

Curriculum Vitae

Susan D. Shaw, Dr.P.H.

Founder/Director

Shaw Institute

Blue Hill Research Center

55 Main Street, PO Box 1652

Blue Hill, ME 04614 USA

Tel: (207) 374-2135

<http://www.shawinstitute.org/about/founder-executive-director-dr-susan-shaw>

Adjunct Professor, School of Public Health

Department of Environmental Health Sciences

University at Albany, State University of New York

Empire State Plaza, P.O. Box 509

Albany, NY 12201-0509 USA

Mobile: (212) 203-9539

Email: sshaw@shawinstitute.org

Education

1999 Dr.P.H. Columbia University, School of Public Health, Division of Environmental Health Sciences, New York, NY

Doctoral thesis: Shaw, S.D. (1998). *Organochlorines and Biomarkers of Immune and Endocrine Effects in Pacific Harbor Seal and Northern Elephant Seal Pups* (359 pp)

1981 M.P.H. Columbia University School of Public Health, Division of Environmental Health Sciences, New York, NY

1973 M.F.A. Columbia University School of Fine Arts/Film Division, New York, NY

1967 B.A. University of Texas, Plan II Honors, Austin, TX

Experience: 1990 to Present

1990- Founder/Director, Shaw Institute (formerly Marine & Environmental Research Institute), a nonprofit scientific research organization based in Maine and New York City, with a mission to improve human and ecological health through innovative science and global partnerships. The Institute is globally recognized for pioneering high-impact environmental research on ocean pollution, plastics, flame retardants, and climate change that has fueled public policy over three decades. www.shawinstitute.org.

2011- Adjunct Professor, School of Public Health, Environmental Health Sciences, University at Albany, State University of New York, Albany, NY

2008- Faculty, Institute for Health and the Environment (IHE), a WHO/PAHO Collaboration Centre in Environmental Health, School of Public Health, University at Albany, State University of New York, Albany, NY

Appointments/ Professional Positions

U.S. Science Liaison, Plastic Health Coalition (PHC): Provide scientific expertise and strategic planning to the PHC, an international alliance formed by Amsterdam-based Plastic Soup Foundation to accelerate research on human health effects of plastic pollution and promote global reduction strategies.

Plastic Health Summit Advisory Board: Advisor on planning and execution of international Plastic Health Summit meetings to highlight health research on plastics and catalyze innovation and nontoxic alternatives. The first Summit held in Amsterdam October 2019 reached 300 million people worldwide.

BP Oil Spill Expert Group: Expert Consultant in support of legal firm assisting BP oil spill victims with health issues and cancer following exposure to the crude oil-dispersant mixture in the Gulf of Mexico.

International Panel on Chemical Pollution (IPCP): Stockholm, Sweden and Zurich, Switzerland; Member of an international body of scientists who advise policymakers on the global management of toxic chemicals in developed and developing nations.

Faculty and Charter Advisory Board, The Corning School of Ocean Studies, Maine Maritime Academy, Ocean Studies Advisory Board, Castine, ME

U.S. InterAgency Board (IAB), Panel on Firefighter Cancer 2014-16: Technical expert on panel investigating chemical exposure and occupational cancer in firefighters. Co-author, IAB White Paper:*Recommended Actions Related to Reducing the Known Risk of Cancer in Firefighters*, Arlington, VA, May 2016.

U.S. Department of Interior, Strategic Sciences Working Group (SSWG) 2010-11: Appointed to a 14-member expert team of scientists charged with assessing consequences of the BP oil spill in the Gulf of Mexico and recommending policy actions for the Gulf region.

Special Session Chair, Dioxin 20XX (since 2003), International Dioxin Symposia on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 20XX www.dioxin20XX.org

Ph.D. Examiner, Uppsala University Thesis Defense/ Ecotoxicology: Anna Roos (2013). *The Otter (Lutra lutra) in Sweden: Contaminants and Health*, Uppsala University, Sweden

Chair, BFR 2014: Human Exposure to Flame Retardants, 14th Annual Workshop on Brominated and Other Flame Retardants, Indiana University, School of Public and Environmental Affairs, Indianapolis, IN, 22-24 June 2014

National Organizing Committee: BFR 2013: 6th International Symposium on Flame Retardants, San Francisco, CA, 7-10 April, 2013

Chair, The Explorers Club State of the Oceans Forums 2009: *Oceans in Crisis: A Call to Action*, two expert panel discussions presented at THC headquarters, New York, NY

Delegate, United Nations' Economic and Social Council (ECOSOC) on Ocean Pollution, Sustainable Ocean Development, and Marine Affairs, New York, Geneva, and Vienna

Convenor/Chair, Gulf of Maine Forum: *Protecting Our Coastal and Offshore Waters*. Author, Executive Summary Report (Shaw, S.D. 2003) (21 pp)

Convenor/Co-Chair, Atlantic Coast Contaminants Workshop (ACCW 2000): co-sponsored by the U. of Connecticut, and The Jackson Laboratory. Co-authored a landmark, peer-review article: De Guise, S., **Shaw, S.D.** et al. (2001). Atlantic Coast Contaminants Workshop 2000: Consensus Statement of 22 Wildlife and Human Health Experts. *Environ. Health Persp.* 109(12):1301-2

Editorial Boards:

Reviews on Environmental Health, Walter de Gruyter GmbH & Co. KG, Berlin, Germany and New York, NY, and *Archives of Environmental and Occupational Health*
<http://www.tandfonline.com/toc/vaeh20/current>

Frequent Reviewer for journals (examples): *Journal of Occupational and Environmental Medicine, Ecotoxicology and Environmental Safety, Archives of Environmental and Occupational Health, Environmental Science & Technology, Environment International, Chemosphere, Environmental Pollution, Aquatic Toxicology, Science of the Total Environment, Marine Pollution Bulletin, Environmental Toxicology and Chemistry, Reviews on Environmental Health, Environmental Health Perspectives*

Major Research Interests

Environmental Chemistry, Ecotoxicology, Public Health:

Distribution, kinetics, and fate of organic contaminants in the environment

Biomonitoring; chemical exposure and effects assessment in humans and wildlife

Human exposure and health effects of nano- and microplastics

Occurrence, exposure pathways, sources and health effects of plastics/microplastics in marine and coastal food webs

Health and environmental impacts of crude oil and petroleum-based dispersant chemicals in offshore oil spills

Health effects of human exposure to carcinogenic emissions in fire smoke and ash from structure fires, open waste burning, and electronic waste fires

Assessment of carcinogenic exposure and occupational cancer among fire fighters and other cohorts highly exposed to fire smoke carcinogens

Health impacts of occupational exposure to combustion by-products of halogenated chemicals, e.g., polyhalogenated dibenzo-p-dioxins and furans (PCDD/Fs, PBDD/Fs, PXDD/Fs) in high risk populations (fire fighters, e-waste workers)

Human exposure and toxic effects of per- and poly-fluorinated alkyl substances (PFASs, Teflon)

Mechanisms of toxicity of pollutants in complex environmental mixtures, toxicity identification, evaluation, and policy recommendations

Indoor pollution: Halogenated contaminants in household products and food packaging

Awards and Honors

- 2019 **Highlighted Speaker** at the first *Plastic Health Summit* in Amsterdam, presented to a livestream audience of more than 300 million.
- 2019 **Ocean Conference Keynote Speaker** at *II International Conference on Microplastic Pollution in the Mediterranean Sea (μ MED)*, Capri, Italy.
- 2019 **Named** one of “Six Leading Eco-Warrior Women in the World” by *Make It Better Magazine*, International Earth Day 2019.
- 2018 **Woodrow Wilson Visiting Fellow**, Muhlenberg College Center for Ethics. Invited to address the topic: *Ethics of the Anthropocene: Crisis Earth* during a week-long series of public and classroom lectures, Allentown, PA.
- 2016 **Woodrow Wilson Visiting Fellow**, Michell College, *Environmental Injustice: Issues of Race, Ethnicity and Culture*. New London, CT.
- 2015 **Roque Island Distinguished Annual Lecturer on Environmental Conservation**, University of Maine, Machias, ME.
- 2014 **Elisabeth Mann Borgese Distinguished Oceans Lecturer**, International Ocean Institute, Dalhousie University, Halifax, Nova Scotia, Canada.
- 2013 **PhD Examiner**, Thesis Defense by Anna Roos: *The Otter (Lutra lutra) in Sweden Contaminants and Health*, Uppsala University, Faculty of Science & Technology, Uppsala, Sweden.
- 2012 **Woodrow Wilson Visiting Fellow**, *Ocean Pollution in An Ecological Perspective*, Northeastern University, Artists and Practitioners in Residence Program, Boston, MA.
- 2012 **The Explorers Club Citation of Merit Award**, New York, NY for outstanding accomplishments in exploration and ocean conservation leadership.
- 2012 **Next Award, Mainebiz Magazine** for innovative research and thought leadership that is shaping the future of Maine and its economy.
- 2011 **Gold Medal Award, Society of Women Geographers**. The 19th woman in 78 years to receive the society’s highest honor for pioneering research of major significance that influences health and toxics policy in the US and abroad. Previous SWG Gold Medalists include Amelia Earhart, Margaret Mead, Sylvia Earle and Jane Goodall.

- 2010 **Noisemaker 2010 Award**, *MORE Magazine* for “warning America” about the dangers of applying Corexit dispersants to the BP oil spill in the Gulf of Mexico.
- 2009 **Elected Fellow, WINGS WorldQuest**, a nonprofit organization recognizing and supporting extraordinary women in science and exploration, New York, NY.
- 2008 **Elected Fellow, The Explorers Club**, New York, NY.
- 2007 **Citation of Recognition Award, Governor of Maine, State of Maine 123rd Legislature** and the people of the State of Maine for advancing knowledge of chemical contamination of the marine environment and the health effects of toxic chemicals in marine mammals and humans.
- 2007 **Gulf of Maine Visionary Award** for “pioneering work documenting pollutants in the Gulf environment and their impacts on marine life and humans.” Gulf of Maine Council on the Marine Environment (GOMC) representing the New England states and Atlantic Canada.
- 1980-85 **Hunter-Grubb Foundation 5 Year Fellowship** for Graduate Studies in Public Health/ Environmental Health Sciences, Columbia University School of Public Health, New York, NY.
- 1983 **Ansel Adams’ Commission** to publish *Overexposure: Health Hazards in Photography, First Edition* (1983) Carmel, CA: The Friends of Photography, Inc., 329 pp. The first book on the health hazards of photographers’ exposure to darkroom chemicals.
- 1961-67 **Plan II Honors, University of Texas (B.A.)**. Honors major with a core multi-disciplinary curriculum, emphasis on critical/analytical skills, and writing; capstone thesis with Professor William Shattuck, French Literature/Film.
- 1965 **Mortar Board**, a national honor **society** recognizing college seniors for their exemplary scholarship, leadership and service. University of Texas, Austin, TX.
- 1964 **Fulbright Scholarship**, Texas-Chilean Exchange, University of Chile, Santiago, Chile.
- 1963 **UT Honorary Service Organization/Orange Jackets**, University of Texas, Austin, TX.
- 1962 **President, Freshman Honorary Society/Alpha Lambda Delta**, and Chair, 1963 Induction Ceremony with President Lyndon and Lady Bird Johnson, University of Texas, Austin, TX.
- 1960 **American Field Service (AFS), Exchange Student**, Kassel, Germany.

