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Barbara L. Harper, Ph.D., D.A.B.T.

bharper@amerion.com

Risk Assessor and Environmental/Public Health Toxicologist

Associate Professor / Senior Research
School of Biological & Population Health Sciences
College of Public Health & Human Sciences
Oregon State University
101 Milam Hall
Corvallis, OR 97331-6406

Research Interests: Toxicology, tribal exposure scenarios and health risk evaluation; environmental regulations and Superfund cleanups, Natural Resource Damage Assessment, tribal ecosystem services, climate change and sustainability, First Foods, public and environmental health, fish and other subsistence resource contamination, Native diets, cultural risk evaluation.

EDUCATION:

1970 Occidental College, B.A., cum laude, departmental honors, Los Angeles, California
1974 University of Texas, Ph.D. Zoology/Genetics, Austin, Texas.
1989 Diplomate, American Board of Toxicology, renewed 1994, 1999, 2004, 2008, 2014.

HONORS:

1988 Recipient, Medical Self Care Book Award for "Health Detective's Handbook."
1989 Certificate of special recognition from the Galveston County Health District for work on hydrofluoric acid release.
1990 Certificate of recognition from DOE Assistant Secretary Dr. Ernest Moniz for efforts to protect the Columbia River.
1991 Pennsylvania Department of Environmental Protection Award for Environmental Excellence (for contribution to the litigation team during employment by the PA DEP (Letter from James Seif, Secretary PA DEP, March 30, 2001).

EMPLOYMENT HISTORY

2004-2015 Confederated Tribes of the Umatilla Indian Reservation, Toxicologist/risk assessor, Department of Science and Engineering; Division Leader added 2011.
2002-current: Oregon State University, Associate Professor/ Senior Research, Department of Public Health (since 2014 the College of Public Health and Human Services)
2000-current: Principal, AESE, Inc, Spokane WA. (consulting)
1999-2001: Affiliate, International Institute for Indigenous resource Management, Denver, CO (focus on tribal risk assessment, stewardship, risk management)
1997-2000: Toxicologist and Risk Assessor, Yakama Nation Environmental Restoration and Waste Management (Hanford) Program
1993 to 1997: Program Manager, Health Risk Assessment, Battelle Pacific Northwest Laboratory, Richland, WA
1989 to 1993: Public Health Toxicologist and head of Advanced Science & Research Program,

Commonwealth of Pennsylvania, Department of Environmental Resources, Harrisburg, PA
1991 to 1993: Adjunct Asst. Professor of Environmental Toxicology, Division of Science, Engineering & Technology, Penn State Harrisburg (part time; teaching Environmental Risk Assessment)
1981 to 1989: Assistant Professor, Division of Environmental Toxicology, Dept. of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, Texas 77650
1980 to 1981: Senior Research Associate, Environmental Toxicology, University of Texas Medical Branch, Galveston TX
1976 to 1979: McLaughlin Postdoctoral Fellow (Immunology & Infect. Dis.), Department of Medicine Division of Infectious Diseases, University of Texas Medical Branch, Galveston, Texas
1974 to 1976: Postdoctoral Fellow, Dept. of Human Biological Chemistry and Genetics, Division of Human Genetics, University of Texas Medical Branch, Galveston, Texas

Teaching: Course Director for Issues in Preventive Medicine and Community Health, lectures in toxicology, genetics, nutrition, others (UTMB). Taught graduate class in risk assessment (Penn State), Recent lectures in cultural risk, tribal risk assessment, toxicology, subsistence diets, co-risk factors, environmental justice, cleanup and closure of contaminated sites, others.

Other Training, Continuing Education

- Washington State HazMat annual refresher, HAMMER Facility, April 5-6, 2008
- IRB online refresher (for Blue Mountain Community College IRB membership), 2006-2011
- Chemical Stockpile tabletop exercise, May 5-7, 2008 (CTUIR Emergency Operations Center)
- IHS Bioterrorism Emergency Preparedness conference, Wildhorse Resort, July 23-24, 2008
- Other CME for DABT recertification

Research

Principal Investigator (2003 – 2007), EPA STAR grant #2000-STAR-J1-R831046. “Regional Tribal Exposure Scenarios Based on Major Ecological Zones and Traditional Subsistence Lifestyles.” Project period: October 1, 2003 - September 31, 2006, with one year no-cost extension through September 31, 2007. Co-PI: Anna Harding (OSU).

NIH/NIEHS; 1P42ES016465; D. Williams (Main PI); 4/1/2009-3/31/2017. “PAHs: New Technologies and Emerging Human Health Risks. The goal of this Superfund Research Program is to explore mechanisms of polycyclic aromatic hydrocarbons (PAH) action and enhance our understanding of their effects on human health and their negative impacts on the environment.” Role: Co-PI of Core E: Community Engagement

Hobbies: Baskets, beads, flute.

OTHER PROFESSIONAL EXPERIENCE (selected):

2014	Obtained Climate Adaptation Planning grant from USDA/BOA for CTUIR. \$150K
2013-ongoing	Consultant, Swinomish Community Indigenous Health Indicators grant
2014	Peer review panel on C-FERST and T-FERST (EPA HQ)
2013-14	Consultant report, subsistence exposure and cultural indicators, Cherokee and other Tar Creek downriver Tribes.
2013	Steering Committee member, Salish Kootenai College EPA tribal education grant
2013-ongoing	Expert panel on tribal fish consumption rates, EPA Region 10
2013	Peer review of EPA tribal STAR grants in climate change and indoor air quality
2013	Panel Review of Technical Guidance for Assessing Environmental Justice in Regulatory Analysis, EPA Science Advisory Board, June 2013 and January 2014.
2013-ongoing	Peer review of Cultural Resource Index (Tar Creek downriver tribes) and Santa Clara Pueblo NRDA documents; report prepared on contaminant tolerance levels
2013	Peer Review, RARE Penobscot River and Environmental Contaminants: Assessment of Tribal Exposure through Sustenance Lifeways, April 2013
2012 - 2013	Member, EPA Science Advisory Board (withdrew for health reasons).

