson T, Wing SB, Sharpe VA. *Re: Regulatory Toxicology and Pharmacology*. *Int J Occup Environ Health*. 2003 Oct-Dec;9(4):386-9; author reply 389-90.
27. Jacobson MF, Sharpe VA, Angell M, Ashford NA, Blum A, Chary LK, Cho M, Coull BC, Davis D, Doolittle RF, Egilman D, Epstein SS, Greenberg M, Hooper K, Huff J, Joshi TK, Krimsky S, LaDou J, Levenstein C, Miles S, Needleman H, Pellegrino ED, Ravanesi B, Sass J, Schecter A, Schneiderman JS, Schubert D, Soffritti M, Suzuki D, Takaro TK, Temple NJ, Terracini B, Thompson A, Wallinga D, Wing S. *Editorial policies on financial disclosure*. *Nat Neurosci*. 2003 Oct;6(10):1001.
28. Sass J. MacLennan et al report on an elevated incidence of prostate cancer among workers in a triazine manufacturing plant. *J Occup Environ Med*. 2003 Apr;45(4):343-4; author reply 344
29. Sass J. Continued insensitivity to conflicts of interest at IARC. *Int J Occup Environ Health*, 2003 Jan-Mar; 9(1); 88-9. discussion 89.
30. Sass J. Lead IARC towards compliance with WHO/IARC Declaration of Interests (DOI) policy. *Int J Occup Environ Health*. 2002 Jul-Sep;8(3):277-8.
31. Axelson O, Castleman B, Epstein S, Franco G, Giannasi F, Grandjean P, Greenberg M, Hooper K, Huff J, Jacobson M, Joshi TK, Kulkarni GK, LaDou J, Mazaheri M, Mekonnen Y, Melnick R, Mirabelli D, Ofrin R, Partanen T, Pott F, Sass J, Soskolne CL, Suplido ML, Terracini B, Tomatis L, Ungvary G, Watterson A, Wesseling C, Yassi A. *Re: Implementation of WHO Guidelines on Disclosure of Interest by members of WHO Expert Panels*. *Int J Occup Environ Health*. 2002 Jul-Sep;8(3):271-3.

32. Sass JB, Greer L. Re: concern that working group members who will be assessing styrene have financial conflicts of interest. *Int J Occup Environ Health*. 2002 Apr-Jun;8(2):153-5.
33. Choich JA, Sass JB, Silbergeld EK. A novel system applying the 2-deoxyglucose method to fish for characterization of environmental neurotoxins. *Toxicology Mechanisms and Methods*. 2002; 12: 35-43
34. Gurney S, Sass J. Public trust requires disclosure of potential conflicts of interest. *Nature*. 2001 Oct 11;413(6856):565.
35. Sass JB, Haselow DT, Silbergeld EK. Methylmercury-induced decrement in neuronal migration may involve cytokine-dependent mechanisms: a novel method to assess neuronal movement in vitro. *Toxicol Sci*. 2001 Sep;63(1):74-81.
36. Sass JB, Martin CC, Krone PH. Restricted expression of the zebrafish hsp90alpha gene in slow and fast muscle fiber lineages. *Int J Dev Biol*. 1999;43(8):835-8.
37. Krone PH, Lele Z, Sass JB. Heat shock genes and the heat shock response in zebrafish embryos. *Biochem Cell Biol*. 1997;75(5):487-97. Review.
38. Sass JB, Krone PH. HSP90alpha gene expression may be a conserved feature of vertebrate somitogenesis. *Exp Cell Res*. 1997 Jun 15;233(2):391-4.
39. Krone PH, Sass JB, Lele Z. Heat shock protein gene expression during embryonic development of the zebrafish. *Cell Mol Life Sci*. 1997 Jan;53(1):122-9. Review.
40. Sass JB, Weinberg ES, Krone PH. Specific localization of zebrafish hsp90 alpha mRNA to myoD-expressing cells suggests a role for hsp90 alpha during normal muscle development. *Mech Dev*. 1996 Feb;54(2):195-204.
41. Krone PH, Sass JB. HSP 90 alpha and HSP 90 beta genes are present in the zebrafish and are differentially regulated in developing embryos. *Biochem Biophys Res Commun*. 1994 Oct 28;204(2):746-52.
42. Sass JB, Ang LC, Juurlink BH. Aluminum pretreatment impairs the ability of astrocytes to protect neurons from glutamate mediated toxicity. *Brain Res*. 1993 Sep 10;621(2):207-14.
43. Sass JB, Ang LC, Juurlink BH. A simple, yet versatile, co-culture method for examining neuron-glia interactions. *J Neurosci Methods*. 1993;47(1-2):115-21.
44. Ang LC, Bhaumick B, Munoz DG, Sass J, Juurlink BH. Effects of astrocytes, insulin and insulin-like growth factor I on the survival of motoneurons in vitro. *J Neurol Sci*. 1992 Jun;109(2):168-72.