Publications/Research Articles

- Shaw, S.D., Berger, M.L., Harris, J.H., Guo, Y., and Kannan, K. (2020). Tissue partitioning of HBCDs, TBBPA, and emerging flame retardants in harbor seals (*Phoca vitulina*) from the northwest Atlantic *Environ Int* (in prep).
- Shaw Institute (2019). *Guide to Microplastics Identification, A Comprehensive Methods Guide for Microplastics Identification and Quantification in the Laboratory*. Shaw Institute, Blue Hill, ME, www.shawinstitute.org.
- Woods, M.N., Stack, M., Fields, D., **Shaw, S.D.**, Matrai, P.A. (2018). Microplastic fiber uptake, ingestion, and egestion rates in the blue mussel (*Mytilus edulis*). *Marine Pollution Bulletin* 137: 638-645.
- Shaw, S. D. (2017). Human responses to complex environmental exposures: linking causes and effects. *Reviews on Environmental Health*, 32(4), 301.
- Barrows, A.P.W., Neumann, C.A., Berger, M.L., **Shaw, S.D.** (2017). Grab vs. neuston tow net: A microplastic sampling performance comparison and possible advances in the field. *Anal. Methods*, 2017, 9, 1446.
- Shaw, S.,D. (2016). Co-author, InterAgency Board (IAB) White Paper: *Recommended Actions Related to Reducing the Known Risk of Cancer in Firefighters*. Arlington, VA, May 2016.
- She, J., Ip, H.S.S., Guan, Y., Chen, D., Moon, H.B., Roos, A, Wang, D., Zhang, J., Berger, M.L., and **Shaw, S.D.** (2016). Chapter 6. Levels, Trends, and Health Effects of Dioxins and Related Compounds in Aquatic Biota. In: M. Alaei (ed.), *Dioxin and Related Compounds: Special Volume in Honor of Otto Hutzinger, Hdb Env Chem* (2016) 49: 153–202, DOI 10.1007/698_2016_457, © Springer International Publishing Switzerland 2016.
- Shaw, S.D., Harris, J.H., Berger, M.L., Subedi, B., and Kannan, K. (2014). Chapter 3. Brominated Flame Retardants and Their Replacements in Food Packaging and Household Products – Uses, Human Exposure and Health Effects. In: (Ed) Snedeker, S.M., *Toxicants in Food Packaging and Household Plastics: Exposure and Health Risks to Consumers*. London: Springer, ISBN 978-1-4471-6500-2, pp. 61-93.
- Shaw, S.D., Berger, M.L., Weijs, L., Päpke, O., and Covaci, A. (2014). Polychlorinated Biphenyls Still Pose Significant Health Risks to Northwest Atlantic Harbor Seals. *Science of the Total Environment* 490:477-487.
- Weijs, L., **Shaw, S.D.**, Berger, M.L., Neels, H., Blust, R., and Covaci, A. (2014). Methoxylated PBDEs (MeO-PBDEs), hydroxylated PBDEs (HO-PBDEs), and hydroxylated PCBs (HO-PCBs) in liver samples of harbor seals from the northwest Atlantic. *Science of the Total Environment* 493:606-614.
- Shaw, S.D., Berger, M.L., Harris, J.H., Yun, S.H., Wu, Q., Liao, C., Blum, A., Stefani, A., and Kannan, K. (2013). Persistent organic pollutants including polychlorinated and polybrominated dibenzo-*p*-dioxins and dibenzofurans in firefighters from northern California. *Chemosphere* 91:1386-1394.
- Shaw, S.D., Berger, M.L., Harris, J.H., Yun, S.H., Wu, Q., Liao, C., et al. (2014). Corrigendum to: Persistent organic pollutants including polychlorinated and polybrominated dibenzo-*p*-dioxins and dibenzofurans in firefighters from Northern California. *Chemosphere* 102:87.
- Shaw, S.D., Berger, M.L., Weijs, L., Covaci, A. (2012). Tissue-specific accumulation of

- polybrominated diphenyl ethers (PBDEs) including Deca-BDE and hexabromocyclododecanes (HBCDs) in harbor seals from the northwest Atlantic. *Environment International* 44:1-6.
- Shaw, S.D. and Kannan, K. (2011). Ocean pollution: Health and environmental impacts of brominated flame retardants. In: Selendy, J.M.H. (Ed.) *Water and Sanitation-Related Diseases and the Environment: Challenges, Interventions, and Preventive Measures*. Hoboken, John Wiley & Sons, Inc., pp. 439-459.
- Shaw, S.D., Berger, M.L., and Kannan, K. (2011). Status and trends of POPs in harbor seals from the northwest Atlantic. In: Loganathan, B.G. and Lam, P.K.S. (Eds.) *Global Contamination Trends of Persistent Organic Chemicals*. Boca Raton, FL: CRC Press, pp. 515-546.
- Guo, Y., **Shaw, S.D.**, and Kannan, K. (2011). Spatial and temporal trends of polybrominated diphenyl ethers. In: Loganathan, B.G. and Lam, P.K.S. (Eds.) *Global Contamination Trends of Persistent Organic Chemicals*. Boca Raton, FL: CRC Press, pp. 33-71.
- Shaw, S.D. (2011). Halogenated flame retardants: Do the fire safety benefits justify the risks? *Organohalogen Compounds* 73: 2036-2039.
- Shaw, S.D., Kannan, K., and Birnbaum, L. (2011). Health effects of halogenated flame retardants in animals and humans. *Fire Safety Science. Proceedings of the 10th International Symposium on Fire Safety Science, University of Maryland, USA, 19-24 June, 2011*.
- Shaw, S.D., Blum, A., Weber, R., Kannan, K., Rich, D., Lucas, D., Koshland, C.P., Dobraca, D., Hanson, S., and Birnbaum, L. (2010). Halogenated flame retardants: Do the fire safety benefits justify the risks? *Reviews on Environmental Health* 25(4): 261-305.
- DiGangi, J., Blum, A., Bergman A., De Wit, C., Lucas, D., Mortimer, D. Schechter, A., Scheringer, M., **Shaw, S.D.**, and Webster, T.F. (2010). *San Antonio Statement on Brominated and Chlorinated Flame Retardants*. *Environmental Health Perspectives* 118(12): A516-A518.
- Shaw, S.D., Berger, M.L., Brenner, D., Kannan, K., Lohmann, N., and Pöpke, O. (2010). Response to Letter to the Editor: Bioaccumulation of polybrominated diphenyl ethers and hexabromocyclododecane in the northwest Atlantic marine food web, *Science of the Total Environment* 408(17): 3717–3718.
- Shaw, S.D. and Kannan, K. (2009). Polybrominated diphenyl ethers in marine ecosystems of the American continents: Foresight from current knowledge. *Reviews on Environmental Health* 24 (3):157-229.
- Shaw, S.D., Berger, M.L., Brenner, D., Kannan, K., Lohmann, N., Pöpke, O. (2009). Bioaccumulation of polybrominated diphenyl ethers and hexabromocyclododecane in the northwest Atlantic marine food web. *Science of the Total Environment* 407:3323-3329.
- Shaw, S.D., Berger, M.L., Brenner, D., Tao, L., Wu, Q., Kannan, K. (2009). Specific accumulation of perfluorochemicals in harbor seals (*Phoca vitulina concolor*) from the northwest Atlantic. *Chemosphere* 74: 1037–1043.
- Shaw, S.D., Berger, M.L., Weijs, L., Roosens, L., Covaci, A. (2009). Specific Accumulation of PBDEs Including Deca- BDE in Tissues of Northwest Atlantic Harbor Seals. *Organohalogen Compounds* 71: 2547-2552.
- Covaci, A., Weijs, L., Roosens, L., Berger, M.L., Neels, H., Blust, R., **Shaw, S.D.** (2009). Accumulation of hexabromocyclododecanes (HBCDs) and their metabolites in pup and

- adult harbour seals from the northwest Atlantic. *Organohalogen Compounds* 71: 1486-1490.
- Shaw, S.D., Brenner, D., Berger, M.L., Fang, F., Hong, C-S., Addink, R., and Hilker, D. (2008). Bioaccumulation of polybrominated diphenyl ethers in harbor seals from the northwest Atlantic. *Chemosphere* 73(11): 1773–1780.
- Shaw, S.D., Berger, M.L., Brenner, D., Carpenter, D.O., Tao, L., Hong, C-S., and Kannan, K. (2008). Polybrominated diphenyl ethers (PBDEs) in farmed and wild salmon marketed in the Northeastern United States. *Chemosphere* 71(8): 1422-1431.
- Shaw, S.D., Berger, M.L., Brenner, D., Kannan, K., Lohmann, N., and Pöpke, O. (2008). Bioaccumulation of polybrominated diphenyl ethers and hexabromocyclododecane in the northwest Atlantic marine food web. *Organohalogen Compounds* 70: 841-845.
- Shaw, S.D. (2007). How are seals, as top predators, impacted by toxic contaminants in Casco Bay and the Gulf of Maine? In: Casco Bay Estuary Partnership *Toxic Pollution in Casco Bay: Sources and Impacts*, pp. 61-68.
- Shaw, S.D., Brenner, D., Berger, M.L., Dwyer, M., Fang, F., Hong, C-S., Storm, R., and O'Keefe, P. (2007). Patterns and trends of PCBs and PCDD/Fs in NW Atlantic harbor seals: Revisiting toxic threshold levels using the new TEFs. *Organohalogen Compounds* 69: 1752-1756.
- Shaw, S.D., Brenner, D., Berger, M., Carpenter, D.O., Hong, C-S., and Kannan, K. (2007). Erratum: PCBs, PCDD/Fs, and organochlorine pesticides in farmed Atlantic salmon from Maine, eastern Canada, and Norway, and wild salmon from Alaska. *Environmental Science & Technology* 41(11): 4180.
- Shaw, S.D., Brenner, D., Berger, M.L., Fang, F., Hong, C-S., Storm, R., Hilker, D., and O'Keefe, P. (2007). Polybrominated diphenyl ethers (PBDEs) in harbor seals from the northwestern Atlantic: are seals debrominating Deca BDE? *Organohalogen Compounds* 69: 829-832.
- Shaw, S.D. (2006). *Seals as Sentinels: Assessing Toxic Contaminants in Northwestern Atlantic Coast Seals*. Final Project Report to the National Oceanographic and Atmospheric Administration. Marine Environmental Research Institute, Blue Hill, ME, 111 pp. Contract No. EA133F05CN1358.
- Shaw, S.D., Berger, M.L., Brenner, D., Chu, M.D., Matherly, C.K, Chu, A.C., and Clark, G.C. (2006). Application of the CALUX bioassay for the determination of PCDD/Fs and dioxin-like PCBs in tissues of harbor seals. *Organohalogen Compounds* 68:587-591.
- Shaw, S.D., Berger, M.L., Brenner, D., Fang, F., Hong, C-S., Storm, R., and O'Keefe, P. (2006). Polybrominated diphenyl ethers (PBDEs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic. *Organohalogen Compounds* 68: 600-603.
- Shaw, S.D., Berger, M.L., Brenner, D., and Kannan, K. (2006). Perfluorooctane sulfonate and related perfluorinated hydrocarbons in harbor seals (*Phoca vitulina concolor*) from the northwest Atlantic. *Organohalogen Compounds* 68: 2042-2046.
- Shaw, S.D. and Jenssen, B.M. (2006). Dioxin 2006 Session Summary: Levels and Effects in Marine Mammals. In: Thomsen, C. and Becher, G. (Eds), *Plenary Lecture Abstracts and Session Summaries, 26th International Symposium on Halogenated Persistent Organic Pollutants, Oslo, Norway*, pp. 51-54.
- Shaw, S.D., Brenner, D., Berger, M.L., Carpenter, D.O., Hong, C-S, and Kannan, K. (2006). PCBs, PCDD/Fs, and organochlorine pesticides in farmed Atlantic salmon from Maine, eastern Canada, and Norway, and wild salmon from Alaska. *Environmental Science &*

