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As an accomplished leader with a clear strategic vision and outstanding achievements in research, teaching, engagement/extension, and service, I provide scientific and operational leadership with supervisory capacity for all academic program activities, including curriculum development and administration, budget oversight for a department, college, or school within a university setting. I provide the next generation of natural environmental science and sustainability professionals, resource managers, veterinarians, health practitioners, and policy leaders with unique scholarship, internship, and job opportunities that are transformational and transdisciplinary in nature within the context of globalization and international markets.

Work Experience

Dean

Warner College of Natural Resources, Colorado State University, Fort Collins, CO
August 2022 - Present

- Warner College of Natural Resources (Warner College) is a global leader in natural resource education, research, and outreach, enabling solutions to crucial natural resource issues in Colorado and around the world.
- As the chief academic and administrative officer, responsible for all aspects of undergraduate and graduate education and provide leadership of the College's research and outreach programs.
- Lead a great team composed of five academic departments, 11 centers, institutes, and outreach units.
- Performed supervisory functions and provided research and scholarly guidance to 1845 employees including 116 faculty members, 1025 staff and administrative professionals, and 2,393 students, (including 1610 undergraduate, 239 graduate and 544 online).
- Managed a budget of \$158 million dollars - \$23M state appropriated, \$2.5M auxiliary/cash funds, and \$133M federal/restricted funds, representing 26.7% CSU's research expenditures in 2023 and growing.
- As the intellectual leader of Warner College, provided a powerful public presence, representing the college and its capabilities to the university, to the state, and to those audiences externally for whom the college provides knowledge, training, and expertise.
- Provided oversight of accreditation of instructional programs, educational policy, academic planning, academic advising, academic resource management, development and revenue goals, and oversight of the academic affairs budget, and faculty personnel actions.
- Promoted a transparent and unifying vision that charts the path forward and leverage the rich resources of the university and the community to further cultivate a dynamic and innovative college at the leading edge of natural resources, human-nature interactions, environmental science, ecological sustainability, and practice both locally and globally.
- Advocated equitably for the full range of disciplines within the College and champion its mission of research, education, service, and extension.

- Led the strategic plan “*New Heights of Impact*”, focusing on engaging and empowering all constituencies, fostering a sense of collaboration and community, and uniting Warner College behind a bold vision for the future.
- Further grew the College’s research enterprise, updating and solidifying core curricula and program offerings, and ensuring these programs continue to produce natural resource leaders who are ready to meet market demands and tackle global challenges, and made a renewed commitment to our land-grant mission as well as its partnerships across CSU, Colorado, and the world.
- Implemented responsibilities, policies, and allocation of program resources for the enhancement of an academic and intellectual environment leading the Warner College as the premier natural resources institution.
- Accrued opportunities to improve the student experience, pursued more innovative research and teaching, expanded community-based programs that enhanced the lives of local, regional and global citizens, and attracted new resources.
- Bolstered the College’s financial standing through fiscal stewardship, philanthropy, and thoughtful resource management.
- Closely collaborated and partnered with advancement/development staff to maximize fundraising efforts in support of the College’s mission and advocated to external stakeholders including alumni, friends of the college, foundations, the legislature, and members of the CSU community.
- Championed for the College, as a true believer in the value of working across disciplines and sectors, and as a storyteller articulated across audiences how and why Warner College is fundamental to the University mission.
- Supported world-class faculty members, academic programs, and research, while integrating centers and institutes into collaborative academic and research opportunities. For example, I created the Dean’s Transdisciplinary Initiative to Solve Environmental Wicked Problems by incentivizing teamwork, collaboration, and high-quality research and education across the university.
- Deeply committed to the land grant mission of the university for social and economic mobility fully supporting diversity, equity, and inclusion across all constituencies, focused on mentoring junior faculty and at the same time finding opportunities to attract top senior faculty.
- Developed and promoted policies, practices, and programs that encouraged faculty professional growth and development.
- Served as an effective role model and leader for the faculty, embracing CSU’s strong culture of shared governance, transparency and open-door policy across all units.
- Embraced experiential learning as the hallmark of the College, assisting faculty in the integration of centers with academic programs, and creating more opportunities for faculty and students and research growth. Substantially increased the number of internships for students across the college that have led to jobs and postgraduate opportunities.
- Expanded the campus mission in the areas of teaching, research, and engagement at CSU Mountain Campus in Pingree Park, Colorado, and CSU Todos Santos Center located in Baja California Sur, Mexico.
- Increased the national and global recognition and visibility of Warner College’s outstanding programs to complement local, regional, and global relationships.
- As a member of President Parsons Executive Leadership team, worked to advance CSU’s institutional priorities including student success, world-class academic and research programs, institutional competitiveness, outreach and impact around the state and world, and strengthening our democracy.
- Appointed by President Parsons to explore a success model for CSU Todos Santos Center and hired a Mexico Engagement Specialist based at Todos Santos for faculty and student exchange embracing teaching, research, and outreach.
- Lead the creation of the Mexico Center at CSU to advance innovative and transdisciplinary research to tackle environmental, social and sustainability issues in Mexico and across the Mexico-USA border. The Mexico Center will address complex issues of biodiversity, ecosystems, wildlife, livestock and human health well-being. Members of the Mexico Center within the CSU community,

will be actively involved in research, education, and collaborative engagement among institutions in both countries to promote sustainable ecosystems and societies.

- Appointed professor without term at the Department of Fish, Wildlife and Conservation Biology.
- Served in the University Space Committee (Jan 2023-date).
- Served as Co-Chair in the CSU College of Agricultural Sciences Dean search committee (2024).
- Served in the CSU Vice President for Human Resources search committee (2023).
- Served in the CSU Provost and Executive President search committee (2023).
- Served in the Salazar Center for North American Conservation Executive Director search committee (2023).

Chair

Department of Environmental Science and Policy, George Mason University, Fairfax, VA
August 2016 – July 2022

- Supervised and administered an interdisciplinary department spanning the domains of the natural and social sciences and policy, that focuses on excellence and leadership in conservation, water and watersheds, and the one health approach to ecosystems and sustainability by bridging environmental science and public policy.
- Performed supervisory functions and provided research and scholarly guidance to 24 faculty and five staff managing a research budget of \$0.86M in 2016 to \$2.7M in 2021. My priority is to ensuring priorities, responsibilities, policies, and allocation of program resources for the enhancement of an academic and intellectual environment leading the department in research, scholarship, service, engagement, and high-quality teaching.
- Lead self-assessment and strategic planning process for the department aligning to the college and university strategic plans.
- Facilitated the development of unconventional or novel approaches that advance science, technology, and policy and maintaining a professional and institutional reputation promoting applications of program results through over 120 published papers in refereed journals; 10 books and monographs; 30 book chapters; and hundreds of presentations, authoritative reports or analyses, professional symposia, and student mentorship. My last book *Tropical Conservation: Perspectives on Local and Global Priorities* was published by Oxford University Press, in 2016.
- Coordinated scientific and educational activities for the College of Science and provided leadership within science and policy with clear management objectives and priorities for formulating research plans and hypotheses, for carrying out projects, interpreting findings, and assessing organizational and professional applicability of multiple disciplines under one umbrella.
- As of 2020, ESP had 447 students including graduate students, PhD (61), MS (54); BS (184) and BA (148) with a growth of 26.4% during the past five years. Responsible and with the authority for formulating and communicating recommendations for hiring, tenure, promotion, retention and evaluation of faculty and departmental support staff; establishing departmental budget priorities and allocations; recommend teaching assignments, leaves and special assignments to the dean and regulating faculty workloads; developing and articulating departmental goals; and ensuring that faculty in the department are fully engaged.
- Conducted annual performance review of faculty and staff and made merit recommendations to the dean. Evaluated faculty members for promotion/tenure and pre-tenure contract renewal decisions in accordance with university policy. In addition, guided development of junior faculty in terms of promotion and tenure.
- Led the SCHEV maintenance of university accreditation at the department level; arranged attendance of faculty at recruiting, fundraising and other events on the behalf of ESP; and coordinated the completion of academic and governance tasks required of academic area members within the department; represent the department to internal and external academic communities, alumni, business and industry, government, foundations, and the general community; and promoted and enhanced the image of the department, COS, and the University through participation in appropriate professional and academic organizations.

- Guided ESP regarding appropriate procedures, policies, and timelines to be followed for the preparation and presentation of curricular proposals and ensured that all curriculum procedures and policies were followed.

Professor

Department of Environmental Science and Policy

George Mason University, Fairfax, VA

June 2011 – July 2022

- Hired as Associate Professor without term in 2011 and promoted to Full Professor in 2019.
- Developed, implemented, and taught undergraduate and graduate courses including EVPP377 Applied Ecology; EVPP423/523 Beekeeping and Sustainability; EVPP 427/527 Disease Ecology and Conservation; EVPP 445/545 Principles of Environmental Toxicology; EVPP 449/549 Marine Ecology; EVPP 460/560 Infectious Diseases of Wildlife; EVPP490/505 Planetary Health; GCH496 One Health: A Transdisciplinary Approach; and EVPP 745 Environmental Toxicology.
- Since 2014, served as Chair of the University Institutional Animal Care and Use Committee (IACUC)
- Served in COS Space Advisory Committee; COS Second Level Promotion and Tenure Committee and previously served in the ESP Committee on Committees, and ESP Undergraduate Curriculum Committee.
- Provided guidance to the department regarding appropriate procedures, policies, and timelines to be followed for the preparation and presentation of curricular proposals and ensure that all curriculum procedures and policies are followed.
- Directed research projects with 12 graduate students (10 PhD & 2 MS) and a budget of \$0.6M, with many species and ecosystems including sea turtles, marine mammals, coral reefs, amphibians, fish, specifically: sea turtle foraging ecology; science communication and marine mammal conservation; ecology, distribution and management of sea turtles; conservation genetics of sea turtles; the illegal chelonian wildlife trade; and the salamander chytrid fungus.
- During my tenure as Associate Professor advised or was in graduate committees of 13 graduate students (seven masters and six doctoral) in several research projects including: emerging diseases in coral reefs; sea turtle foraging ecology; environmental contaminants and peregrine falcon populations in Virginia; ecology and conservation of eels; ecology, distribution and management of sea turtles in the Sea of Cortez; environmental contaminants and their effects on sea turtle populations in northeastern Mexico; oocyte membrane-bound sperm detection for crocodylian conservation and management at the National Zoological Park; the One Health approach in conservation and disease in National Park Service units.
- Served as Co-Editor of *EcoHealth*, *Journal of Wildlife Diseases* and *European Journal of Wildlife Research*.
- Maintained a professional and institutional reputation through presentations at meetings and participate in international seminars, publications in refereed journals and books.
- Served as senior editor of *Tropical Conservation: Perspectives on Local and Global Priorities* a book in press by Oxford University Press.

Executive Director

Smithsonian-Mason School of Conservation, Smithsonian Conservation Biology Institute, Front Royal, VA

Director

Mason Center for Conservation Studies, George Mason University, Fairfax, VA

Deputy Director

Center for Biodiversity and Sustainability, George Mason University, Fairfax, VA

July 2011-June 2014

- Led the establishment of the Smithsonian-Mason School of Conservation (SMSC), a collaborative program between George Mason University (Mason) and the Smithsonian Conservation Biology

Institute (SCBI) to engage undergraduates, graduate students and professionals from around the world in a range of compelling, transdisciplinary programs in conservation biology.