2010 - 2012 Member, National Tribal Toxics Committee (Advisory to EPA-OPPT).
 2011 Organized "Climate Change and Corporate Responsibility" workshop, 2011.
 2008-2012 PI: EPA STAR grant with OSU; co-PI SRP Center grant Outreach Core with OSU; co-PI on renewal of SRP grant.
 2008 Organized "Adaptive Governance and Climate Change" workshop, August 19-20, 2008; Wildhorse Resort. Attendance approx 150 people.
 2007-2008 Chair, Hanford Natural Resource Trustee Council
 2007-2011 Member, steering committee of the Alliance for Risk Assessment (ARA) for TERA, www.allianceforrisk.org.
 2005-6 Vice Chair, Hanford Natural Resource Trustee Council
 2002 Expert Panel member, Leech Lake Chippewa Superfund site.
 1999 to 2000 Vice Chair, Hanford Natural Resource Trustee Council
 2000 to 2005 EPA Science Advisory Board Drinking Water Subcommittee
 1999-2001 Member, ASTM Committees E.47 and E.50 (regarding cultural risk task)
 1997-1999 Editorial Board, Risk Excellence Notes; published by the Center for Risk Excellence, Argonne National Laboratory (Department of Energy)
 1999 2001 Yakama Nation representative, Fish Tissue Contamination Data Analysis Columbia River Intertribal Fish Commission, Portland OR..
 1991 to 1993 Pennsylvania Medical Society Commission on Toxic Substances and Occupational Health member
 1991 to 1993 Environmental Pollution Control curriculum steering committee member. Penn State Harrisburg.
 1991 to 1992 ASTM Risk Assessment, Exposure Assessment task group member
 1991 to 1993: Chesapeake Bay Program Environmental Effects Committee and Toxics Subcommittee.

Responsibilities for the Confederated Tribes of the Umatilla Indian Reservation (CTUIR)(2003 – present): provide toxicology and risk assessment expertise. Develop tribally-relevant methods for health risk, environmental impacts, cultural risk, community and environmental health, and holistic environmental management. Analyze data and describe actual or potential health effects. Develop methods for evaluating federal compliance with Tribal Treaty rights and traditional environmental management perspectives. Provide expertise and education in environmental health, tribal public health, toxicology, health statistics, genetics, ecological risk, natural resource trusteeship, environmental justice, stewardship, and environmental regulations (national, state, and tribal), cultural risk assessment, and related topics. Review and comment on technical CERCLA-NEPA-other documents related to Hanford and other facilities affecting CTUIR and its people and resources. Prepare similar documents for CTUIR as needed.

Responsibilities for AESE. Inc. (2000 – present): provide human/ecological/cultural risk assessment expertise, toxicology expertise, and tribal methods for AESE client tribes. Applications include regulatory review (CERCLA, NRDA, other federal and tribal regulations), environmental and public health, nutrition and diets, and expert witnessing. Tribal consultations or contracts:

- 1 Spokane Tribe: Midnite Mine and Mill technical CERCLA document review, exposure scenario adopted by Tribal resolution, NRDA document preparation and review, obtain and coordinate ATSDR grant, Integrated Resource Management Plan/EIS.
- 2 Swinomish Tribe: toxicology and risk assessment for the Bioaccumulative Toxics in Native American Shellfish project; scenario development, fish consumption survey.
- 3 Mic Mac Tribe: review of CERCLA documents and ATSDR Public Health Assessment for Loring Air Force Base site with respect to contamination and tribal reuse.
- 4 Wampanoag Tribe: review of CERCLA-type documents for Noman's Island Navy bombing range with respect to contamination and tribal reuse.
- 5 Washoe Tribe of California and Nevada: exposure scenario; train tribe and anthropologists to collect information needed for scenario development; Leviathan Mine technical document review.
- 6 Native Village of Tanana Alaska: review of contamination documents related to tribal reuse of Air Force, IHS, and other sites contaminating the soil, groundwater, and natural resources.
- 7 Elem Pomo: review of CERCLA documents for Sulphur Bank Mercury Mine; develop exposure scenario.

- 8 Leech Lake Chippewa: review CERCLA documents for Champion-St. Regis Paper Company site with respect to tribal reuse and exposure pathways; provide toxicology and risk assessment expertise.
- 9 Aleutian Islands Pribilof Association: consultation on Amchitka underground nuclear test sites with respect to contamination of tribal resources.
- 10 Sitka Tribe of Alaska: review of CERCLA-type documents for Unocal petroleum site.
- 11 Maine Tribes Water Quality Standards: develop multi-tribe exposure scenario for use in developing water quality standards; RARE review for Penobscot River with EPA Region 1.
- 12 Quapaw Tribe of Indians: scenario development for Tar Creek Superfund Site; document review; expert witness for the Quapaw Tribe NRDA case.
- 13 National Tribal Environmental Council and other intertribal groups: various presentations, provide information on specific topics on request.
- 14 Tar Creek downstream Tribes – exposure scenario; cultural index supporting report.
- 15 Santa Clara Pueblo (at USDOE Los Alamos site) – exposure parameters and NRDA strategy

Responsibilities for Oregon State University (2003 – present):