- Technology* 40:5347-5354.
- Shaw, S.D. (2005). *Seals as Sentinels: Assessing Toxic Contaminants in Northwestern Atlantic Coast Seals*. Final Project Report to the National Oceanographic and Atmospheric Administration. Marine Environmental Research Institute, Blue Hill, ME, 69 pp. Contract No. EA133F04CN0062.
- Shaw, S.D., Brenner, D., Bourakovsky, A., Mahaffey, C.A., and Perkins, C. R. (2005). Polychlorinated biphenyls and chlorinated pesticides in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic coast. *Marine Pollution Bulletin* 50 (10):1069-1084.
- Shaw, S.D., Brenner, D., Bourakovsky, A., Carpenter, D.O., Kannan, K., and Hong, C-S. (2005). PCBs, dioxin-like PCBs and organochlorine pesticides in farmed salmon (*Salmo salar*) from Maine and eastern Canada. *Organohalogen Compounds* 67: 1571-1576.
- Shaw, S.D., Bourakovsky, A., Brenner, D., Carpenter, D.O., Tao, L., Kannan, K., and Hong, C-S. (2005). Polybrominated diphenyl ethers (PBDEs) in farmed salmon (*Salmo salar*) from Maine and eastern Canada. *Organohalogen Compounds* 67: 644-646.
- Shaw, S.D., Brenner, D., Bourakovsky, A. Mahaffey, C.A., and Perkins, C.R. (2004). Persistent organic pollutants (POPs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic coast. *Organohalogen Compounds* 66: 1581-1588.
- Shaw, S.D., Brenner, D., Mahaffey, C.A., De Guise, S., Perkins, C.R., Clark, G.C., Denison, M.S., and Waring, G.T. (2003). Persistent organic pollutants (POPs) and immune function in US Atlantic coast harbor seals (*Phoca vitulina concolor*). *Organohalogen Compounds* 62: 220-223.
- Shaw, S.D. and Lebeuf, M. (2003). Persistent organic pollutants (POPs) in marine mammals. *Organohalogen Compounds, Dioxin 2003 Summary*, pp. 35-36.
- Shaw, S.D. (2002). An Investigation of Persistent Organic Pollutants (POPs) and Heavy Metals in Tissues of Harbor Seals and Gray Seals in the Gulf of Maine. *Final Report to the Maine Department of Environmental Protection*: 17 pp.
- Shaw, S.D. (2002). Summary Report, Gulf Of Maine Forum 2002: Protecting Our Coastal And Offshore Waters. November 1, 2002, Marine Environmental Research Institute, Blue Hill, Maine, 21 pp.
- Shaw, S.D. (2002). Persistent organic pollutants and mercury in Gulf of Maine seals. *Gulf of Maine Forum Proceedings 2002*: pp. 1-6.
- Shaw, S.D. (2002). Seals as sentinels for the Gulf of Maine ecosystem. *Gulf of Maine Forum Proceedings 2002*: pp. 1-7.
- Shaw, S.D. (2001). Perinatal exposure to persistent organic pollutants: parallels in seals and humans. *Organohalogen Compounds* 53: 21-26.
- Shaw, S.D. (2000). Immune function and thyroid hormone levels in Pacific harbor seals following perinatal exposure to organochlorines: Comparisons in neonatal seals and humans. In: Shaw, S.D., and De Guise, S. (Eds.), *Proceedings of the Atlantic Coast Contaminants Workshop (ACCW 2000): Endocrine Disruptors in the Marine Environment: Impacts on Marine Wildlife and Human Health*, Marine Environmental Research Institute, Blue Hill, ME, pp. 145-151.
- Shaw, S.D. and De Guise, S. (Eds), (2000). Endocrine Disruptors in the Marine Environment: Impact on Marine Wildlife and Human Health. *Proceedings of the Atlantic Coast*

- Contaminants Workshop 2000*, Scientific Report of the Marine Environmental Research Institute: 192 pp.
- De Guise, S., **Shaw, S.D.**, Barclay, J.S., Brock, J., Brouwer, A., Dewailly, E., Fair, P.A., Fournier, M., Grandjean, P., Guillette Jr., L.J., Hahn, M.E., Koopman-Esseboom, C., Letcher, R.J., Matz, A., Norstrom, R.J., Perkins, C.R., Schwacke, L., Skaare, J.U., Sowles, J., St. Aubin, D.J., Stegeman, J., and Whaley, J.E. (2001). Atlantic Coast Contaminants Workshop 2000: Consensus Statement of 22 Wildlife and Human Health Experts. *Environmental Health Perspectives* 109(12): 1301-1302.
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., and Shopp, G.M. (1999). Low-level exposure to PCBs is associated with immune and endocrine disruption in neonatal harbor seals (*Phoca vitulina*) from the California coast. *Organohalogen Compounds* 42: 11-14.
- Shaw, S.D. (1998). *Organochlorines and Biomarkers of Immune and Endocrine Effects in Pacific Harbor Seal and Northern Elephant Seal Pups* (Doctoral Thesis). New York: Columbia University School of Public Health/ Division of Environmental Health Sciences, 359 pp.
- Shaw, S.D. and Brenner, D. (1998). Low-level organochlorine exposure: Are neonatal seals at special risk? In: Ross, P.S., and De Guise, S. (Eds). *Environmental contaminants and marine mammal health: Research applications. Canadian Technical Report of Fisheries and Aquatic Sciences* 2255: pp. 8.
- Shaw, S.D., Hong, C-S., Xiao, J., Bush, B. (1998). Environmental occurrence and potential toxicity of planar, mono-, and di-ortho polychlorinated biphenyls in the biota. *Chemosphere* 36 (7):1637-1651.
- Hong, C-S., Calambokidis, J., Bush, B., Steiger, G.H., and **Shaw, S.D.** (1996). Polychlorinated biphenyls and organochlorine pesticides in harbor seal pups from the inland waters of Washington State. *Environmental Science & Technology* 30(3):837-844.
- Shaw, S.D., Brenner, D., Hong, C-S., and Bush, B. (1996). PCB contamination of seals inhabiting central and northern Pacific coastal waters. In: Haya, K. and Niimi, A.J. (Eds). Proceedings of the 22nd Annual Aquatic Toxicity Workshop, 2-4 October, 1995, St. Andrews. New Brunswick. Canadian Technical Report of Fisheries and Aquatic Sciences 2093: pp. 63.
- Shaw, S.D. and Rossol, M. (1992). Caution: Photography may be hazardous to your health. *Photo District News*, Vol. XII, Issue IV (April): 82-86.
- Hong, C.-S. Bush, B., **Shaw, S.D.** and Brenner, D. (1991). Coplanar polychlorinated biphenyls (PCBs) in striped bass and mussels from the New York bight and harbor seals from the Pacific coast: TCDD toxicity equivalence. *Organohalogen Compounds* 34: 4 pp.
- Shaw, S.D. and Rossol, M. (1991). Overexposure 1991: An update on health hazards in photography. *Japanese J. Medical Photography* (No. 8).
- Shaw, S.D. and Rossol, M. (1991). *Overexposure: Health Hazards in Photography*, Second Edition. New York: Allworth Press, Inc., 320 pp.
- Shaw, S.D. and Rossol, M. (1990). Overexposure 1990: An update on health hazards in photography. *J. Ophthalmic Photography* 12(1):9-16.
- Shaw, S.D. and Rossol, M. (1989). Warning: Photography May be Dangerous to Your Health. *Amer. Soc. Mag. Photog. Bulletin* 8(6):1,4-10,23.
- Shaw, S.D. (1985). In Process: Reproductive Hazards in Photography. *Photomethods* 28(6):7,23,50.

Shaw, S.D. (1983). *Overexposure: Health Hazards in Photography*. First Edition. Carmel, CA: The Friends of Photography, Inc., 329 pp.

Conference Presentations/Short Papers/Courses/Abstracts

2019

- Shaw, S.D. (2019). Plastics and the Toxic Chemistry of A World On Fire. Graduate seminar presented to faculty and students at the Institute of Health and the Environment, School of Public Health, University at Albany, Department of Environmental Health Sciences, State University of New York, 6 December, Albany, NY.
- Shaw, S.D. Berger, M.L., Chen, D., Rosing-Asvid, A., Granquist, S.M., and Roos, A.M. (2019). Assessing Global Threats of Pollution and Climate Change to Marine Mammals Across Three Oceans. Poster presentation at the Gulf of Maine 2050 International Symposium, 4 – 8 November, Portland, ME.
- Berger, M.L., Richard, H.L., Stack, M.E., Billig, K., Hulme, M., Nicolas, C., Uehara, R., Murnik, M.G., **Shaw, S.D.** (2019). Beach bacteria and human health in a changing climate. Poster presentation at the Gulf of Maine 2050 International Symposium, 4 – 8 November, Portland, ME.
- Stack, M.E., Berger, M.L., Richard, H.L., **Shaw, S.D.** (2019). Understanding climate impacts in the Gulf of Maine: Changing chemistry in midcoastal waters. Poster presentation at the Gulf of Maine 2050 International Symposium, 4 – 8 November, Portland, ME.
- Foy, C.E., Richard, H.L., Stack, M.E., **Shaw, S.D.** (2019). The changing intertidal zone: Invasive species' influence on hard substrate communities in a fast-warming climate. Poster presentation at the Gulf of Maine 2050 International Symposium, 4 – 8 November, Portland, ME.
- Shaw, S.D. (2019). When Plastics Burn. Keynote speaker at the first Plastic Health Summit, Amsterdam Theatre, convened by the Plastic Health Coalition/Plastic Soup Foundation, 3 October, Amsterdam, The Netherlands.
- Shaw, S.D. (2019). Confronting the Global Plastics Crisis. Conference keynote speaker at *II International Conference on Microplastic Pollution in the Mediterranean Sea (μ MED)*, Hotel La Residenza, 15 – 18 September, Capri, Italy.
- Shaw, S.D. Berger, M.L., Chen, D., Rosing-Asvid, A., Granquist, S.M., and Roos, A.M. (2019). Persistent Organic Pollutants and Climate Change: Assessing Global Risks to Marine Mammals Across Three Oceans. Talk presented at the *5th International Conference on Environmental Specimen Banks*, Swedish Museum of Natural History, 3-5 June, Stockholm, Sweden.
- Shaw, S.D. (2019). Confronting the Global Plastics Crisis. Talk presented at the *Plastic Health Coalition Partners Meeting, Road to the Summit*, Conscious Hotel, 30 April, Amsterdam, The Netherlands.
- Shaw, S.D. (2019). Diving in: A Marine Scientist Takes on Pollution, Policy and Public Health.

Keynote talk presented at *From Earth to Sky: Women Making a Difference in Geography*. Society of Woman Geographers and Geography and Map Division of the Library of Congress, Kluge Center, Thomas Jefferson Building, Library of Congress, 2 April, Washington, DC.

