



## **Dr. Renee Joy Dufault**

### **Toxicologist, Public Health Researcher and Health and Nutrition Educator, Program Administrator**

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#### **Overview**

Dr. Dufault is a retired Public Health Service (PHS) professional specializing in the design and implementation of online nutrition education tools for use as health education interventions. The intervention tools have been used successfully in three separate clinical trials thus far to improve participants' diet and health outcomes. The online tools could also be used by researchers to study gene-environment interactions with a focus on nutritional epigenetics in specific populations. With a background in toxicology and industrial hygiene, Dr. Dufault has developed expertise in some of the gene-environment interactions associated with poor birth outcomes and type-2 diabetes. She is considered a subject matter expert in both heavy metal and organophosphate pesticide toxicology issues related to western diet and the development of western diseases. With several highly cited publications, she is well known worldwide for her academic work and often asked to speak at conferences. For example, in 2013, she was a keynote speaker at the Clinical Epigenetics Society conference in Solingen, Germany. In addition, she has written a popular book titled, *Unsafe At Any Meal: What the FDA Does Not Want You to Know About the Foods You Eat*, to disseminate her research team's findings to the general public. During summer 2018, Dr. Dufault's book was recommended by editors of the [\*Environmental Health News\*](#) magazine as being a best summer read.

Dr. Dufault began her public health career after graduating from the University of California at Davis and accepting a commission with the Navy where she was assigned to the Camp LeJeune Naval Hospital. As a Navy Industrial Hygiene Officer, Dr. Dufault performed a variety of tasks to ensure safe working conditions for both Marine Corps and Navy personnel who could be exposed to a variety of toxic agents. After two years in the Navy, she transferred to the Public Health Service and assumed a position as an Industrial Hygienist at the National Institute of Health (NIH) Environmental Protection Branch.

At NIH, Dr. Dufault helped characterize the NIH medical pathological waste streams to determine alternative waste disposal options. She also audited off campus NIH laboratory hazardous waste disposal practices to determine compliance with environmental regulations. After two years, she was detailed to the US Environmental Protection Agency (EPA) where she helped develop the agency's Environmental Due Diligence (Investigation) Process and managed decommissioning activities for contaminated EPA research laboratories' undergoing closure and property transfer. EPA then detailed Dr. Dufault to an Indian reservation where she worked with the Tribe and stakeholders to close and reclaim 14 open pit dumps, remove underground storage tanks, build a transfer station and recycling center, and essentially build a National model for solid waste disposal in Indian country. In her last assignment with the Public Health Service, she was transferred to the US Food and Drug Administration (FDA) where she spent the last nine years of her PHS career

At the FDA, Dr. Dufault conducted Phase I due diligence audits for all of the FDA's laboratories undergoing closure and managed most of the Phase II and III laboratory decommissioning projects. It was during this time that she identified the problem of mercury contamination in laboratory plumbing systems and worked with others to develop a decontamination method to remove mercury from drains, pipes and other plumbing fixtures. After completing the laboratory decommissioning work, Dr. Dufault worked on a variety of public health initiatives and research projects to include: Mercury Contamination in High Fructose Corn Syrup (HFCS), Inhibition of Reactive Oxygen Species in Alzheimer and Normal Human Olfactory Bulb Tissue, Effects of an Environmental Services Professional Training Course on the Nosocomial Rates of Infection at Suburban Hospital and the Indian Country Environmental Hazard Assessment Training Project (ICEHAP). As the ICEHAP Director, Dr. Dufault provided online and face-to-face community environmental hazard assessment training at a number of tribal communities located in both Alaska and the lower 48 states. Dr. Dufault honorably retired early from the PHS to publish her findings of mercury in high fructose corn syrup, conduct research, and teach.

Since 2008, Dr. Dufault has led investigative teams to conduct research and publish findings in several peer reviewed medical journals. Two articles in particular explain in detail how consumption of high fructose corn syrup weakens the immune system creating metabolic conditions for the development of pervasive developmental disorders such as autism and ADHD from exposures to mercury, lead, and organophosphate pesticides (Dufault et al., 2009, 2012). On the topic of type-2 diabetes, Dufault's research team published one article that describes the results of a web-based nutrition intervention study conducted on a population in Indian Country that led to significant reductions in risk factors associated with insulin resistance, including inorganic blood mercury and fasting glucose levels (2015). Analysis of the CDC's NHANES data confirmed these associations (Dufault et al., 2015). One new article is currently in peer review. It discusses the findings of a clinical trial that used an online nutrition education tool to help parents with learning-disabled children switch to a healthier diet. In 2017, Dr. Dufault published an article in *Scientific American* with another researcher that explains why autism impacts more boys than girls. She is the founder of the non-profit Food Ingredient and Health Research Institute (FIHRI) where she volunteers her services as a health educator and independent researcher.