Book Chapters:

Soffriti M, Sass J, Castleman B, Gee D. 2012. Vinyl Chloride – A Saga of Secrecy and the Value of Animal Testing. Late Lessons from Early Warnings: Science, Precaution and Politics. European Environmental Agency report. April, 2012

Sass JB, D Mergler, EK Silbergeld. 2000. Environmental toxins and neurological disease. In: *Diseases of the Nervous System: Clinical Neuroscience and Therapeutic Principles*. 3rd edition. Eds. AK Asbury, G McKhann, WI McDonald, PJ Goadsby, JC McArthur. Cambridge Univ Press, NY, NY. Chapter 111.

Reports

- *Strengthening Toxic Chemical Risk Assessments to Protect Human Health*. An NRDC issue paper by Sarah Janssen, Jennifer Sass, Ted Schettler, Gina Solomon. February 2012.
- *The Delay Game: How the industry ducks regulation of the most toxic substances*. An NRDC report by Jennifer Sass and Daniel Rosenberg. October, 2011
- *Atrazine: Poisoning the Well – Atrazine continues to contaminate surface water and drinking water in the United States*. An NRDC Issues Paper by Mae Wu, Mayra Quirindongo, Jennifer Sass, Andrew Wetzler. April 2010
- *Asleep at the switch: How EPA is ignoring atrazine contamination in surface and drinking water in the Central United States*. An NRDC Issues Paper by Mae Wu, Mayra Quirindongo, Jennifer Sass, Andrew Wetzler. August, 2009
- *Effective and practical disclosure policies: NRDC paper on workshop to identify key elements of disclosure policies for health science journals*. An NRDC paper by Jennifer Sass. June, 2009. <http://www.nrdc.org/health/disclosure/>
- *Deepest Cuts: Repairing Health Monitoring Programs Slashed Under the Bush Administration*. An NRDC Issues Paper by Miriam Rotkin-Ellman, Mayra Quirindongo, Jennifer Sass, Gina Solomon. December 2008. <http://www.nrdc.org/health/deepestcuts/>
- *Nanotechnology's invisible threat: small science, big consequences*. An NRDC Issues Paper by Jennifer Sass. May, 2007. <http://www.nrdc.org/health/science/nano/contents.asp>

U.S. Congressional Testimony and Briefings

- Briefing before the US Senate Committee on Environment and Public Works on recommendations of the National Academies for improving risk assessments. Washington, DC. February 28, 2011

- Briefing before the US Senate Committee on Commerce, Science, and Transportation. Green Chemistry: merging business and sustainability. Washington, DC. June 26, 2009
- Testimony before the US House Energy and Commerce Committee, Subcommittee on Oversight and Investigations at hearings entitled, "Science Under Siege: Scientific Integrity at the Environmental Protection Agency". Washington, DC. September 18, 2008
- Testimony before the US Senate Committee on Environment and Public Works, Subcommittee on Transportation Safety, Infrastructure Security, and Water Quality hearing entitled, "Pharmaceuticals in the Nation's Water: Assessing Potential Risks and Actions to Address the Issue". April 15, 2008
- Briefing before the US Senate Committee on Environment and Public Works. Perspectives on Nanotechnology: Business, Government, and Public Health. Washington, DC. May 30, 2007
- Testimony before the US House of Representatives Committee on Science and Technology. Legislative Hearing on the EPA Fiscal Year 2008 Research and Development Budget Proposal. March 14, 2007.