2018

- Shaw, S.D. (2018). Crisis Earth: Ethics of the Anthropocene. Presented at Muhlenberg College, Center for Ethics. Woodrow Wilson Visiting Fellow, 25 October, Allentown, PA
- Shaw, S.D. (2018). Marine Ecotoxicology: Notes from the Field. Presented at Muhlenberg College, Center for Ethics. Ecology. Woodrow Wilson Visiting Fellow, 24 October, Allentown, PA
- Shaw, S.D. (2018). Reckless Endangerment: Politics of the BP Oil Spill. Presented at Muhlenberg College, Center for Ethics, Introduction to American National Politics. Woodrow Wilson Visiting Fellow, 23 October, Allentown, PA
- Shaw, S.D. (2018). Scientific Advisor, The Klosters Forum: TKF 2018/ OCEAN SOS – Plastic Pollution. 24-27 July, Klosters, Switzerland
- Shaw, S.D. (2018). Science, Lies, and Politics. Speaker, EG Conference, 5-7 May, Carmel-by-the-Sea, CA
- Shaw, S.D. (2018). Panelist: Ocean Health and Human Health, EarthX 2018/ OCEANS. 19-22 April, Dallas, TX
- Shaw, S.D. (2018). Speaker, Conference on World Affairs, University of Colorado, 9-13 April, Boulder, CO
- Shaw, S.D. (2018). An Evening With Dr. Susan Shaw, American Environmental Health Scientist, St. Julien Hotel, 12 April, Boulder, CO
- Shaw, S.D. (2018). An Ocean Conversation, onstage interview, The Economist World Ocean Summit, 7-9 March, Riviera de Maya, Mexico

2017

- Shaw, S.D. (2017). Science, Lies, and Politics. Talk presented at TEDxMidAtlantic SUPERPOWERS, Sydney Harmon Hall, 27-28 October, Washington DC.
- Shaw, S.D. and Roos, A. (2017). Co-Chairs, Special Session PFASs: A New Concern for Humans and Wildlife. At the 37th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2017), 28 August - 2 September, Florence, Italy (<http://www.dioxin2017.org>).
- Shaw, S.D. (2017). Marine Pollution and the Toxic Legacy of Our Consumer Culture. Keynote lecture presented at the GEO Blue Planet Symposium, Session: Threats from Pollution, Warming and Acidification, NOAA Center for Weather and Climate Prediction, 31 May – 2 June, College Park, MD
- Shaw, S.D. (2017) Ocean Pollution, Climate Change, And The Vanishing World Of Marine Mammals. Invited lecture at the Re-Thinking Animals Summit, Panel: *The Threat to Environmental Sustainability, Are We Consuming to Kill the Planet?* New York Academy of Medicine, 5 – 7 May, New York City, NY

2016

- Shaw, S.D. and Roos, A. (2016). Co-Chairs, Special Session 8.6-1 Is Exposure to PFASs a New Concern for Humans and Wildlife? At the 36th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2016), 28 August - 2 September, Florence, Italy (<http://www.dioxin2016.org>).
- Shaw, S.D. and Brambilla, G. (2016). Co-Chairs, Special Session 8.6-2 Is Exposure to PFASs a New Concern for Humans and Wildlife? At the 36th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2016), 28 August - 2 September, Florence, Italy (<http://www.dioxin2016.org>).
- Shaw, S.D. (2016). Diving In: Ocean Pollution, Policy, and Public Health. Invited lecture presented at the Society of Woman Geographers, Macaulay Honors College, City University of New York, 7 May, New York City, NY
- Shaw, S.D. (2016). Ocean Pollution, Policy, and Public Health. Plenary lecture presented at the Sustainable Ocean Summit, Georgetown Sustainable Oceans Alliance, 2 April, Georgetown University, Washington, DC
- Shaw, S.D., Berger, M.L., Zahm, S.H., Kannan, K. (2016). Is Firefighting Carcinogenic? Chemical Exposure and Cancer Risk in the Modern Fire Environment. Lecture presented at Fire Toxicity 2016, 21-23 March, University of Central Lancashire, Preston, UK
- Shaw, S.D. (2016). Diving in: A Marine Scientist Takes on Pollution, Policy and Public Health. Public lecture presented at Mitchell College, Woodrow Wilson Visiting Fellow, 23 February, New London, CT
- Shaw, S.D. (2016). Environmental Resilience: Marine Mammals Show Toxic Stress. Presented at Mitchell College, Woodrow Wilson Visiting Fellow, 23 February, New London, CT
- Shaw, S.D. (2016). Environmental Ethics: Corporate Deception, Government Inaction & Public Health. Presented at Mitchell College, Woodrow Wilson Visiting Fellow, 23 February, New London, CT
- Shaw, S.D. (2016). Marine Ecology & Health Sciences: Ecosystem Sentinels & Microplastics Pollution. Public lecture presented at Mitchell College, Woodrow Wilson Visiting Fellow, 23 February, New London, CT
- Shaw, S.D. (2016). Environmental Leadership & Global Initiatives. Presented at Mitchell College, Woodrow Wilson Visiting Fellow, 22 February, New London, CT
- Shaw, S.D. (2016). Environmental Injustice: Legacy of the BP Oil Spill. Presented at Mitchell College, Race, Ethnicity, & Culture and Survey of the Human Adventure, Woodrow Wilson Visiting Fellow, 22 February, New London, CT

2015

- Shaw, S.D. (2015). Poisoned Waters: Our Oceans As Indicators of Planetary Health. Public lecture: Roque Island Lecturer on Environmental Conservation, University of Maine, 30 September, Machias, ME.

- Shaw, S.D. (2015). Overexposure: Confronting the Health Risks of Flame Retardants in Wildlife and Human Populations. Lecture presented at the University of Connecticut, Natural Resources & the Environment Seminar Series, 9 October, Storrs, CT.
- Shaw, S.D. (2015). Chemical Exposure and Cancer Risk Among Fire Fighters: An Update. Lecture presented at the IAFF John P. Redmond Symposium, U.S. and International Efforts on Cancer Awareness Workshop, 25-28 August, National Harbor, MD.
- Shaw, S.D. (2015). Toxic Hot Seat: Cancer in Today's Fire Service. Plenary lecture presented at Arrive Alive and Survive Safety Symposium, Council of Governments Safety Committee in the National Capital Region, 24-25 April, Montgomery County, MD
- Shaw, S.D. (2015). Addressing Cancer in the Fire Service: National Fire Fighter Cancer Biomarker Study. Plenary lecture presented at the InterAgency Board (IAB) Meeting, 9-12 February, Albuquerque, NM.
- Shaw, S.D. (2015). Fire Retardant Chemicals & the Impact on Firefighter Cancer Rates. Panel presentation at the InterAgency Board (IAB) Meeting, 9-12 February, Albuquerque, NM.
- Shaw, S.D. (2015). Human Health Consequences of Chemical Dispersant Use. Science and Policy Webinar for Media: Understanding the science of dispersants and upcoming EPA revisions to national oil spill contingency plans. 14 January, co-hosted by the ALERT Project, Earthjustice, and Government Accountability Project.

2014

- Shaw, S.D. (2014). Exposures of First Responders in the Pre- and Post-Fire Environment. Plenary lecture presented at the InterAgency Board (IAB) Annual Meeting, 21 October, Arlington, VA.
- Shaw, S.D. (2014). Is Fire Fighting Carcinogenic? Chemical Exposure and Cancer Risk Among Fire Fighters. Keynote lecture presented at the Annual Meeting, Island Heritage Trust, 24 September, Deer Isle, ME
- Shaw, S.D., Berger, M.L., Zahm, S.H., and Kannan, K. (2014). When Flame Retardants Burn: Exposure to Combustion By-Products and Cancer Risk Among Fire Fighters. Oral presentation at the 34th International Symposium on Halogenated Persistent Organic Pollutants, 31 August – 5 September, Madrid, Spain
- Shaw, S.D., Berger, M.L., Zahm, S.H., and Kannan, K. (2014). Is Firefighting Carcinogenic? Accumulation of Perfluorinated Chemicals in Fire Fighters. Lecture presented at the Green Science Policy Institute Symposium, 31 August, Madrid, Spain
- Shaw, S.D. (2014). State of Blue Hill Bay: A Ten-Year Window Into A Changing Ecosystem. Keynote lecture presented at the Friends of Blue Hill Bay Annual Meeting, 29 July, Blue Hill, ME
- Shaw, S.D. (2014). When Flame Retardants Burn: Chemical Exposure and Cancer Risk Among Fire Fighters During and After Firefighting. Briefing to the Commissioners, Consumer Product Safety Commission, sponsored by the Natural Resources Defense Council, 22 July, Bethesda, MD
- Shaw, S.D. (2014). Brominated Flame Retardants and Replacement Flame Retardants in Food Packaging. Oral presentation at BFR 2014, 14th Annual Workshop on Brominated and

- Other Flame Retardants, 22-24 June, School of Public and Environmental Affairs, Indiana University, Indianapolis, IN
- Shaw, S.D., Berger, M.L., Zahm, S.H., and Kannan, K. (2014). When Flame Retardants Burn: Chemical Exposure and Cancer Risk Among Fire Fighters. Poster presentation at BFR 2014, 14th Annual Workshop on Brominated and Other Flame Retardants, 22-24 June, School of Public and Environmental Affairs, Indiana University, Indianapolis, IN
- Shaw, S.D. (2014). Chemical Exposure and Cancer Risk Among Fire Fighters. Keynote lecture and Seminar, Augusta Fire Department, 11 June, Augusta ME
- Shaw, S.D. (2014). Reckless Endangerment: The Gulf Oil Spill Revisited and Why Canada Should Pay Attention. The Elisabeth Mann Borgese Distinguished Lecture, 9-10 June, International Ocean Institute, Dalhousie University, Halifax, Nova Scotia, Canada
- Shaw, S.D. (2014). Chemical Exposure and Cancer Risk Among Fire Fighters. Plenary lecture presented at the John J. Jennings Educational Seminar for Massachusetts Fire Fighters, 4 June, Framingham MA
- Shaw, S.D. (2014). Is Firefighting Carcinogenic? Chemical Exposure and Cancer Risk Among Fire Fighters. Plenary lecture presented at the 2nd Annual Furniture Flammability and Human Health Summit, Underwriters Laboratories, Inc. Safety Convergence Leadership Series, 20-22 May, Atlanta, GA
- Shaw, S.D. (2014). Chemical Exposure and Cancer Risk Among Fire Fighters. Plenary lecture presented at the Annual Health & Safety Seminar, Boston Fire Fighters and International Association of Fire Fighters (IAFF), 7 May, Boston MA
- Shaw, S.D. (2014). Is Firefighting Carcinogenic? Chemical Exposure and Cancer Risk Among Fire Fighters. Plenary lecture presented at the 60th Annual Convention, Minnesota Fire Fighters and International Association of Fire Fighters (IAFF), 5 May, Rochester, MN
- Shaw, S.D. (2014). Chemical Exposure and Cancer Risk in Fire Fighters. Paper presented at the Breast Cancer Fund Webinar to a national audience, 3 February, <http://vimeo.com/86062565>

2013

- Shaw, S.D. (2013). Bitter Medicine: The Legacy of Corexit in the Gulf. Plenary lecture presented at the Wilderness Medical Society Dauphin Island Meeting, 2 November, Dauphin Island, AL
- Shaw, S.D. (2013). Reckless Endangerment: The Gulf Oil Spill Revisited. Presented at TEDxMidAtlantic: *Start Now*, 26 October, Washington, DC
- Shaw, S.D. (2013). Chemical Exposure and Health Outcomes in Fire Fighters. Plenary lecture presented at the Maine Fire Chief's Association Annual Meeting, Augusta Civic Center, 3 October, Augusta, Maine
- Shaw, S.D. (2013). In The Footsteps of Rachel Carson: Can the Oceans Survive? Presented at St. Brendan The Navigator, 4 September, Deer Isle, Maine
- Shaw, S.D. (2013). Toxic Exposure and Fire Fighter Health. Presented at the Hancock County Fire Chiefs Meeting, 17 September, Seal Harbor, Maine

- Shaw, S.D. (2013). Firefighters, Flame Retardants, and Cancer: A Burning Issue. *Elisabeth Mann Borgese Distinguished Lecture*, presented at the Marine Environmental Research Institute, 26 July, Blue Hill, Maine
- Shaw, S.D. (2013) Firefighters, Flame Retardants, and Cancer: A Burning Issue. Plenary lecture presented at Stockholm University, Department of Environmental Chemistry, and The Swedish Museum of Natural History, 14 June, Stockholm, Sweden
- Shaw, S.D. (2013). Flame Retardants and Health Risks in Sentinel Species: From Marine Mammals to Firefighters. Graduate seminar presented at Uppsala University, Faculty of Science & Technology, 12 June, Uppsala, Sweden
- Shaw, S.D. (2013). Ecotoxicology: An Overview, Introduction to PhD Thesis Defense by Anna Roos. At Uppsala University, Faculty of Science & Technology, 11 June, Uppsala, Sweden
- Shaw, S.D. (2013). PhD Examiner, Thesis Defense by Anna Roos: *The Otter (Lutra lutra) in Sweden Contaminants and Health*. At Uppsala University, Faculty of Science & Technology, 11 June, Uppsala, Sweden
- Shaw, S.D. (2013). Flame Retardants and Health Risks in Sentinel Species: From Marine Mammals to Firefighters. Presented at the Green Science Policy Institute Symposium, 12 April, San Francisco, CA
- Shaw, S.D. (2013). When Flame Retardants Burn: Health Risks to Fire Fighters. Presented at the Toxic-Free Fire Safety Meeting, 12-13 February, New York, NY