1. Senior Research Associate Professor in the College of Public Health
2. Principal Investigator of EPA grant: “Regional Tribal Exposure Scenarios Based on Major Ecological Zones and Traditional Subsistence Lifestyles” (2000-STAR-J1), \$450K, June 2003 – August 2006.
3. CTUIR coordinator for OSU project: Mercury uptake into cattails, an edible plant (pilot project).
4. CTUIR coordinator for OSU project: Nutritional analysis of some CTUIR edible plants (pilot project).
5. Anna Harding, Core Leader; Barbara Harper, Co-Leader. “*Community Engagement Core: Tribal-University Evaluation of Chemical Exposures to Improve Community Health*”, 2008 - 2012.
6. Anna Harding, Core Leader; Barbara Harper, Co-Leader. “Community Engagement Core: Tribal-University Evaluation of Chemical Exposures to Improve Community Health” Renewal of previous grant (years 6-10, 2013 - 2017) - <http://oregonstate.edu/superfund/> (describes the overall Center); <http://oregonstate.edu/superfund/outreach> (describes the Community Core)
 ABSTRACT: “Community Engagement Core: Tribal-University Evaluation of Chemical Exposures to Improve Community Health The Community Engagement Core will facilitate collaborations among OSU researchers and Native American Tribes in the Pacific Northwest to address Tribal concerns regarding exposure to chemicals in their environment, with a focus on understanding exposure pathways to polycyclic aromatic hydrocarbons (PAHs). Our community partners are the Confederated Tribes of the Umatilla Indian Reservation (CTUIR), the Swinomish Indian Tribal Community, and the Samish Indian Nation. Tribal communities experience exposure to PAHs and many chemicals on the CERCLA priority list from diverse sources: they reside on reservations impacted by hazardous waste sites, they collect subsistence foods from contaminated waterways, and they gather traditional foods from contaminated lands. Housing characteristics and traditional practices such as smoking foods also contribute to their chemical exposures. The cumulative exposures from these unique pathways may increase the risk of environmentally-related disease. It is critically important that Tribal communities understand these exposures and develop culturally appropriate responses and risk reduction strategies because they cannot move from their homelands to avoid contaminants and they cannot give up their culture or their religion. In turn, the research community must develop the cultural capacity to work with Tribal communities according to the principles of community-based research. The specific aims of the Community Engagement Core are to: 1) address CTUIR concerns regarding their environmental exposures, build Tribal capacity to measure environmental pollutants, and develop risk reduction strategies that will improve health without adversely affecting cultural practices; 2) build tribal capacity in analytical methods used by the CTUIR and help both the Swinomish Tribal Indian Community and the Samish Indian Nation to improve their understanding of PAH and other chemical exposures; 3) collaborate with other SRP Centers, EPA regional offices, the Agency for Toxic Substances and Disease, the Office of Tribal Affairs, and other stakeholders to disseminate our research findings and the principles of community-based environmental health research with tribal populations that reside on contaminated lands.”
7. Co-Principal Investigator, *Community Engagement Core: Tribal-University Evaluation of Chemical Exposures to Improve Community Health*. Funded by NIEHS as a core in the OSU Superfund Research Program Center. Overall Center funded at \$15,376,899. Co-Investigators for the Engagement Core: M. Kile, B.L. Harper; S. Harris. Main Principal Investigator for the Superfund Research Center: D. Williams (Environmental & Molecular Toxicology). Renewal:

2013-2018.

Responsibilities for Yakama Nation Fisheries Program: provide data analysis, toxicology, risk assessment and regulatory expertise related to contaminated aquatic resources. Obtained 4-year NIEHS grant to evaluate health effects and design tribal response (2000-2004).

Responsibilities for the Yakama Nation ER/WM Program: provide risk assessment expertise and develop tribally-relevant methods for health risk, environmental impacts, cultural risk, community and environmental health, and holistic environmental management. Develop methods for evaluating federal compliance with Tribal Treaty rights and traditional environmental management perspectives. Provide expertise and education in environmental health, tribal public health, toxicology, health statistics, genetics, ecological health and natural resource trusteeship (Vice Chair of the Hanford Natural Resource Trustee Council), environmental justice, stewardship, and environmental regulations (national, state, and tribal), and related topics.

Responsibilities for Battelle - Pacific Northwest National Laboratories, 1993-1997 (selected activities): Integrated risk assessment program, (IRAP – Integrated Risk Assessment Program; co-manager & task leader), toxicology, tribal methods, strategic planning for risk reduction, DOE budget analysis, other (see list of reports). Selected activities include:

- IRAP - several risk analyses and reports for a variety of Hanford sites and activities.
- Health Protection and Standards for Hazardous Chemicals (project co-manager)
- Cost-risk-benefit analysis task (public, tribal, environmental, ecological risk)
- Risk Measures for Tank Waste Characterization with Cost-Benefit Analysis
- Radon in North Dakota (ND Dept of Health report and video)
- Cost- risk analysis of lead and copper for corrosion control in public water supplies (Portland Water System; Engineering & Environmental Services)
- Toxicology Profiles. coordinated preparation of over 100 toxicology profiles of Hanford contaminants for Westinghouse. Toxicology analysis for tank waste head space and related occupational toxicology evaluations.
- Review of many ATSDR and other Environmental Epidemiology Studies
- Integrated Eco-Cultural-Human tribal risk model; first Native American exposure scenario
- Issues papers on Sustainable Development, stewardship, and environmental justice.

Responsibilities at Penn. Dept. Environmental Resources (DER): Major responsibilities included developing and leading the Advanced Science and Research Program, providing expertise in multi-media issues and modern environmental protection as state risk assessor. Develop human and ecological risk assessment and management policies and technical guidance documents. Provide expertise for regulatory standards and criteria development. Serve as primary reviewer for incinerator and hazardous waste risk assessments. Provide expert witness testimony or depositions as needed in areas of toxicology, risk assessment, risk management and public health. Respond to individual inquiries on chemical toxicity (internal and public). Serve as DER science representative to academic, medical and other professional groups. Coordinate risk assessment activities between programs. Serve on internal and inter-agency advisory and technical committees. Assist attorneys in preparation for litigation.

UTMB Research Activities: University of Texas Medical Branch at Galveston: Mechanisms of genetic damage as related to metabolism, diet, gender, pregnancy status, age, target organ. Correlation of genotoxicity of benzene with its metabolism. Role of nutritional and hormonal factors on susceptibility to chemical genotoxicity and teratogenicity, and interactions between these factors relating to risk assessment. Grant preparation; grant peer review (NIH), human subjects and animal use review, grant management.

