Frank A. von Hippel

Department of Community, Environment & Policy
Mel & Enid Zuckerman College of Public Health
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R[G]: https://www.researchgate.net/profile/Frank_Von_Hippel2
NCBI bibliography: https://www.ncbi.nlm.nih.gov/sites/myncbi/frank.von hippel.1/bibliography/44654552/public
Website: https://frankvonhippel.github.io

Education

Ph.D., Integrative Biology, University of California, Berkeley, 1996
Major Professor: George Barlow
A.B., Biology, with honors, Dartmouth College, Hanover, 1989

Employment & Appointments

The University of Arizona: Department of Community, Environment & Policy, Mel & Enid Zuckerman College of Public Health, Professor of Environmental Health Sciences (2021-present)
- Lead of the UA's One Health Research Initiative (https://healthsciences.arizona.edu/research/one-health)
- Member of the Southwest Environmental Health Sciences Center (http://swehsc.pharmacy.arizona.edu/home)
- Member of the Environment, Exposure Science & Risk Assessment Center (https://esrac.arizona.edu/)
- Member of the Center for Latin American Studies (https://las.arizona.edu/)
- Member of BIO5 Institute (https://bio5.org/)
- Member of the Clinical Translational Sciences Graduate Program (https://cts.uahs.arizona.edu/)

Northern Arizona University: Department of Biological Sciences, Professor (2016-2021)
University of Alaska Anchorage: Department of Biological Sciences, Professor (2009-2016), Associate Professor (2003-2009), Assistant Professor (2000-2003)
University of Alaska, Fairbanks: Department of Biology and Wildlife, Affiliate Professor of Wildlife (2002-2016) & School of Fisheries and Ocean Sciences, Affiliate Professor of Fisheries (2011-2016)
University of Virginia: Semester at Sea Faculty (Spring 2013)
University of Pittsburgh: Semester at Sea Faculty (Fall 1999)
Columbia University: Department of Earth & Environmental Sciences, Assistant Professor (1996-1999)

University of California, Berkeley: Department of Integrative Biology, Lecturer (1994-1996), Graduate Student Instructor (1990-1994)

Laboratory Focus

I conduct research at the nexus of ecotoxicology, mechanisms of toxicity, and health disparities. I study wildlife and laboratory animals as models for human exposure and disease, as well as to solve problems in conservation biology. I am especially interested in health disparities experienced by vulnerable populations and I employ Community Based Participatory Research (CBPR) and community-engaged research (CEnR) approaches. I integrate a variety of methods to establish routes of exposure and mechanisms of developmental disruption ranging from the genome to the whole organism and its environment.

Research Support

National Science Foundation, Polar Programs, 2022-2026 ($1,600,000)
Yang, Y. (contact PI), von Hippel, F.A., Schmidt, J.I., & Schwoerer, T.
"Collaborative Research: Sustainable management of human organic pollutant exposure (HOPE) at formerly used defense sites in the changing Arctic" - 2148059

Flinn Foundation, 2021-2024 ($288,000).
von Hippel, F.A.
"Neurological effects of pollutant exposures in model rodents collected on Cocopah Tribal lands" - 21-06426

National Institute of Environmental Health Sciences Research to Action RO1, 2021-2026 ($2,935,932)
von Hippel, F.A. (contact PI), Buck, C.L, Miller, P.K., Salamova, A., Byrne, S., & Carpenter, D.O.
"Restoring Northeast Cape for the health and well-being of the Yupik communities of St. Lawrence Island, Alaska" – NIEHS 1R01ES032392

Southwest Environmental Health Sciences Center, 2021-2023 ($40,000)
von Hippel, F.A. (contact PI), Beamer, P., Ingram, J., Salamova, A., Solomons, N.W. & Orozco, M.N.
"Exposure to persistent pesticides and toxic metal(loid)s via breastmilk in infants living in the Lake Atitlán watershed, Guatemala"

U.S. Fish & Wildlife Service, 2019-2023 ($160,483)
Jacobs, D. (contact PI), von Hippel, F.A., Richmond, J., & Bohling, J.
"Development of a contingency plan for unarmored threespine stickleback in the Santa Clara River watershed" - F19AC00543

Flinn Foundation, 2018-2020 ($100,000)
von Hippel, F.A. (contact PI), Buck, C.L., Baldwin, J. & Trotter, R.
"Health disparities associated with fungicide exposure among residents of Yuma, Arizona" - #2187

National Institute of Environmental Health Sciences R01, 2017-2024 ($2,765,609)
Miller, P.K. (contact PI), von Hippel, F.A., Buck, C.L. & Carpenter, D.

"Protecting the health of future generations: assessing and preventing exposures to endocrine-disrupting flame retardant chemicals & PCBs in two Alaska Native arctic communities on St. Lawrence Island" – NIEHS 2RO1ES019620

Flinn Foundation, 2017-2022 ($210,000)
von Hippel, F.A. (contact PI), Baldwin, J., Trotter, R. & Buck, C.L.
"Environmental correlates of patient health outcomes in Yuma, Arizona" - #2102

Australian Research Council (Australian $325,679) and the Anindilyakwa Land Council (Australian $225,000), 2017-2020
Wilson, R. (contact PI), Campbell, H., Fisher, D., Blomberg, S. & von Hippel, F.A.
"The ecology of trace metal contamination in native mammals" – LP160100736

National Science Foundation, 2017-2019 ($107,750)
Bell, M.A. (contact PI) & von Hippel, F.A.
"Preparation of research collections to deposit in museums" – DEB 1745393

National Institutes of Health Alaska INBRE Bioinformatics Grants, 2015 ($24,900)
von Hippel, F.A.
"Differential gene expression in ninespine stickleback and Alaska blackfish due to PCB contamination: development of bioinformatics pipeline," & "Production of a low-coverage genome for Alaska blackfish (*Dallia pectoralis*)"

National Institutes of Health Alaska INBRE Faculty Pilot Research Awards, 2013-2015 ($125,000)
von Hippel, F.A. & Buck, C.L.
"Development of vitellogenin assay for the ninespine stickleback" & "Development of genomic approaches to study endocrine disruption"

GreatLand Trust, 2012-2014 ($83,845)
von Hippel, F.A. (contact PI) & Buck, C.L.
"Stickleback biomarkers of aquatic pollution in Ship Creek, Alaska"

National Institute of Environmental Health Sciences RO1, 2011-2017 ($2,354,871)
Miller, P.K. (contact PI), von Hippel, F.A., Buck, C.L. & Carpenter, D.
"Protecting the health of future generations: assessing and preventing exposures to endocrine-disrupting chemicals in two Alaska Native arctic communities on St. Lawrence Island" – NIEHS 1RO1ES019620

National Institute of Environmental Health Sciences RO1, 2010-2015 ($2,792,848)
von Hippel, F.A. (contact PI), Postlethwait, J., Cresko, W. & Buck, C.L.
"Mechanisms of perchlorate-induced disruption of sexual differentiation" - NIEHS 1RO1ES017039

National Science Foundation, Division of Environmental Biology, 2009-2013 ($671,653)
von Hippel, F.A. collaborative proposal with Cresko, W.A.
"Evolutionary genomics of rapid adaptation in threespine stickleback" - DEB 0919234

Aerospace Corporation, 2006-2008 ($263,740)
von Hippel, F.A.
"Effects of perchlorate on fish development and behavior"