National Academies of Science:

- Invited panelist to address the National Research Council committee to Review of the Federal Strategy to Address Environmental, Health, and Safety Research Needs for Engineered Nanoscale Materials. BEST-K-07-02-A. May, 2008
- Prepared comments and presented testimony to the National Research Council Committee on the Health Risks of Phthalates. BEST-K-07-07-A. December, 2007
- Prepared comments and presented testimony to the National Research Council Committee on Improving Risk Analysis Approaches Used by the U.S. EPA. BEST-K-05-02-A. June, 2007
- Prepared comments and presented testimony to the Institute of Medicine Roundtable on Environmental Health Sciences, Research and Medicine. National Institute of Environmental Health Science Roadmap. June, 2006
- Prepared comments and presented testimony to the National Research Council Committee on Ensuring the Best Science and Technology Presidential and Federal Advisory Committee Appointments. Call for Comments on Science and Technology Presidential and Federal Advisory Committee Appointments. July 21, 2004
- Prepared comments and presented testimony to the National Research Council on scientific and regulatory issues for the Committee on Environmental Decision Making: Principles and Criteria for Models (BEST-K-03-02-A). March, 2004

- Prepared comments and presented testimony to the National Research Council on scientific issues and environmental concerns, for the “Committee on Coeur d'Alene River Basin” Superfund Site Assessment and Remediation (BEST-K-02-04-A). Additional comments identified concern that numerous members of the committee had close ties to polluters. January, 2004
- Prepared comments and presented testimony to the National Research Council on the scientific issues, for the “Committee to Assess the Health Implications of Perchlorate Ingestion” (BEST-K-03-05-A). Additional comments identified concern that numerous members of the committee had close ties to perchlorate polluters. October, 2003
- Prepared comments and presented testimony to the National Research Council raising concern of industry influence on the provisional committee appointments and charge questions for the NAS advisory panel to address the Toxicologic Risk of Fluoride in Drinking Water (BEST-K-02-05-A). May, 2003
- Prepared comments and presented testimony to the National Academies on the scientific issues, for the “Provisional Committee Appointments for NAS Advisory Panel - Use of Third Party Toxicity Research with Human Research” (STLP-Q-02-02-A). Additional comments identified concern that numerous members of the committee had close ties to pesticide manufacturers. December 3, 2002

Service on U.S. Federal scientific and stakeholder committees:

- Invited panelist. EPA Office of Water. Arsenic Small Systems Working Group. 2012.
- Invited panelist. EPA Office of Water. Drinking Water Strategy – Contaminants as a group process. Stakeholder meeting. September, 2010
- Selected to serve on the Leadership Council of the CDC National Conversation on Public Health and Chemical Exposures. We met throughout 2010 and will continue our work into 2011. The goal is to successfully engage a broad range of groups and individuals representing impacted communities, health professionals, regulatory agencies, and industry to develop an action agenda with clear, achievable recommendations to strengthen government’s efforts to protect health and the environment from chemical hazards.
- Invited participant on a working group of the President’s Council of Advisors on Science and Technology (PCAST), to review the National Nanotechnology Initiative. 2010
- Invited participant on the federal advisory committee to provide Peer Review of the EPA Nanotechnology White Paper. Coordinated by Versar, Inc. (Keith Drewes). 2006
- Member of the National Toxicology Program Nanotechnology Working Group, NTP Board of Scientific Counselors. National Institute of Environmental Health Sciences. 2005.