## **Founding Executive Director Food Ingredient and Health Research Institute (FIHRI) 2010 - Present**

Serves as Founding Executive Director, writes grant proposals to fund research activities, develops curriculum for online intervention courses tailored to meet the needs of specific populations, delivers instruction for online courses, develops power point presentations and delivers them upon invitation at conferences or via webinar (e.g. 2013 Clinical Epigenetics Conference, 2013 Tar Creek Superfund Conference, 2013 EPA Tribal Eco-Ambassador Conference, 2013 Learning Disabilities Association of America Conference, 2013 NIH Health Disparities Conference, 2012 Webinar "Autism Revolution: Food and Environment" featuring Dr. Martha Herbert, MD (Harvard University) and Renee Dufault (FIHRI) <http://www.youtube.com/watch?v=mgAsDXgo5ao> , 2011 Woman is First Environment Conference, 2011 EPA Tribal College Conference, American Association for Intellectual and Developmental Disabilities. Mercury Exposure, Nutritional Deficiencies and Metabolic Disruptions may Affect Learning in Children, February 9, 2010), Smithsonian Institute: Patterns of Health & Wellbeing- Keynote Speaker <https://youtu.be/IwapwKitM0k>

Collaborator and Principal Investigator on research projects designed to infuse web-based nutrition education with survey data collection using internet technology and onsite biomarker collection and analyses to measure changes in health status. Topics of major interest include diabetes, ADHD, autism, and heart disease.

One of the founders of macroepigenetics (Dufault et al., 2012) - the study of how environmental and dietary factors interact to regulate genes that protect health or make us more susceptible to disease. "A macroepigenetic approach to identify factors responsible for the autism epidemic in the United States" published April 2012 by Clinical Epigenetics journal

Developed six week diet tutorial for parents of learning-disabled children for use during clinical trial to determine if online instruction could help change family diet. Publication with results in peer review. Original tutorial is available at <http://0307a07.netsolhost.com/introduction.html>

Online developer and facilitator of free Healthy Diet Tutorial that provides eight modules of instruction to accompany textbook titled, "*Unsafe at Any Meal: What the FDA Does Not Want You to Know About the Foods You Eat.*" The content of the tutorial has been used successfully in three clinical trials to help participants switch to a healthy diet leading to various improvements in health status such as weight loss, reductions in BMI, lower inorganic blood mercury levels, and significantly lower fasting glucose levels.  
<http://www.foodingredient.info/healthydiettutorial/syllabus.html>

## **Teaching 2006-Present**

### **Licensed SPED Teacher**

#### **Ka'u High School, January 2017 – present**

On a fulltime basis, Dr. Dufault provides curriculum development and instruction for the students receiving special education services in the Ka'u High School social studies program. Last year Dr. Dufault provided instructional services for the middle school Alternative Learning Center (ALC). The ALC was the only classroom in the region for *at risk* teens from troubled homes. Dr. Dufault provides a structured, stable and nurturing learning environment for students who struggle with a variety of learning disabilities that impede their learning process in the mainstream classroom environment. She develops all curriculum from scratch so that it is relevant to the students who are primarily of Native Hawaiian descent. Students are assessed daily on behaviors and academic progress and parents are informed of their progress on a regular basis.

### **Licensed Biology Teacher**

#### **American International School of Jeddah, SA, 2015- 2017**

On a fulltime basis, provided instruction for high school Anatomy & Physiology, Biology, Honors Biology and AP Biology. Also served as Head of Science Department and National Honors Society (NHS) Sponsor. Managed high school laboratory and science staff. Developed and maintained all curriculum online for all courses taught. Assessed and tracked individual academic progress for approximately 110 students in grades 9-12.