National Science Foundation, Division of Environmental Biology, 2003-2006 ($530,000)
von Hippel, F.A. collaborative proposal with Bell, M.A. & Rohlf, J.
"Rapid phenotypic evolution and speciation in a lake stickleback" - DEB 0320076

Pfizer Inc. Research Grant, 2003-2004 ($46,342)

von Hippel, F.A. & von Hippel, W.
"Effects of Viagra on trade in threatened species used in traditional Chinese, Indian and African medicines"

National Science Foundation Alaska EPSCoR Program, 2003 ($17,368)
von Hippel, F.A., Kliskey, A., Colt, S.G.
"Resilience of aquatic ecosystems on the Kenai Peninsula"

United States Air Force, 2003 ($89,405)
Hines, M. (contact PI) & von Hippel, F.A.
"Biological effects of inadvertent perchlorate releases during launch operations" – Phase II

United States Department of the Interior, Bureau of Land Management, 2002-2005 ($56,941 + significant logistical, travel, and equipment support)
von Hippel, F.A.
"Freshwater fish biogeography and evolution in the Bering Glacier region, Alaska"

United States Air Force, 2002-2003 ($149,977)
Hines, M. (contact PI), Kennish, J. & von Hippel, F.A.
"Biological effects of inadvertent perchlorate releases during launch operations" – Phase I

Pfizer Inc. Research Grant, 2001-2002 ($25,000)
von Hippel, F.A. & von Hippel, W.
"Sex, drugs and animal parts: Will Viagra save threatened species?"

Teaching & Mentoring Awards

University of Alaska Anchorage, Faculty Exemplar Award for long-term mentoring of undergraduate research, 2015

University of Alaska Anchorage, Center for Community Engagement and Learning, Service-Learning Awards, 2001, 2002, 2003, 2004, 2008, 2012, 2014

Alaska Native Science and Engineering Program (ANSEP) baleen award for mentoring Alaska Native students

National Science Foundation, Division of Environmental Biology, 2004-2006 ($24,000)
von Hippel, F.A. Research Experiences for Undergraduates. - DEB 0618551, DEB 0522059, DEB 0422687

National Science Foundation, Division of Undergraduate Education, 2001-2004 ($69,011)
Colt, S.G. & von Hippel, F.A. "Development of Alaska Earth Systems Field School" - DUE 0088662

University of Alaska Natural Resources Fund, 2002-2003 ($24,000)
Major, E.B. & von Hippel, F.A. "Community based water quality assessment: Building on the service-learning approach"

University of California Teaching Effectiveness Award, 1996

University of California Outstanding Graduate Student Instructor Award, 1995

Service Awards

University of Alaska Anchorage, Chancellor's Award for Excellence in Service to the Community, 2011

University of Alaska Meritorious Faculty Award for Extraordinary Performance, 2003
Columbia University Academic Achievement Award, 1999

Scholarships, Fellowships & Honors

(selected from dozens of awards and small research grants)

Ernest Hodgson Distinguished Lecturer in Toxicology, North Carolina State University, 2019
National Science Foundation Graduate Fellowship, 1990-1993 ($58,050)
Harry S. Truman National Scholarship, 1987-1991 ($28,000)

Editorial Service

Environmental Pollution: Associate Editor (2015-2018), Editorial Board Member (2018-present); Ranked 23 out of 274 environmental science journals; Impact Factor: 9.988 http://www.journals.elsevier.com/environmental-pollution/
Heliyon: Editorial Board Member (2019-present); Impact Factor: 3.776
Ciencias Veterinarias y Producción Animal (2023-present)

Science History Podcast

http://sciencehistory.libsyn.com/website
https://podcasts.apple.com/us/podcast/science-history-podcast/id1325288920
Twitter: @sci_history
Regular listeners in ~80 countries, downloads in 162 countries
Consistently ranked among the top podcasts in the world in the science history category.

Media coverage, blogs and reviews:
Environmental Health News, Dec. 22, 2017: http://www.ehn.org/pete-myers-endocrine-science-2519169441.html
Arizona Daily Sun, Feb. 22, 2018: http://azdailysun.com/news/local/nau-professor-puts-science-history-into-podcast-form/article_05cacac1-fd63-5090-82d7-6f0f50091556.html#tracking-source=home-top-story-1
Guest on Academe Blog, Oct. 5, 2018: https://academeblog.org/2018/10/05/science-history-podcast-counters-attacks-on-science/
Arizona Daily Sun, Feb. 9, 2019: https://azdailysun.com/news/nau-professor-s-science-history-podcast-now-reaches-countries/article_3431f57a-588d-5910-a473-f1267e5786e7.html#tracking-source=home-top-story-1
Gerald R. Ford School of Public Policy news, April 19, 2019: http://fordschool.umich.edu/news/2019/axelrod-talks-don-t-fall-zero-sum-trap-and-other-lessons-podcast
Conservation International, Dec. 3, 2019: https://www.conservation.org/blog/nature-and-culture-an-elephant-documentary-a-climate-friendly-cookbook-and-more
Society for Conservation Biology Newsletter, March 31, 2020: https://conbio.org/

Sease, K. (2020). Review of Frank A. von Hippel, *Science History Podcast*. H-Podcast, H-Net Reviews. October, 2020: http://www.h-net.org/reviews/showrev.php?id=55755
Dahn, R. (2021). New books and media, Physics Today 74(6):57. https://physicstoday.scitation.org/doi/full/10.1063/PT.3.4775

Episodes:
Episode 1. *Endocrine Disruption*: Pete Myers [December 2017]
Episode 2. *Nuclear Weapons and the Cold War*: Jose Goldemberg and Frank N. von Hippel [January 2018]
Episode 3. *U.S. Congressional Attacks on Science*: Melinda Baldwin and Josh Shiode [February 2018]
Episode 4. *Finding Pluto*: Kevin Schindler and Will Grundy [March 2018]
Episode 5. *Explorers and Extinction in Hawaii*: Dan Lewis [April 2018]
Episode 6. *Chemical Causes of Obesity*: Bruce Blumberg [May 2018]
Episode 7. *Animal Intelligence*: Irene Pepperberg [June 2018]
Episode 8. *British Explorers, Part 1*: Ian Owens [July 2018]
Episode 9. *British Explorers, Part 2*: Andrea Hart and Max Barclay [August 2018]
Episode 10. *Winston Churchill's Science, Part 1*: James Muller [September 2018]
Episode 11. *Winston Churchill's Science, Part 2*: James Muller [October 2018]
Episode 12. *Climate Change*: John Matthews [November 2018]
Episode 13. *Water Sanitation*: Dennis Warner [December 2018]
Episode 14: *Aquaporins*: Nobel Laureate Peter Agre [January 2019]
Episode 15: *Bioterrorism*: Paul Keim [February 2019]
Episode 16: *Forensic Science*: Bruce Budowle [March 2019]
Episode 17: *Cooperation*: Robert Axelrod [April 2019]
Episode 18: *Herbicidal Warfare*: Matthew Meselson [May 2019]
Episode 19: *Yellow Rain*: Matthew Meselson [June 2019]
Episode 20: *Gravitational Waves*: Nobel Laureate Rai Weiss [July 2019]
Episode 21: *Plutonium*: Frank N. von Hippel [August 2019]
Episode 22: *Sex Differences in the Brain*: Margaret McCarthy [September 2019]
Episode 23: *Human Evolutionary Genetics*: Jason Wilder [October 2019]
Episode 24: *Conservation of Freshwater Ecosystems*: Ian Harrison [November 2019]
Episode 25: *Space Science*: Pam Melroy [December 2019]
Episode 26: *Linguistics*: Noam Chomsky [January 2020]
Episode 27: *Biodiversity*: Thomas Lovejoy [February 2020]
Episode 28: *Environmentalism*: Paul Ehrlich [March 2020]
Episode 29: *Green Chemistry*: Terry Collins [April 2020]
Episode 30: *Global Amphibian Declines*: David Wake [May 2020]
Episode 31: *Science & Poetry*: Dava Sobel [June 2020]
Episode 32: *Materials Science*: Ainissa Ramirez [July 2020]
Episode 33: *Industrial Denial*: Barbara Freese [August 2020]
Episode 34: *The Chemical Age*: Pete Myers & Frank von Hippel [September 2020]
Episode 35: *The Pentagon Papers*: Daniel Ellsberg [October 2020]
Episode 36: *Dark Money*: David Michaels [November 2020]
Episode 37: *Environmental Health*: Linda Birnbaum [December 2020]