2012

- Shaw, S.D. (2012). Marine Toxicology: Policy Issues Today. Presented at the Silent Spring Symposium: 50 Years Later, Cornerstones of Science, Portland Public Library, 6 December, Portland, ME
- Shaw, S.D. (2012). 50 Years After Rachel Carson: Can Our Oceans Survive? Presented at the Making Waves Symposium, 21 October, Boulder, CO
- Shaw, S.D. (2012). Persistent Organic Pollutants Including Polychlorinated and Polybrominated Dibenzo-*p*-dioxins and Dibenzofurans in Firefighters from Northern California. Seminar presented at the State University of New York-Albany, School of Public Health, Environmental Health Sciences, 16 October, Albany, NY
- Shaw, S.D. (2012). Ocean Pollution in an Ecological Perspective Impacts of Emerging Contaminants on Marine Wildlife. Seminar presented at the University of Maine, Wildlife Ecology Department, 1 October, Orono, ME
- Shaw, S.D. and Mason, C. (2012). In the Footsteps of Rachel Carson: Can Our Oceans Survive? Presented at the Marine Environmental Research Institute: The Rachel Carson Lectures, 20 September, Blue Hill, ME
- Shaw, S.D. (2012). State of the World's Oceans: Can We Save Our Seas? Plenary lecture presented at the University of Southern Maine, World Ocean Day/ Rachel Carson Lectures, 8 June, Portland, ME
- Shaw, S.D. (2012). Seals As Sentinels: Contaminants of Emerging Concern in Northwest Atlantic Harbor Seals. Presented at the NOAA NMFS Northeast Region Stranding Network Conference, 7-8 May, Bar Harbor Club, Bar Harbor ME

- Shaw, S.D. (2012). The Vostok Dilemma: Time Capsule or Tipping Point? Keynote lecture presented at the Dean's Forum, Northeastern University/ Woodrow Wilson Visiting Fellow, 29 March, Boston, MA
- Shaw, S.D. (2012). Diving in: A Marine Scientist Takes on Pollution, Policy and Public Health. Presented at Northeastern University/ Woodrow Wilson Visiting Fellow, International Conflict/ International Law, 29 March, Boston, MA
- Shaw, S.D. (2012). Ocean Pollution In An Ecological Perspective: Impacts of Emerging Contaminants on Marine Wildlife. Presented at Northeastern University, Marine Sciences Center/ Woodrow Wilson Visiting Fellow, 29 March, Nahant, MA
- Shaw, S.D. (2012). Taking the Skin Off: The Truth About Chemical Contaminants in Farmed Salmon. Presented at Northeastern University/ Woodrow Wilson Visiting Fellow, Food & American Society, 28 March, Boston, MA
- Shaw, S.D. (2012). The Gulf of Mexico Oil Spill Inside Out. Presented at Northeastern University/ Woodrow Wilson Visiting Fellow, Meet The Author Library Series, 28 March, Boston, MA
- Shaw, S.D. (2012). The Vostok Dilemma: Time Capsule or Tipping Point? Presented at The Explorers Club Annual Dinner Sunday Lectures, 18 March, New York, NY
- Shaw, S.D. (2012). Oceans in Crisis: Are You At Risk? Presented at the American Visionary Arts Museum, State of Our World 2012 EcoConference, 22 January, Baltimore, MD

2011

- Shaw, S.D. (2011). Ocean Pollution In An Ecological Perspective: Impacts Of Emerging Contaminants On Marine Wildlife. Keynote lecture presented at Swedish Marine Sciences Conference: *Visions of the Sea*, 22 November, Stockholm, Sweden
- Shaw, S.D. (2011). State of the Blue Hill Bay Ecosystem. Presented at the Blue Hill Bay Symposium, 17 November, Blue Hill, ME
- Shaw, S.D. (2011). A marine toxicologist's perspective on toxic exposures and hazards for Gulf fish and wildlife. Presented at the Health and Environmental Funders Network (HEFN) webinar, *Toxic threats to human and ecological health related to the BP Gulf Coast oil crisis*, 29 September
- Shaw, S.D., M.L. Berger, L. Weijs, A. Covaci (2011). Tissue Matters: Biomagnification of Brominated Flame Retardants in Harbor Seals from the Northwest Atlantic. Presented at the 12th International Conference on Environmental Science and Technology (CEST2011), 12-15 September, Rhodes, Greece
- Shaw S.D., Blum A., Weber R., Kannan K., Rich D., Lucas D., Koshland C.P., Dobraca D., Hanson S. and Birnbaum L.S. (2011). Halogenated flame retardants: Do the fire safety benefits justify the risks? Presented at the 12th International Conference on Environmental Science and Technology (CEST2011), 12-15 September, Rhodes, Greece
- Shaw, S.D. (2011). Halogenated flame retardants: Do the fire safety benefits justify the risks? Presented at the 31st International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2011. Special session: Risk Assessment, Management, and Regulation, 21-26 August, Brussels, Belgium, *Organohalogen Compounds* 73: 2036-2039.

- Shaw, S.D., M.L. Berger, L. Weijs, A. Covaci (2011). BFR 2011 Tissue Matters: Deca-BDE and HBCD Accumulation/ Biomagnification In The Northwest Atlantic Marine Food Web. Presented at BFR 2011, the 12th Workshop on Brominated and other Flame Retardants, 5-7 June, Boston University, Boston, MA
- Susan D. Shaw, Michelle Berger, Diane Brenner, Fu Fang, Chia-Swee Hong, Robin Storm, and Patrick O'Keefe. PBDEs, PCBs, and Dioxin-Like Compounds in Harbor Seals from the NW Atlantic: New Evidence of Deca-BDE (BDE-209) Exposure in a Marine Mammal Species (2011). Presented at the 13th Annual Meeting of the North Atlantic Regional Chapter of the Society of Environmental Toxicology and Chemistry (SETAC-NAC), Roger Williams University, 13-15 June, Bristol, Rhode Island.
- Susan D. Shaw, Michelle L. Berger, Meggan Dwyer, Diane Brenner, and Kurunthachalam Kannan (2011). Perfluorooctane Sulfonate and Related Perfluorinated Hydrocarbons in Harbor Seals (*Phoca vitulina concolor*) from the Northwest Atlantic. Presented at the 13th Annual Meeting of the North Atlantic Regional Chapter of the Society of Environmental Toxicology and Chemistry (SETAC-NAC), Roger Williams University, 13-15 June, Bristol, Rhode Island.
- Shaw, S.D. (2011). Diving In: A Marine Scientist Takes on Pollution, Policy, and Public Health. Keynote lecture presented at the Society of Women Geographers' Triennial: Local and Global Sustainability, 21 May, Boulder, CO
- Shaw, S.D. (2011). Aftermath of the Gulf Oil Spill: A Marine Toxicologist's Perspective, Presented at the Gulf Coast Leadership Summit, 20 April, New Orleans, LA

2010

- Shaw, S.D. (2010). The Imperiled Gulf of Mexico: A Marine Toxicologist's Perspective. Plenary lecture presented at the American College of Toxicology (ACT), 31st Annual Meeting, 10 November, Baltimore, MD
- Shaw, S.D. (2010). Anatomy of the Gulf Oil Spill: Hidden Damage, Emerging Health Concerns. Keynote lecture presented at the National Arts Club, 9 November, New York, NY
- Shaw, S.D. (2010). The Gulf of Mexico Inside Out: Strategic Science of the Oil Spill. Presented at TEDXMidAtlantic, 5 November, Washington, DC
- Shaw, S.D. (2010). Contaminants of Emerging Concern in the Gulf of Maine. Presented at the Casco Bay Estuary Partnership, State of the Bay 2010, 21 October, Portland, ME
- Shaw, S.D. (2010). Chemicals and the Gulf Oil Spill: Science and Policy. Presented at the Green Science Policy Institute Symposium, 12 September, San Antonio, TX
- Shaw, S.D. (2010). Chemicals and the Gulf Oil Spill: Science and Policy. Plenary lecture presented at the 31st International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2010, 13 September, San Antonio, TX
- Shaw, S.D. (2010). Imperiled Gulf: A Marine Toxicologist's Perspective. Presented at the TEDXOil Spill Conference, 28 June, Washington, DC
- Shaw, S.D. Berger, M.L., Kannan, K., Olaf, P., Weijs, L., Roosens, L. and Covaci, A. (2010). Tissue-specific biomagnification of polybrominated diphenyl ethers and hexabromocyclododecanes in harbor seals. Paper presented at the Society of Environmental

- Toxicology and Chemistry (SETAC) - Asia/Pacific 2010, 4-7 June 2010, Guangzhou, China.
- Shaw, S.D. (2010). Oceans in Crisis; Emerging Health Risks, Possible Solutions. Paper presented at the Society of Environmental Toxicology and Chemistry (SETAC) - Asia/Pacific 2010, 4-7 June 2010, Guangzhou, China.
- Shaw, S.D. (2010). Brominated Fire Retardants: Levels and Known Health Effects in Marine Wildlife and Humans. Paper presented at the Society of Environmental Toxicology and Chemistry (SETAC) - Asia/Pacific 2010, 4-7 June 2010, Guangzhou, China.
- Shaw, S.D., Blum, A. (2010). Halogenated Fire Retardants: Can Science-Based Policy Protect Wildlife and Humans from Toxic Exposure? Paper presented at the Society of Environmental Toxicology and Chemistry (SETAC) - Asia/Pacific 2010, 4-7 June 2010, Guangzhou, China.
- Shaw, S.D., Blum, A. (2010). Halogenated Fire Retardants: Can Science-Based Policy Protect Wildlife and Humans from Toxic Exposure? Presented at the International Conference on Marine Pollution and Ecotoxicology, Hong Kong City University, 31 May – June 3, Hong Kong, China.
- Shaw, S.D., Berger, M.L., Kannan, K., Weijs, L., Roosens, L., and Covaci, A. (2010). Brominated flame retardants and other emerging contaminants pose health risks to northwest Atlantic harbor seals (*Phoca vitulina concolor*). Paper presented at the NOAA NMFS Northeast Region Stranding Network Conference, 6-9 May, Bar Harbor, ME.
- Shaw, S.D. (2010). Toxic Secrets, Toxic Seas: The Fate of Chemicals in a Changing Climate. Presented at the Barnard College Scholar and Feminist Conference on Climate Change, 27 February, New York, NY
- Shaw, S.D. (2010). Statement to the 124th Maine State Legislature, re: HP1105, LD 1568, item 1, An Act To Clarify Maine's Phaseout of Polybrominated Diphenyl Ethers, 5-A. "Deca" Mixture of polybrominated diphenyl ethers in shipping pallets, 22 January, Augusta, ME.