- Promoted a novel integrated approach to conservation science and led efforts to establish SMSC as a benchmark for innovative education for current and future generations of conservation biologists, policymakers, and global conservation leaders.
- Provided academic and operational leadership for all program activities, including academic curriculum development and administration, faculty and staff hiring and management, budget oversight, development and external relations.
- Represented SMSC to outside parties and worked closely with the Executive Committee (EC), Academic Program Committee (APC), and Operations Committee (OPC), all composed by equal number of scientists and administrators from both institutions, and other relevant parties to coordinate development and implementation of the overall academic program, event coordination and operational management of the academic center, the residence and conference center and dining hall.
- Developed and implemented a business strategy that aimed towards financial self-sufficiency. Provided the EC, APC, OPC and others as appropriate with budgets, evaluations, reports and other requested materials.
- Ensured program quality by leading development of SOPs and assessment plans.
- Assisted Mason and SCBI development offices in establishing fundraising objectives and supporting related activities.
- Developed and oversaw marketing and outreach strategies for the Academic Program.
- As Director of the Mason Center for Conservation Studies, represented Mason in overseeing the academic aspect of the SMSC programs, i.e., undergraduate Smithsonian-Mason Semester in Conservation Studies and 16 graduate/professional courses and certificates.
- Other duties included curriculum development and implementation; assigned faculty to courses; lead the process of gaining academic unit approval for new courses and programs for the University.
- Served as liaison to relevant Mason academic units and faculty to involve and educate them about the SMSC goals and needed curriculum development and instruction.
- In coordination with the Deans of College of Science and College of Humanities and Social Sciences, chaired the APC curriculum committee; and facilitated faculty development opportunities, as needed.
- As Deputy Director of the Center for Biodiversity and Sustainability served as Co-PI, with the Director, Thomas Lovejoy and other Mason scientists of the NSF grant PIRE: Asia-Pacific Collaborative Research and Education Network (APCREN) for Sustaining Biodiversity and Ecosystem Services.
- Served as a PI of an agreement with the State Department on a three-month program “Academic English for STEM: A Pilot Semester at SMSC” for 15 scientists from Peru.
- Published many professional papers including the book *New Directions in Conservation Medicine: Applied Cases of Ecological Health* by Oxford University Press.

Senior Vice President, Conservation Medicine

October 2008-June 2011

EcoHealth Alliance (formerly known as Wildlife Trust), New York, NY

- Led the establishment of program priorities, strategic approaches and coordinating financial and administrative support for the Conservation Medicine Program.
- Supervised all research and management activities of PREDICT 1, a USAID \$75M dollar contract awarded to EcoHealth Alliance and other 3 institutions to establish a global early warning system for disease emergence that is capable of detecting, tracking and predicting the emergence of new infectious diseases in wildlife that could pose a major threat to human health.

- Coordinated and hired wildlife veterinarians, ecologists, modelers, managers and administrative staff under PREDICT Latin America to mobilize resources, build diagnostic facilities and provide supplies and equipment in three continents.
- Served as Interim Director of the Wildlife Trust Alliance (WTA), an international, egalitarian network of science-based conservation organizations and individual members in 23 countries dedicated to understanding the consequences of human activities on biodiversity, ecosystem function and health.
- Promoted among the WTA members a common vision that conservation is best achieved through outstanding applied science and community-based activities designed by local professionals. WTA was a “think tank” of intellectual leaders and a global voice for local conservation scientists.
- Led the advancement of conservation medicine within WTA by identifying sources of funding, writing proposals for foundations, federal government agencies and individuals, in close collaboration with the Division of External Affairs.
- Served as a chief liaison and represented EcoHealth Alliance in the Consortium for Conservation Medicine (CCM). Responsible of coordinating, securing funding, arranging resources and outsource contracts for joint projects, exchange of scientists, international meetings and training workshops.
- Sold the diverse skills and wisdom of WTA as leader to scientifically innovative, culturally appropriate and cost-effective solutions to the challenges of protecting ecosystem health in human-dominated landscapes.
- Taught regularly graduate courses in conservation biology, ecological dimensions of wildlife diseases, epidemiology and conservation medicine in prestigious universities and research institutes.
- Co-developed and taught at NOVA Intensive BSc/MSc/DVM intensive, international course “Nordic Zoo, Wildlife and Conservation Medicine” with both long-distance and hands-on in five Nordic countries.
- Served as chair of the IACUC.
- Maintained a professional and institutional reputation through presentations at meetings and participated in international seminars, and refereed publications. Briefed the U.S. Congress, Administration, and federal agency leaders on a regular basis.

Vice President, Conservation Medicine

August 1998-September 2008

Wildlife Trust, New York, NY

- I held three positions during my 10-year tenure at Wildlife Trust: *International Field Wildlife Veterinarian* (August 1998-December 2000), *Director for Conservation Medicine* (January 2001-June 2005) and *Vice President for Conservation Medicine* (July 2005-September 2008).
- I directed the overall international field wildlife veterinary program and co-founded and served as chief liaison to the Consortium for Conservation Medicine.
- I provided technical veterinary medical assistance to any of the 65 wildlife conservation projects in 23 countries supported by Wildlife Trust including hands-on support in health care, handling and restraint of wildlife, translocation and clinical management of endangered species.
- Collected reliable health data of sentinel species on a long-term basis to facilitate the identification and protection of critically endangered ecosystems.
- Provided a better understanding of the effects of disease, environmental pollution, genetic variation and habitat degradation on the population dynamics of selected endangered species and threatened ecosystems.
- Measured physiological parameters of wildlife populations to monitor ecosystem health.
- Disseminated knowledge of wildlife medicine, management and conservation of biological diversity.
- Served as a bridge of skills and knowledge between conservation medicine efforts in both the developed and the developing world.
- I coordinated professional training courses for local conservation and health professionals to increase capacity building on site and to maintain a self-supporting, long-term program for each project

managed by Wildlife Trust. Species included amphibians, Andean deer, black-lion tamarins, elephants, guanacos, jaguars, marine mammals, peccary, and sea turtles, among others.

- I led the development of conservation medicine programs in Argentina, Brazil, Costa Rica, Chile, India, Indonesia, Mexico, Sri Lanka, United States, and Venezuela.
- Supervised and implemented a training program for wildlife veterinarians, other health practitioners, and wildlife biologists in conservation medicine. This training program included a yearly conservation medicine leadership course in Brazil; a course on managing endangered species recovery teams in conjunction with Durrell Wildlife Conservation Trust and Wildlife Trust Canada; and many other wildlife conservation and management courses in Latin America, Europe and Asia.
- Taught at the Comparative Medicine course and the International Veterinary Medicine course to third year veterinary students. This program merged under the Conservation Medicine Program at Wildlife Trust. Served as a technical advisor and coordinated field activities and personnel working in 60 projects and 20 countries.
- Promoted conservation medicine among national governments, international agencies and NGOs.
- Directed international attention to important conservation medicine issues and influenced policies that have promoted the conservation and health of biodiversity worldwide.
- Provided guidance to degree-granting institutions and promoted the creation of advanced degrees in conservation medicine, i.e. M.S., Ph.D., diplomats, internships and residencies in several countries.
- Provided technical advice to field project personnel in target countries, working closely with WTA.
- Published many professional papers including the books *Conservation Medicine: Ecological Health in Practice* and *Helminths of Wildlife: A Global Perspective*. Briefed the U.S. Congress, Administration, and federal agency leaders on a regular basis.

Wildlife Epidemiologist/Veterinary Medical Officer

October 1996-August 1998

Joint Institute for Marine and Atmospheric Research, University of Hawaii

- Under JIMAR, one of NOAA's joint cooperative institutes, provided full time veterinary and epidemiologic research to NMFS, Protected Species Investigations, Honolulu Laboratory, on Hawaiian monk seal and sea turtle conservation, management and species recovery.
- Responsible for clinical care, husbandry, management, and biomedical, pathologic and epidemiologic research of Hawaiian monk seals and marine turtles in the Hawaiian Islands.
- Designed an epidemiologic research plan to determine the health status of the most endangered pinniped in U.S. waters, with primary emphasis on identification and characterization of infectious and non-infectious agents significant to the wild population.
- Developed studies on wild and captive Hawaiian monk seals including physiology and health assessment, nutrition, field anesthesia, capture stress, hydration status, surgical procedures, diagnosis, prevention, treatment and monitoring of infectious agents and marine biotoxins.
- Collaborated with other researchers on high priority studies of monk seal ecology, physiology and behavior, as required for effective management of the species.
- Collaborated on rehabilitation efforts including husbandry and clinical care of captive seals.
- Prepared and updated response plans for unusual mortality events and oil and chemical spill response in the wild and reviewed and developed protocols for all aspects of wild and captive care including health screening, treatment, transport, and collection and release criteria.
- Conducted postmortem examinations of monk seals and sea turtles and collected specimens to determine cause of mortality.
- Conducted research to determine etiology of marine turtle fibropapillomatosis and other infectious diseases in marine turtles.
- Provided clinical support to the captive marine mammal and sea turtle collections at Sea Life Park, Waikiki Aquarium and other state-wide facilities during the absence of the contract veterinarian.
- Provided training to field personnel (biologists and veterinarians) in necropsy techniques, field anesthesia, clinical pathology and specimen collection and handling.

- Wrote internal reports and manuscripts in refereed journals and presented research findings at international meetings.
- Continuously reported to Congress and Public advocacy groups on marine mammal/sea turtle fisheries interactions.
- Closely involved with the issue of sea turtle bycatch in the Pacific Ocean and determine ways to mitigate this mortality.

Wildlife Epidemiologist

February-September 1996

The National Veterinary Institute of Sweden, SVA Department of Wildlife, Uppsala, Sweden

- Developed wildlife disease research of the endangered arctic fox in isolated field conditions in Swedish Lapland.
- Conducted chemical restraint, health assessment and a complete disease survey in wild foxes to establish mortality factors and developed recommendations for a captive rehabilitation and propagation program. Performed research on roe deer and the endangered Arctic fox health and diseases.
- Designed experiments and executed studies in the field to determine exposure of cormorants to environmental pollutants.
- Developed a comprehensive health and disease assessment plan for wild cormorants.
- Performed field and laboratory necropsies, specimen collection, and histopathologic examination of terrestrial and aquatic wildlife. Lectured on wildlife diseases in the veterinary college.
- Acted as a technical advisor in a wildlife disease panel to evaluate possible risks involved on the introduction of infectious animal diseases in Nordic countries belonging to the European Union.

Senior Research Scientist

June 1994-January 1996

Smithsonian Institution, Man and Biosphere Program, Washington, D.C.

- Originally funded by UNESCO, I organized and coordinated the SI/Man and the Biosphere Program Biodiversity Measuring and Monitoring Courses held at SCBI (formerly known as Conservation and Research Center), in Front Royal, Virginia. These were 8-week long course comprising over 45 instructors and scientists.
- Following the MAB mission developed an interdisciplinary research agenda and capacity building aiming to improve the relationship of people with their environment globally. We targeted the ecological, social and economic dimensions of biodiversity loss and the reduction of this loss.
- By using the World Network of Biosphere Reserves as vehicles for knowledge-sharing, research and monitoring, education and training, and participatory decision-making, provided support on research addressing problems associated with global biological diversity, emphasizing practical application of biomedical sciences to contribute on sustainable resource management.
- Identified professionals associated with the Reserve network to be trained in our facilities in all aspects of biodiversity conservation.
- Provided professional training in long-term monitoring of flora and fauna in tropical forests, at the ecosystem level.
- Developed a wildlife disease program, taught to scientists from 31 countries. Wrote internal reports and manuscripts in refereed journals, and prepared recommendations for further research.