Episode 38: *Falsifiability*: Sean Carroll [January 2021]
Episode 39: *Reproductive Health*: Shanna Swan [February 2021]
Episode 40: *H.M.S. Challenger*: Doug Macdougall [March 2021]
Episode 41: *Galileo's Dialogue*: John Heilbron [April 2021]
Episode 42: *Euclid's Elements*: David Acheson [May 2021]
Episode 43: *Number Theory*: Bryden Cais [June 2021]
Episode 44: *Chemical Sense & Nonsense*: Joe Schwarcz [July 2021]
Episode 45: *Wildlife Biology*: George Schaller [August 2021]
Episode 46: *Unsettled Research*: Mark Lytle [September 2021]
Episode 47: *The Demarcation Problem*: Michael Gordin [October 2021]
Episode 48: *Nuclear Disarmament*: Zia Mian [November 2021]
Episode 49: *Armament & Disarmament*: Richard Garwin [December 2021]
Episode 50: *Space & the 60s*: Neil Maher [January 2022]
Episode 51: *Ecological Economics*: Herman Daly [February 2022]
Episode 52: *Neurological Disorders*: Sara Manning Peskin [March 2022]
Episode 53: *Industrial Agriculture*: Helen Anne Curry [April 2022]
Episode 54: *Bohr's Atom*: John Heilbron [May 2022]
Episode 55: *DDT*: Elena Conis [June 2022]
Episode 56: *Marine Pollution*: David Valentine [July 2022]
Episode 57: *Bias*: Jim Zimring [August 2022]
Episode 58: *Subtraction*: Leidy Klotz [September 2022]
Episode 59: *The Civilian Conservation Corps*: Neil Maher [October 2022]
Episode 60: *Planetary Boundary Threats*: Bethanie Carney Almroth [November 2022]
Episode 61: *Foresight*: Thomas Suddendorf [December 2022]
Episode 62: *Conservation Easement or Easy Pollution?* Jaimi Dowdell & Andrea Januta [January 2023]
Episode 63: *Paleoanthropology*: Evan Hadingham [February 2023]
Episode 64: *Environmental Diplomacy*: Mark Lytle [March 2023]
Episode 65: *Ideology & Science*: Lee Jussim [April 2023]
Episode 66: *Climbing, Chemistry & Policy*: Arlene Blum [May 2023]
Episode 67: *Lazaretto*: David Barnes [June 2023]
Episode 68: *Pandemics*: Leslie Reperant [July 2023]
Episode 69: *Ancient DNA*: Maanasa Raghavan [August 2023]
Episode 70: *Retrospective: James Franck* [September 2023]
Episode 71: *Retrospective: The Franck-Hertz Experiment* [October 2023]
Episode 72: *Scientific Espionage*: Eli Lake [November 2023]
Episode 73: *Pascual Jordan's Duplicity*: Ryan Dahn [December 2023]
Episode 74: *Novichok*: Vil Mirzayanov [January 2024]
Episode 75: *Retrospective: Oliver Sacks* [February 2024]

Publications on the History of Science

von Hippel, F.A. (2022). "This odious weapon": Winston Churchill and chemical warfare. *Finest Hour* 195:27-32

von Hippel, F.A. (2020). Pesticides, incendiaries…How US chemical companies endeared themselves to the public. *Literary Hub* September 25, 2020: https://lithub.com/pesticides-incendiaries-how-us-chemical-companies-endeared-themselves-to-the-public/

von Hippel, F.A. (2020). *The Chemical Age – How Chemists Fought Famine and Disease, Killed Millions, and Changed Our Relationship with the Earth*. The University of Chicago Press, Chicago, IL. 368 pp. ISBN: 9780226697246 https://www.press.uchicago.edu/ucp/books/book/chicago/C/bo49298855.html

Translations

Korean: Kachi Publishing Co., Ltd. (2021) http://www.kachibooks.co.kr/sub/view.htm?book_code=809&category1_code=14&ckattempt=1

Chinese: Chongqing University Press (2021)

Spanish (La Era Química): Bauplan (2023) https://www.bauplanbooks.com/producto/la-era-quimica/

Japanese: in press

Media Coverage, Q&As, Presentations, Interviews, & Book Reviews:

Book Q&As with Deborah Kalb, March 1, 2020 https://deborahkalbbooks.blogspot.com/2020/03/q-with-frank-von-hippel.html

Conn, D.R. (2020). *Library Journal*, March 27, 2020 https://www.libraryjournal.com/?reviewDetail=the-chemical-age-how-chemists-fought-famine-and-disease-killed-millions-and-changed-our-relationship-with-the-earth

"Don't Miss" section of the *New Scientist*, April 15, 2020 https://www.newscientist.com/article/mg24632780-400-dont-miss-absurd-animals-the-chemical-age-and-diy-dancing/

Public Intellectual podcast with Jessa Crispin, June 8, 2020 https://podcasts.apple.com/us/podcast/relationship-between-disease-war-frank-von-hippel/id1254692630?i=1000477175993

The Page 99 Test & Campaign for the American Reader, September 1, 2020 https://page99test.blogspot.com/2020/09/frank-von-hippels-chemical-age.html http://americareads.blogspot.com/2020/09/pg-99-frank-von-hippels-chemical-age.html

Rorotoko, cover interview September 2, 2020
http://rorotoko.com/interview/20200902_vonhippel_frank_on_book_chemical_age_how_chemists_fought_famine/?page=1

Peplow, M. (2020). Can the history of pollution shape a better future? *Nature* 585(3 September 2020):25-26. https://www.nature.com/articles/d41586-020-02498-9

The Joe Rogan Experience, September 23, 2020
https://open.spotify.com/episode/4P8NFI28O93M0FJktVjo2V

NAU Research News, September 24, 2020
https://nau.edu/nau-research/the-chemical-age/
http://news.nau.edu/von-hippel-book/#.X2zxGYt7lEZ

Flagstaff Festival of Science, September 26, 2020
https://www.youtube.com/watch?v=254IFd-q6jA

AMA (ask me anything) for the Joe Rogen Experience subreddit, October 1, 2020
https://www.reddit.com/r/JoeRogan/comments/j27lcn/ama_with_frank_von_hippel_jre_episode_1540

Stevenson, R. (2020). Review of *The Chemical Age*. *Integrated Environmental Assessment and Management* 16(6):1019-1025.
https://setac.onlinelibrary.wiley.com/doi/full/10.1002/ieam.4335

Raf Chats, October 7, 2020
https://open.spotify.com/episode/6MnMyB9AnBHcMpGmiKNdBy