- Member of the Public Interest Partners of the National Institute of Environmental Health Sciences (NIEHS PIP). 2005 to 2011.
- Invited member of the National Toxicology Program U.S. Department of Health and Human Services High-Throughput Screening Assays Workshop. December 14-15, 2005. Crystal City, Virginia
- Member of the Interim Ad-Hoc Work Group on Nanoscale Materials, National Pollution Prevention and Toxics Advisory Committee (NPPTAC), U.S. EPA. July-October, 2005
- Invited member of the National Toxicology Program Retreat. Dept of Health and Human Services. To provide input on the Draft paper, Toxicology in the 21st Century: The Role of the National Toxicology Program. Greensboro, NC. August, 2004
- Participant in the Technical Peer Review Workshop on the EPA Risk Assessment Forum Draft Framework for Cumulative Risk Assessment. June, 2002
- Member of the EPA/USDA Pesticide Program Dialogue Committee (PPDC). This Committee provides a forum for a diverse group of stakeholders to provide feedback to the pesticide program on various pesticide regulatory, policy and program implementation issues. Summer 2001 to present
- Member of the EPA/USDA Committee to Advise on Reassessment and Transition (CARAT). The purpose of CARAT to provide advice on strategic approaches for pest management planning, transition, and tolerance reassessment for pesticides as required by the Food Quality Protection Act (FQPA). This committee advises EPA and USDA on ways to ensure smooth implementation of FQPA through use of sound science, consultation with stakeholders, increased transparency, and reasonable transition for agriculture. Summer 2001
- Member of the EPA Expert Peer Review for the *Draft Framework for Cumulative Risk Assessment* document, US EPA NCEA-F-1098. August 2, 2001. Workshop discussion Arlington, VA. August 2001

Selected Recent Testimony and Comments to the U.S. Environmental Protection Agency:

Pyrethroid Cumulative Risk Assessment. EPA-HQ-OPP-2011-0746. January, 2012.

Chlorpyrifos preliminary human health risk assessment. EPA-HQ-OPP-2008-0850. October, 2011

Pesticides; Policies concerning nanomaterials. EPA-HQ-OPP-2010-0197. August, 2011

Revisions to EPA's rule on protection of subjects in human research involving pesticides. EPA-HQ-OPP-2010-0785. April, 2011.

Proposal to conditionally register nanosilver pesticide product. September, 2010

Proposed Rule to increase public availability of the identities of the inert ingredients in pesticide products. EPA-HQ-OPP-2009-0635. April 2010

EPA Policy paper on revised risk assessment methods for agriculture workers, children of workers in agriculture fields, and pesticides with no food uses. EPA-HQ-OPP-2009-0889. April 2010

EPA Draft guidance for pesticide registrants on pesticide drift labeling. EPA-HQ-OPP-2009-0628. March, 2010.

Draft Toxicological Review of Trichloroethylene: In support of the summary information in the Integrated Risk Information System. EPA-HQ-ORD-2009-0791. January, 2010.

FIFRA Scientific Advisory Panel on atrazine. EPA-HQ-OPP-2009-0851. February, 2010.

Fungicides mancozeb, maneb, metiram, and thiram. EPA-HQ-OPP-2009-0431. November, 2009

Atrazine. EPA-HQ-OPP-2009-0759. October, 2009

Perchlorate in drinking water. EPA-HQ-OW-2009-0297. September, 2009

NRDC petition to cancel endosulfan. EPA-HQ-OPP-2002-0262. June, 2009

Testimony and Comments to Regulatory Agencies (other than EPA):

1. Presented testimony and comments at the Maine State Legislature on the health hazards of bisphenol A. March, 2011.
2. Submitted comments in response to the March, 2009 Presidential Memo on Scientific Integrity: Request for Public Comment. May, 2009.
3. Submitted scientific and legal comments to the New Jersey Department of Environmental Protection on a drinking water standard for perchlorate. December, 2007
4. Submitted scientific and legal comments to the FDA on nanoparticles in sunscreens, cosmetics, and personal care products. December 21, 2007. Docket No. 1978N-0038

Selected Recent Invited Speaker:

1. Invited panelist. Society of Toxicology and EPA Office of Research and Development. Workshop on Contemporary Concepts in Toxicology – Building for Better Decisions. May, 2012.
2. Invited speaker at The Kavli Science Journalism Workshop. Nano: the newest technology. Massachusetts Institute of Technology (MIT), June 2012.