Research Assistant Professor

September 1992-May 1994

Colorado State University, Department of Fish, Wildlife and Conservation Biology, Fort Collins, Colorado

- Developed an extramurally funded research program in wildlife disease and conservation.
- Funded by the National Marine Fisheries Service, provided a plan and approaches for clinical, pathologic and epidemiologic research on marine turtle fibropapillomatosis in the Hawaiian Islands.
- Conducted health evaluation studies and post-mortem examination in marine turtles to determine mortality factors.
- Surveyed habitats and populations, and conducted clinical, toxicologic, serologic, microbiologic and parasitological studies.
- Performed experimental trials on selected infectious agents including their isolation and characterization, and immune response of sea turtles.
- Supported the development of diagnostic laboratory techniques, and planned methods of control and prevention for field application.
- Taught FW 312 Diseases of Wildlife, a course developed for wildlife biology seniors and pre-veterinary students.
- Demonstrated laboratory techniques, sample collection during selected field situations, and necropsy techniques.
- Lectured on Principles of Wildlife Management (FW316), Wildlife Management Techniques (FW371), Wild Bird Management (FW468) and Population Dynamics (FW661). Advised undergraduate and graduate students.

Research Wildlife Veterinarian

September 1992-May 1994

Wildlife Laboratories, Inc., Fort Collins, Colorado

- Design and conduct field trials for testing new drugs for immobilization of free-ranging birds and mammals.
- Provided services regarding clinical care, treatment, pathology and surgery of a wide range of wildlife species.
- Acted as a veterinary contractor with the Colorado Division of Wildlife (CDOW) in numerous research projects related to chemical restraint, disease surveys, stress monitoring, translocation and telemetry of wildlife.
- Supported research in wild turkey translocation, sage grouse habitat ecology, waterfowl disease control and application of field forensic techniques for wildlife.
- Provided training to field personnel of CDOW in wildlife disease identification, prevention, and control.
- Collaborated with the Centers for Disease Control with epidemiologic surveys, collection of samples, and laboratory analysis of zoonotic agents including equine encephalitis viruses, tularemia, sylvatic plague, and Lyme disease.
- Acted as the official representative for drug development in Latin America. Served as a consultant to determine etiology of skin disease in captive orca whale in Mexico.
- Organized, coordinated, and taught workshops and seminars related to management, diseases, forensics, immobilization and conservation of endangered species at the international level in Europe, North, Central and South America.

Wildlife Epidemiology Postdoctoral Fellow

September 1990-August 1992

Oregon State University, College of Veterinary Medicine and National Park Service Cooperative Unit, Corvallis, Oregon

- Developed an epidemiologic plan for a nationwide inventory of infectious agents and their prevalence and geographic distribution in wild mammals in units of the National Park Service (NPS).

- Summarized available information related to infectious diseases, zoonoses and animal health programs. In addition, assessed the biological impacts of big game farms to native ungulates, translocation programs, and possible emerging diseases.
- Evaluated NPS policies as applied to wildlife disease, and reviewed the taxonomic status of disease agents.
- Conducted infectious disease surveys in wild ungulates, including the collection of more than 1,100 specimens from hunter-killed and anesthetized wild deer and elk in five states, coordinating the support of hunters and personnel from fish & game agencies.
- Other activities included clinical care, health/condition assessment, treatment, necropsies, collection and testing of specimens for laboratory analysis.
- Developed recommendations for the NPS on management and regulations related to animal health.
- Acted as a technical advisor on wildlife management and disease issues including bovine brucellosis in the Greater Yellowstone Ecosystem, lungworm-pneumonia complex in bighorn sheep in Rocky Mountain National Park, bovine tuberculosis in game farms, and conservation of the spotted owl in the Pacific Northwest.
- Taught lectures in Ecological Aspects of Park Management (FR451) and Veterinary Epidemiology (VM723).

Associate Editor

January 1989-December 1993

Wildlife Disease Review, Fort Collins, Colorado

- Compiled, summarized, and co-edited the *Wildlife Disease Review*, a taxonomic guide to world literature of wildlife diseases including mammals, birds, fish, reptiles, and amphibians.
- Supported the design of this publication to provide an updated reference service to veterinarians, wildlife biologists, animal behaviorists, curators, administrators, researchers, and students.
- More than 6,000 international scientific journals were searched monthly for articles pertaining to the topic.
- Provided subject-specific computer searches to subscribers.
- Translated into Spanish the *Wildlife Restraint Series*, a publication of International Wildlife Veterinary Services, Inc.

Graduate Research Assistant

September 1985-July 1990

Colorado State University, Department of Fishery & Wildlife Biology, Fort Collins, Colorado

- Developed and implemented several research projects related to biology and management of waterfowl and ungulates, pioneering studies of wildlife diseases in Mexico.
- Conducted clinical assessment, necropsies and collected specimens of wild and exotic animals. Performed laboratory testing of innumerable specimens for serologic, microbiologic, toxicologic, parasitologic, and pathologic studies.
- Participated in trapping, translocation, and immobilization of terrestrial and marine mammals and birds.
- Designed and developed a disease surveillance program to determine a white-tailed deer die-off in northern Mexico.
- Advised on the propagation and introduction of native and exotic ungulates and their respective animal health and management programs.
- Coordinated and taught Diseases of Wildlife (FW312) including laboratory demonstrations and field techniques.
- Organized, coordinated, and taught courses for veterinarians and biologists on wildlife diseases, immobilization, management and conservation in the Americas.

- Wrote and published technical papers and presented them at conferences. Attended the university as a graduate student.

Zoo Veterinarian

September 1983-August 1985

State Commission of Natural Parks and Fauna (CEPANAF), Toluca, Mexico

- Participated in the clinical care, husbandry and management and performed biomedical research on +4,500 individuals of 250 species of mammals, birds, reptiles, amphibians and fish housed in three zoological gardens and a captive wildlife breeding center in the State of Mexico.
- Special emphasis was given to mechanical and chemical restraint, preventive medicine, diagnosis, treatment, pathology, and captive reproduction of protected species.
- Headed a technical commission including CEPANAF and the Mexican Wildlife Service to assist in the chemical immobilization, reintroduction, quarantine, and breeding of several wild species for the state parks.

Assistant Professor

September 1983-August 1985

Autonomous University of the State of Mexico, College of Veterinary Medicine & Animal Sciences
Toluca, Mexico

- Served as part-time instructor of Animal Physiology (VM680) and Ecology (VM550) that included laboratory and field demonstrations.
- Headed the Translation Department and served as Technical English teacher in the Veterinary College.
- Conducted research and advised students for senior papers and theses. Research projects included mastitis epidemiology in dairy cattle, salmonellosis in poultry, lead poisoning in wintering waterfowl, and mycoplasmosis in turkeys.

Veterinary Medical Officer

August 1981-August 1983

Department of Agriculture & Water Resources, Animal Health Branch, Toluca, Mexico

- Served as an extension veterinary officer coordinating animal vaccination campaign, quarantine programs, animal censuses, and selection of animals for the livestock genetic improvement program.
- Provided basic veterinary care including treatment and control of common infectious and non-infectious diseases, under the supervision of a licensed veterinarian.
- Provided training with practical workshops and courses, and coordinated technical exchange groups on animal husbandry, nutrition, reproduction, and general care and management of livestock and poultry.

EDUCATION

Ph.D.

Major: Fish and Wildlife Biology
Minor: Protected Areas Management
Department of Fish, Wildlife and Conservation Biology
Colorado State University, Fort Collins, 1990

Dissertation:

Seroepidemiology of Wildlife Diseases in Mexico and
Experimental Arbovirus Infection of Waterfowl

M.S.	Major: Fish and Wildlife Biology Minor: Environmental Health Department of Fish, Wildlife and Conservation Biology Colorado State University, Fort Collins, 1987
Thesis:	An epidemiological study of lead poisoning in wild waterfowl in Mexico
Veterinary Internship	Wildlife Pathology and Diseases National Wildlife Health Research Center, Madison, Wisconsin, 1986
D.V.M.	Doctor of Veterinary Medicine and Zootechnics
Summa Cum Laude	Faculty of Veterinary Medicine and Animal Sciences Autonomous University of the State Mexico, Toluca 1984
Thesis:	Bacterial isolation and detection of <i>Salmonella pullorum</i> and <i>S. gallinarum</i> by a rapid agglutination test in backyard poultry

HONORS & AWARDS

Keynote Speaker

The Impacts of Co-Evolutionary Processes in the Conservation and Health of Wildlife Species. 11th International Encounter of Animal Sciences and Habitat Conservation, Autonomous University of Baja California South, Mexico, November 27. 2024

Keynote Speaker

Natural Selection, Evolution and Speciation: Impacts on the Management, Conservation and Health of Wildlife. International Theoretical Course in Heredity and Evolution, College of Veterinary Medicine and Animal Sciences, Autonomous University of the State of Mexico 2024

Keynote Speaker

Revisiting what is wild for coexisting. Pathways Europe 2024: Human Dimensions of Wildlife Conference, Cordoba, Spain. 2024

Keynote Speaker

Changing scales and perspectives: Confronting biodiversity loss, zoonotic diseases, and climate change. 1st Symposium for the Conservation of Natural Resources and the Environment. XXVII Anniversary of CIIDIR IPN Unidad Sinaloa. 2024

Keynote Speaker

The challenges of biodiversity loss, zoonotic diseases, and climate change: Changing Scales and Perspectives. Teach Global Health 2023 Summer Institute for Curriculum & Course Design and Assessment 2023

Keynote Speaker

One Health Priorities to meet the global goal for Nature +. One Health Day, College of Veterinary Medicine and Biomedical Sciences, Colorado State University 2022

Keynote Speaker

The Post-COVID Era and a Bright Future for Planetary Health. 12th International Veterinary Congress UPAEP, Puebla, Mexico. 2022

Panelist for EARTHDAY.ORG Event at COP26

Why Climate Literacy & Civic Skill Building Will Solve the Climate Crisis. COP26, Glasgow, Scotland 2021

Member, Global Council of Science and the Environment Delegation at COP26

UN Climate Conference UK, Glasgow, Scotland 2021

Panelist for Animal Matters Series

Tufts Center for Animals and Public Policy, Cummings School of Veterinary Medicine, Tufts University, North Grafton, Massachusetts 2021

Opening Keynote Speaker

14th Asian Society for Conservation Medicine & 27th Japanese Society of Zoo and Wildlife Medicine Joint Conference: Front Line of One Health in Asia. Hokkaido University, Sapporo, Japan 2021

Plenary Talk

69th WDA /14th EWDA 2021 Joint Conference: Managing Wildlife Diseases for Sustainable Ecosystems., Cuenca, Spain, Virtual 2021

Plenary Talk

XIII Rafael Martín del Campo y Sánchez Seminar. Zoonosis, Virus, Evolution and Wildlife Conservation during times of COVID-19. Laboratory of Vertebrates, Department of Comparative Biology, UNAM, Mexico 2021

Wiley Top Cited Article 2019-2020

World Medical & Health Policy doi.org/10.1002/wmh3.348 2021

Multidisciplinary Expert Panel

Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services: Transformative Change, Virtual 2020

Keynote Speaker

11th International Veterinary Congress, Universidad Popular Autónoma del Estado de Puebla, Mexico 2019

Opening Keynote Speaker

5th National Meeting of Sea Turtles & 2nd International Meeting of Sea Turtles in the Eastern Tropical Pacific Centro Cultural Universitario, Morelia, Michoacan, Mexico 2019

Opening Keynote Speaker

Wildlife Disease Association Latin American Section, Universidad de Costa Rica, Museo del Jade, San Jose, Costa Rica 2019

Featured Speaker

Mason Science Series: Reception & Research Discussion, George Mason University, Fairfax, Virginia
2019

Service Award

Wildlife Disease Association Council, Lawrence, Kansas
2018

Member

Board of Biological Sciences, National Academy of Sciences, Washington, D.C.
2012

Keynote Speaker

International Symposium of Hygiene and Animal Welfare, UAEM FMVZ 45th Anniversary, Toluca, Mexico
2017