Faculti, October 28, 2020
https://faculti.net/the-chemical-age/

NPR "Inquiry", November 2, 2020:
https://www.wicn.org/podcast/frank-a-von-hippel/

McManus, A. (2020). The two faces of modern chemistry. *Physics Today* November 2020:53-54.
https://physicstoday.scitation.org/doi/full/10.1063/PT.3.4618

Dr. Carlos Show – Circle of Insight, November 17, 2020:
https://www.youtube.com/watch?v=_USKGpbsDPw&feature=youtu.be
https://podcasts.apple.com/us/podcast/the-circle-of-insight/id1474337850?i=1000499219701

The Smart Human Podcast with Aly Cohen, November 28, 2020:
https://podcasts.apple.com/us/podcast/pestilence-pesticides-and-covid-with-frank-von-hippel/id1518816002?i=1000500626015

The David Pakman Show, December 3, 2020:
https://www.youtube.com/watch?v=ovckxedkzYU&t=10s

Author Q&A: Frank A. von Hippel on pesticides and podcasting, *Physics Today*, December 4, 2020:
https://physicstoday.scitation.org/do/10.1063/PT.6.4.20201204a/full/

Fundamental Health with Paul Saladino, December 14, 2020:
https://podcasts.apple.com/us/podcast/how-our-love-affair-toxic-chemicals-is-killing-us-frank/id1461771083?i=1000502385803

RT Worlds Apart, December 27, 2020:
https://www.rt.com/shows/worlds-apart-oksana-boyko/510826-spoils-science-hippel-ecotoxicology/

Pandemia, December 31, 2020:
https://viertausendhertz.de/pan17/

מדברימדע - הפודקסט מבית מדע גדול, בקטנה, January 31, 2021
https://www.podbean.com/eu/pb-5tr8z-f92ca8

Kolbert, E. "Chemical warfare's home front." *The New York Review of Books*, Februrary 11, 2021
https://www.nybooks.com/articles/2021/02/11/chemical-warfares-home-front/

Dr. Carlos Show – Circle of Insight, February 22, 2021:
https://www.youtube.com/watch?v=hQmwO9AEx9k

Conis, E. (2021). Book review. *Agricultural History* 95(1):204-206.

Székács, A. (2021). Book review. *Ecocycles* 7(1):34-37.

Brock, W.H. (2021). Book review. *Ambix*.
https://doi.org/10.1080/00026980.2021.1919456

Health Living Healthy Planet, June 14, 2021:
https://podcasts.apple.com/us/podcast/episode-86-chemicals-toxic-materials-environmental/id1490857227?i=1000525483867

Barker, J.H. (2021). Book review. *Choice Magazine* 58(10).

Campos-Seijo, B. (2021). Book review. *Chemical & Engineering News* 99(27):
https://cen.acs.org/biological-chemistry/biochemistry/Book-review-Chemical-Age/99/i27

Hepler-Smith, E. (2021). Book review. *H-Environment* (August, 2021): https://networks.h-net.org/node/19397/reviews/8005627/hepler-smith-von-hippel-chemical-age-how-chemists-fought-famine-and

Travis, A.S. (2021). Book review. *Royal Society of Chemistry Historical Group Newsletter and Summary of Papers* 80(summer 2021):46-48. https://www.rsc.org/globalassets/03-membership-community/connect-with-others/through-interests/interest-groups/historical/newsletters/historical-group-newsletter-no.-80-summer-2021.pdf

Q&A, Northern Arizona University Environmental Science Program, Oct. 20, 2021

Applied Physics Laboratory seminar, Oct. 22, 2021

Alaska World Affairs Council Q&A, Nov. 12, 2021: https://youtu.be/VyCWryl3SnY

Dr. Carlos Show – Circle of Insight, May 23, 2022

Thompson, P. (2022). Book review. *Technology & Culture* 63(3):902-904.

The Joe Gardener Show with Joe Lamp'l, Oct. 6, 2022: https://joegardener.com/podcast/chemical-age-how-tools-of-war-became-agricultural-chemicals/

University of Arizona, Department of History Q&A, Nov. 16, 2022

The Nature & Nurture Podcast, Nov. 17, 2022: https://podcasts.apple.com/us/podcast/nature-nurture-80-dr-frank-von-hippel-the-chemical-age/id1562977026?i=1000586435878

Plants Grow Here, Jan. 29, 2023: https://open.spotify.com/episode/7rMQMhnKX9bT5Zex9cLSmn?si=FWlShOkJTbGieOD-cRrSug&nd=1

Jan Philipp Fredebeul, July 24, 2023: https://open.spotify.com/episode/32nUpm2wRI7nC3wl2n9NK4?si=VhQWbR9kT86y_Eb1ztyU3g

Something You Should Know, Oct. 2, 2023: https://podcasts.apple.com/us/podcast/understanding-fear-and-bravery-in-everyday-life-how/id1150124880?i=1000629872404

Ethic, Feb. 21, 2024: https://ethic.es/2024/02/entrevista-frank-von-hippel/

von Hippel, F.A., Editor (2010). *Tinbergen's Legacy in Behaviour: Sixty Years of Landmark Stickleback Papers*. Brill Academic Publishers, Leiden, The Netherlands. 539 pp. ISBN: 9789004170292. https://brill.com/view/title/15545
Includes the following historical commentaries:
von Hippel, F.A. Introduction: the stickleback model, pp. 3-11.
von Hippel, F.A. The reproductive cycle, pp. 23-39.
von Hippel, F.A. Homosexuality, cannibalism & sexual strategies, pp. 193-201.
von Hippel, F.A. Predators & parasites, pp. 347-352.
von Hippel, F.A. Physiology & behaviour, pp. 413-422.
von Hippel, F.A. & Cresko, W.A. Behavioural genetics, phylogenetics & speciation, pp. 459-467.

Book reviews:

Laskowski, K.L., Giesing, E.R., Stein, L.R., Pearish, S.P. & Kent, M.H. (2010). *Quarterly Review of Biology* 85(4):516.

Frommen, J.G. (2011). *Journal of Fish Biology* 79:310-311.

Ward, A. (2011). *Fish and Fisheries* 12:120-121.

von Hippel, F.A. (2008). George Barlow's impact on ethology. *Behaviour* 145:413-423. DOI: 10.1163/156853908792451494

Research Publications

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von Hippel, F.A. & Weigner, H. (2004). Sympatric anadromous-resident pairs of threespine stickleback species in young lakes and streams at Bering Glacier, Alaska. *Behaviour* 141(11-12):1441-1464.
DOI: 10.1163/1568539042948259