### **Adjunct Instructor**

#### **United Tribes Technical College (UTTC), 2006 - 2015**

Dr. Dufault collaborated with UTTC to successfully convert Indian Country Environmental Hazard Assessment Program (ICEHAP) workshop materials/curriculum to on-line format. She provided online instruction for this course which was funded by EPA for nearly 10 years. To date, participants from over 90 Indian communities learned how to conduct community environmental hazard assessment surveys to identify their most pressing environmental exposure issues of concern. In the online training, participants learned how to develop work plans to address their issues of concern.

### **Substitute Teacher**

#### **Naalehu Elementary School and Kau High School, 2011–2015, 2017-present**

On a part-time, on call, basis, provided and continues to provide substitute teaching services for grades K-6 and 9-12 as needed.

## **Instructor and EPA Eco-Ambassador**

### **Fort Peck Tribal Community College (FPCC) Adjunct, 2011- 2013**

With funding from EPA, Dr. Dufault developed curriculum for the online macroepigenetics nutrition intervention course for use in preventing type-2 diabetes in Native American community members. Curriculum located at [www.foodingredient.info](http://www.foodingredient.info) Students in the pilot study received 3 units nutrition science credit from FPCC and made significant improvements in their diet that resulted in lower BMI, weight loss and lower mercury and fasting glucose levels. Students learned how what we eat determines how our genes behave.

## **Licensed Special Education Teacher**

### **Naalehu Elementary School, 2008 - 2010**

On a fulltime basis, provided case management and instruction for children with a variety of learning disabilities to include, among other conditions, autism, oppositional defiance disorder, and dyslexia. Reading instruction delivered via multisensory approach (e.g. OG). Worked with each child's support team to develop IEP goals and objectives. Also conducted reading and math assessment tests.

## **Independent Researcher and Principal Investigator**

### **2008-2009**

As a volunteer, collaborated with researchers outside of government to finish the investigation of mercury in high fructose corn syrup (HFCS) and products containing HFCS. Published the results in two separate medical journals after intensive peer review process. First paper "Mercury from chlor-alkali plants: measured concentrations in food product sugar" published in Environmental Health January 2009. Second paper on how mercury exposure, nutritional deficiencies and metabolic disruptions may affect learning in sensitive populations entitled, "Mercury exposure, nutritional deficiencies and metabolic disruptions may affect learning in children" submitted to Behavioral and Brain Functions Journal and published in October 2009.

## **Food and Drug Administration 1999-2008**

### **Program Director**

### **Indian Country Environmental Hazard Assessment Project (ICEHAP)**

As a Public Health Service (PHS) officer, CDR Dufault served as the Director of ICEHAP, an interagency education project, funded by the Bureau of Indian Affairs (BIA) and the Environmental Protection Agency (EPA). She authored grant proposals to secure funding to pay for training materials and travel costs for the volunteer instructors. CDR Dufault also served as lead teacher responsible for coordinating all activities associated with the project – curriculum materials, travel reimbursement, coordinating dates and locations for workshops. She authored memorandums of agreements between BIA, EPA and three different colleges including Harvard University. Training and education was delivered at the following locations: Woody Island, AK, Crow Reservation, MT, Winnebago Reservation, NE, Taos Pueblo, NM, Makah Reservation, WA, Spirit Lake Sioux Reservation, ND. During each workshop, participants conducted an environmental hazard assessment survey of their communities to identify environmental health and safety issues of concern and then they used an environmental problem-solving tool to develop work plans for addressing the most important issues (lead based paint and elevated blood lead levels in children, abandoned formerly used defense sites (FUDS), elevated radon levels in pueblo homes, mold in homes, water supply shortages, mercury in fish, contaminated properties, unhealthy workplace conditions). In related work, CDR Dufault also served as FDA's delegate on the President's Native American Task Force on Environmental Justice.