Plenary Speaker

National Veterinary Scholars Symposium, Center for Cancer Research, National Institutes of Health & Association of American Veterinary Medical Colleges, Bethesda, Maryland
2017

Opening Keynote Speaker

Association of Tropical Biology & Conservation 54th Annual Meeting, Merida, Yucatan
2017

Keynote Speaker

Center for Interdisciplinary Research & Integral Regional Development 20th Anniversary, National Polytechnic Institute, Guasave, Sinaloa, Mexico
2017

Keynote Speaker

Impact of Environmental Changes on Infectious Diseases, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
2017

Distinguished Lecture

The Nelson Institute, University of Wisconsin-Madison
2015

Distinguished Lecture

Ecology and Environmental Sciences, National School of Advanced Studies-Morelia, UNAM, Morelia, Mexico
2015

Distinguished Alumnus Award

Colorado State University Warner College of Natural Resources Alumni Association award for exceptional and sustained leadership and contributions to their professional field in research, teaching, and service and brought honor to the University
2014

Vision Series Lecture

Mason's 2013-2014 Vision Series, George Mason University Hylton Performing Arts Center
Manassas, Virginia
2013

Distinguished Lecture

Life Sciences Huck Institute, Penn State University, University Park, Pennsylvania
2013

Distinguished Lecture Series

Sustaining Life Securing our Future, Earth Institute, Columbia University, New York
2012

Distinguished Lecture Series

Institute for Water, Environment and Health, U.N. University, Hamilton, Canada 2010

Distinguished Lecture Series

Frontiers on One Health, Calvin Swabe One Health Institute, UC-Davis 2010

Conservation Merit Bicentennial Award

Special Distinction for contribution on research, training and service in protecting biodiversity of protected areas and national parks in Mexico 2010

Dean's Distinguished Lecture Series

State University of New York-Stony Brook, South Hampton, New York 2009

Earth Day Distinguished Series Lecture

Zoo and Wildlife Student Association, University of Pennsylvania, Philadelphia 2008

Plenary Talk

Second International Conference on Health & Biodiversity, Galway, Ireland 2008

Campbell Memorial Lecture

College of Veterinary Medicine, Cornell University, Ithaca, New York 2006

Plenary Lecture

XVI Japanese Sea Turtle Association Meeting, Kuroshima, Okinawa, Japan 2005

Plenary Lecture

New England Aquarium Public Lecture Series, Boston, Massachusetts 2005

Harry Jalanka Memorial Medal Award

The most prestigious international award received for outstanding contribution to zoo and wildlife medicine. Helsinki, Finland 1998

Summa Cum Laude

DVM Diploma for best student of class, Autonomous University of the State of Mexico 1977-1983

RESEARCH GRANTS***Defense Threat Reduction Agency*****2023-2025****\$5,000,000**

PI: M. Gore

Co-PIs: A.A. Aguirre, K. Curtin, M. Kammer-Kerwick

Reducing security risks from the intersectionality of wildlife trafficking and biosafety from zoonotic pathogens in Africa's Greater Limpopo Transfrontier Conservation Area

National Council of Science and Technology (CONACYT), Mexico ***2019-2021***
\$75,000

Co-PIs: M.Y. Alvarez Añorve, L.D. Avila Cabadilla, A. Gonzalez Rodríguez, J. Benítez Malvido, Y. Maldonado López, R. Dirzo Minjarrez, A.A. Aguirre
 Potential triggers determining the presence of emerging infectious diseases in tropical landscapes linked to anthropogenic change.

NSF RCN Undergraduate Biology Education (RCN-UBE) ***2020-2021***
NEWT: Network Exploring Wildlife Trade

Co-PIs: N. Karraker, J. Sevin, C. Romagosa, M. Gore, A.A. Aguirre
 Centers on wildlife trade, including the effects on wildlife populations and people to: (1) incorporate wildlife trade into undergraduate courses in biology, environmental science, natural resources, geography, social science, and other subjects; (2) engage students in research that will aid them in developing core competencies in the sciences; and (3) eliminate barriers to participation in research for all students by setting class enrollment as the only requirement.

Targeting Natural Resource Corruption ***2019-2021***
\$55,000

PI: A.A. Aguirre. Subcontract with WWF through TraCCC at Mason
 A USAID-funded project, TNRC works to strengthen anti-corruption knowledge and practice in natural resource management and conservation, toward the larger goal of reducing the threats that corruption poses to fisheries, forests, and wildlife to improve biodiversity outcomes. This project is equipping practitioners with three strategic approaches: harnessing knowledge, generating evidence, and supporting innovative policy and practice for more effective anti-corruption programming.

U.S. Fish and Wildlife Service Marine Turtle Conservation Fund ***2017-2018***
\$13,728

PI: A.A. Aguirre. Ph.D. Student: Alexander Robillard
 Initial assessment of potential hawksbill turtle nesting beaches on the Tres Marias Archipelago, Nayarit, Mexico.

Provost Multidisciplinary Research Initiative ***2016-2018***
\$50,000

PI: A.A. Aguirre. Co-PI: K. Jacobsen. Other Major Investigators: L.C. Fleming, L. Di, A.A. Zavala.
 Determination of the effects of the illegal consumption of sea turtles on human health and environmental security in Northwestern Mexico.

NSF RCN EcoHealth Net 2.0: A One Health Approach to Disease Ecology Research & Education ***2016-2022***
\$500,000

PI: J. Epstein. Co-PIs: A. Bernstein, D. Kochevar, C. Johnson N. Debnath, A.A. Aguirre
 Establishment of a new, global research coordination network to advance the state of One Health science by bringing together world-class research scientists and policy-makers and providing interdisciplinary research training to early-stage science students both in the United States and in countries most vulnerable to emerging zoonoses

U.S. Geological Survey Cooperative Agreement
\$299,772

2016-2018

PI: A. A. Aguirre. Co-PI: D. Spooner

Ecosystem Services: Linking Water Management and Natural Capital Using an Eco-Socio-Economic Framework. The primary goal was to integrate nutrient loading models with biological resource inventories in order to characterize restoration and conservation priorities.

NSF RCN Macroecology of Infectious Disease
\$499,451

2013-2021

Co-PIs: P. Stephens, A. A. Aguirre, S. Altizer, R. Poulin, K. Smith

First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity targeted to support graduate course development and graduate students

NSF RCN EcoHealthNet: Ecology, Environmental Science and Health
\$497,000

2011-2015

PI: P. Daszak, Co-PIs: J. Epstein, A. Bernstein, D. Kochevar, C. Johnson N. Debnath, A.A. Aguirre

Summer training and internships in EcoHealth and emerging infectious diseases for Ph.D. students worldwide. None of the 15 core participants on the award received direct financial support. All funds allocated to students.

ConocoPhillips
\$150,000

2014

Co-PIs: A.A. Aguirre, C. Edwards

Pilot program to establish the ConocoPhillips Water & Biodiversity Professional Certificate and the ConocoPhillips Undergraduate Water and Biodiversity Post-Baccalaureate Scholarship

World Wildlife Fund/Green Trust
\$500,000

2014

Co-PIs: G. Peters, L. Shelley, D. McCoy, A.A. Aguirre

Time to Take Action: Identifying and Disrupting the Criminal and Terror Networks behind Rhino Poaching

USAID Emerging Pandemic Threats: PREDICT I
\$75,000,000

2010-2014

PIs: S. Morse, P. Daszak, and W. Karesh. Co-PIs: A.A. Aguirre, J. Epstein, N. Wolfe, J. Mazet

Implementing partners: EcoHealth Alliance, University of California-Davis, Metabiota Inc. (formerly Global Viral Forecasting Inc.), Smithsonian Institution, and Wildlife Conservation Society
 PREDICT 1 focused on detection and discovery of zoonotic diseases at the wildlife-human interface. Specific activities included: strengthening surveillance and laboratory capacities in order to monitor wildlife and people in contact with wildlife for novel pathogens that may pose a significant public health threat; characterizing human and ecological drivers of disease spillover from animals to people; strengthening and optimizing models for predicting disease emergence and using this information to improve surveillance; and supporting outbreak response when requested.

- Marisla Foundation*** **2004-2012**
\$440,000
 PI: A.A. Aguirre
 Research and training grant supporting the program “Marine Vertebrates as Sentinels of Ecological Health in Baja California”
- USDA APHIS Wildlife Services: H5N1 Surveillance and Training*** **2006-2010**
\$1,250,000
 PI: A.A. Aguirre
 Research/capacity building grant for surveillance and diagnostic assessment of highly pathogenic avian influenza H5N1 in Latin America
- V. Kann Rasmussen Foundation*** **1998-2008**
\$10,000,000
 Co-PIs: A.A. Aguirre, G.M. Tabor, M. Pearl.
 Innovative grant as to support the development and establishment of the Center for Conservation Medicine at Tufts University and then the Consortium for Conservation Medicine at Wildlife Trust and the Wildlife Trust Alliance
- Trilateral Committee for Wildlife and Ecosystem Conservation and Management (Canada-Mexico-US)*** **2006-2008**
\$270,000
 PI: A.A. Aguirre
 Research and capacity building grant for field workshops on surveillance and diagnostic assessment of highly pathogenic avian influenza H5N1 in Mexico.
- Overbrook Foundation*** **2004-2010**
\$370,000
 PI: A.A. Aguirre
 Research grant to measure the health of selected biosphere reserves in Mexico using sentinel species
- Panaphil Foundation*** **2002-2010**
\$400,000
 PI: A.A. Aguirre
 Research and training grant for health assessment and conservation in Peconic Bay, Long Island, New York
- Tamarin Foundation*** **2008-2009**
\$60,000
 P.I. A.A. Aguirre
 Sea turtle health assessment and conservation medicine in Peconic Bay, Long Island, New York
- NSF RCN Coordinated Research on Amphibian Population Declines in the Neotropics*** **2002-2007**
\$498,525
 P.I. Bruce Young. Veterinary Advisor: A.A. Aguirre
 Research and Analysis Network for Neotropical Amphibians (RANA) examining the population declines and extinctions of frogs, toads, and salamanders in many parts of the Neotropics.

- National Marine Fisheries Service*** **1999-2006**
\$170,000
 P.I. A.A. Aguirre
 Research grant for health assessment of sea turtles in Baja California and the Hawaiian Islands
- National Fish & Wildlife Foundation*** **2000-2005**
\$275,000, 2:1 match
 P.I. A.A. Aguirre
 Training and research grant for monitoring of West Nile virus and migratory birds in Mexico & for developing a marine mammal and sea turtle stranding network
- Oak Foundation*** **2000-2006**
\$300,000
 PI: A.A. Aguirre
 Research and training grant for the project "Marine Vertebrates as Sentinels of Marine Ecosystem Health: Marine turtle and manatee health monitoring to assess the occurrence and impact of emerging diseases and the overall health of the marine environment"
- National Marine Fisheries Service*** **2002**
\$35,000
 PI: A.A. Aguirre
 Contract to conduct epidemiologic research and consulting on Hawaiian monk seals and sea turtle fibropapillomatosis
- Humane Society of the United States*** **200-2001**
\$70,000
 PI: A.A. Aguirre
 Research and training grant to evaluate the situation of wildlife rehabilitation and conservation in Latin America and develop a training program *in situ* and report the status of veterinary colleges and their involvement in wildlife and conservation in Brazil
- Homeland Foundation*** **1999-2003**
\$110,000
 PI: A.A. Aguirre
 Research and training grant for the project "Sea Turtle Health Assessment in Baja California before *Escalera Nautica* Initiative to Promote Marine Ecosystem Health"
- Educational Foundation of America*** **1999**
\$100,000
 PI: A.A. Aguirre
 Research and training grant to support marine ecosystem health program developed at the Consortium for Conservation Medicine
- Swedish Research Institute*** **1996**
\$50,000
 PI: A.A. Aguirre
 Research grant for epidemiologic and health/disease assessment studies of roe deer and arctic foxes, Uppsala, Sweden

TEACHING & TRAINING GRANTS

Becker Fellowship and Scholarship Fund **2018-2025**
\$2,500,000

Supported by Cathy and Richard Becker, this endowment was recently established to support the next generation of environmental science and policy leaders. ESP is seeking the possibility to be named after its benefactors.