UTMB Faculty Teaching/Service: Member Animal Care Committee, elected officer of the Women's Faculty Committee, other departmental committees, course coordinator for Preventive Medicine (graduate), lectures in many other graduate and medical courses, community service in environmental health, student dissertation committees, daily lab operations and management, and related.

Publications

A. Articles in Journals (fully peer reviewed)

1. Harper, B.L., D.R. Barnett and J.D. Bissett. Immunochemical studies of the plasma and cultured fibroblast media fractions containing the cystic fibrosis ciliary inhibitor. *Tex. Rep. Bio. Med.* 34:73: 1976.
2. Carson, S.D., B.L. Harper, D.R. Barnett, A. Kurosky, B.J. Lankford and B.H. Bowman. Electrophoretic studies of the cystic fibrosis ciliary inhibitor and its interaction with immunoglobulin G. *Tex. Rep. Biol. Med.* 34:209:1976.
3. Fine, D.P., B.L. Harper, E.D. Carpenter, C.P. Davis, T. Cavallo and J.C. Guckian. Complement-independent adherence of *Escheria coli* to complement receptors in vitro. *J. Clin. Inves.* 66:465-472: 1980.
4. Harper, B.L., D.P. Fine, J.C. Guckian and T. Cavallo. Trypan blue inhibition of complement receptor function on various cells. *Immunology* 42(1):61-66: 1981.
5. Harper, B.L., V.M.S. Ramanujam, M.M. Gad-El-Karim and M.S. Legator. The influence of simple aromatics on benzene clastogenicity. *Mutat. Research* 128: 105-114: 1984.
6. Gad-El-Karim, M.M., B.L. Harper and M.S. Legator. Modifications in the metabolism and myeloclastogenic effect of benzene in mice with toluene, phenobarbital, 3- methylcholanthrene, Aroclor 1254 or SKF-525A. *Mutation Research* 135:225-243: 1984.
7. Harper, B.L., and D.L. Morris. Implications of multiple mechanisms of carcinogenesis for short-term testing. *Teratog. Carcinog. Mutagen* 4: 483-503: 1984.
8. Harper, B.L. and M.S. Legator. Pyridine prevents the clastogenicity of benzene but not of benzo(a)pyrene or cyclophosphamide. *Mutat. Res.* 179:23-31: 1987.
9. Harper, B.L. and M.S. Legator. Tumor promoters and genotoxic chemicals in short-term testing for carcinogenicity. *Adv. Vet. Sci. Comp. Med.* 31 (Series 1 and 2), pp. 1-19: 1987.
10. Harper, B.L. and M.S. Legator. Genetic Toxicology - A New Awakening. *Adv. Modern. Environ. Toxicol. Vol. X (Safety Evaluation: Toxicology, Methods, Concepts and Risk Assessment):* pp.135-156: 1987.
11. Harper, B.L. and M.S. Legator. Metaphase analysis test results in male ICR Swiss Mice. *Prog. Mutat. Res.* 6 (Vol. I: Evaluation of Short-Term Tests for Carcinogens):112-114:1988.
12. Harper, B.L. and M.S. Legator. Micronucleus test results for two carcinogen/noncarcinogen chemical pairs in male ICR Swiss mice. *Prog. Mutat. Res.* 6 (Vol. I: Evaluation of Short-Term Tests for Carcinogens):162-164: 1988.
13. Harper, B.L. and M.S. Legator. Mutagenicity of urine collected from mice treated with two carcinogen/noncarcinogen pairs of chemicals. *Prog. Mutat. Res.* 6 (Vol. II: Evaluation of Short-Term Tests for Carcinogens):126-128: 1988.
14. Harper, B.L. and M.S. Legator. Sperm morphology test results for benzo(a)pyrene, pyrene, 2-acetylaminofluorene and 4-acetylaminofluorene in ICR Swiss mice. *Prog. Mutat. Res.* 6 (Vol. II: Evaluation of Short-Term Tests for Carcinogens): 254-257: 1988.
15. Au, W.W., J.B. Ward, Jr., V.M.S. Ramanujam, B.L. Harper, M.T. Moslen and M.S. Legator. Genotoxic effects of a sub-acute low level inhalation exposure to a mixture of carcinogenic chemicals. *Mutat. Res.* 203:103-115: 1988.
16. Legator, M.S. and B.L. Harper. Mutagenicity screening - in vitro testing: the end of an era; animal and human studies: directions for the future. *Ann. New York Acad. Sci., Vol.* 534: 833-844: 1988.
17. Moslen, M.T., B.L. Harper and D. Roy. Effects of a cysteine precursor, L-2-oxothiazolidine-carboxylate, nutritional