Dodds, E.D., Kennish, J.M., von Hippel, F.A., Bernhardt, R. & Hines, M. (2004). Quantitative analysis of perchlorate in extracts of whole fish homogenates by ion chromatography: Comparison of suppressed conductivity detection and electrospray ionization mass spectrometry. *Analytical and Bioanalytical Chemistry* 379:881-887.
DOI: 10.1007/s00216-004-2660-8 – PMID: 15221180

von Hippel, F.A. & von Hippel, W. (2002). Sex, drugs, and animal parts: Will Viagra save threatened species? *Environmental Conservation* 29(3):277-281.
DOI: 10.1017/S037689290200019X

von Hippel, F.A. (2000). Vigorously courting male sticklebacks are poor fathers. *Acta Ethologica* 2:83-89.
DOI: 10.1007/s102119900010

von Hippel, F.A., Frederick, H. & Cleland, E. (2000). Population decline of the black and white colobus monkey (*Colobus guereza*) in the Kakamega Forest, Kenya. *African Zoology* 35(1):69-75.
DOI: 10.1080/15627020.2000.11407193

von Hippel, F.A. (1999). Black male bellies and red female throats: Color changes with breeding status in a threespine stickleback. *Environmental Biology of Fishes* 55:237-244.
DOI: 10.1023/A:1007572620424

von Hippel, F.A. (1998). Use of sleeping trees by black and white colobus monkeys (*Colobus guereza*) in the Kakamega Forest, Kenya. *American Journal of Primatology* 45:281-290.
DOI: 10.1002/(SICI)1098-2345(1998)45:3<281::AID-AJP4>3.0.CO;2-S
PMID: 9651650

von Hippel, F.A. (1996). Interactions between overlapping multimale groups of black and white colobus monkeys (*Colobus guereza*) in the Kakamega Forest, Kenya. *American Journal of Primatology* 38:193-209.
DOI: 10.1002/(SICI)1098-2345(1996)38:3<193::AID-AJP1>3.0.CO;2-U

Meilman, P.W., von Hippel, F.A. & Gaylor, M.S. (1991). Self-induced vomiting in college women: Its relation to eating, alcohol use, and Greek life. *Journal of American College Health* 40:39-41.
PMID: 1885855

Scientific Commentary, Invited Papers, and Book Reviews

von Hippel, W., von Hippel, F.A. & Suddendorf, T. (2020). Evolutionary foundations of social psychology. In: P.A.M. Van Lange, E.T. Higgins & A.W. Kruglanski (Eds.), *Social Psychology, Handbook of Basic Principles*, Third Edition. New York: The Guilford Press.

von Hippel, F.A. (2015). Book review of *Organic Chemical Toxicology of Fishes*, edited by K.B. Tierney, A.P. Farrell, & C.J. Brauner. *The Quarterly Review of Biology* 90:236-237.
DOI: 10.1086/681505

von Hippel, W. & von Hippel, F.A. (2014). Goals are not selfish. *Behavioral and Brain Sciences* 37:157-158.
DOI: 10.1017/S0140525X13002173 – PMID: 24775145

von Hippel, F.A. (2011). Bill to ban PBDEs would protect Alaskans. *Anchorage Daily News* February 21, 2011:A-13.

von Hippel, F.A. (2005). Book review of *Adaptive Speciation*, edited by U. Dieckmann, M. Doebeli, J. A. J. Metz, & D. Tautz. *The Quarterly Review of Biology* 80:349-350.

von Hippel, W. & von Hippel, F.A. (2004). Is Viagra a viable conservation tool? Response to Hoover, 2003. *Environmental Conservation* 31(1):4-6.
DOI: 10.1017/S0376892904001195

von Hippel, F.A. (2004). City should be pesticide-free zone. *Anchorage Daily News* July 3, 2004:B-4.

Colt, S.G. & von Hippel, F.A. (2004). Need for scientific literacy evident everywhere in society. *Anchorage Daily News* April 25, 2004:E3.

von Hippel, F.A. (2003). DNR no place for Habitat Division. *Anchorage Daily News* April 10, 2003:B-6.

von Hippel, F.A. (2003). The Arctic National Wildlife Refuge. In: R.M. Stapleton (Ed.): *Pollution A to Z*. New York: Macmillan Reference USA. pp. 41-43.
ISBN: 0028657004 9780028657004 0028657012 9780028657011 0028657020 9780028657028

von Hippel, F.A. & von Hippel, T.A. (2003). Disasters: oil spills. In: R.M. Stapleton (Ed.): *Pollution A to Z*. New York: Macmillan Reference USA. pp. 138-141.
ISBN: 0028657004 9780028657004 0028657012 9780028657011 0028657020 9780028657028

von Hippel, F.A. (2001). Evolution not all at sea. *Journal of Biogeography* 28:673.
DOI: 10.1046/j.1365-2699.2001.00558.x

von Hippel, F.A. (2000). Sustaining the unsustainable. A book review of "Ecology of an African Rain Forest. Logging in Kibale and the Conflict between Conservation and Exploitation." *African Primates* 1999-2000:69-70.

von Hippel, F.A. & von Hippel, W. (1998). Solution to a conservation problem? *Science* 281:1805.
DOI: 10.1126/science.281.5384.1805c – PMID: 9776681

von Hippel, F.A. (1998). What's up with NASA? *Earth Matters* Spring 1998:20.

von Hippel, F.A. (1997). NASA should focus on unmanned missions. *Academic Science News & Review* September 1997:4,9.

von Hippel, F.A. & von Hippel, T. (1996). Past life on Mars? *Science* 273:1639.
DOI: 10.1126/science.273.5282.1639a

Teaching

University of Arizona (2021-present):

- Environmental & Occupational Health Seminar (graduate)
- Toxicology & Chemical Exposure (graduate)

Northern Arizona University (2016-2021):

- Ecotoxicology (graduate)
- Mentoring of undergraduate research for minority students via the NSF LSAMP, NIH RISE, and NSF REU programs

University of Alaska Anchorage (2000-2016):

- Alaska Earth Systems Field School (*co-founder & co-director summers 2001-2004*)
- Advanced Alaska Earth Systems Field School (graduate)
- Advanced Conservation Biology (graduate)
- Advanced Evolutionary Theory (graduate)
- Animal Behavior & Animal Behavior Lab/Behavioral Ecology
- Biogeography
- Community Based Environmental Research: A Field Sampling Institute – a course on contaminants and public health offered in Nome for residents of Alaska Native villages in Norton Sound and Bering Sea islands
- Conservation Biology
- Earth as an Ecosystem: Introduction to Environmental Science
- Enduring Books: Carson's Silent Spring (freshman honors course)
- Graduate Research Techniques
- Lab Practicum: Ecotoxicology

University of Virginia, Semester at Sea (Spring 2013):

- Marine Biology
- Conservation Biology

Northwest Council for Study Abroad (Rosario, Argentina: Universidad Nacional de Rosario; Spring 2011):

- Environmental Justice
- Enduring Books: Carson's Silent Spring

Northwest Council for Study Abroad (Valdivia, Chile; in Spanish; Fall 2007):

- Conservation Biology
- Biogeography and Conservation Case Studies in Chile

University of Pittsburgh, Semester at Sea (Fall 1999):

- Behavioral Ecology

Global Ecology
Primate Biology

Columbia University (1996-2000):
Beyond Deforestation: Causes, Patterns, and Consequences of Forest Degradation
Conservation Biology and Field Techniques in Conservation Biology
Earth Systems Field School: Encountering Ecosystems (*co-director summer 1999, director summer 2000*)
Field Course in Earth and Environmental Sciences
Introduction to Earth Systems: the Life System
Planetary Management Seminar and Laboratory
Principles and Methods of Ecological Stewardship
Tutorial in Earth and Environmental Sciences

University of California, Berkeley (1990-1996):
Advanced Primate Biology (lab)
Animal Biology: A Behavioral View (lab)
General Biology (lab)
Introduction to the Science of Living Organisms
Primate Biology