### **Project Officer**

### **Laboratory Decommissioning**

As the agency's technical expert on environmental remediation, for 8 and a 1/2 years – CDR Dufault conducted the Phase I Environmental Site Assessments (Due Diligence Audits) for all FDA research laboratories undergoing renovation, closure, and/or property transfer. Provided technical assistance and/or managed the Phase II sampling and Phase III remediation efforts as required to address contamination issues of concern (leaking acid dilution tank, mercury in plumbing, perchlorate contamination in hoods, mercury in kennel sewer system from dogs being dosed with mercury, lead paint, asbestos, extensive radioactive contamination in plumbing system due to improper disposal of radioactive waste material). Responsible for reviewing Work Plans, Site Safety and Health Plans, Sampling and Analysis Plans, Quality Control Plans, and Waste Plans for all contractor activities. Provided contractor oversight for supervised investigative and decommissioning efforts that included biological contaminants (mold and bacteria), dioxins and furans, mercury, PCBs, lead, asbestos, and hazardous waste removal from laboratory interiors and waste containment areas. Reviewed and approved all Decommissioning Reports detailing sequential decontamination efforts prior to release of the properties to prior owners or GSA. CDR Dufault helped develop a protocol to remove mercury contamination from plumbing systems and then upon request, served as chairwoman for a laboratory decommissioning subcommittee. In this capacity Dufault co-authored a paper to present at a Leadership Conference sponsored by NIH, EPA, NIEHS, and the National Association of Physicians for the Environment.

### **Lead Investigator District of Columbia (DC) and DC Hospital Association (DCHA) Collaborative Project,**

As lead investigator, CDR Dufault developed a survey tool for use at the District hospitals to track the regulated and infectious waste streams from point of generation to point of disposal. She collaborated with one other person to conduct a survey of regulated and infectious waste management practices at 22% of the District's hospitals. Dufault authored and delivered a report of findings and recommendations to include the need for a comprehensive, structured occupational safety and health training course for environmental services personnel (hospital housekeeping staff). In collaboration with members of DCHA, She developed 8 hours of award winning curriculum for use in training hospital environmental services professionals (ESP) and then provided instruction at Providence Hospital for a train-the-trainer course for ESP management personnel at DCHA hospitals.

Members of the World Bank requested a copy of the ESP curriculum and assistance in translating the content to meet the needs of Spanish speaking workers. Dufault also provided technical assistance to World Bank personnel in revising the Bank's Healthcare Facilities guideline.

In related work, CDR Dufault also served as principal investigator for a study conducted on the effects of an environmental services professional (ESP) training course, a hand washing encouragement program, and the introduction of a new disinfectant on antibiotic use rates at Suburban Hospital, Bethesda, MD. After this intervention, there was an overall reduction of 10.1% in the use of antibiotics over a 12-month period, which may indicate there were 1,379 fewer hospital acquired infections. These results were presented at the 2009 Maryland Patient Safety Conference and the Canadian Infectious Control Conference.

On behalf of FDA, CDR Dufault responded to the Joint Commission Accredited Hospital Organization's request for comments on the new Infection Control standards.

### **Principal Investigator Mercury Related Research Projects**

As lead investigator, CDR Dufault conducted an investigation on the mercury cycle and current U. S. Mercury Policy. She presented her findings to the public at a watershed protection conference sponsored by EPA and River Network. She also presented the findings to the FDA, the EPA, the pharmaceutical industry trade group Pharmacopeia, the chlorine industry trade group Chlorine Institute, and at the 2004 USGS Mercury conference.

As Principal Investigator, CDR Dufault worked with collaborators at the Armed Forces Radiobiology Research Institute (AFRRI) to determine the mercury content in non-fish foods containing high fructose corn syrup (HFCS). An ICP-MS at the Uniformed Services University of the Health Sciences (USUHS) in Bethesda was used to conduct the analyses. CDR Dufault obtained HFCS samples from various manufacturers with assistance from an FDA investigator at the Denver field office. The samples were sent to different laboratories for analyses (NIST, Univ. of CA-Davis, Univ. of Wisconsin - Platteville, Argonne National Lab). Dufault presented the preliminary findings with collaborators at the University of CA - Davis to the FDA Center for Food Safety and Applied Nutrition. At this time, FDA management demanded that the investigation of mercury in HFCS and products containing HFCS be halted.

On a study of the harmful effects of mercury exposure, CDR Dufault worked with collaborators at various academic institutions throughout the country on a research project to determine the root cause of Alzheimer's disease, assuming that mercury exposure occurs worldwide via inhalation and ingestion and that mercury bioaccumulates in fatty brain tissue over time. The team was located at the Uniformed Services University of the Health Sciences. As the principal investigator, Dufault was responsible for obtaining funding and resources for the USUHS part of the overall project which was to look at the activity of Reactive Oxygen Species (ROS) in human olfactory brain tissue when there are deficiencies in selenium and vitamin E. Dufault's team looked at ROS activity in human olfactory bulb specimens using *electron paramagnetic resonance* (EPR) technology. They presented their findings at the International EPR conference.