2009

- Shaw, S.D. (2009). Ocean Pollution: Confronting the Invisible Threat. Presented at The Explorers Club 2nd State of the Oceans Forum: *Facing the Ocean Crisis, Reasons for Hope*, 7 December, New York, NY
- Susan D. Shaw, Michelle L. Berger, Kurunthachalam Kannan, Olaf Paepke, Liesbeth Weijs, Laurence Roosens, Adrian Covaci (2009). Brominated Flame Retardants Pose Increasing Risks to Marine Mammals. Presented at the Society of Marine Mammalogy (SMM) 20th Biennial Conference on the Biology of Marine Mammals, 12-16 October, Quebec, Canada.
- Shaw, S.D., Berger, M.L., Hong, C-S., Kannan, K., Paepke, O., and Covaci, A. (2009). Brominated Flame Retardants Pose Increasing Risks to Harbor Seals, Top Predators in the Gulf of Maine Ecosystem. Presented at the Gulf of Maine RARGOM Symposium, 5-8 October, St. Andrews, New Brunswick, Canada.
- Shaw, S.D. (2009). Brominated Fire Retardants: A Comparison of Levels and Known Health Effects in Humans and Wildlife. Keynote lecture presented at the American Chemical Society (ACS), Northeast Regional Meeting: Persistent Organics in the Environment – Sources, Levels, Transport and Fate, 7-10 October, Hartford, CT

- Shaw, S.D. (2009). Fire Retardants in Marine Ecosystems of the Americas: Emerging Health Risks to Marine Mammals. Seminar presented at the University of Southern Maine, Department of Applied Medical Sciences, October 1, Portland, ME
- Shaw, S.D. (2009). Oceans in Crisis: Emerging Health Risks, Innovative Solutions. Elisabeth Mann Borgese Distinguished Lecture presented at the Marine Environmental Research Institute, 24 September, Blue Hill, ME
- Shaw, S.D. (2009). Environmental Pollutants in Marine Ecosystems of the American Continents: Emerging Health Risks To Marine Mammals. Keynote lecture presented at the International COE Workshop: Health Risks of Environmental Chemicals in Marine Mammals, Ehime University, Matsuyama, and the National Science Museum, Tokyo, Japan, 11-12 September, Matsuyama, Japan.
- Shaw, S.D., Berger, M.L., Weijs, L., Roosens, L., Covaci, A. (2009). Specific Accumulation of PBDEs Including Deca- BDE in Tissues of Northwest Atlantic Harbor Seals. Paper presented at 29th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2009, 23-28 August, Beijing, China. *Organohalogen Compounds* 71: 2547-2552.
- Covaci, A., Weijs, L., Roosens, L., Berger, M.L., Neels, H., Blust, R., **Shaw, S.D.** (2009). Accumulation of hexabromocyclododecanes (HBCDs) and their metabolites in pup and adult harbour seals from the northwest Atlantic. Paper presented at Dioxin 2009, 29th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, 23-28 August, Beijing, China. *Organohalogen Compounds* 71: 1486-1490.
- Shaw, S.D. (2009). A Comparison of Halogenated Fire Retardant Levels and Known Health Effects in Humans and Wildlife. Paper presented at the Fire Retardant Dilemma in China: Green Science Policy Symposium, Western Academy of Beijing, 22 August, Beijing, China.
- Shaw, S.D. (2009). Toxic Seas: The Oceans As Sinks and Reservoirs of Pollution. Presented at The Explorers Club 1st State of the Oceans Forum: Oceans in Crisis:A Call To Action, 22 March, New York, NY

2008

- Shaw, S.D. (2008). Life on the Ledge: The Uncertain Future of the Harbor Seal. Presented at The Explorers Club, 20 October, New York, NY
- Susan D. Shaw, Dianne Brenner, Michelle L. Berger, Nina Lohmann, and Olaf Pöpke (2008). Bioaccumulation of PBDEs and HBCD in the Northwest Atlantic Marine Food Web. Paper presented at the 28th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2008, 22-27 August, Birmingham, UK. *Organohalogen Compounds* 70: 841-845.
- Shaw, S.D. (2008). Bioaccumulation and Health Risks of PBDEs and PFCs in Marine Mammals: Are We Running out of Time? Presented at the Fire Retardant Dilemma Symposium, Green Policy Institute, University of California, 8 May, Berkeley, CA

2007

- Susan D. Shaw, Dianne Brenner, Michelle L. Berger, Fu Fang, Chia-Swee Hong, Robin Storm, David Hilker, Patrick O'Keefe (2007). PBDEs in Harbor Seals from the NW Atlantic: Are Seals Debrominating Deca BDE? Presented at the Society of Marine Mammology (SMM), 18th Biennial Conference on the Biology of Marine Mammals, 15-19 December, Cape Town, South Africa.
- Shaw, S.D. (2007). Brominated flame retardants in harbor seals: A burning issue. Presented at the New England Aquarium, Lowell Lecture Series, 16 October, Boston, MA
- Susan D. Shaw, Dianne Brenner, Michelle L. Berger, Fu Fang, Chia-Swee Hong, Robin Storm, David Hilker, Patrick O'Keefe (2007). PBDEs in Harbor Seals from the NW Atlantic: Are Seals Debrominating Deca BDE? Paper presented at the 27th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2007, 2-7 September, Tokyo, Japan. *Organohalogen Compounds* 69: 829-832.
- Susan D. Shaw, Diane Brenner, Michelle L. Berger, Fu Fang, Chia-Swee Hong, Robin Storm, David Hilker, Patrick O'Keefe (2007). PBDEs, PCBs, and Dioxin-Like Compounds in Harbor Seals from the NW Atlantic: New Evidence of Deca-BDE (BDE-209) Exposure in a Marine Mammal Species. Presented at the 4th International Workshop on Brominated Flame Retardants, 24-27 April, Amsterdam, The Netherlands.
- Shaw, S.D. (2007). Brominated Flame Retardants (PBDEs) Including Deca-BDE in Gulf of Maine Harbor Seals. Testimony given before the Joint Standing Committee on Natural Resources, Maine House of Representative, State of Maine 123rd Legislature, re: LD 1658 (HP 1167) "An Act To Protect Pregnant Women and Children from Toxic Chemicals Released into the Home" sponsored by Representative Hannah Pingree, and LD 1488 (HP 1050) "An Act to Reduce Contamination in the Home from the Release of Brominated Flame Retardants" sponsored by Representative Ted Koffman on behalf of the Natural Resources Committee, 5 April, Augusta, ME
- Shaw, S.D. (2007). Impacts of Toxic Pollutants on Northwestern Atlantic Harbor Seals: Implications for Casco Bay. Presented at the USEPA-Casco Bay Estuary Partnership Conference: Toxic Pollution in Casco Bay, 28 February, Portland, ME
- Shaw, S.D. (2007). Seals As Sentinels for Persistent Pollutants in the Gulf of Maine. Seminar presented at the Maine Maritime Academy, 12 February, Castine, ME

2006

- Shaw, S.D., Berger, M.L., Brenner, D., Fang, F., Hong, C-S., Storm, R., and O'Keefe, P. (2006). Polybrominated diphenyl ethers (PBDEs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic. Presented at the Society for Environmental Toxicology and Chemistry (SETAC) 27th Annual Meeting, 5-9 November 2006, Montreal, Canada.
- Shaw, S.D., Berger, M.L., Brenner, D., Chu, M.D., Matherly, C.K, Chu, A.C., and Clark, G.C. (2006). Application of the CALUX bioassay for the determination of PCDD/Fs and dioxin-like PCBs in tissues of harbor seals. Paper presented at the 26th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2006, 21-25 August, Oslo, Norway. *Organohalogen Compounds* 68:587-591.

- Shaw, S.D., Berger, M.L., Brenner, D., Fang, F., Hong, C-S., Storm, R., and O'Keefe, P. (2006). Polybrominated diphenyl ethers (PBDEs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic. Paper presented at the 26th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2006, 21-25 August, Oslo, Norway. *Organohalogen Compounds* 68: 600-603.
- Shaw, S.D., Berger, M.L., Brenner, D., and Kannan, K. (2006). Perfluorooctane sulfonate and related perfluorinated hydrocarbons in harbor seals (*Phoca vitulina concolor*) from the northwest Atlantic. Paper presented at the 26th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2006, 21-25 August, Oslo, Norway. *Organohalogen Compounds* 68: 2042-2046.
- Shaw, S.D. and Jenssen, B.M. (2006). Session Summary: Levels and Effects in Marine Mammals. 26th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2006, 21-25 August, Oslo, Norway. *Organohalogen Compounds* 68:
- Shaw, S.D. (2006). Accumulation of polybrominated diphenyl ethers (PBDEs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic. BFR 2006, 8th Annual Workshop on Brominated Flame Retardants (BFR) in the Environment, 27-29 June, Ontario Ministry of the Environment, Toronto, Canada.

2005

- Shaw, S.D. (2005). Persistent Organic Pollutants (POPs) in Harbor Seals from the Northwestern Atlantic Coast. Presented at the State of the Bay 2005 Conference, USEPA-Casco Bay Estuary Partnership, 3 November, Portland, ME
- Shaw, S.D., Brenner, D., Bourakovsky, A., Carpenter, D.O., Kannan, K., and Hong, C-S. (2005). PCBs, dioxin-like PCBs and organochlorine pesticides in farmed salmon (*Salmo salar*) from Maine and eastern Canada. Paper presented at the 25th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2005, 22-26 August, Toronto, Canada. *Organohalogen Compounds* 67: 1571-1576.
- Shaw, S.D., Bourakovsky, A., Brenner, D., Carpenter, D.O., Tao, L., Kannan, K., and Hong, C-S. (2005). Polybrominated diphenyl ethers (PBDEs) in farmed salmon (*Salmo salar*) from Maine and eastern Canada. Paper presented at the 25th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants, Dioxin 2005, 22-26 August, Toronto, Canada. *Organohalogen Compounds* 67: 644-646.
- Shaw, S.D. (2005). Polybrominated diphenyl ethers (PBDEs) in farmed salmon (*Salmo salar*) from Maine and eastern Canada. 7th Annual Workshop on Brominated Flame Retardants (BFR) in the Environment, 13-14 June, National Institute of Standards and Technology, Gaithersburg, MD

2004

- Shaw, S.D., Brenner, D., Bourakovsky, A. Mahaffey, C.A., and Perkins, C.R. (2004). Persistent organic pollutants (POPs) in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic coast. Paper presented at the 24th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2004, 6-10 September, Berlin, Germany. *Organohalogen Compounds* 66: 1581-1588.
- Shaw, S.D. (2004). US Gulf of Maine Forum 2002: Protecting Our Coastal and Offshore Waters. Report presented at the Gulf of Maine Summit 2004, 27-29 October, St. Andrews, New Brunswick, Canada.
- Shaw, S.D. (2004). Are Our Oceans Safe? Seals As Sentinels. Seminar presented at the University of New England, Marine Science Education and Research Center, 29 January, Biddeford, ME
- Shaw, S.D. (2004). Seals As Sentinels: Assessing Toxic Contaminants in Northwestern Atlantic Coast Seals. Presented at the Atlantic Northeast Coastal Indicators Workshop, 6-8 January, University of New Hampshire, Durham, NH

2003

- Shaw, S.D. (2003). Persistent Organic Pollutants and Immune Function in US Atlantic Coast Harbor Seals. Society of Marine Mammology (SMM), 15th Biennial Conference on the Biology of Marine Mammals, 15-19 December, Greensboro, NC
- Shaw, S.D. (2003). Seals As Sentinels: Assessing Toxic Contaminants in Gulf of Maine Seals. Seminar presented at the College of the Atlantic, Department of Marine Mammology, 21 October, Bar Harbor, ME
- Shaw, S.D. (2003). Dioxin-like chemicals (PCBs, PCDD/Fs) and Immune Function in US Atlantic Coast Harbor Seals. Presented at the 23rd International Congress on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Dioxin 2003, 24-29 August, Boston, MA. *Organohalogen Compounds* 62: 220-223.