USGS National Climate Adaptation Science Center, Fish and Wildlife Adaptation Fellowship Program **2019-2022**
\$124,822

PI: A.A. Aguirre. Coordinator: Y. Kim

Student fellowship to learn the development of policy-informing products to manage the impacts of climate change on fish and/or wildlife resources. Furthermore, this program provides fellows with the opportunity to interact with professional communities outside of academia, while simultaneously advancing in their degree program.

National Park Service Cooperative Agreement **2019-2021**
\$72,567

PI: A.A. Aguirre. Coordinator: Y. Kim

Enhancing Scientific Data Collection and Management of Natural Resources in the National Capital Region through Student Internships.

This internship program provided undergraduate and graduate students hands-on skills in the management of natural resources in the National Capital Region. Students gained an understanding on how natural resource research and management was carried out according to NPS best practices, including an understanding the federal permitting system, compliance with the National Environmental Protection Act, collecting and processing specimens, and the long-term care and management of the data resulting from these research and management efforts.

National Park Service Cooperative Agreement **2018-2020**
\$160,687

PI: A.A. Aguirre.

Internships in Resource Management in National Parks in Urbanizing Landscapes

Provided internships on climate change and conservation to seven graduate and two undergraduate students and hired a GRA at the MS level as an internship coordinator. Also, two interns (one graduate and one undergraduate) served full time during the funding period.

OSCAR Curriculum Impact Grant **2017-2018**
\$30,000

Co-PIs: M.E. Von Fricken, A.A. Aguirre, L. Rockwood, C. Frankenfeld, P. Gillevet, A. Pollack, L.W. Poms. One Health: A Transdisciplinary Approach [COS, CHSS]

OSCAR Curriculum Impact Grant **2017-2018**
\$16,000

Co-PIs: Y. Kim, S. Howard, A. A. Aguirre, A., R. Dudley, A. Sample, S. Bloomquist, J. Gettys.

Design and Development of Professional Master's Degree in Environmental and Sustainability Management [CHSS, COS, CHHS, Schar]

U.S. Department of State **2014**
\$170,000

PI: A.A. Aguirre

Academic English for STEM: A Pilot Trimester at SMSC for Peruvian undergraduates.

Mason 4-VA Innovation Grant **2013**
\$30,000

Co-PIs: P. Seshaiyer, R. Schwebach, K. Dalfrey, A.A. Aguirre

Advancing the Mentorship of Academic-Year Governor's School (AYGS) Student Research Across VA: High School Teacher Professional Development for the 19 VA AYGS at Front Royal.

U.S. Fish and Wildlife Service **2012**
\$100,000

PI: A.A. Aguirre

Cooperative agreement for the Smithsonian-Mason School of Conservation to update IT capabilities to provide students internships with the federal government

J. T. Halpin Family Living and Learning Community **2012**
\$5,000,000

CoPIs: A.A. Aguirre, D. Long, P. Stearns

Endowment for the Smithsonian-Mason School of Conservation to provide student scholarships and support for faculty development

The Ocean Conservancy **2002**
\$25,000

PI: A.A. Aguirre

Training grant to develop an international stranding network for marine mammals and sea turtles

Center for Marine Conservation **2000**
\$25,000

PI: A.A. Aguirre

Training grant to develop an international stranding network for marine mammals and sea turtles

Smithsonian Institution **1994-1995**
\$50,000

PI: A.A. Aguirre

Grant to develop the SI/MAB courses in measuring and monitoring biological diversity

National Park Service **1990-1992**
\$50,000

CoPIs: A.A. Aguirre, D. Hansen, and E. Starkey

Postdoctoral fellowship to perform epidemiologic research of wildlife diseases in national parks

Ducks Unlimited **1988-1990**
\$10,000

CoPIs: A.A. Aguirre and R.S. Cook

Doctoral grant to investigate the role of resident waterfowl in the epidemiology of arboviruses and conduct a serological survey on selected diseases of wildlife in Mexico

National Council of Science and Technology**1985-1989****\$65,000**

PI: A.A. Aguirre

Graduate fellowship for training and research in wildlife biology and park management

State Commission of Natural Parks and Fauna**1985-1987****\$25,000**

Graduate fellowship for training and research in wildlife biology and epidemiology

PROPOSAL REVIEWER***Leibniz Association, Leibniz Competition*****2022**

€999,600

Project K373/2021: Caves as hubs for mammalian viral diversity and interspecies transmission

PI: C.C. Voight

INSTITUTIONAL ANIMAL CARE & USE COMMITTEES

- Chair. George Mason University, Fairfax, Virginia, March 2015-2022
- Chair. EcoHealth Alliance, New York, New York, July 2010-June 2011
- Chair. Wildlife Trust, New York, New York, July 2001-June 2010
- Member, Columbia University, CERC, New York, New York, August 1998-December 2000

COURSES TAUGHT AT GEORGE MASON UNIVERSITY

Due to my administration appointment as Executive Director of the Smithsonian-Mason School of Conservation, I began teaching in 2014.

EVPP/BIOL377 Applied Ecology, developed and taught, SU2018-SU2021

Introduces ecosystem concepts and applications to natural and managed ecosystems.

EVPP/BIOL427/527 Conservation Medicine. New, developed and taught, F2014-F2019

Presents the transdisciplinary discipline of conservation medicine, applied ecological health in practice. Topics include pathogens and impacts on human, biotic, and ecosystem health, and how to address consequences of diseases to populations and ecological communities.

EVPP445/545 Principles of Environmental Toxicology, developed and taught, S2015-S2016

History and scope of the field; absorption, distribution, metabolism and excretion of toxicants; mechanisms of toxic action; genetic toxicology. Regulatory toxicology risk assessment.

EVPP/BIOL449/549 Marine Ecology, developed and taught, S2015-S2016

Plants and animals of marine environments and physical and chemical conditions that affect their existence.

EVPP/BIOL460/560 Infectious Diseases of Wildlife, developed and taught, S2017-S2021

infectious diseases of wildlife will be examined with emphasis on causes and mechanisms, pathobiology, ecology and epidemiology and population significance. Methods of diagnosis, control, prevention, and outbreak investigation as they apply to management and conservation of wildlife populations, and diseases crossing species barriers are examined.

GCH305/EVPP490 Introduction to One Health, developed and taught S2019-S2022

Developed with a Provost's Curriculum Impact Grant, this course is taught by faculty of three departments and two colleges. One Health is a transdisciplinary, holistic approach to complex health issues. Introduces practical, sustainable, and effective solutions while considering socioeconomic factors and complex local to global health/environmental policies.

EVPP/BIOL428/528 Planetary Health, developed and taught F2020-F2021

Planetary health is a field focused on characterizing the human-caused disruptions of Earth's natural systems to health. We will identify key challenges related to environmental systems, biodiversity changes, ecosystem modifications, climate change, intensive farming, and emerging diseases. We will analyze future outcomes for human, animal and ecosystem health based on environmental trends and seeking solutions to many of these planetary problems.

EVPP745 Environmental Toxicology (Ecotoxicology), developed and taught, F2014

Nature, distribution, and interaction of toxic chemicals released into environment. Focus on Ecotoxicology including acute and chronic toxicity testing, uptake, distribution and metabolism of toxins as well as their distribution in the environment. Emphasizes effects on nonhuman biota, detection, and fate of chemicals, and includes discussion of implications for government regulations.

ACADEMIC ADVISOR

Meadhbh Molloy, Ph.D. ESP, George Mason University, Fall 2024
 Molly Corder, Ph.D. ESP, George Mason University, Spring 2024
 Ushakiran Madari, Ph.D. ESP, George Mason University, Spring 2023
 Elizabeth Rush, M.S. ESP, George Mason University, Fall 2022
 Victoria Oliver, Ph.D. ESP, George Mason University, Fall 2022
 Breanna Hart, M.S. ESP, George Mason University, Fall 2022
 Furhad Nasserjah, Ph.D. ESP, George Mason University, Fall 2020-2022
 Zuri Gagnon, M.S. ESP, George Mason University, Fall 2022
 Blake Klocke, Ph.D. ESP, George Mason University, Fall 2022
 Jennifer Lewis, Ph.D. ESP, George Mason University, Fall 2022
 Serenity Montaña, Ph.D., ESP, George Mason University, Spring 2022
 Heather Davies, Ph.D., ESP, George Mason University, Spring 2022
 Michelle Julissa López Ruíz, M.C. CIIDIR, IPN, Guasave, Sinaloa, Fall 2021
 Samantha Oester, Ph.D., ESP, George Mason University, Spring 2021
 Layne Bolen, Ph.D. ESP, George Mason University, Spring 2021
 Kenneth Sandler, Ph.D. ESP, George Mason University, Spring 2020
 Church Humphreys, M.S. ESP, George Mason University, Spring 2020
 Susan Howard, Ph.D. ESP, George Mason University, Spring 2020
 Nicholas Walker, Ph.D. ESP, George Mason University, Fall 2019

Krista Shires, M.S., ESP, George Mason University, Spring, 2019
 Merna Saad, M.S. ESP, George Mason University, Spring, 2018
 Meadhbh Molloy, M.S. ESP, George Mason University, Spring 2018
 Kimberly Hozlock, M.S. Forensic Science, George Mason University, Fall 2017
 Erin Dale, M.S. ESP, George Mason University, Spring 2017
 Lauren Augustine, M.S. ESP, George Mason University, Spring 2017
 Katharine Holder, M.S. ESP, George Mason University, Fall 2016
 Jennifer Ravinskas, M.S. Biology, George Mason University, Spring 2014
 Hannah Wang, M.S. ESP, George Mason University, Spring 2013
 Kate Sulzner, M.P.V.M. University of Davis, California, Spring 2011
 Kalyn Bickerman, M.A. E3B Department, Columbia University, Spring 2011
 Oscar Pineda-Catalán, Ph.D. E3B Department, Columbia University, Spring 2010
 Tonya Ramey, M.A. E3B Department, Columbia University, Spring 2010
 Charles Huang, M.A. E3B Department, Columbia University, Spring 2008
 Andres Gomez, Ph.D. E3B Department, Columbia University, Spring 2008
 Joe Spring, M.A. Program, E3B, Columbia University, Spring 2006

GRADUATE COMMITTEES

Brenda Aracely Espinoza Romo, D.Sc., CIIDIR, IPN, Guasave, Sinaloa, Spring 2024
 Ana Belem Isaak Delgado, D.Sc., CIIDIR, IPN, Guasave, Sinaloa, Fall 2023
 Kevin Alan Zavala Félix, M.C. CIIDIR, IPN, Guasave, Sinaloa, Fall 2022
 Paula Tercero Dander, PMS, Faculty of Veterinary Medicine, UNAM, Mexico, Fall 2022
 Ayesha Karamat, Ph.D. ESP, George Mason University, Fall 2022
 Sujata Poudel, Ph.D. ESP, George Mason University, Spring 2021
 Vera Solovyeva, Ph.D. ESP, George Mason University, Spring 2021
 Diana Paula Armendáriz Flores, M.C. CIIDIR, IPN, Guasave, Sinaloa, Fall 2021
 Jessica Havens, M.S. ESP, George Mason University, Fall 2020
 Brittany Grouge, M.S. ESP, George Mason University, Spring 2020
 Rocío Yanel Mejía Radillo, M.C. CIIDIR, IPN, Guasave, Sinaloa, Spring 2016
 Haile Tadesse, Ph.D., ESP, George Mason University, Spring 2016
 H. Danielle Johnson, M.S., ESP, George Mason University, Fall 2015
 Ashley D. Milton, Ph.D., ESP, George Mason University, Spring 2015
 Lila C. Fleming, Ph.D., ESP, George Mason University, Spring 2015
 Natalia Rossi, M.A. E3B Department, Columbia University, Spring 2009
 César Ley-Quinónez, M.S. Centro Interdisciplinario de Investigación para el Desarrollo Integral Regional (CIIDIR), Instituto Politécnico Nacional (IPN), Guasave, Sinaloa, Spring 2009
 Lisa Habberl, M.A. E3B Department, Columbia University, Spring 2008
 Cecilia Baptistotte, Ph.D. Ecology Department, Universidade São Paulo, Fall 2007
 Sylvia Vitazkova, Ph.D. E3B Department, Columbia University, Spring 2005