- status and sex on tissue glutathione and hepatic GSH-utilizing enzymes of CD-1 mice. *Res. Commun. Chem. Path. Pharmacol.* 61:49-63: 1988.
18. Harper, B.L., Ward, Jr., J.B., Sadagopa Ramanujam, V.M., Ammenheuser, M.M., Au, W.W., Moslen, M.T. and Legator, M.S. A combined testing protocol for assessing genotoxicity in individual animals: application to environmental toxicology. *J. Appl. Tox.* 9(2):97-102: 1989.
 19. Harper, B.L., Sadagopa Ramanujam, V.M., and Legator, M.S. Micronucleus formation by benzene, cyclophosphamide, benzo(a)pyrene and benzidine in male, female, pregnant female and fetal mice. *Terato. Carcino. Mutagenesis* 9:239-252: 1989
 20. Morris, D.L., Connor, T.H., Harper, B.L., Ward, J.B., and Legator, M.S. Genotoxic effects of fly ash in bacteria, mammalian cells and animals. *Terato. Carcino. Mutagen.* 9:297-314: 1989.
 21. Harper, B.L., Ramanujam, V.M.S., Kurosky, L. and Legator, M.S. Genetic effects of benzene and radiation in ICR and X/Gf mice. *Cancer Letters* 48: 59-65: 1989.
 22. Lu, L.J.W., Baxter, J.R., Wang, M.Y., Harper, B.L., Tasaka, F. and Kohda, K. Induction of covalent DNA modifications and micronucleated erythrocytes by 4-nitroquinoline 1-oxide in adult and fetal mice. *Cancer Research* 50: 6192-6198: 1990.
 22. Harris, S.G. and Harper, B.L. "A Native American Exposure Scenario." *Risk Analysis*, 17(6): 789-795, 1997. Updated in 2004 from Harris and Harper (1997). "Exposure Scenario for CTUIR Traditional Subsistence Lifeways." Report prepared by the CTUIR Department of Science & Engineering; peer reviewed by DOE, EPA, WA Department of Ecology. October 2004. (posted on Oregon State University faculty web page)
 23. S Harris and B Harper. "Native American Exposure Factors Based on Umatilla, Walla Walla, and Cayuse Lifestyles." Invited presentation at EPA National Center for Exposure Assessment Workshop on Modeling Lead Exposure and Bioavailability, Durham NC, August 31, 1998.
 25. Harper, B.L. and Harris, S.G. "Measuring Risks to Community Health and Quality of Life." Presented at the 9th ASTM Symposium on Environmental Toxicology and Risk Assessment, Seattle, April 21, 1999 (Paper #6034, Committee E47), published in "Environmental Toxicology and risk Assessment" (F Price, K Brix and N Lane, eds.), 2000, pages 195-211.
 24. S Harris and B Harper. "Using Eco-Cultural Dependency Webs in Risk Assessment and Characterization." *Environmental Science and Pollution Research*, 7(Special 2): 91-100, 2000.
 25. S Harris and B Harper. "Native American Diets and Exposure Factors." *Environmental Research, Section A*, 86:140-148 (2001).
 26. B Harper, B Flett, S Harris, C Abeyta, and F Kirschner. "The Spokane Tribe's Multipathway Subsistence Exposure Scenario and Screening Level RME," *Risk Analysis* 22(3): 513-526, 2002. EPA challenge as a Letter to the Editor by Marc Stifelman in *Risk Analysis* 23(5): 859-860 (October 2003); Harper et al.'s Response to Letter to the Editor in *Risk Analysis* 23(5): 861-864 (October 2003).
 27. B Harper and S Harris. (2008). "A Possible Approach for Setting a Mercury Risk-Based Action Level Based on Tribal Fish Ingestion Rates." *Environmental Research Vol 107/1* pp 60-68. PMID 17631290. <http://dx.doi.org/10.1016/j.envres.2007.05.008>
 28. Link, SO, Simmons SA, Cruz RO, and Harper BL (2007) "Formation of a Sustainable Cooperative to Conduct Research on Native Plants and Ecological Restoration (Washington)". *Ecological Restoration*. Volume 25 Number 4 December 2007
 29. J Donatuto and B Harper (2008). "Issues in Evaluating Fish Consumption Rates for Native American Tribes." *Risk Analysis* 26(6): 1497-1506
 29. Barbara Harper and Stuart Harris (2011) "Tribal Environmental Justice: Vulnerability, Trusteeship, and Equity under NEPA." *ENVIRONMENTAL JUSTICE* 4(4): 193-197
 30. Stuart Harris and Barbara Harper (2011) "A Method for Tribal Environmental Justice Analysis." *ENVIRONMENTAL JUSTICE* 4(4): 231-237

31. Darren J. Ranco, Catherine A. O'Neill, Jamie Donatuto, and Barbara L. Harper (2011) "Environmental Justice, American Indians and the Cultural Dilemma: Developing Environmental Management for Tribal Health and Well-being." ENVIRONMENTAL JUSTICE 4(4): 221-230
32. Anna Harding, Barbara Harper, Dave Stone, Catherine O'Neill, Patricia Berger, Stuart Harris, and Jamie Donatuto (2012). "Conducting Research with Tribal Communities: Sovereignty, Ethics, and Data-Sharing." Environmental Health Perspectives 120(11): 6-10; supplementary material at <http://dx.doi.org/10.1289/ehp.1103904>
33. Barbara Harper, Anna Harding, Stuart Harris, Patricia Berger (2012) "Subsistence Exposure Scenarios for Tribal Applications" *Human and Ecological Risk Assessment* 18(4): 810-831. Published online Jul 12, 2012. doi: 10.1080/10807039.2012.688706; PMID: PMC4155929; NIHMSID: NIHMS596982 also posted at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4155929/>
34. Norman Forsberg, Dave Stone, Anna Harding, Barbara Harper, Stuart Harris, Melissa Matzke, Andres Cardenas, Katrina Waters, Kim Anderson (2012). "Effect of Native American fish smoking methods on dietary exposure to polycyclic aromatic hydrocarbons and possible risks to human health." *J Ag Food Chem* 60: 6899-6906.
35. Schure M, Kile ML, Harding AK, Harper B, Harris S, Uesugi S, Goins T. Perceptions of environment and health among community members of the Confederated Tribes of the Umatilla Indian Reservation. *Environmental Justice*. June 2013, 6(3): 115-120. doi:10.1089/env.2013.0022; PMID: PMC4138542; NIHMSID: NIHMS614636
36. Motorykin, O., Schrlau, J., Yuling, J., Harper, B., Harris, S., Harding, A., Stone, D., Kile, M., Sudakin, D., Simonich, S. (2015). Determination of Parent and Hydroxy PAHs in personal PM2.5 and urine samples collected during Native American fish smoking activities. *Science of the Total Environment*, 505,694-703. PMID: NIHMS63690:PMC4261013. doi:10.1016/j.scitotenv.2014.10.051.
37. Motorykin, O., Santiago-Delgado, L., Rohlman, D., Schrlau, J.E., Harper, B., Harris, S., Harding, A., Kile, M.L., Simonich, S.L.M. (2015). Metabolism and excretion rates of parent and hydroxy-PAHs in urine collected after consumption of traditionally smoked salmon for Native American volunteers. *Science of the Total Environment*. <http://dx.doi.org/10.1016/j.scitotenv.2015.01.083>
- 38.