## **Environmental Protection Agency 1995-1999**

### **Project Officer Laboratory Decommissioning**

As project manager, Dufault facilitated and coordinated the Environmental Due Diligence Process for all EPA research laboratories undergoing closure and property transfer. She conducted due diligence audits for each lab (Phase I ESA) and then managed the Phase II sampling and Phase III remediation efforts. Examples of issues of concern in need of remediation included improper disposal of acids and solvents in pit -> groundwater contamination, mercury in plumbing systems, disposal of dioxin contaminated incinerator equipment, improper disposal of laboratory chemicals into septic tank via wastewater discharge lines, elevated levels of silver in pond sediment from wastewater discharge to pond.

Coordinated and facilitated the development of "Guidelines for Transferring EPA Real Property and Complying with the Community Environmental Response Facilitation Act (CERFA). This guidance document became the basis for the development of decommissioning guidelines for all federal property disposal actions.

As a Work Assignment Manager for a \$500,000 Department of Energy Laboratory Decommissioning Study, Dufault reviewed and commented on all reports and provided instructions for additional work/tasks to be done to complete the project. On a related project, she provided technical expertise for the development of the EPA Policy on Enforcement of RCRA Section 3004(j) Storage Prohibition at Facilities Generating Mixed Radioactive/Hazardous Wastes, which was published in the Federal Register.

## **Industrial Hygiene/Training Officer EPA Environmental Compliance Project**

Dufault conducted Environmental Health & Safety (EHS) audit of EPA headquarters building on M Street in Washington DC and initiated follow up corrective action to achieve compliance with District of Columbia's wastewater treatment standards (hazardous waste being improperly disposed of down the drain) and hazardous waste (RCRA) reporting requirements. Dufault also conducted EHS audit of EPA Region 5 Eastern District Office and Laboratory. Delivered DOT/RCRA manifest training to On-Scene Coordinators (OSCs) working at superfund sites located within EPA Region 1. Developed and delivered 24 hours of hazardous waste operations training to

## **Director of Tribal Environmental Protection Program Detailed to Duck Valley Indian Reservation & the Shoshone-Paiute Tribes**

EPA detailed Dufault to the Duck Valley Indian Reservation at the request of the Tribes to serve as Director of the Tribes' Environmental Protection Program with total budget responsibility of \$275,000/year. In this capacity, she authored grant proposals and work plans to secure funding for program development and environmental problem resolution, conducted a household solid waste characterization study and used the results to develop an Integrated Municipal Solid Waste Plan. She also worked with contractors to develop dump closure plans, wrote a Municipal Solid Waste Ordinance (passed by Tribal Council) and closed 14 open pit dumps. Dufault authored a Franchise Fee (tax) Ordinance to generate funding for the Operation and Maintenance (O & M) of Tribes' Solid Waste Transfer Station (passed by Tribal Council). Prepared O & M budget for Solid Waste Transfer Station and worked with the Indian Health Service to build transfer station and recycling center. She worked with stakeholders such as the Indian Health Service and Bureau of Indian Affairs to implement dump closure plans and reclaim open pit dump sites. Worked with Tribal fisheries manager to collect water and soil samples along the Owyhee River for analyses to determine baseline water quality parameters. Dufault also worked with a contractor to develop Tribes' water quality standards. She surveyed the community to identify all of the above and underground storage tanks and then wrote Underground and Aboveground Storage Tank Ordinances (passed by Tribal Council). Dufault conducted a Historical Review for each abandoned (contaminated) property to determine the identity of the responsible party (mercury, asbestos, and UST at old hospital bldg.). She initiated lead testing of children in head-start program. Conducted radon survey of tribally owned and operated buildings and provided oversight for mitigation effort required in the two buildings found to have elevated levels.

Dufault conducted an EHS audit of the Bureau of Indian Affairs road shop and found that employees were being exposed to friable asbestos so she shut it down. BIA employees were also engaging in improper waste disposal 7 practices – they had historically dumped their used motor oil into a dry well. Dufault conducted EHS audit of all Tribal operations (hospital, head-start program, senior center, tribal headquarters building, fisheries, natural resources, land management, tribal court). Provided follow up on all recommendations – found improper disposal of pesticide containers, improper disposal of used motor oil, stockpiled hazardous waste, lack of training on the proper use of hazardous materials.