Field courses:
Contaminated sites, *Unalaska Island, Alaska* (NSF-sponsored course for Unalaska residents and the Qawalangin Tribe, summer 2023)
Tropical lake ecology (guest lecturer, in Spanish), *Guatemala* (USAID-sponsored course for Guatemalan students, spring 2014)
Ecology & conservation biology, *Semester at Sea* (University of Virginia, spring semester 2013)
Environmental justice & environmental history, *Argentina* (Northwest Council for Study Abroad/AHA, spring semester 2011)
Arctic ecotoxicology, *Nome* (summers 2008, 2009, 2012, 2022) *& Anchorage* (summer 2010; Alaska Community Action on Toxics, University of Alaska and the National Institutes of Health)
Conservation biology and biogeography (in Spanish), *Chile* (Northwest Council for Study Abroad/AHA, fall semester 2007)
Tropical rainforest ecology, *Costa Rica* (Organization for Tropical Studies & the National Science Foundation, course for Native American students, summer 2005)
Subarctic ecology & geomorphology, *Alaska* (University of Alaska Anchorage & the National Science Foundation, summers 2001, 2002, 2004)
Ecology & conservation biology, *Semester at Sea* (University of Pittsburgh, fall semester 1999)
Desert ecology, *Arizona and northern Mexico* (Columbia University, fall and spring semesters + summers 1996-2000)
Tropical rainforest ecology, *Peruvian Amazon River and flooded forest* (summer 1994)

Graduate Students, Ph.D.

University of Arizona:
Anna Yunuen Soto Fernández, Ph.D. exp. 2028
Jenna Honan, Ph.D. exp. 2024, "Associations between environmental exposures and health outcomes in Yuma County, Arizona"

Northern Arizona University:
Elise Adams, Ph.D. exp. 2024
Renee Jordan, Ph.D. 2022, "Formerly used defense sites on islands in the Bering Sea: hotspots of contamination and health risks to local communities and wildlife" (currently Remedial Project Manager, Region 9, US EPA)

University of Alaska Anchorage:
Emily Lescak, Ph.D. 2015, "Evolutionary genomics of rapid adaptation in threespine stickleback in Prince William Sound and the Gulf of Alaska" (currently geneticist with the Alaska Department of Fish and Game)
Christoff Furin, Ph.D. 2014, "Perchlorate toxicity in fish: trophic transfer, developmental windows, and histological biomarkers" (currently ecotoxicologist with the Alaska Department of Environmental Conservation)
James Willacker, Ph.D. 2013, "Ecological drivers of mercury accumulation in threespine stickleback fish" (currently research scientist with the USGS in Corvallis)
Heidi Weigner, Ph.D. 2012, "Freshwater fish biogeography in the Bering Glacier region, Alaska" (currently biologist for the Center for Environmental Management of Military Lands, Colorado State University)
Richard Bernhardt, Ph.D. 2008, "The effects of perchlorate exposure on a model vertebrate species: the threespine stickleback" (currently toxicologist with the U.S. Army Corps of Engineers)

Graduate Students, M.S.

University of Arizona:
Karla Ajoy Rendón, M.S. exp. 2025
Zoe Demitrack, M.S. exp. 2024

Northern Arizona University:
Patrice Timmons, M.S. 2022, "A review of characteristics influencing lake mercury dynamics, and drivers of variation in mercury concentration within stocked lake fish" (currently Administrative Assistant Senior in the Department of Biological Sciences, Northern Arizona University)
Elise Adams, M.S. 2018, "Polychlorinated biphenyl (PCB) contamination on Unalaska Island in the Aleutian Archipelago" (currently Ph.D. student, see above)

University of Alaska Anchorage:

Hugo Villavicencio, M.S. 2019, “Trophic ecology and bioaccumulation of toxic metals in Lake Atitlán, Guatemala” (currently environmental consultant in Guatemala)

Dona Eidam, M.S. 2015, "Trophic ecology of introduced populations of Alaska blackfish (*Dallia pectoralis*) in the Cook Inlet Basin, Alaska" (retired)

Kyle Shedd, M.S. 2013, "The evolutionary ecology of kokanee and trophic dynamics of mercury ecotoxicology in a unique, nonanadromous ecosystem in Southwest Alaska" (currently fisheries biologist with the Alaska Department of Fish and Game)

Leah Kenney, M.S. 2011, "Biogeography and ecotoxicology of freshwater fishes of the Aleutian Archipelago, Alaska" (currently conservation biologist with the U.S. Fish & Wildlife Service, Ecological Services Branch)

Emily Lescak, M.S. 2010, "Selection for threespine stickleback armor phenotypes in Wallace Lake, Alaska" (see above)

Stormy Haught, M.S. 2009, “Threespine stickleback extirpation and evolution in the face of northern pike invasion” (currently fisheries biologist with the Alaska Department of Fish and Game)

James Willacker, M.S. 2009, “Geometric morphometrics of threespine stickleback in the Cook Inlet Basin, Alaska” (see above)

Ofer Gelmond, M.S. 2007, “Rapid evolution in threespine stickleback in recently formed, seismically uplifted lakes, Middleton Island, Alaska” (owner of an ecotourism business for Alaskan destinations)

Christoff Furin, M.S. 2006, “The role of assortative mating between a newly derived resident freshwater population of threespine stickleback (*Gasterosteus aculeatus*) and its putative anadromous ancestor” (see above)

Rajit Patankar, M.S. 2004, “The effects of exotic northern pike (*Esox lucius*) on threespine stickleback (*Gasterosteus aculeatus*) populations in Southcentral Alaska” (currently an ecologist with the NSF NEON program)

Anjali Karve, M.S. 2004, “An investigation of ecological isolation and female life-history traits in a species pair of threespine stickleback (*Gasterosteus aculeatus*) in Mud Lake, Alaska” (currently an environmental consultant)

Post-doctoral Scientists

Michael Minicozzi, 2017-2019 (currently an Assistant Professor at Minnesota State University, Mankato)

Alison Gardell, 2013-2016 (currently an Assistant Professor at the University of Washington, Tacoma)

Richard Bernhardt, 2008-2012 (see above)

Professional Societies

American Fisheries Society
Society for Conservation Biology
Society of Environmental Toxicology and Chemistry

Selected Professional Service

Member of the Unarmored Threespine Stickleback (*Gasterosteus aculeatus williamsoni*) Recovery Team, U.S. Fish and Wildlife Service (2018-present).
Member of the Board of Directors of the Science Communication Network (2017-present).
Member of the Internal Advisory Committee of the NIH Partnership for Native American Cancer Prevention (2017-2021).
Review panels for the National Institute of Environmental Health Sciences and the National Institute of General Medical Sciences.
Member of the Contaminants and Pollutants Technical Working Group of the Aleutian and Bering Sea Islands (ABSI) Landscape Conservation Cooperative (LCC) – now the Aleutian Bering Sea Initiative (2013-present).
NIH Alaska INBRE Program Coordinator for the University of Alaska Anchorage and member of the Management Advisory Committee (2009-2012).
Volunteer instructor for Olé! (Opportunities for Lifelong Education!): “Introduction to Evolutionary Biology” (Fall 2009); "The Evolution of Human Behavior" (Winter 2011); “Endocrine Disruption” (Spring 2012); “Biology and Society” (Summer 2015).
Host, co-organizer, and editorial board member of the Fifth International Conference on Stickleback Behavior & Evolution, July 30-August 4, 2006, University of Alaska Anchorage (proceedings published in *Behaviour*).
Served on Freshwater Working Group and wrote stickleback conservation plan for the Alaska Department of Fish & Game’s nongame conservation program: ADF&G. 2005. “Our Wealth Maintained: A Strategy for Conserving Alaska’s Diverse Wildlife and Fish Resources. A Comprehensive Wildlife Conservation Strategy Emphasizing Alaska’s Nongame Species.” 841 pp.
Friends of Campbell Creek Science Center - founding board member (2004-2009), Treasurer (2004-2007), Finance Committee (2007-2009).