3. Invited speaker at University of Idaho College of Law, Moscow Idaho. March, 2012
4. Invited speaker and workshop participant, Arizona State University, College of Law. The biggest issues for the smallest stuff: regulation and risk management of nanotechnology. Phoenix, AZ. March, 2011.
5. Invited speaker, DC EcoWomen. Washington, DC March, 2011.
6. Invited speaker, The Appropriate Use of Science in Public Policy. Hosted by the Professionals for the Public Interest (PftPI). Washington, DC October, 2010
7. Invited speaker, graduate class on Science and Policy. Virginia Tech, Blacksburg VA. October, 2010
8. Invited panelist. Nanotechnology: Should we sweat the little things? Society of Environmental Journalists, 20th Annual Conference. Missoula, MT October, 2010.
9. Invited participant. Workshop on Assessing Consistency in Epidemiology Data for Application in Regulatory Risk Assessment. Johns Hopkins School of Public Health (Ron White), Baltimore MD. September, 2010
10. The 10th Transatlantic Consumer Dialogue (TACD) annual meeting. Invited speaker on nanomaterials. Brussels, June, 2009
11. Science, Technology, and Public Policy Program at the Ford School of Public Policy at the University of Michigan. Invited speaker. Title: Nanotoxicology: a review of the science and policy. January, 2009
12. NIEHS AFGE Local 2923 and the NIEHS Diversity Council. Labor Day Keynote Lecturer. Title: Occupational safety, public health, and environmental protection: The historical role of women in making the connection. Research Triangle Park, NC. August, 2008.
13. Region VI Pretreatment Association, U.S. EPA, and State EPA Region VI. Title: Nanomaterials in waste water. Invited presenter. Oklahoma City, OK. August, 2008.
14. Global conference on occupational and environmental cancer prevention. Invited speaker. Title: An international environmental NGO assessment of environmental cancers and their prevention. Scotland. April, 2008.
15. Resources for the Future, and Wilson Center Project on Emerging Nanotechnologies. Nanotechnology and Nature: Reducing risks and reaping rewards. Washington, DC. June 6, 2007
16. Beyond Pesticides 25th National Pesticide Forum. New Opportunities for Protecting Health and the Environment. Nanotechnologies. Chicago, IL. June 2, 2007
17. American Bar Association Annual Meeting. Section of Environment, Energy, and Resources. Regulation of nanotechnology: size does matter. San Diego, CA. October, 2006

18. Johns Hopkins Bloomberg School of Public Health. Risk Policy, Management, and Communications course. Professor, Ronald White. Baltimore, MA. November/December 2003, 2004, 2005, 2006, 2007, 2008

Provided Peer-Review for Scientific and Professional Journals

Accountability in Research
American Journal of Public Health
Archives of Environmental & Occupational Health
Environmental Health Perspectives
European Environmental Agency, Late Lessons from Early Warnings
International Journal of Occupational and Environmental Health
Journal of Nanoparticle Research
Public Health Reports

Selected Recent Professional and Public Service

1. Coming Clean Collaborative. Workgroup leader, Emerging Technologies. 2007, 2008, 2009, 2010, 2011, 2012
2. Center for the Environmental Implications of Nanotechnology (CEINT). Member of the External Advisory Board. 2009, 2010
3. Public Interest Partners, National Institute of Environmental Health Sciences (NIEHS). Liaison with the NIEHS National Advisory Environmental Health Sciences Council (NAEHS). 2007, 2008, 2009, 2010
4. Invited expert on the North American Commission for Environmental Cooperation meeting of experts to guide the further development of its Special Report on Toxic Chemicals and Children's Health in North America. Montreal, Canada. November, 2004
5. Organizer and session moderator for the annual general conference of the Association for Science in the Public Interest (ASIP). George Mason University, VA. June, 2003
6. Reviewer of applicants for the American Association for the Advancement of Science/ National Institutes of Health Science Policy Fellowship Program. March, 2003, 2004
7. Invited participant in the North American Free Trade Agreement (NAFTA) Trilateral Workshop on Risk Assessment and Children's Environmental Health. Oaxaca, Mexico. February, 2003
8. Invited observer of the International Agency for Research on Cancer (IARC) Monographs on the Evaluation of Carcinogenic Risks to Humans. Preparation of Volume 84: Some drinking-water disinfectants and contaminants, including arsenic. Lyon, France. October, 2002