The town's drinking water supply was contaminated by a leaking fuel oil line so Dufault provided contractor oversight for the development and implementation of a work plan to identify the parameters of the plume of hydrocarbon contamination in the soil and groundwater beneath a leaking fuel oil line in the town of Owyhee. This was the source of contamination in the town's drinking water well. She also provided oversight for removal of Underground Storage Tanks and cleanup of contaminated soil (hydrocarbon). Dufault worked with Region 9 EPA On-Scene Coordinator to facilitate the removal and proper disposal of stockpiled hazardous wastes (leaking transformers, 55-gallon drums of used oil). Provided oversight for open pit dump remediation and reclamation activities (Bureau of Indian Affairs provided backhoe support, Indian Health

Service provided engineering support). Dufault also provided technical assistance to the Tribe on the Rio Tinto Copper Mine remediation project. She also provided oversight for cleanup of bat guano at tribal court building.

## **National Institutes of Health (NIH) 1993-1995**

### **Industrial Hygienist**

#### **NIH Medical Pathological Waste Characterization Study**

Developed and tested standard operating procedures for autoclave operations, autoclaved red bags diverted from the MPW waste stream for study and removed and segregated waste by material type, obtained weights for all materials, and recorded data for analyses.

### **Industrial Hygienist**

#### **Hazardous Waste Operations (RCRA Compliance)**

Conducted annual review of recycling facilities and outlets used by NIH waste disposal contractors and discovered that only nine out of thirty six of the facilities were in compliance with NIH contract standards.

Authored several treatment unit and process descriptions for the NIH Hazardous and Radioactive Waste Management Facility Part B permit application to include bulking and blending fume hoods, drum solidification hood, chemical carcinogen glove box, and controlled atmosphere glove box.

Conducted RCRA hazardous waste mgt. audits at 16 off-campus NIH Laboratory installations to identify current waste management practices to include waste profiling and characterization, container and drum labeling and storage, record keeping systems (manifests, hazardous waste generator annual reports, documentation of training, contingency plans) and compliance status with Federal and State hazardous waste laws (RCRA and COMAR). Developed written guidance document on proper procedures for hazardous waste identification, storage, labeling, and transportation (for use by off-campus NIH research laboratories).

Developed curriculum for a hazardous materials transportation course, delivered training to NIH Environmental Protection Branch personnel on hazardous waste material shipping requirements, and training to NIH Shipping and Receiving Branch personnel on hazardous material shipping requirements. Dufault also developed a RCRA training manual and assessment tool covering the areas of RCRA, hazardous waste characterization, generator regulations, and enforcement. She delivered training on RCRA and hazardous waste transportation requirements to RCRA waste managers at 16 off-campus NIH research laboratory facilities. Developed and delivered annual 8-hr. hazardous waste operations refresher training to all NIH government personnel working with hazardous waste.

## **United States Navy, Camp LeJeune 1991-1993**

### **Industrial Hygiene Officer**

#### **OSHA Compliance, Training and Education**

Conducted base-line Industrial Hygiene (IH) audits of 21 Marine Corps Commands to determine potential workplace environmental exposure hazards (noise and lead at the firing range, asbestos in an old Quonset hut converted to office space, hazardous materials such as solvents used for cleaning parts at the motor pool, paint from spray painting tanks, noise in the mess halls). Dufault also conducted the IH audit of the naval hospital to identify any potential workplace health hazards (bioaerosols from laser plume in the OR, biological and chemical agents in the lab, radioactive materials in Radiation Therapy, non-ionizing radiation from lasers in OR and Eye clinic, blood-borne pathogen exposure via blood and body fluids).

Dufault developed curriculum for the hazard communication program and delivered HAZCOM training to 21 Marine Corps Commands. Developed a hearing conservation program at each Battalion Aid Station and

helped the instructors at the Marine Corps Food Service School incorporate the principles of hearing conservation into their curriculum for Food Service Specialists (cooks). She also provided leadership for the development of hospital's spill response team. She developed the HAZMAT spill response curriculum and delivered training to the Naval Hospital's spill response team. Developed laser safety curriculum and delivered training to the physicians in the hospital's laser surveillance program.