2002

- Shaw, S.D. (2002). Seals As Sentinels: Assessing Toxic Contaminants in Gulf of Maine Harbor Seals. Presented at the Atlantic Northeast Coastal Monitoring Summit, 10-12 December, Durham, NH
- Shaw, S.D. (2002). Persistent organic pollutants and mercury in US Atlantic coast seals. Paper presented at the Society for Environmental Toxicology and Chemistry (SETAC) 23rd Annual Meeting, 16-20 November, Salt Lake City, UT
- Shaw, S.D. (2002). Persistent organic pollutants and mercury in Gulf of Maine seals. Paper presented at the Gulf of Maine Forum: Protecting Our Coastal and Offshore Waters. *Gulf of Maine Forum Proceedings 2002*, pp. 1-6.
- Shaw, S.D. (2002). Seals as sentinels for the Gulf of Maine ecosystem. Paper presented at the Gulf of Maine Forum: Protecting Our Coastal and Offshore Waters. *Gulf of Maine Forum Proceedings 2002*, pp. 1-7.
- Shaw, S.D. (2002). Assessing Health Status and Contaminant Loads in Stranded US Atlantic

Coast Pinnipeds. Presented at the NOAA NMFS Northeast Region Stranding Conference, 10-12 May, Mystic, CT

Shaw, S.D. (2002). Persistent organic pollutants and heavy metals in free-ranging harbor seals in the Gulf of Maine. Paper presented at the Society for Environmental Toxicology and Chemistry North Atlantic Chapter (SETAC- NAC) 8th Annual Meeting, 24-26 April, Portland, ME

Shaw, S.D. (2002). Marine mammals as indicator species for the Gulf of Maine ecosystem. Graduate Seminar, University of New Brunswick, Biology Department, 4 April, St. John, New Brunswick, Canada

2001

Shaw, S.D. Shaw, Brenner, D., Shopp, G.M., Hong, C-S., Herdt, T., Bush, B. (2001). Immune and endocrine alterations in neonatal harbor seals following low-level exposure to PCBs and chlorinated pesticides during gestation and lactation. SMM 14th Biennial Conference on the Biology of Marine Mammals, 28 November – 3 December, Vancouver, BC, Canada.

Shaw, S.D., Brenner, D., Shopp, G.M., Hong, C-S., Bush, B. (2001). Perinatal exposure to persistent organic pollutants and immune and endocrine alterations in Pacific harbor seal pups Society for Environmental Toxicology and Chemistry (SETAC) 22nd Annual Meeting, 12-15 November, Baltimore, MD

Shaw, S.D., Brenner, D., Shopp, G.M., Hong, C-S., Bush, B. (2001). Perinatal exposure to persistent organic pollutants: Parallels in seals and humans. Paper presented at the 21st International Congress on Halogenated Environmental Organic Pollutants and POPs, Dioxin 2001, 10-14 September, Kyeongju, South Korea. *Organohalogen Compounds* 53: 21-26.

Shaw, S.D. (2001). Assessing toxic contaminants in Gulf of Maine seals. NOAA NMFS Northeast Region Stranding Conference, 19-22 April, Riverhead, NY

2000

Shaw, S.D. (2000). A multidisciplinary investigation of contaminants and health effects in Atlantic coast harbor seals. Paper presented at the Norwegian National Veterinary Institute, 15 November, Oslo, Norway.

Shaw, S.D. (2000). Immune function and thyroid hormone levels in Pacific harbor seals following perinatal exposure to organochlorines: Parallels in neonatal seals and humans. Paper presented at the Atlantic Coast Contaminants Workshop (ACCW 2000): Endocrine Disruptors in the Marine Environment: Impacts on Marine Wildlife and Human Health, 22-25 June, The Jackson Laboratory, Bar Harbor, ME

1999

Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., Shopp, G.M. (1999). Low-level perinatal

- PCB exposure is associated with reduced lymphocyte mitogen responses in Pacific harbor seal pups. Society of Marine Mammalogy (SMM) 13th Biennial Conference on the Biology of Marine Mammals, 28 November – 3 December, Maui, HI
- Shaw, S.D., Brenner, D., Shopp, G.M., Hong, C-S., Herdt, T., Bush, B. (2001). Perinatal exposure to PCBs is associated with reduced serum thyroxine (T4) and vitamin A (retinol) levels in Pacific harbor seals. Society for Environmental Toxicology and Chemistry (SETAC) 20th Annual Meeting: *Sustaining Global Environmental Integrity*, 14-18 November, Philadelphia, PA
- Shaw, S.D. (1999). Immune and thyroid disruption following low-level exposure to organochlorines in Pacific coast harbor seals. Graduate seminar presented at the University of Connecticut, Department of Pathobiology, Comparative Pathology Seminar Series, 14 October, Storrs, CT
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., and Shopp, G.M. (1999). Low-level exposure to PCBs is associated with immune and endocrine disruption in neonatal harbor seals (*Phoca vitulina*) from the California coast. Paper presented at the 19th International Symposium on Halogenated Environmental Organic Pollutants and POPs, Dioxin 1999, 12-17 September, Venice, Italy. *Organohalogen Compounds* 42: 11-14.
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B. (1999). Determination of non-ortho, mono-ortho, and di-ortho substituted PCBs in harbor seal and northern elephant seal pups from the California coast. Presented at the Society for Environmental Toxicology and Chemistry, North Atlantic Chapter (SETAC-NAC) 5th Annual Meeting, 25-26 June, Boston, MA
- Shaw, S.D. (1999). Immune and endocrine-disruption following low-level perinatal exposure to organochlorines in Pacific coast harbor seals. Ecotoxicology Research Seminar, Institute of Ocean Sciences/ Department of Fisheries and Oceans, Contaminants Section, 16 March, Vancouver, BC, Canada.
- Shaw, S.D. (1999). Organochlorines and biomarkers of immune and endocrine effects in Pacific harbor seal and northern elephant seal pups. Dissertation Seminar, Columbia University School of Public Health, Division of Environmental Health Sciences, 17 June, New York, NY.

1998

- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., Gerber, J.A., and Shopp, G.M. (1998). Biomarkers of coplanar PCB contamination in Pacific harbor seals (*Phoca vitulina*) and northern elephant seals (*Mirounga angustirostris*). Paper presented at the Society of Marine Mammalogy (SMM) and European Cetacean Society (ECS), World Marine Mammal Science Conference, 20-24 January, Monte Carlo, Monaco.
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., Nachreiner, R.F., and Shopp, G.M. (1998). Altered thyroid hormone levels in stranded neonatal harbor seals (*Phoca vitulina*) are associated with blubber concentrations of polychlorinated biphenyls (PCBs). Paper presented at the Society of Marine Mammalogy (SMM) and European Cetacean Society (ECS), World Marine Mammal Science Conference, 20-24 January, Monte Carlo, Monaco.
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., and Shopp, G.M. (1998). Reduced lymphocyte

responses in stranded neonatal harbor seals (*Phoca vitulina*) are associated with elevated blubber concentrations of planar and nonplanar polychlorinated biphenyls (PCBs). Paper presented at the Society of Marine Mammalogy (SMM) and European Cetacean Society (ECS), World Marine Mammal Science Conference, 20-24 January, Monte Carlo, Monaco.

1996

- Shaw, S.D., Brenner, D., Hong, C-S., and Bush, B. (1996). PCB contamination of seals inhabiting central and northern Pacific coastal waters. Paper presented at the 22nd Annual Aquatic Toxicity Workshop, 2-4 October, St. Andrews, New Brunswick.
- Shaw, S.D. (1996). Biomarkers of PCB congener and organochlorine pesticide exposure and effects in Pacific harbor seals (*Phoca vitulina*) and northern elephant seals (*Mirounga angustirostris*) stranded in the Puget Sound estuary and along central and northern California. Doctoral Seminar, Columbia University School of Public Health, Division of Environmental Health Sciences, 14 October, New York, NY.

1995

- Shaw, S.D., Brenner, D., Hong, C-S., and Bush, B. (1995). Coplanar polychlorinated biphenyls (PCBs) in Pacific harbor seal and northern elephant seal pups: health implications of TCDD toxicity equivalents (TEQs) in blubber. Presented at the Society for Environmental Toxicology and Chemistry (SETAC) 2nd World Congress, 11-14 November, Vancouver, BC, Canada.
- Hong, C-S., J. Xiao, B. Bush, and **S.D. Shaw** (1995). Environmental occurrence and potential toxicity of planar, mono-, and di-ortho polychlorinated biphenyls in the biota. Poster presented at the Society for Environmental Toxicology and Chemistry (SETAC) 2nd World Congress, 11-14 November, Vancouver, BC, Canada.
- Shaw, S.D., Brenner, D., Hong, C-S., and Bush, B. (1995). PCB contamination of seals inhabiting central and northern Pacific coastal waters. Paper presented at the 22nd Annual Aquatic Toxicity Workshop, 2-4 October, St. Andrews, New Brunswick, Canada.

1991

- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., Nachreiner, R.F., and Shopp, G.M. (1991). Reduced lymphocyte responses and thyroid hormone levels in stranded neonatal harbor seals (*Phoca vitulina*) are associated with elevated blubber concentrations of planar and nonplanar polychlorinated biphenyls (PCBs). Paper presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Shaw, S.D., Brenner, D., Shopp, G.M., Jr., Galbreth, K., Bush, B., and Hong, C-S. (1991). Biomarkers of immune function in PCB-exposed elephant seals (*Mirounga*

- angostirostris*) and harbor seals (*Phoca vitulina*). Poster presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Hahn, M.E., Steiger, G.H., Calambokidis, J., **Shaw, S.D.**, and Stegeman, J.J. (1991). Immunochemical characterization of cytochrome P450 in harbor seals (*Phoca vitulina*). Poster presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Hong, C-S., **Shaw, S.D.**, Brenner, D., and Bush, B. (1991). Non-*ortho* and mono-*ortho* substituted polychlorinated biphenyls (PCBs) and organochlorine pesticide residues in blubber of Pacific harbor seal (*Phoca vitulina*) and northern elephant seal (*Mirounga angostirostris*) pups. Paper presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Hong, C-S., Bush, B., **Shaw, S.D.**, and Brenner, D. (1991). Coplanar PCB in blubber and serum from harbor seals (*Phoca vitulina*) and northern elephant seals (*Mirounga angostirostris*): TCDD toxicity equivalence. Poster presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Brenner, D., **Shaw, S.D.**, Bush, B., Hong, C-S., and Nachreiner, R.F. (1991). Vitamin A and thyroid hormone levels, biomarkers of endocrine function in PCB-exposed elephant seals (*Mirounga angostirostris*) and harbor seals (*Phoca vitulina*). Poster presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Shopp, G.M., Galbreth, K., Gerber, J., and **Shaw, S.D.** (1991). A whole blood mitogen assay for the assessment of immune function in the elephant seal. Paper presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Shaw, S.D., Brenner, D., Hong, C-S., Bush, B., and Herdt, T. (1991). Alterations of retinol (vitamin A) homeostasis in weanling northern elephant seals (*Mirounga angostirostris*) following perinatal exposure to polychlorinated biphenyls (PCBs) and hexachlorobenzene (HCB). Paper presented at the Society of Marine Mammalogy (SMM) 9th Biennial Conference on the Biology of Marine Mammals, 5-9 December, Chicago, IL
- Hong, C-S., Bush, B., **Shaw, S.D.**, and Brenner, D. (1991). Coplanar polychlorinated biphenyls (PCBs) in striped bass and mussels from the New York bight and harbor seals from the Pacific coast: TCDD toxicity equivalence. Paper presented in the 11th International Symposium on Chlorinated Dioxins and Related Compounds, Dioxin 1991, University of North Carolina, School of Public Health, 23-27 September, Chapel Hill, NC

Invited Lectures

- 2019 **Conference Keynote Speaker: II International Conference on Microplastic Pollution in the Mediterranean Sea (μ MED), Capri, Italy**