9. Member of the Roundtable Workshop to discuss Genomics and Environmental Policy, organized by the Woodrow Wilson International Center for Scholars, Washington, DC. Purpose is to discuss the impacts and implications of advances in genomics on environmental protection and policy. May, October, 2002
10. Member of the LifeLine Advisory Committee. This committee advises and reviews the development of the LifeLine model for cumulative risk assessment, developed by Hampshire Research Institute. Coordinators are Paul Price and Christine Chaisson. Summer 2001
11. Co-chair of the organizing committee for the annual general meeting of the Association for Science in the Public Interest, Richmond, VA. May, 2001

Selected Recent Scientific Conference Presentations

1. Sass, JB. 2011. Panelist. Natural Resources Defense Council (NRDC) perspective on transparency, speed and stakeholders involvement in EPA's chemical risk assessment. Society for Risk Analysis Annual Meeting. December, Charleston, SC.
2. Sass JB. 2009. Panelist. The Regulatory Frontier: Addressing products of nanotechnology. Abstract 660. Society of Toxicology Annual Meeting. March, Baltimore, MD.
3. Sass JB. 2008. Panelist. Data gaps and research needs for improving risk analysis of nanoscale materials and nanotechnology. Society of Risk Analysis. September, Washington, DC.
4. Sass JB. 2006. Panelist. Nanotechnology challenges. American Public Health Association Annual Meeting. November, Boston MA
5. Sass JB. 2005. Vinyl Chloride Carcinogenicity and EPA's Chemical Assessment Process. Abstract 121339. American Public Health Association Annual Meeting. December, Philadelphia, PA.
6. Sass JB, Colangelo A. 2005. U.S. Regulation of Atrazine: Taking Care of Business. Collegium Ramazzini Annual Meeting. Living in a Chemical World. September, Bologna, Italy.
7. Sass J, Colangelo A. 2005. EPA Review of Atrazine Cancer Risks: Taking Care of Business. Meeting of Atrazine and the health of humans and wildlife: state of the science and future research needs. University of Iowa. April, Iowa City, Iowa
8. Sass, JB. 2004. Panelist. Scientific Integrity in Regulation. American Public Health Association Annual Meeting. Session 3214.0. November, Washington, DC
9. Sass, JB. 2003. Panelist. Social Determinants of Health: sound science for sale? (session 4259.0). Presentation title, "Are the regulated industries regulating themselves...where is government?" Abstract 70559. American Public Health Association Annual Meeting, November. San Francisco, CA

10. Sass, JB. 2003. Panelist. Increase Influence of Industry in American and International Assessments of Toxic Chemicals. First International Scientific Conference on Occupational and Environmental Health at the National Institute of Occupational and Environmental Health. November. Hanoi, Viet Nam

Selected Recent Community Service and Activities

- Garrett Park Conservation Action Network. 2008-ongoing
- Garrett Park Conservation Trust, Vice-President. 2009-2011
- Wilderness First Responder certified; Wilderness First Aid certified, 2010
- ACA certified whitewater kayak instructor, American Canoe Association, 2009-ongoing
- Solo oar-raft the Grand Canyon, Colorado River, 225 miles. 2009
- Volunteer organizer with the Potomac White Water Festival. 2008-2011
- Runner and fund-raiser for the *National AIDS Marathon*. Completed the Marine Corps Marathon, Washington DC. 2005
- Runner and fund-raiser for the *National AIDS Marathon*. Completed the Baltimore Marathon, Baltimore MD. 2004