## Speaker

### Conference Presentations and Posters

1. Neurological Disorders Summit 2017, San Francisco, CA, July 7, 2017, *Nutrition from an Epigenetic Perspective to Optimize Birth and Child Health Outcomes.*
2. Green Festival, New York, NY, June 10, 2017, *Unsafe at Any Meal: What the FDA Does Not Want You to Know About the Foods You Eat.*
3. Smithsonian Institute, Patterns of Health & Wellbeing Symposium 2014, Keynote - *Food and Medicine*  
<https://youtu.be/IwapwKitM0k>
4. 15th National Tar Creek Conference, Miami, OK, September 17-19, 2013. Keynote - *Gene-Environment Interactions -> Autism & Type-2 Diabetes*
5. Smithsonian Museum of the American Indian, Living Earth Symposium, July 20, 2013. *EPA Tribal Eco-Ambassador Presentations.* <http://www.youtube.com/watch?v=A9CLOpzKxio&feature=c4-overview-vl&list=PLS6nSmuURFJClb0zN8bMryv5D7GozwX>
6. Clinical Epigenetics Society Meeting, Solingen, Germany, March 14-15, 2013. Keynote - *Macroepigenetic Model for Autism.* <http://www.clinical-epigenetics-society.org/meeting-2013/program>
7. National Learning Disabilities Association of America Conference, San Antonio, TX, February 13, 2013 - Lecture - *Brain Food: How Nutrition, Chemical Exposures and Genetics Interact , and Steps Educators Can Take to Protect and Nurture Children's Development.*
8. EPA Tribal Eco-Ambassador Conference, Washington DC - Nov. 2012
9. Institute for Agriculture and Trade Policy, June 11, 2012. *The Autism Revolution: Thinking About Environment and Food.* Dr. Martha Herbert, MD and Professor Renee Dufault  
<http://www.youtube.com/watch?v=mgAsDXgo5ao>
10. EPA Tribal Eco-Ambassador Conference, Reno, NV - June 2012. *Fort Peck Community College Nutrition Intervention Course/ Study.*
11. Building TCU, EPA & Tribal Partnerships, *Indian Country Environmental Hazard Assessment Training Project (ICEHAP) since 1999.....* June 28-30, 2011, Albuquerque, NM
12. Government Accountability Project, June 23, 2011, *Macroepigenetics: How Food and Environmental Factors Interact → Disease*
13. Woman is First Environment Collaborative, June 14-17, 2011, Hot Springs, SD *Macroepigenetics: How Food and Environmental Factors Interact → Disease*
14. S. Gilbert & R. Dufault. Society of Toxicology Conference, March 6-10, 2011, Washington DC - Poster Presentation - *Implications of Exposure to Organophosphate Pesticide Residue from Grain Consumption*  
[http://www.foodingredient.info/images/SOT\\_Poster\\_for\\_2011\\_Conference.pdf](http://www.foodingredient.info/images/SOT_Poster_for_2011_Conference.pdf)

15. American Association for Intellectual and Developmental Disabilities. *Mercury Exposure, Nutritional Deficiencies and Metabolic Disruptions may Affect Learning in Children*, February 9, 2010
16. Maryland Patient Safety Conference, *Reducing Infection Rates through Training: Public Health Accountability and a New Environment of Care Standard*, March 20, 2008, Baltimore, MD
17. Community and Hospital Infection Control Association of Canada Conference, *Effects of an Environmental Services Professional Training Course and Cleaning Products on the Rates of Infection Seen at Suburban Hospital Poster*, June 9-14, 2007, Edmonton, Alberta, Canada
18. The International Conference/Workshop on Electron Paramagnetic Resonance Spectroscopy, *Inhibition of ROS in Alzheimer and Normal Olfactory Bulb Tissues Poster*, September 4-8, 2005, Columbus, Ohio
19. 7<sup>th</sup> National Tribal Conference on Environmental Management, *ICEHAP Environmental Problem Solving Model*, June 7-10, 2005, Traverse City, Michigan
20. 2004 USGS Mercury Workshop, *Mercury Cycle Poster*, August 17-18, 2004, Reston, VA
21. 6<sup>th</sup> Native American Lifesavers Conference, *Indian Country Environmental Hazard Assessment Training Project*, July 13-14, 2004, Bismarck, ND
22. River Rally Watershed Protection Institute, *Mercury Cycle Presentation*, May 21-25, 2004, Wintergreen Resort, VA
23. 2003 Department of the Interior Conference on the Environment, *Indian Country Environmental Hazard Assessment and Management Systems Training Project (ICEHAP): A National Environmental Justice Project*, May 13-15, 2003, Phoenix, AZ
24. 2001 Department of the Interior Conference on the Environment, *Environmental Problem Solving: A Public Health Perspective*, March 13-15, 2001, Albuquerque, NM .
  