EXTERNAL EXAMINER

Bronwyn Kleinhans, Ph.D. Stellenbosch University, Cape Town, South Africa, Spring 2022
 Karlien Barnard, Ph.D. Stellenbosch University, Cape Town, South Africa, Spring 2019
 Sabrina Trocini, Dr. Phil. Murdoch University, Perth, Northern Australia, Spring 2013
 Alan Zavala-Norzagaray, D.Sc. Biotechnology, Autonomous University of Sinaloa, Spring 2013
 Mauro San Vicente López, M.S. Colegio de la Frontera Sur, Chetumal, Mexico, Spring 2005

Paloma Valdivia, M.C. Centro de Investigaciones Biológicas del Noreste S.C., Spring 2005

Carlos Mario Orrero, M.C. Universidad Nacional de Costa Rica, Heredia, Fall 2003

Cristian Bonacic, Ph.D., Wildlife Conservation & Research Unit, University of Oxford, Spring 2000

SABBATICAL SCHOLARS

Gerardo Suzán, UNAM, Smithsonian-Mason School of Conservation, Front Royal, VA, 2012-2013

POSTDOCTORAL FELLOWS

Gerardo Suzán, Columbia University & Wildlife Trust, New York, New York 2006-2007

VISITING SCHOLARS

Fátima Yedith Camacho-Sánchez, PhD Candidate, Conservation Medicine Lab, Centro de Biotecnología Genómica-Instituto Politécnico, Nacional, Reynosa, Tamaulipas, Mexico (08/19 to 04/20)

Marcela Marega Imamura, PhD Candidate, Programa de pós-graduação em Ecologia e Conservação da Biodiversidade, Universidade Estadual de Santa Cruz, Departamento de Ciências Biológicas, Ilhéus, Bahia, Brazil (11/18 to 6/19).

LICENSES & CERTIFICATIONS

Leadership Legacy Program: George Mason University, Fairfax, Virginia

Certified Wildlife Biologist: The Wildlife Society, Washington, DC

Veterinary Medicine and Surgery:

- Colorado License # 6778, exp date 10/31/2026
- New York License # 007593, exp date 12/31/2025
- Wisconsin License # 403916, exp date 12/31/2025

Drug Enforcement Agency License: New York

Diplomate Eligibility: American College of Zoological Medicine

Wildlife Capture, Field Anesthesia & Management: International Wildlife Veterinary Services and Institute of Wildlife Pharmacology

EnviroVet: Wildlife and ecosystem health certification. University of Minnesota, Duluth

Habitat Evaluation Procedures: Evaluation of wildlife habitats and sensitive species certification. U.S. Fish and Wildlife Service

PROFESSIONAL APPOINTMENTS

Member

Honorary Science and Conservation Committee, Butterfly Pavilion (2024)

Member

Teach Global Health: Summer Institute for Curriculum and Course Design Executive Advisory Board (2023)

<i>Member</i>	Partners in Amphibian and Reptile Conservation (PARC) Turtle Networking Team's Collaborative to Combat the Illegal Trade in Turtles -CCITT (2020-2022)
<i>Executive Committee Member</i>	Global Council for Science and the Environment (GCSE) College and University Network Leaders' Alliance (formerly NCSE Council of Environmental Deans and Directors), Washington D.C. (2019-2022)
<i>Member</i>	Multidisciplinary Expert Panel of Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES): Transformative Change, Bonn, Germany (2019-2021)
<i>Task Force Member</i>	Planetary Health Education Competency Framework Project, Planetary Health Alliance & Consortium of Universities for Global Health (2019-2022)
<i>Affiliate Faculty</i>	Mason's Institute for a Sustainable Earth (ISE), George Mason University, Fairfax, VA (2019-2022)
<i>Affiliate Faculty</i>	Mason's Institute for BioHealth Innovation (IBI), George Mason University, Fairfax, VA (2019-2022)
<i>Affiliate Professor</i>	Terrorism, Transnational Crime and Corruption Center, (TraCCC), Schar School of Policy and Government, George Mason University, Arlington, Virginia (2018-2022)
<i>Member</i>	Board of Biological Sciences, National Academy of Sciences, Washington, D.C. (2017-2022)
<i>Research Fellow</i>	Smithsonian Institution, National Zoological Park, SCBI, Front Royal, Virginia (2011-2022)
<i>U.S. Delegate</i>	Canada/Mexico/U.S. Trilateral Committee for Wildlife and Ecosystem Conservation and Management (2005-2022)
<i>Member</i>	IUCN SSC Wildlife Health Specialist Group (2010-2022)
<i>Council Member</i>	Wildlife Disease Association (2015-2018)
<i>Executive Member</i>	Global Environmental Change and Human Health Scientific Steering Committee. A Joint Project of ESSP - Earth System Science Partnership: DIVERSITAS, IGBP, IHDP, WCRP (2008-2014)
<i>Board Member & Treasurer</i>	International Association of Ecology and Health (2006-2012)
<i>Clinical Assistant Professor</i>	Center for Conservation Medicine Tufts University School of Veterinary Medicine North Grafton, MA (1998-2013)

<i>Adjunct Professor</i>	Conservation Medicine Doctoral Degree Faculty of Veterinary Medicine Universidad Andres Bello, Santiago de Chile (2009-2013)
<i>Executive Member</i>	National Oceanic and Atmospheric Administration Oceans and Human Health Initiative Executive Panel (2006-2012)
<i>Chair</i>	World Association of Wildlife Veterinarians (2005-2011)
<i>Research Professor/ Academic Committee Member</i>	Consortium for Environmental Research and Conservation Columbia University, New York (1998-2011)
<i>Member</i>	IUCN Veterinary Specialist Group (1995-2009)
<i>Adjunct Professor</i>	City University of New York, South Hampton (2010)
<i>Technical Advisor</i>	Federal Attorney for Environmental Protection PROFEPA/SEMARNAT, Mexico (2003-2008)
<i>Member</i>	USDA Northeast Pest Management Center. Public Health Working Group (2002-2008)
<i>Adjunct Professor</i>	Wildlife Program, College of Postgraduates, Chapingo Agricultural University, Mexico (1995-2008)
<i>President Elect</i>	American Association of Wildlife Veterinarians (1999-2001)
<i>Wildlife Consultant</i>	Wildlife Diseases. World Animal Health Organisation (OIE), Paris, France (1994-2008)
<i>U.S. Representative</i>	Latin American Association of Wildlife Veterinarians (1998-2008)
<i>Member</i>	Wildlife Diseases Committee. United States Animal Health Association (1994-2002)
<i>Chair</i>	Latin American Section, Wildlife Disease Association (1992-2002)

EDITORIAL BOARDS

Animals – Reviewer (2022)
 Bioscience – Reviewer (2018-2022)
 Conservation Biology – Reviewer (1994-2022)
 Diseases of Aquatic Organisms – Reviewer (2005-2022)
 EcoHealth – Co-Editor (2004-2010); Review Editor (2010-present)
 European Journal of Wildlife Research – Associate Editor (2010-2022)
 Journal of Aquatic Animal Health – Reviewer (2000-2022)
 Journal of Wildlife Diseases – Associate Editor (2010-present)
 Journal of Zoo and Wildlife Medicine – Reviewer (1995-2022)
 Nature Reviews Cancer – Reviewer (2008-2022)
 Proceedings of the National Academy of Sciences – Invited Editor (2020)

Science Advances – Reviewer (2015-2022)
 Veterinary Record – Reviewer (2000-2022)

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (1998-2022)
 American Association of Wildlife Veterinarians (1985-present)
 American Association of Zoo Veterinarians (1987-present)
 American Veterinary Medical Association (1995-present)
 Association for Environmental Studies and Sciences (2012-2016)
 International Association of Aquatic Animal Medicine (1998-2009)
 International Association of Ecology and Health- Member (2006-present)
 International Sea Turtle Society (1995-present)
 IUCN Wildlife Health Specialist Group (1995-2022)
 IUCN SSC Captive Breeding Specialist Group- Veterinary Advisor (1998-2007)
 Latin American Association of Wildlife Veterinarians – USA Representative (1998-2008)
 Society for Conservation Biology (1987-2023)
 Society for Marine Mammalogy (1995-2022)
 The Wildlife Society (1987-present)
 Wildlife Disease Association (1985-present)

- Council Member (2015-2018)
- Annual Conference Session Chair (2010)
- Annual Conference Program Co-chair (1995)
- Program Chair/Latin American Symposium (1992)

PUBLICATIONS

PEER-REVIEWED JOURNALS: ORIGINAL RESEARCH

Salerno J., A.A. Aguirre, L.F. Aguirre, C. Bonacic, A. Bosco-Lauth, S.W. Breck, P.N. Gitonga, T. Goldstein, M.N. Gonzalez, D.L.K. Hoag, C. Mayo, J. Mizia, E.J. Raynor, J. Ritten, T.J. Sherman, K. Shockley, R. Sukumar, T. Thekaekara, G. Titcomb, S.M. Wilson, B.A. Wolfe, V. Yovovich, and K.R. Crooks. 2025. Transdisciplinary research priorities for a One-Health approach to human-wildlife coexistence. *BioScience* (in press)

Alvarez Rojas C.A., C. Bonacic, R. Salgado, L. Peters, D. Fredes, A.V. Rubio, S. Muñoz-Leal, P. Oyarzún-Ruiz, and A.A. Aguirre. 2024. Genetic and biological insights into *Hydatigera taeniaeformis* in invasive black rats from southern Chile. *Frontiers in Veterinary Medicine* 11:1466409 doi: 10.3389/fvets.2024.1466409.

Espinoza J., A. Alfaro-Núñez, C. Cedillo-Peláez, H. Fernández-Sanz, A. Mancini, A.A. Zavala-Norzagaray, C. Paul Ley-Quíñonez, E. Santacruz López, M.A. Garcia-Bereguaiain, A.A. Aguirre, and E. Reséndiz. 2024. Epidemiology of marine turtle fibropapillomatosis and tumor-associated chelonid alphaherpesvirus 5 (ChHV5; Scutavirus chelonidalpha5) in North-Western Mexico: A scoping review implementing the One Health approach. *Veterinary Research Communications* doi.org/10.1007/s11259-024-10429-6.

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Aguirre A.A., T. Longcore, M. Barbieri, H. Dabritz, D. Hill, P.N. Klein, C. Lepczyk, E.L. Lilly, R. McLeod, J. Milcarsky, C.E. Murphy, C. Su, E. VanWormer, R. Yolken, and G. Sizemore. 2018. *Toxoplasma gondii* and environmental contamination: A One Health concern. The Wildlife Society 25th Annual Conference, 7-14 October. Cleveland, Ohio

Corder M., A. Moresco, and A.A. Aguirre. 2018. The value of clinical research for reproductive-based conservation medicine in zoo environment. Association of Zoos and Aquariums. 23-27 September. Woodland Park Zoo, and Seattle Aquarium, Seattle, Washington.