In press:

B Harper and DE Walker. Comparison of Contemporary and Heritage Fish Consumption Rates in the Columbia River Basin *Journal: Human Ecology* (April 2015)

B Harper and DE Walker. Columbia Basin Heritage Fish Consumption Rates. : *Human Ecology* (April 2015).

B. Chapters and Reports (partially or fully peer reviewed):

1. Fine, D.P., J. Guckian, B.L. Harper, G. Christensen and J. Daniels. Oposonization of *Streptococcus pneumoniae*. VIIIth Int. Symposium on Streptococci and Streptococcal Diseases: 1978.
2. Legator, M.S., Harper, B.L., and Scott, M.J. eds. "*The Health Detectives Handbook: A Guide to the Investigation of Environmental Health Hazards by Nonprofessionals*." Johns Hopkins University Press (1985). Medical Self-Care Book Award, 1986; second printing: 1993: "*Chemical Alert: A Community Action Handbook*." (editors: Marvin S. Legator and Sabrina F. Strawn), University of Texas Press.

Chapter 2: Do you suspect a problem? Known exposures, known effects. Barbara L. Harper.

Chapter 3: You can't do it alone: Community organization. Kathleen Tiernan, Barbara L. Harper, Alice Shabecoff.

Chapter 5: What information do you need? Questionnaire design, administration, and limitations.
Barbara L. Harper, Mary C. Lowery.

Chapter 6: How to get the information: The questionnaire, question discussion and tabulation.
Barbara L. Harper, Mary C. Lowery, Michael J. Scott, Paul Mills.

Chapter 7: Lots of information - what to do with it: Statistics for nonstatisticians. Michael J. Scott, Barbara L. Harper.

3. Harper, B.L., S.J. Rinkus, M.J. Scott, M. Ammenheuser, K.M. Bang, M. Lowery and M.S. Legator. Correlation of NCI and IARC carcinogens with their mutagenicity in Salmonella. in: Use of Mammalian Cells for Risk Assessment, NATO Adv. Sci. Inst. Ser., Ser. A. Plenum Press, New York, pp. 353-424: 1983.
 4. Legator, M.S. and Barbara L. Harper. Animal-human studies: an integrated approach to identifying hazardous chemicals in the workplace. in: Mutagens in our Environment. Eds. M. Sorsa and H. Vainio. Alan R. Liss, New York, pp. 181-202: 1982.
 5. Legator, M.S. and B.L. Harper. From bacteria to man: the evolution of mutagenicity testing. in: Use of Mammalian Cells for Risk Assessment, NATO Adv. Sci. Inst. Ser., Ser. A. Plenum Press, New York, pp. 467-493: 1983.
 6. Ramanujam, V.M.S., N.M. Trieff, and B.L. Harper. Structure-based classification, correlation and toxicity ranking of carcinogens and other toxic compounds. Series of reports to EPA: 1983-1984.
 7. Co-author. Biological test systems to assess health effects of exposures to complex mixtures. Reports to Texas Air Control Board: 1985, 1986, 1987, 1988.
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 37. S Harris and B Harper. " Risk Assessment for Native Americans." 4th Tribal Risk Forum, Albuquerque, June 23, 1997.
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 43. B Harper and S Harris. "Risk Characterization for Native Americans: The Difference Between Comprehensive and Holistic." Poster at the Society for Risk Analysis annual meeting, Washington D.C., December 10, 1997.
 44. S Harris and B Harper. "Characterizing Risks: Can DOE Achieve Intersite Equity by 2006?" Waste Management '98.
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 47. S Harris and B Harper. "Cultural Perspectives on Risk Management" Invited panel presentation to Environmental Law Institute meeting on Similarities and Differences in Chemical and Radiation Risk Management, Anapolis MD, June 8, 1998
 48. S Harris and B Harper. "Cultural Risk and Cultural Toxicity" Invited presentation to EPA's Science Advisory Board Executive Board, July 8, 1998.
 49. S Harris and B Harper. "Risk and Impact Analysis for the Groundwater-Vadose Zone-Columbia River Project: Dependency Webs as an Integrating Approach." Presentation to the DOE Center for Risk Excellence, Richland WA, September 23, 1998.
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 55. B Harper and S Harris. "Introduction to risk assessment." Columbia River Intertribal Fish Commission data analysis workgroup, Toppenish WA, March 5, 1999.
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 58. S Harris and B Harper. "Using Traditional Environmental Knowledge as a Risk Characterization Framework." Poster-Platform presentation, Society for Risk Analysis, annual meeting, Atlanta, December 6, 1999.
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 61. B Harper and S Harris. "Equity Assessment and Tribal Eco-cultural Risk." Presentation at the Alaska Forum on the Environment," Anchorage, Feb 7, 2001.
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 63. B Harper. "Using Tribal Exposure Scenarios to Define the Nature and Extent of Contamination." EPA's National Site Assessment Conference, Portland OR, May 23, 2001. Posted at http://www.epa.gov/superfund/programs/siteasmt/sa_conf/agenda.htm#tuesday
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 65. B Harper. "Tribal Risk Assessment, Part 1 – Introduction to Risk-Based Decision Making." FOSTTA Tribal Affairs Project, Washington DC, October 22, 2001. (additional training modules to be presented at future meetings)
 66. B Harper. "Introduction to Tribal Risk Assessment." Invited speaker, WMAN Conference, Albuquerque, November 1, 2001.
 67. B Harper. "Tribal Training for Scenario Development." NTEC (National Tribal Environmental Council) Superfund Working Group, Yerington NV, Feb 6, 2002.
 68. B Harper. "Tribal Risk Assessment." 5th New England Tribal Environmental Training Conference, Westerly, RI, May 22, 2002.
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 70. B Harper and S Harris. "Tribal Perspectives on Cumulative Risk." EPA Cumulative Risk Workshop, Nov 4-8, 2002, Dallas TX (sponsored by EPA Region 6 and ORD).