25. Hospitals for a Healthy Environment: *Setting New Standards for Health Care Excellence, Infectious Waste Management*, March 8, 2001
26. Labs 21 Conference, *Reducing Environmental Risk Associated with Laboratory Decommissioning*, January 8-10, 2001, Washington, DC
27. Frontline Healthcare Workers Safety Conference, *District of Columbia Hospital Regulated Medical Waste Survey*, August 6-8, 2000, Washington, DC
28. National Pollution Prevention Roundtable, *Pollution Prevention Recommendations for Healthcare: District of Columbia Hospital Survey Findings*, February 2000, Richmond, VA
29. Biomedical Research and the Environment, *Laboratory Decommissioning Process*, November 1-2, 1999, Bethesda, MD
30. The Role of Human Exposure Assessment in the Prevention of Environmental Disease, *Indian Country Environmental Hazard Assessment Project (ICEHAP)*, September 22-24, 1999, Rockville, MD
31. 1999 Department of the Interior Conference on the Environment, *Open Pit Dump Closure and Municipal Solid Waste Program Development in Indian Country*, April 6-8, 1999, Denver, CO
32. Harvard School of Public Health, *Dump Closure and Municipal Solid Waste Program Development in Indian Country: A Case Study of the Shoshone-Paiute Tribes*, March 22, 1999, Boston, MA
33. Fifth Annual Tribal/EPA Conference, *Solid Waste Characterization Study at Duck Valley Indian Reservation*, November 4-6, 1997, San Francisco, CA

## Selected Media Interviews, Articles, Book Reviews

- 1 Roizen, Michael (2018, August 14). Are there dangerous toxins in your food? *Radio MD/Cleveland Clinic* <http://radiomd.com/show/you-the-owners-manual-radio-show/item/37957-ep-903b-are-there-dangerous-toxins-in-your-food>
2. Marusic, K. (2018, July 4). The best environmental summer reading list of 2018. *Environmental Health News*. <https://www.ehn.org/best-books-to-read-for2018-2583508061.html?rebellitem=3#rebellitem3>
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## **Education**

Bachelor of Science (BS) Environmental Policy Analysis & Planning with Environmental Science /Toxicology Emphasis, University of CA at Davis - 1990

Masters in Teaching Biology (MAT), University of Maryland -2007

Doctorate Health Education – Nutrition Focus (DHED), A.T. Still University -2016

## **Military/Government/Non-profit Public Service**

US Army: 4 Years (Medical Laboratory Specialist – Biomarker Analyses)

US Navy: 2 Years (O-2, transferred to Public Health Service)

US Public Health Service: 14 Years (retired O-5, Commander)

Non-Profit Public Service Organization: 10 Years

## **Publications Listing Dufault as Lead Author or Co-author**

1. Dufault, R. (2018). **Food labeling requirements may explain lower autism and ADHD prevalence in the United Kingdom.** *Integrative Food, Nutrition and Metabolism*. <https://www.oatext.com/pdf/IFNM-5-224.pdf>
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11. Environmental News Column writer for the Sho-Pai Newspaper. Articles covered a wide range of topics to include solid waste management, recycling, composting, radon, water contamination, and so on. 1997-1998.
12. Smith et al. (2007). **Effects of an Environmental Services Professional Training Course and a Hand Washing Encouragement Program on Antibiotic Use Rates at Suburban Hospital.** *CJIC*, Volume 22, Number 1 Spring 2007, Page 50. [http://info.virox.com/hubfs/Effects\\_of\\_an\\_environmental\\_services\\_professional\\_training\\_course\\_and\\_cleaning\\_products....pdf](http://info.virox.com/hubfs/Effects_of_an_environmental_services_professional_training_course_and_cleaning_products....pdf)
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14. Biological Risk Engineering Handbook, ISBN: 1-5667-0606-8 CRC Press, November 2002 Lead author on two chapters: Medical Setting Infection Control, Infection Control

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