Legal Consulting

Expert report/witness on conservation implications of releases of contaminants on endangered species of the Santa Clara River, California. Case: Wishtoyo Foundation and its Ventura Coastkeeper program, Los Angeles Waterkeeper/Santa Monica Baykeeper & Friends of the Santa Clara River v. Magic Mountain, LCC, et al. (2014-2015).

Invited Colloquia and Presentations at Conferences

(delivered in English or Spanish)
College of Agriculture & Life Sciences, University of Arizona - 2024
Santa Cruz County Advisory Panel, Patagonia, AZ - 2024
Calabasas Alliance, Tubac, AZ - 2023
Society of Environmental Toxicology and Chemistry, Montevideo, Uruguay - 2023
Introducción en Una Sola Salud, Universidad Autónoma de Tamaulipas - 2023
Green Science Policy Retreat, Santa Cruz, CA - 2023

International Coordination Group, University of Arizona - 2023
University of Arizona Superfund Colloquium - 2023
The Alaska World Affairs Council - 2022
The Right Honourable Sir Winston Spencer Churchill Society of Alaska (*keynote speaker*) - 2022
Center for Latin America Studies, University of Arizona - 2022
iGLOBES - Interdisciplinary and Global Environmental Studies - 2022
College of Public Health, University of Queensland - 2022
Universidad Autónoma de Tamaulipas (*keynote speaker*) - 2022
University of Arizona One Health Research Symposium - 2022
Arizona Area Health Education Centers (AHEC) Scholars Program - 2022
National Academy of Sciences, Washington, D.C.; The role of companion animals as sentinels for predicting environmental exposure effects on aging and cancer susceptibility in humans (*invited speaker*) – 2021 https://youtu.be/r1VrSmYDEio
ABRC Webinar on Health Research Capacity along the Yuma County/SLRC Sonora Border Region - 2020
Mel & Enid Zuckerman College of Public Health, The University of Arizona - 2019
Society of Environmental Toxicology and Chemistry, Toronto - 2019
Society of Environmental Toxicology and Chemistry, Cartagena, Colombia (*invited speaker*) - 2019
Pathogen and Microbiome Institute, Northern Arizona University - 2019
Inaugural Ernest Hodgson Distinguished Lecture, College of Agriculture & Life Sciences and College of Sciences, North Carolina State University - 2019
Simposio Internacional de Aguas Continentales de las Américas, Panajachel, Guatemala (*invited speaker*) – 2018
Northern Arizona University Summer Seminar Series, Flagstaff, AZ - 2018
3rd International Conference on One Medicine One Science, Minneapolis-St. Paul, MN (*invited speaker*) - 2018
Partnerships for Environmental Public Health (PEPH; webinar) – 2018
3rd Annual ABRC Research Conference, Phoenix - 2018
Institute for Tribal Environmental Professionals (webinar) – 2018
Collaborative on Health and the Environment, Alaska (webinar) - 2017
Society of Environmental Toxicology and Chemistry, Santos, Brazil (*invited speaker*) - 2017
NAU Foundation, Flagstaff, AZ – 2017
Rotary Club of Lake Atitlán, Guatemala - 2017
National Institute of Environmental Health Sciences, Research Triangle Park, NC (*Earth Week speaker*) - 2017
School of Sustainable Engineering and the Built Environment, Arizona State University - 2017
Translational Health Research Initiatives, Northern Arizona University - 2017
Jornadas Nacionales de Biología, Guayaquil, Ecuador (*keynote speaker*) - 2016
Department of Biological Sciences, Northern Arizona University – 2016
Gordon Research Conference, Environmental Endocrine Disruptors, Maine (*invited speaker*) – 2016

Gordon Research Seminar, Environmental Endocrine Disruptors, Maine (*invited speaker*) – 2016
Robert Fortuine Memorial Lecture, 15th Annual Arctic Health Sciences Seminar, American Society for Circumpolar Health, Anchorage, AK - 2016
University of Alaska Anchorage – 2016
University of Alaska, Fairbanks – 2016
Department of Biological Sciences, Northern Arizona University – 2016
University of Alabama at Birmingham - 2016
Providence Hospital Pediatric Grand Rounds – 2016
Alaska Collaborative on Health and the Environment – 2015
Department of Biological Sciences, University of Massachusetts, Lowell - 2015
Eighth International Conference on Stickleback Behaviour and Evolution, Stony Brook, NY – 2015
Alaska-Canada One Health Group, Anchorage, AK - 2015
Society of Environmental Toxicology and Chemistry, Barcelona, Spain – 2015
Alaska Department of Environmental Conservation – 2015
Graduate Program in Environmental Sciences, University of Nevada, Reno - 2015
Society of Environmental Toxicology and Chemistry, Vancouver, Canada – 2014
Society of Environmental Toxicology and Chemistry, Adelaide, Australia - 2014
School of Biological Sciences, University of Queensland, Brisbane, Australia – 2014
School of Geography, Planning and Environmental Management, University of Queensland, Brisbane, Australia - 2014
Estación Todos Unidos Por Un Lago Vivo, Santa Catarina, Guatemala - 2014
Public Health Nurses Conference: Change, Diversity, Ingenuity, Passion, Anchorage, AK – (*Principle Speaker*) - 2014
Inter-American Development Bank, Washington, D.C. - 2014
Department of Cell and Molecular Biology, University of Hawaii, Honolulu, HI - 2013
NIH Third Biennial Western Regional IDeA Conference, Honolulu, HI - 2013
U.S. Fish & Wildlife Service, Alaska Maritime National Wildlife Refuge, Homer, AK – 2013
International Conference on Mercury as a Global Pollutant, Edinburgh, Scotland - 2013
University of Alaska Biomedical Research Conference, Anchorage, AK - 2013
Department of Zoology, Tel Aviv University, Israel - 2013
META Center for Systems Biology, University of Oregon, Eugene – 2012
Seventh International Conference on Stickleback Behaviour and Evolution, Bainbridge Island, WA – 2012
U.S. Fish & Wildlife Service, Alaska Maritime National Wildlife Refuge, Homer, AK – 2012
College of Arts & Sciences Relevant Speaker, University of Alaska Anchorage - 2012
Society of Environmental Toxicology and Chemistry, Boston, MA – 2011
International Conference on Mercury as a Global Pollutant, Halifax, Nova Scotia - 2011
School of Fisheries and Ocean Sciences, University of Alaska Juneau - 2011
Science for Alaska lecture series, Juneau - 2011
School of Fisheries and Ocean Sciences, University of Alaska Fairbanks - 2011
Society of Environmental Toxicology and Chemistry, Portland, OR - 2010