- 2019 **Keynote lecture:** *From Earth to Sky: Women Making a Difference in Geography*. Society of Woman Geographers and Geography and Map Division of the Library of Congress, Washington, DC
- 2018 **Woodrow Wilson Visiting Fellow**, Muhlenberg College Center for Ethics. *Ethics of the Anthropocene: Crisis Earth*, Allentown, PA
- 2017 **TED talk: SUPERPOWERS: Science, Lies, and Politics**. TEDxMidAtlantic, Washington, DC
- 2016 **Keynote lecture:** The Society of Woman Geographers, Macaulay Honors College, City University of New York, NY
- 2016 **Plenary lecture:** Fire Toxicity 2016, University of Central Lancashire, Preston, UK
- 2016 **Plenary lecture:** Sustainable Ocean Summit, Georgetown Sustainable Oceans Alliance, Georgetown University, Washington, DC
- 2016 **Woodrow Wilson Visiting Fellow**, Mitchell College, New London, CT
- 2015 **Roque Island Distinguished Annual Lecturer** on Environmental Conservation, University of Maine, Machias ME
- 2015 **Public lecture:** Natural Resources & the Environment Seminar Series, University of Connecticut, Storrs, CT
- 2015 **Plenary lecture:** IAFF John P. Redmond Symposium, U.S. and International Efforts on Cancer Awareness Workshop, National Harbor, MD
- 2015 **Plenary lecture:** Council of Governments Safety Committee, National Capital Region, Montgomery County, MD
- 2015 **Plenary lecture:** InterAgency Board Meeting, Albuquerque, NM
- 2014 **Elisabeth Mann Borgese Distinguished Lecturer:** International Ocean Institute, Dalhousie University, Halifax, Nova Scotia, Canada
- 2014 **Plenary lecture:** Underwriters Laboratories, Inc. Safety Convergence Leadership Series, Atlanta, GA
- 2014 **Plenary lecture:** InterAgency Board Annual Meeting, Arlington, VA
- 2014 **Invited lecture:** Breast Cancer Fund Webinar
- 2014 **Plenary lecture:** John J. Jennings Educational Seminar for Massachusetts Fire Fighters

- 2013 **Plenary lecture:** Wilderness Medical Society, Dauphin Island, AL
- 2013 **TED talk: Reckless Endangerment: BP Oil Spill,** TEDxMidAtlantic, Washington, DC
- 2013 **PhD Examiner,** Thesis Defense by Anna Roos: *The Otter (Lutra lutra) in Sweden Contaminants and Health*, Uppsala University, Faculty of Science & Technology, Uppsala, Sweden
- 2013 **Introductory Lecture: Ecotoxicology,** Uppsala University, Faculty of Science & Technology, Uppsala, Sweden
- 2013 **Plenary lecture:** Stockholm University, Department of Environmental Chemistry, Stockholm, Sweden
- 2012 **Citation of Merit Award lecture:** The Explorers Club, New York, NY
- 2012 **Woodrow Wilson Visiting Fellow,** Northeastern University, Artists and Practitioners in Residence Program, Boston, MA
- 2012 **Woodrow Wilson Visiting Fellow,** Northeastern University, Marine Sciences Center, Nahant, MA
- 2011 **Keynote lecture:** Swedish Marine Sciences Institute, Stockholm, Sweden
- 2011 **Gold Medal Award Lecture,** Society of Woman Geographers Triennial, Boulder, CO
- 2011 **Invited lecture:** Health and Environmental Funders Network (HEFN) webinar
- 2010 **TED talk: TEDxOilSpill,** TEDxMidAtlantic, Washington, DC
- 2010 **Keynote lecture:** American College of Toxicology, Baltimore MD
- 2010 **Four Invited lectures on Marine Pollution:** Society of Environmental Toxicology and Chemistry (SETAC) - Asia/Pacific, Guangzhou, China
- 2010 **Plenary lecture:** Barnard College, Columbia University, New York, NY
- 2009 **Invited seminar:** University of Southern Maine, Portland, ME
- 2009 **Keynote lecture:** Ehime University, Matsuyama, Japan
- 2009 **Invited lecture:** Western Academy of Beijing, China

- 2008 **Invited lecture:** University of California, Berkeley, CA
- 2007 **Gulf of Maine Visionary Award lecture:** Gulf of Maine Council on the Marine Environment, St. Andrews, New Brunswick, Canada
- 2007 **Invited seminar:** Maine Maritime Academy, Castine, ME
- 2008-09 **Public lectures:** The Explorers Club, New York, NY
- 2004 **Invited seminar:** University of New England, Biddeford, ME
- 2004 **Invited lecture:** University of New Hampshire, Durham, NH
- 2003 **Invited seminar:** College of the Atlantic, Bar Harbor, ME
- 2002 **Keynote lecture:** University of New Brunswick, St. John, NB, Canada
- 2000 **International Working Group lecture:** National Veterinary Institute, Oslo, Norway
- 1999 **Graduate seminar:** University of Connecticut, Department of Pathobiology, Storrs, CT
- 1999 **Graduate seminar:** Institute of Ocean Sciences, Department of Fisheries and Oceans (DFO), Vancouver, British Columbia, Canada

Funding/ Research Grants Awarded (since 1991, \$5 million in last 10 years)

- 2016 - 2020 Laboratories and environmental research/monitoring in the Gulf of Maine, Britton Fund: \$40,000 annually (PI)
- 2016-2020 Marine research. Fidelity Charitable Gift Fund Grant: \$150,000 annually (PI)
- 2019 Microplastics research. Anonymous Gift \$100,000 (PI)
- 2018 Microplastics research. Anonymous Gift \$100,000 (PI)
- 2016 -2019 Marine research and conservation in the Gulf of Maine. Becton Family Foundation: \$35,000 (PI)
- 2016-2017 Microplastics research in the Gulf of Maine. Dorothy Jordan Chadwick Foundation: \$5,000 (PI)

- 2013-2015 Laboratories and environmental research/monitoring in the Gulf of Maine, Britton Fund: \$55,000 (PI)
- 2012-2013 Laboratories and environmental research/monitoring in the Gulf of Maine, Britton Fund: \$45,000 (PI)
- 2010-2012 Chemical exposure in fire fighters from northern California, Fidelity Charitable Gift Fund Grant: \$200,000 (PI)
- 2011-2012 Laboratories and environmental research/monitoring in the Gulf of Maine; microplastics studies, Britton Fund: \$50,000 (PI)
- 2010-2011 Laboratories and environmental research/monitoring in the Gulf of Maine, Britton Fund: \$80,000 (PI)
- 2009-2010 Laboratories and environmental research/monitoring in the Gulf of Maine, Britton Fund: \$80,000 (PI)
- 2009 Emerging contaminants (novel and replacement flame retardants) in northwest Atlantic harbor seals and commercial fish stocks, National Oceanographic Atmospheric Administration-National Marine Fisheries Service (NOAA-NMFS) Contract # NA09NMF4720188: \$99,900 (PI)
- 2008-2013 Environmental monitoring/ microplastics research in the Gulf of Maine. Dorothy Jordan Chadwick Foundation: (total) \$93,000 (PI)
- 2008-2009 Laboratories and environmental research/monitoring in the Gulf of Maine. Britton Fund: \$88,556 (PI)
- 2007-2010 Research and conservation in the Gulf of Maine. Purchase and refit of research vessel. Maurice Amado Foundation: (total) \$85,000
- 2007 Environmental monitoring in mid-coastal Maine. Grayce B. Kerr Fund: \$76,598 (PI)
- 2006-2009 Marine research and conservation in the Gulf of Maine. Agnes G. Milliken Foundation: (total) \$8,000
- 2006 Research and conservation in the Gulf of Maine. Stephen and Tabitha King Foundation: \$10,000
- 2005-2006 *Seals as Sentinels: Assessing Toxic Contaminants in Northwestern Atlantic Coast Seals.* Assessment of toxic contaminants in harbor seals and commercially important fish stocks. Studies include polybrominated diphenyl ethers (PBDEs)

and hexabromocyclododecanes (HBCDs) in the northwest Atlantic marine food web; perfluorinated chemicals (PFCs) in harbor seal tissues; PBDEs in farmed and wild salmon. NOAA-NMFS Contract #EA133F05CN1358: \$280,887 (PI)

- 2004-2013 Environmental monitoring and research internships, Center for Marine Studies. Hunter-Grubb Foundation: (total) \$61,000
- 2004-2011 Ecotoxicological research and conservation in the Gulf of Maine. Hartfield Foundation: (total) \$45,000 (PI)
- 2004-2005 *Seals as Sentinels: Assessing Toxic Contaminants in Northwestern Atlantic Coast Seals*. Grant to improve research and monitoring capacity for studies that are relevant to wildlife and human health concerns in the northwest Atlantic region. Studies include: PCBs and chlorinated pesticides in harbor seals from the northwest Atlantic; PCDD/Fs and dioxin-like PCBs in tissues of harbor seals. NOAA Contract # EA133F04CN0062: \$272,211 (PI)
- 2004-2005 Environmental monitoring and conservation in the Gulf of Maine. Robbins de Beaumont Foundation: \$15,000
- 2004 Toxic contaminants in farmed salmon from Maine, eastern Canada, and Norway, and wild salmon from Alaska. Grayce B. Kerr Fund: \$64,633 (PI)
- 2004 Toxic contaminants in farmed salmon from Maine, eastern Canada, and Norway, and wild salmon from Alaska. Sasco Foundation: \$5,000 (PI)
- 2004 Ecotoxicological research in the Gulf of Maine and northwest Atlantic (Seals As Sentinels). Specific studies: PCBs and chlorinated pesticides in harbor seals, PCBs, PCDFs, and chlorinated pesticides in farmed Atlantic salmon from Maine, eastern Canada, and Norway, and wild salmon from Alaska. Stroud Foundation: \$145,000 (PI)
- 2003-2010 Assessing toxic metal contamination at the Callahan Mine Superfund Site; data interpretation/ community outreach. Technical Assistance Grant (renewable), US Environmental Protection Agency (US EPA): \$50,000
- 2003-2007 Laboratories and environmental research/monitoring in the Gulf of Maine. Britton Fund: (total) \$652,985 (PI)
- 2002-2013 Ecotoxicological research and conservation in the Gulf of Maine. Sasco Foundation: (total) \$35,000
- 2002-2013 Marine research and conservation in the Gulf of Maine. Becton Family Foundation: (total) \$59,500

- 2002-2011 Marine research and conservation in the Gulf of Maine; purchase of vehicle for field monitoring. Norcross Wildlife Foundation: (total) \$22,500
- 2000 Expanded research and operations in the Gulf of Maine and along the US Eastern seaboard. Stroud Water Research Trust: \$200,000
- 2000 *The Atlantic Coast Contaminants Workshop 2000 (ACCW 2000):* Endocrine Disruptors in the Marine Environment: Impacts on Marine Wildlife and Human Health. Focused international conference and publication of Consensus Statement of 22 wildlife and human health scientists (De Guise, Shaw et.al. 2001). Jenifer Altman Foundation: \$10,000, The Stephen and Tabitha King Foundation: \$18,000; Stroud Water Research Trust: \$20,000 (Convenor and co-author)
- 1999 Ecotoxicological research in the northwest Atlantic (Seals As Sentinels). Stroud Water Research Trust: \$100,000
- 1996 Coastal Awareness Forums on ecological and health issues in the Gulf of Maine. Gulf of Maine Council on the Marine Environment: \$1,550
- 1996 Grant for purchase of radar equipment for marine coastal monitoring vessel. Norcross Wildlife Foundation: \$3,000
- 1994-2013 Coastal research and conservation in the Gulf of Maine. The Marpat Foundation: (total) \$295,000 (PI)
- 1994 Marine research and conservation in Gulf of Maine. Dillon Dunwalke Trust: \$1,500
- 1993 Marine research and conservation on the Eastern seaboard. The Florence and John Schumann Foundation: \$50,000
- 1993 Marine research and conservation in the Gulf of Maine. Davis Conservation Foundation: \$6,000
- 1991-2001 Marine research and conservation in the Gulf of Maine. Agnes G. Milliken Foundation: (total) \$22,000

Rev 01/20/2020