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 85. Link, S. O., R. Cruz, S. Simmons, and B. Harper. 2007. *Formation of a Cooperative to conduct research on native plants and restore damaged ecosystems. Rethinking Protected Areas in a Changing World*, George Wright Society, St. Paul, MN. April 16 – 20.
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 90. Harper B, Harding A, and Harris S. (2007). *A multidisciplinary approach to developing tribal exposure scenarios*. International Society for Exposure Analysis, annual meeting, Durham, NC. October 18, 2007.
 91. Harper B and Harris S (2007). *Risk Assessment at the USDOE Hanford Nuclear Site with an Ecologically-Based Tribal Human Health Subsistence Exposure Scenario*. Presented at SETAC, Milwaukee, November 15, 2007.
 92. B Harper and A Harding (2008). *Tribal Exposure Analysis and Scenario Development*. EPA National Risk Assessors Training, EPA Region 10, Seattle, October 8, 2008.
 93. B Harper (2008). *Bridging Western and Traditional Science in Assessing Exposure in Subsistence Populations*. International Society of Exposure Analysis, Pasadena CA, October 15, 2008.
 94. B Harper (2008). *Constructing Traditional Tribal Subsistence Exposure Scenarios*. International Society of Exposure Analysis, Pasadena CA, October 15, 2008.
 95. J Donatuto and B Harper. *Defining and Evaluating Risks from Contaminated Food in a Native American Fishing Community (Swinomish)*. International Society of Exposure Analysis, Pasadena CA, October 15, 2008.
 96. Harding, A.K., Harper, B.L., & Harris, S. (2008). *Estimating environmental exposures for tribes engaged in traditional subsistence lifestyles*. Poster presented at the 136th APHA Annual Meeting, San Diego, CA. Abstracts published online in *Abstracts of the APHA 136th Meeting*.
 97. B Harper and S Harris (2009). *Climate, Drought, Adaptation*. Invited presentation at Workshop on Climate, Drought, and Early Warning on Western Native Lands, June 9-11, 2009. Jackson Lake Lodge, Grand Teton National Park, WY. Sponsored by NOAA.
 98. Barbara Harper, Anna Harding, Therese Waterhous, Anthony Wilcox, and Stuart Harris (2009). *Eco-social Cultural Mapping: Tribal Lifestyles and Environmental Risks - Regional Tribal Exposure Scenarios Based on Ecological Zones and Traditional Lifeways*. EPA broadcast Webinar, Washington DC, June 30, 2009.
 99. Harper, B. (2009). *Exposure Scenarios – Fish Consumption Rates within the larger Tribal Exposure Context*. Presented at: Tribal Rights and Fish Consumption Workshop: Issues and Opportunities for the Pacific Northwest; University of Washington, Seattle; August 12, 2009
 100. Harper, B. (2010) *Research Ethics and Informed Tribal Consent*. Presented at Symposium on Conducting

Research in Tribal Communities, Oregon State University, April 7, 2010.

101. Harper, B (2010). *NRDAR Tribal Services*. Presented at the Annual NRDAR Training, DOI/BLM Training Center, Phoenix, April 21, 2010.
102. B Harper (2011) *Valuing the Priceless: A Tribal Perspective on Quantifying Ecosystem Services*. ACES, Phoenix, December 9, 2010
103. Barbara Harper and Stuart Harris *Tribal Services & Ecosystem Services: Valuing the Priceless*. STGWG, National Indian Training Center, Albuquerque, Feb 16, 2011
104. Series of presentations on Tribal-University Partnership and PAH results in the SBRP Center at OSU:
 - Harper, B. & Harding, A. (2011). Addressing tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and building tribal capacity through a tribal-university partnership. National webinar presentation through the Superfund Research Program Risk e-Learning series, sponsored jointly by the National Institute of Environmental Health Sciences and the USEPA, May 23, 2011.
 - Harding, A., Harper, B., Harris, S., Stone, D., Uesugi, S., Berger, P., Butler, J., Jensen, L., Power, L. (2010). Tribal-university partnership to address tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and improve community health. Oral presentation at the 138th APHA Annual Meeting, Denver, CO. Abstracts published online in Abstracts of the APHA 138th Meeting. (Presenter: Stone)
 - Harper, B., Harding, A., Harris, S., Sudakin, D., Stone, D., Uesugi, S., Hirsch, N., Jensen, L. (2010). Tribal-university partnership to address tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and build capacity through scientific training and technology transfer. Oral presentation at the SETAC North America 31st Annual Meeting, Portland, OR. December 10, 2010 (Presenter: Harper)
 - Harding, A., Sudakin, D., Harper, B., Harris, S., Stone, D., Uesugi, S., Hirsch, N., Cardenas, A. (2010). Tribal-university partnership to address tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and build capacity through scientific training and technology transfer. Poster presented at the Superfund Research Program Annual Meeting, Portland, OR.
 - Harding, A., Sudakin, D., Harper, B., Harris, S., Stone, D., Uesugi, S., Hirsch, N., Jensen, L., Power, L. (2010). Tribal-university partnership to address tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and build capacity through scientific training and technology transfer. Poster presented at the Partnerships for Environmental Public Health Conference, Research Triangle Park, VA.
 - Harding, A., Harper, B., Harris, S., Stone, D., Uesugi, S., Berger, P., Butler, J., Jensen, L., Power, L. (2010). Tribal-university partnership to address tribal exposures to polycyclic aromatic hydrocarbons (PAHs) and improve community health. Oral presentation at the 138th APHA Annual Meeting, Denver, CO. Abstracts published online in Abstracts of the APHA 138th Meeting.
 - Harding, A., Cardenas, A., Harris, S., Simonich, S., Anderson, K., Harper, B., Stone, D., Jia, Y., Motorkyn, O., Uesugi, S., Forsberg, N., Sudakin, D. (2011). Evaluating polycyclic aromatic hydrocarbon (PAH) exposure from traditional Native American food smoking practices. Poster presented at the Superfund Research Program Annual Meeting, Lexington, KY.
 - Cardenas, A., Harding, A., Harris, S., Simonich, S., Anderson, K., Harper, B., Stone, D., Jia, Y., Motorkyn, O., Uesugi, S., Forsberg, N., Sudakin, D. (2011). Evaluating polycyclic aromatic hydrocarbon (PAH) exposure from traditional Native American food smoking practices.
 - Poster presented at the Oregon Public Health Association, Corvallis, OR; Pacific Northwest Association of Toxicologists Meeting, North Bonneville, WA (2011).
 - Presented at Partnerships for Environmental Public Health Meeting, Bethesda, MD (2012); National Institute of Environmental Health Sciences Core Centers Meeting, Boston, MA (2012).
 - Uesugi, S., Harding, A., Harris, S., Harper, B., Simonich, S., Anderson, K., Stone, D., Jia, Y., Hirsch, N., Cardenas, A., Sudakin, D. Walking in two worlds: Tribal-university partnerships, capacity building, technology transfer, and developing cultural sensitivity in toxicology and environmental health research. Presented at Pacific Northwest Association of Toxicologists Meeting, North Bonneville, WA (2011). (Presentation)