NIH IDeA Networks of Biomedical Research Excellence (INBRE) Principal Investigators and Program Coordinators Meeting, Bethesda, MD - 2010
Sixth International Conference on Stickleback Behaviour and Evolution, Leicester, UK - 2009
Society for Conservation Biology, Chattanooga, TN - 2008
Universidad Austral de Chile, Instituto de Geociencias, Valdivia, Chile - 2007
Universidad Austral de Chile, Programa de Honor en Estudios Ambientales y Desarrollo Humano Sostenible, Valdivia, Chile - 2007
Department of Biology & Wildlife, University of Alaska Fairbanks - 2007
Alaska Collaborative on Health and the Environment – 2006
U.S. Fish & Wildlife Service, Alaska Maritime National Wildlife Refuge, Homer, AK – 2006
Fifth International Conference on Stickleback Behaviour and Evolution, Anchorage, AK – 2006
Department of Biology & Wildlife, University of Alaska Fairbanks - 2005
Bioparco di Roma, Centro di Conservazione e di Educazione Ambientale, Conference on Environmentally Compatible Medicine & the Relationship between Animal Conservation, Science & Tradition, Rome, Italy (*Principle Speaker*) - 2004
Bureau of Land Management, Bering Glacier Investigators Meeting, Anchorage, AK - 2004
Department of Biology, University of Oregon, Eugene - 2003
Fourth International Conference on Stickleback Behaviour and Evolution, Sweden (*Principle Speaker*) - 2003
Bureau of Land Management, Bering Glacier Investigators Meeting, Anchorage, AK - 2003
Department of Biology, Clark University, Worcester, MA - 2002
Department of Ecology & Evolution, Stony Brook University, Stony Brook, NY - 2002
Society for Conservation Biology, Hilo, HI - 2001
American Urological Association, Viagra Investigators Meeting, Anaheim, CA (*Principle Speaker*) - 2001
Department of Biology & Wildlife, University of Alaska Fairbanks - 2001
Grinnell College Symposium on International Commerce in Endangered Species (*Principal Speaker*) – 2000
Duke University and the Organization for Tropical Studies – 1999
Animal Behavior Society, Carbondale, IL - 1998
Department of Ecology & Evolutionary Biology, University of Arizona, Tucson - 1998
Lamont-Doherty Earth Observatory, Columbia University, New York - 1996
Department of Biological Sciences, Dartmouth College, Hanover, NH - 1996
Department of Biology, Skidmore College, Saratoga Springs, NY - 1996
Department of Integrative Biology, University of California, Berkeley - 1996
Department of Biology, Williams College, Williamstown, MA – 1996
Animal Behavior Society, Seattle, WA. - 1994
Department of Integrative Biology, University of California, Berkeley – 1994

Media Reports on Research

Subject: *One Health research*

- Arizona Public Media, Arizona Science (May 13, 2022): https://radio.azpm.org/p/radio-azscience/2022/5/13/210204-episoded-323-measuring-pollutants-that-are-contaminating-indigenous-communities/
- Arizona Republic (September 13, 2022): https://www.azcentral.com/story/news/local/arizona-health/2022/09/13/yuma-lab-steps-up-help-fight-prevent-covid-19-outbreaks/8039085001/
- The University of Arizona Health Sciences (July 12, 2023): https://healthsciences.arizona.edu/connect/features/0723/warming-alaska-frontline-climate-change
- Inside Climate News (September 1, 2023): https://insideclimatenews.org/news/01092023/one-health-human-animal-environmental-health/
- Planet Philadelphia (October 20, 2023): https://www.planetphiladelphia.com/

Subject: *Ecotoxicology on St. Lawrence Island*

- The New York Times (front page; August 3, 2015): http://www.nytimes.com/2015/08/04/us/native-alaskans-study-and-clean-up-a-legacy-of-pollution.html?hp&action=click&pgtype=Homepage&module=second-column-region&region=top-news&WT.nav=top-news
- Environmental Factor (May, 2017): https://www.niehs.nih.gov/news/newsletter/2017/5/science-highlights/ecotoxicologist/index.htm
- Environmental Health News (December 4, 2017): http://www.ehn.org/military-site-polluting-yupik-people-2513528278.html
- Partnerships for Environmental Public Health Newsletter (February 2018): www.niehs.nih.gov/PEPH
- National Institute of Environmental Health Sciences Newsletter (January 2020): https://www.niehs.nih.gov/research/supported/translational/community/acat/index.cfm
- Alaska Public Media (June 25, 2022): https://www.alaskapublic.org/2022/06/24/pollutants-from-far-distances-found-in-bering-sea-animals-hunted-by-indigenous-people/
- Environmental Factor, Papers of the month (August, 2022): https://factor.niehs.nih.gov/2022/8/papers/dert/index.htm?utm_source=efactor-newsletter&utm_medium=email&utm_campaign=efactor-newsletter-2022-August#a4

Subject: *Perchlorate impacts on reproductive development*

- Science News (August 11, 2006) https://www.sciencenews.org/article/macho-moms-perchlorate-pollutant-masculinizes-fish
- Anchorage Daily News (October 16, 2006) http://lists.dep.state.fl.us/pipermail/pharmwaste/2006-October/000668.html
- Environmental Health Perspectives (November, 2006)
- Environmental Health News (November, 2006)
- Anchorage Daily News (March 30, 2010) https://www.adn.com/our-alaska/article/alaskan-pioneer-contaminant-research/2010/03/30/
- Associated Press/Fairbanks Daily News-Miner (March 31, 2010) http://www.newsminer.com/news/alaska_news/alaska-researcher-leading-probe-of-contaminant/article_d87dc024-a016-5afc-be93-27c9dd5f7281.html
- Juneau Empire (March 31, 2010)
- Alaska Public Radio (April 14, 2010)

Subject: *Perchlorate in Arizona*

- National Public Radio, Arizona (May 18, 2017): http://kawc.org/post/water-contamination-could-be-causing-thyroid-disease-southwest-az
  https://www.azpm.org/s/48000-study-to-measure-impact-of-contaminant-perchlorate-on-yuma-residents/
- AZCentral/USA Today (Oct 5, 2021): https://www.azcentral.com/in-depth/news/local/arizona-investigations/2021/10/05/perchlorate-nammo-talley-mesa-monkey-water-supply/8372163002/

Subject: *Contaminated sites*

- Reuters Investigates (July 20, 2022) https://www.reuters.com/investigates/special-report/usa-pollution-conservation-easements
- 2News (October 7, 2022) https://www.2news.com/news/unr-researcher-leads-team-to-track-chemicals-through-food-web-mitigate-impacts-in-alaska/article_e6d1e748-4673-11ed-b983-fb5b26975ff3.html
- KUCB-Radio (June 20, 2023): https://www.kucb.org/science-environment/2023-06-20/qawalangin-tribe-teams-up-with-scientists-researching-contamination-in-subsistence-foods

Subject: *Stickleback evolution*

- Fish of the Week! (May 10, 2021) https://www.fws.gov/alaska/pages/fish-of-the-week

Subject: *International trade in threatened and endangered species* (selected from hundreds of stories)

- Washington Post (December 26, 1998)
- Forbes Magazine (March 22, 1999)
- Outside Magazine (June 28, 1999)
- The Christian Science Monitor (May 29, 2001) https://www.csmonitor.com/2001/0529/p7s2.html
- British Broadcasting Corporation (The World Today, worldwide broadcast) (October 17, 2002)
- Canadian Discovery Channel (October 21, 2002)
- Canadian Broadcasting Corporation, Early Edition (October 29, 2002)
- CNN (November 7, 2002)
- The Week (November 15, 2002)
- The Economist (November 16, 2002) https://www.economist.com/science-and-technology/2002/11/14/the-kindest-cut-of-all
- National Public Radio, Morning Edition (November 19, 2002)
- The New York Times Magazine ("Ideas of the Year", December 15, 2002) https://www.nytimes.com/2002/12/15/magazine/the-year-in-ideas-viagra-saves-wildlife.html
- The Philadelphia Inquirer (December 15, 2002)
- Australian Geographic (December 16, 2002)
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