Milton A., T.L. Morelli, B.I. Inogwabini, and A.A. Aguirre. 2018. Deforestation effects on ecosystem services and health in the Democratic Republic of Congo. 13th International Conference on Interdisciplinary Social Sciences: Autonomy in times of turmoil: what to make of the social? University of Granada, 25-27 July, Granada, Spain.

Aguirre A.A., K. Jacobsen, L.C. Fleming, A.J. Robillard, C.P. Ley-Quiñónez, and A.A. Zavala-Norzagaray. 2018. Effects of the illegal consumption of sea turtles on environmental security and human health in northwestern Mexico, 67th Wildlife disease Association Annual International Conference: Connecting wildlife health, conservation and management in a changing world, St. Augustine, Florida, 5-10 August, p.14.

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Walker N., C. Dolloff, V. Prasad, K. De Mutsert, K. and A.A. Aguirre. 2018. Fish habitat and passage assessment of American Eel (*Anguilla rostrata*) in Chesapeake Bay tributaries. Atlantic Estuarine Research Society. April 6, Woodbridge, Virginia.

Ley-Quiñónez C.P., B.A. Espinoza-Romo, J.C. Sainz-Hernández, C.E. Hart, M.R. Vejar-Rubio, A.G. Sandoval-Lugo, A.A. López-García, R. Leal-Moreno, C.G. Romero-Urías, E.G. Meza-Gonzalez, K.A. Zavala-Feliz, A.A. Aguirre, A.A. Zavala-Norzagaray. 2018. Blood biochemistry of olive ridley (*Lepidochelys olivacea*) sea turtles foraging in northern Sinaloa, Mexico. Proc. 38th Annual Symposium on Sea Turtle Biology and Conservation Presentation Abstracts, 18-23 February, Kobe, Japan, p. 166.

Zavala A., R.Y. Mejia Radillo, C. Escobedo Bonilla, C. Paul Ley-Quiñónez, C.E. Hart, K.A. Zavala, A.A. Aguirre, A. Chaves. 2018. Detection of herpesvirus in two species of sea turtle (*Chelonia mydas agassizii* and *Lepidochelys olivacea*) in Northern Sinaloa. 38th Annual Symposium on Sea Turtle Biology and Conservation Presentation Abstracts, 18-23 February, Kobe, Japan, p. 169.

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Vejar-Rubio, M.R., Seminoff, J.A., Espinoza-Romo, B.A., Hart, C.E., Leal-Moreno, R., Ley-Quiñónez, C.P., López-García, A.A., Meza-González E.G., Romero-Urías, C.G., Sandoval-Lugo, A.G., Zavala-Félix, K.A., Aguirre A.A., Zavala-Norzagaray, A.A. 2017. Trophic ecology of *Lepidochelys olivacea* and *Chelonia mydas agassizii* by analyzing stable isotopes (¹³C and ¹⁵N) in northern Sinaloa, Mexico. 1st International Meeting of Sea Turtles in the Eastern Pacific Ocean and 4th National Meeting of Sea Turtles in Mexico. 11 to 14 October, Universidad Michoacana de San Nicolas de Hidalgo/INIRENA/Proyecto de Conservacion Tortuga Negra/Facultad de Biología/CONANP. Morelia, Michoacán, Mexico.

Walker N.J., K. de Mutsert, C.A. Dolloff and A.A. Aguirre. 2017. Fish passage and conservation prioritization for American eel (*Anguilla rostrata*) in Virginia and Maryland tributaries of the Chesapeake Bay Watershed. 6th International Conference in Agro-Geoinformatics. 7-10 August, George Mason University, Fairfax, Virginia.

Aguirre, A.A. 2017. Conservation Medicine and One Health: New paradigms addressing the threats of disease emergence, globalization and climate change in the tropics. 54th Annual Meeting of the Association of Tropical Biology and Conservation, 9-14 July, Merida, Yucatan, Mexico.

Walker N.J., K. de Mutsert, C.A. Dolloff and A.A. Aguirre. 2017. Stock assessment and prioritization of habitat and passage of American eel (*Anguilla rostrata*) in the Chesapeake Bay Watershed. 1st UK International Eel Science Symposium, 13-15 June. Inst of Fisheries Management, Zool Soc London, Regents Park, England.

Aguirre A.A., V. Beasley, P. Echaubard and B.A. Wilcox. 2017. One Health collaborations addressing interactions among environmental change, reduced biodiversity, and disease emergence in wildlife. Impact of Environmental Changes on Infectious Diseases. 17-19 May, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy.

Ley-Quiñonez C.P., C.E. Hart, R. Alonso-Rodriguez, R. Leal-Moreno, B.A. Espinoza-Romo, A.A. Lopez-Garcia, E.G. Meza-Gonzalez, P. Aguilar-Claussell, A.A. Aguirre and A.A. Zavala-Norzagaray. 2017. Paralytic shellfish poisoning (PSP) as a possible cause of sea turtle mortality in the Mexican Pacific coast. 37th Annual Symposium on Sea Turtle Biology and Conservation, 15-20 April, Las Vegas, Nevada.

Zavala-Norzagaray A.A., C.P. Ley-Quiñonez, C.E. Hart, R. Leal-Moreno, B.A. Espinoza-Romo, A.A. Lopez-Garcia, C.G. Romero-Urias, A.G. Sandoval-Lugo, M.R. Vajar-Rubio, K.A. Zavala-Felix, and A.A. Aguirre. 2017. Evaluation of sea turtle bycatch during shark fishing in northcentral Sinaloa. 37th Annual Symposium on Sea Turtle Biology and Conservation, 15-20 April, Las Vegas, Nevada.

Zavala-Felix K.A., C.P. Ley-Quiñonez, C.E. Hart, R. Leal-Moreno, B.A. Espinoza-Romo, A.A. Lopez-Garcia, C.G. Romero-Urias, A.G. Sandoval-Lugo, M.R. Vajar-Rubio, A.A. Aguirre and A.A. Zavala-Norzagaray. 2017. Sea turtle strandings along the Gulf of California islands beaches: further evidence of fisheries impact in northern Sinaloa, Mexico. 37th Ann Symp Sea Turtle Biology & Conservation, 15-20 April, Las Vegas, Nevada.

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Aguirre, A.A. 2017. Transdisciplinarity: Leave your Ego at Home and Learn to Listen. One Health: A Transdisciplinary Discussion Symposium. 17th National Conference and Global Forum on Science, Policy and the Environment: Integrating Environment and Health. National Council for Science and the Environment, 24-26 January, Hyatt Regency Crystal City, Washington D.C.

Aguirre, A.A., P. Echaubard and B.A. Wilcox. 2017. Wildlife Health and Disease: One Health Gaps in Science and Policy. 2017. One Health: Science Gaps and the Intersection of Health and the Environment Symposium. 17th National Conference and Global Forum on Science, Policy and the Environment: Integrating Environment and Health. National Council for Science and the Environment, 24-26 January, Hyatt Regency Crystal City, Washington D.C.

Aguirre, A.A. 2016. History and Evolution of One Health: Integrating Human, Animal and Environmental Health. One Health Symposium: Opportunities for SETAC Leadership in Integrating Environmental, Human and Animal Health. 7th SETAC World Congress/SETAC North America 37th Annual Meeting, 6-10 November, Orlando, Florida.

Aguirre, A.A. 2016. Conservation Medicine and One Health in Latin America: New Paradigms Addressing Priorities and Challenges in Public Health. III National and II International Conference in Veterinary Public Health, 4-6 October, Auditorium Adrian Rojas, SENASA, Heredia, Costa Rica.

Aguirre, A.A. 2016. Chelonian Disease and Conservation Special Session Plenary Talk: Bycatch impacts on the health and conservation of endangered north Pacific loggerhead turtles (*Caretta caretta*): turning science into policy. 65th International Conference of the Wildlife Disease Association, 31 July-5 August, Cornell University, Greek Peak Mountain Resort, Cortland, New York.

Aguirre, A.A. and V. Beasley. 2016. One Health Session Plenary Talk: One health and conservation medicine are evolving to build transdisciplinary collaborations, integrative research, and local capacity. 2016 AAZV/EAZWV/IZW Conference. 16-22 July, Atlanta, Georgia.

Aguirre, A.A. 2015. Conservation Medicine, EcoHealth and One Health: Evolving paradigms building transdisciplinary collaborations, integrative research and local capacity. SETAC North America 36th Annual Meeting: Buzzing with Science, cross-pollination for environmental progress. November 1-5, Salt Palace Convention Center, Salt Lake City, Utah.

Aguirre, A.A., G. Suzán, Gabriel E. García-Peña, and I. Castro-Arellano. 2015. A macroecological approach to zoonotic emerging pathogens: A key role of interspecies barriers examined by metacommunity and phylogenetic theories. Ecological Society of America 100th Annual Meeting & Exposition, 9-14 August. Baltimore Convention Center, Baltimore, Maryland.

Aguirre, A.A., G. Suzán, Gabriel E. García-Peña, and I. Castro-Arellano. 2015. Understanding zoonotic emerging pathogens across the landscape with a macro-ecological approach. Ecology & Evolution of Infectious Diseases 13th Annual Conference, May 26-29, Classic Center, Athens, Georgia

Aguirre, A. A., S. C. Gardner, J. C. Marsh, S. G. Delgado, C. J. Limpus and W. J. Nichols. 2015. Health hazards associated with the consumption of sea turtles. Inaugural Mason Multi-Disciplinary Research Symposium. April 27, Mason Global Center Ballroom, George Mason University, Fairfax, Virginia.

Zavala-Norzagaray A.A., A.A. Aguirre, J. Velazquez-Roman, H. Flores-Villasenor, N. Leon-Sicarios, C.P. Ley-Quíñonez, L.J. Hernandez-Diaz, A. Canizalez-Roman. 2015. Isolation, characterization, and antibiotic resistance of *Vibrio* spp. in sea turtles from Northwestern Mexico. 36th Annual Symposium on Sea Turtle Biology and Conservation, 29 February-2 March, Lima, Peru.

Graves, S., M. Sikaroodi, R. Jonas, C. Frankenfeld, A.A. Aguirre, and P. Gillevet. 2015. Genetic variability of *Borrelia burgdorferi* and Lyme disease in Fairfax County, Virginia. Inaugural Mason Multi-Disciplinary Research Symposium. April 27, Mason Global Center Ballroom, George Mason University, Fairfax, Virginia

Peters, E., K. Holder, P. Gillevet, B. Whitaker, M. Khan and a. A.A. Aguirre. 2015. Investigation of microbiota associated with rapid tissue loss in captive Indo-Pacific corals. Inaugural Mason Multi-Disciplinary Research Symposium. April 27, Mason Global Center Ballroom, George Mason University, Fairfax, Virginia

Aguirre, A.A. 2014. Changing Patterns of Biodiversity Conservation, Health and Disease Linked to Weather and Climate Extremes. Keynote Speaker. International Symposium on Weather and Climate Extremes, Food Security and Biodiversity, 20-24 October 2014, George Mason University, Fairfax, Virginia, USA

Galindo E., A. Johnson, R. Schwebach, A.A. Aguirre, K. Dalfrey and P. Seshaiyer. 2014. Advancing the mentorship of AYGS student research across Virginia teacher professional development for the 19 VA AYGS at Front Royal. Innovations in Teaching & Learning Conference. Signature Learning Experience, 19 September, Center for Teaching & Faculty Excellence, George Mason University, Fairfax, Virginia.