105. Barbara Harper. *Tribal and Ecosystem Services Highlights*. DOI's NRDAR Annual Meeting, BLM Training Center, Phoenix, March 28, 2011
106. B Harper (2011) *Tribal Impacts of Contaminated Fish*. SETAC Pacific Northwest Chapter, Special Session on Pesticides in Salmon. Vancouver WA, April 14, 2011
107. Anna K. Harding and Barbara L. Harper. *Addressing Tribal Exposures to Polycyclic Aromatic Hydrocarbons (PAHs) and Building Tribal Capacity through a Tribal-University Partnership*. CLU-IN Superfund Research Program Risk e-Learning Webinar, May 23, 2011. Posted at http://www.clu-in.org/conf/tio/engagement3_052311/
108. Barbara Harper. *Tribal Ecosystem Services*. Presented at Tribal NRDAR Conference at the Soaring Eagle Casino and Resort (Saginaw-Chippewa Tribe); sponsored by USEPA, DOI, and the Saginaw-Chippewa Tribe, Mount Pleasant MI July 20, 2011
109. B Harper (2011) *Applied Indigenous Community Impact Assessment*. Tribal Natural Resources Damages, Assessment and Restoration Conference, Saginaw-Chippewa Soaring Eagle Casino and Resort, Mount Pleasant, MI, July 19-21, 2011
110. B Harper. *Risk Assessment and Tribal Exposures*. Presentation given by webinar to National Tribal Toxics Committee and EPA, Washington DC. January 25, 2012.
111. B Harper (2012) *Tribal ecosystem services - FIFRA, ESA, and Federal Trusteeship*. Presentation to the National Research Council; Seattle; January 31, 2012
112. Forsberg, N., Stone, D., Harding, A., Harper, B., Harris, S., Matzke, M., Cardenas, A., Waters, K., Anderson, K. (2012). *Engagement of Native American Tribes in the determination of legacy and emerging PAH dietary exposure scenarios, assessment of possible risks to human health*. Presentation at the NIEHS-ATSDR National Workshop, Atlanta, GA.
113. B Harper. *Heritage or Rights-Based Fish consumption Rates in the Columbia Basin*. 2013 Tribal Leaders Summit, October 7-11, Northern Quest Resort & Casino, Spokane WA. Invited presentation, posted at <http://tels.kalispeltribe.com/>
114. Rohlman, D., Harper, B., Harding, A., Harris, S., Kile, M., Anderson, K., Simonich, S. (2014). Evolution of a robust tribal-university research partnership to investigate tribal exposures and build scientific capacity. Oral presentation at the Contemporary Northwest Tribal Health Conference, Portland, OR.
115. Rohlman, D., Harper, B., Harding, A., Harris, S., Kile, M., Anderson, K., Simonich, S. (2014). Evolution of a robust tribal-university research partnership to investigate tribal exposures and build scientific capacity. Oral presentation at the 6th Annual Northwest Environmental Health Conference, Portland, OR.
116. Barbara Harper, Jamie Donatuto, and Catherine O'Neill (2014). *Tribal Perspectives on Selecting a Rights-Based / Heritage Fish Consumption Rate in the Columbia Basin for Water Quality Standards*. Webinar presentation to the EPA New England Spring 2014 Tribal Environmental Conference, April 2, 2014, Chelmsford, MA.
117. Barbara Harper and Anna Harding (2014). *Evolution of a Robust Tribal-University Research Partnership to Investigate Tribal Exposures and Build Scientific Capacity Tribal-University Collaboration to Address Tribal Exposures to PAHs and Improve Community Health*. 6th Annual Northwest Environmental Health Conference, April 8, 2014, Portland State University, Portland, OR
118. Oleksii Motorykin, Jill Schrlau, Yuling Jia, Barbara Harper, Stuart Harris, Anna Harding, David Stone, Dan Sudakin, and Staci L. Massey Simonich (2014). *Determination of Parent And Hydroxylated PAHs In Urine And PM2.5 Personal Air Samples Collected During Native American's Fish Smoking*. Superfund Research Program External Advisory Meeting, Pacific Northwest National Laboratory, Richland WA June 1-3, 2014.
119. Barbara Harper (2014). *CTUIR Perspectives on Hanford Endstates and Ecosystem Services*. Presented at the Early Restoration Workshop, sponsored by the Hanford Natural Resources Trustee Council, Richland WA, June 4, 2014.

120. Scott Lafontaine, Jill Schlau, Jack Butler, Barbara Harper, Stuart Harris, Anna Harding, Staci Simonich (2014). *Relative Influences of Trans-Pacific and Regional Transport on PAHs in the Pacific Northwest (PNW), USA*. Poster presented at SETAC, November 9-13, Vancouver BC.