Aguilar-Clausell P., A.A. Zavala-Norzagaray, A.M. Coronado-Garcia, C.G. Romero-Urias, R. Leal-Moreno, M.R. Vejar-Rubio, C.E. Hart, C.P. Ley-Quíñonez, and A.A. Aguirre. 2014. Implementation of festivals as a social participation strategy for the conservation of sea turtles. 34rd Annual Symposium on Sea Turtle Biology and Conservation, 2-8 April, New Orleans, Louisiana, USA.

Aguirre, A.A. and K.Q. Johnson. 2014. A special partnership provides unique conservation-focused experiential learning. Society for College and University Planning, 2014 Mid-Atlantic Regional Conference, 23-25 March, Drexel University, Philadelphia, Pennsylvania, p. 7.

Aguirre, A.A. 2013. Conservation Medicine: Bridging the gaps to face transdisciplinary challenges integrative research in ecological health. 26th International Congress for Conservation Biology. Society for Conservation Biology, 21-25 July 2013. Baltimore, Maryland

Aguirre, A.A. 2013. Plenary talk: Developing global capacity for prediction and prevention of emerging zoonotic diseases of wildlife. International Conference on Diseases of Zoo and Wild Animals 2013. Tiergarten Schonbrunn, IZW & EAZWV. 8-11 May, Vienna, Austria.

Aguirre, A.A. 2013. Conservation Medicine and Ecohealth: Building Bridges to Face the Challenge of Sea Turtle Conservation. RETOMALA. 33rd Annual Symposium on Sea Turtle Biology and Conservation, 2-8 February, Baltimore, Maryland, USA.

Aguilar-Claussell P., A. Zavala-Norzagaray, C. E. Hart, C. P. Ley-Quiñonez, and A. A. Aguirre. 2013. Clinical condition in olive ridley sea turtles (*Lepidochelys olivacea*) in Guasave, Sinaloa, Mexico. In T. Tucker, L. Belskis, A. Panagopoulou, A. Rees, M. Frick, K. Williams, K., R. LeRoux, and K. Stewart, compilers. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-645:5.

Hart C. E., A.A. Zavala-Norzagaray, C.P. Ley-Quiñonez, P. Aguilar-Claussell and A.A. Aguirre. 2013. Surgery, rehabilitation and release of a juvenile hawksbill rescued from a longline in the Bahia de Jaltemba, Nayarit, Mexico. In T. Tucker, L. Belskis, A. Panagopoulou, A. Rees, M. Frick, K. Williams, K., R. LeRoux, and K. Stewart, compilers. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-645:12,

Hart, C. E., A. A. Zavala-Norzagaray, C. P. Ley-Quiñonez, A. A. Aguirre, P. Aguilar-Claussell and F. A. Abreu. 2013. Possible hybridization between East Pacific green and olive ridley sea turtles in Northwest Mexico. In T. Tucker, L. Belskis, A. Panagopoulou, A. Rees, M. Frick, K. Williams, K., R. LeRoux, and K. Stewart, compilers. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-645:140.

Zavala-Norzagaray A.A., C. E. Hart, A. Canizalez-Roman, P. Aguilar-Claussell, C. P. Ley-Quiñonez, and A. A. Aguirre. 2013. First record of loggerhead sea turtles (*Caretta caretta*) in Sinaloa, Gulf of California, Mexico. In T. Tucker, L. Belskis, A. Panagopoulou, A. Rees, M. Frick, K. Williams, K., R. LeRoux, and K. Stewart, compilers. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-645:124.

Aguilar M.E., A.A. Zavala, H.A. González, and A.A. Aguirre. 2013. Evaluation of the anthropogenic impacts on the sea turtles in the coastal zone of the San Ignacio- Macapule-Navachiste Lagoon System. In J. Blumenthal, A. Panagopoulou, and A.F. Rees, compilers. Proceedings of the Thirtieth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC- 640:63-64.

Ley C.P, A.A. Zavala, T.L. Espinosa, and A.A. Aguirre. 2013. Heavy metals in sea turtles from Northwest Mexico. In J. Blumenthal, A. Panagopoulou, and A.F. Rees, compilers. Proceedings of the Thirtieth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC- 640:66.

Aguirre, A. A., J. Buff, K. Christen, J. Kolowski, J. McNeil, S. Lessard-Pilon, J. Sevin, and F. Dallmeier. 2012. The Smithsonian-Mason School of Conservation: Transforming conservation biology learning in the 21st century. Joint 61st WDA/Biennial EWDA Conference: convergence in wildlife health. 23-27 July, Lyon, France.

Aguirre, A. A. 2012. Changing patterns in emerging diseases of wildlife linked to climate change. North American Congress for Conservation Biology, 15-18 July, Oakland, California.

Zavala A.A., R. Briseño, M. Ramos, and A.A. Aguirre A first evaluation of the knowledge and uses of sea turtles in coastal communities of Sinaloa's north, Gulf of California, Mexico. 2012. *In* Belskis L., M. Frick, A. Panagopoulou, A.F. Rees, and K. Williams, compilers. Proceedings of the Twenty-Ninth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-630: 152-153.

Aguirre, A.A. 2012. Conservation Medicine, Ecohealth or One Health: Building Bridges to Face the Challenge of Emerging Infectious Diseases. II International Congress of Tropical Wildlife Medicine and Sustainability, 15-16 March, National University, Bogota, Colombia (keynote speaker).

Aguirre, A.A. 2012. Conservation Medicine and *Sorta Situ*: An Evolving Approach to Animal Population Management. II International Congress of Tropical Wildlife Medicine and Sustainability, 15-16 March, National University, Bogota, Colombia.

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PROFESSIONAL PRESENTATIONS BY INVITATION

How to Prevent the Next Pandemic with One Health? Grand Finale Round Table One Health and Preparedness for the Next Pandemic. International Symposium on Immunobiologicals (7th ISI): Building Pathways to Accelerate the Development of the National Technological Innovation Ecosystem, hybrid event. Bio-Manguinhos, Fiocruz Campus, Rio de Janeiro, Brazil, 2-4 May 2023.

One Health Priorities for the Global Goal of Nature Positive. Department of Animal Sciences and Habitat Conservation, Universidad Autónoma de Baja California Sur, La Paz, BCS, Mexico. Virtual. 17 March 2023.

One Health: Building transdisciplinary bridges to face the challenge of zoonotic diseases. One Health Day. National Center of Control and Prevention of Disease Programs. Center of Rabies and Other Zoonosis Webinar. 3 November 2022.

From Conservation Medics to Planetary Doctors: Three decades working at the interface of biodiversity, EIDs, and climate change. Seminar to the Wildlife Disease Association Student Chapter, Colorado State University, Fort Collins, CO. 2 November 2022.

The Post-COVID Era and a Bright Future for Planetary Health. Keynote at 12th International Veterinary Congress UPAEP, Puebla, Mexico. 28 April 2022.

Moderator of the Panel "The Illegal Wildlife Trade and Risks to Human Health." II High Level Conference of the Americas on the Illegal Trade of Wildlife, Minambiente, UK Government, and UNODC. Cartagena, Colombia. Virtual. 5-6 April 2022.

Planetary Health Framework and UN SDG3. Post Pandemic International Health Forum. Sustainable Development Goals Observatory (ODS). Leadership and Sustainability Initiative, Universidad Ramón Llull y Fundación Bancaria "La Caixa". Virtual. 7 April 2022

Conservation Medicine, One Health & Planetary Health: Post-Pandemic Trends and Transdisciplinary Approaches to EIDs. Webinar for the Mexican Scientific Society of Ecology, Escuela Nacional de Estudios Superiores, Unidad Merida, UNAM, Mexico, February 24, 2022.

COVID-19 and Other Pandemics: Interview with Salvador Castell, Va Por la Tierra. Vx T Talks, 9 January 2022. <https://www.youtube.com/watch?v=g-3T8pkv8ZI>

COP26 - What Happened There? What's Next? A.A. Aguirre, E.W. Maibach, L. Zakiyyah and C. Machalaba. Virtual Panel. Institute for a Sustainable Earth, Office of Sustainability, Center for Climate Change Communications, and Department of Environmental Science and Policy, George Mason University, November 23, 2021. <https://vimeo.com/649192101>

From Conservation Medics to Planetary Doctors: Transdisciplinary teams combating disease emergence, the illegal wildlife trade and climate change. Department of Biology Seminars, Gottwald Auditorium, University of Richmond, Virginia. 18 October 2021.

Marine Vertebrates as Sentinels of Ocean Health: Mass Strandings Linked to Emerging Diseases, Biodiversity Loss and a Changing Climate. Tufts Center for Animals and Public Policy, Cummings School of Veterinary Medicine, Tufts University, North Grafton, Massachusetts, 29 September 2021.

Conservation Medicine to Planetary Health: Transdisciplinary Approaches for Integrating Health, Biodiversity Conservation, and Sustainable Development. 14th Asian Society for Conservation Medicine/27th Japanese Society of Zoo and Wildlife Medicine 2021 Joint Conference: Front Line of One Health in Asia. Hybrid meeting, Hokkaido University, Sapporo, Japan. 21-24 September 2021

Planetary Health Education Framework. CUGH Webinar. A.A. Aguirre, C. Faerron Guzmán, B. Astle, N. Redvers, and T.M. Potter. Consortium of Universities for Global Health, Washington D.C. 18 August 2021.

Global Patterns of Emerging Zoonotic Diseases: Are We Able to Predict and Prevent the Next Pandemic? XIII Rafael Martín del Campo y Sánchez Seminar: Zoonosis, Virus, Evolution and Wildlife Conservation during times of COVID-19. Laboratory of Vertebrates, Department of Comparative Biology, UNAM, Mexico. 17 August 2021

Planetary Health in the Post-COVID-19 Era: Could We Predict and Prevent the Next Pandemic? International Virtual Forum on Impacts and Research Advances of COVID-19 in Animals. UPAEP, Secretary of Education and CONCYTEP, Puebla, Mexico. 17 August 2021.

Sorta Situ and Conservation Medicine: Novel strategies for the management of wildlife and zoo animal populations. AZCARM (Mexican Association of Zoos, Breeding Centers and Aquaria). Virtual Seminar, 1 July 2021.

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Conservation Medicine, One Health & Planetary Health: Post-pandemic trends and evolving transdisciplinary approaches to EIDs. A Systemic Look at the Emerging Disease Challenge: Planetary Health, Emerging Diseases and Food Security Webinar. School of Veterinary Medicine, Pontificia Universidad Católica de Chile, 10 March 2021.

Can we Prevent the Next Pandemic by Stopping the Wildlife Trade? Science and policy implications. Department of Geography & the Environment Seminar Series, Villanova University, Villanova, Pennsylvania, 18 February 2021

From Conservation Medicine to Planetary Health: Science and policy frameworks for improving the relationship of humans with nature on a rapidly changing world. One Health: 12th Encounter of the Environmental Scientist Network, National Polytechnic Institute, IPN, 3-6 November 2020.

From Conservation Medicine to Planetary Health: We need to move beyond the brand. REEL Seminar Series. Latin American Disease Ecology Network, 22 October 2020.

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One Health and SARS-CoV-2: Impacts of a pandemic on species and ecosystems. SARS-CoV-2 Pandemic, Species and Protected Areas Expert Panel. 84th Anniversary of National Polytechnic Institute (IPN) & 23rd Anniversary of CIIDIR-IPN, Mexico. 25 June 2020.

The COVID-19 pandemic connects human, animal & ecosystem health. Expert Virtual Panel on Illegal wildlife markets, zoonotic disease transfer and corruption— Connections and what the global community must do about it. A.A. Aguirre, S. Broad, N. Sekhran, J.M. Sellar, and L. Shelley. Targeting Natural Resource Corruption, USAID, WWF, U4, TraCCC & Traffic. 23 June 2020

<https://www.worldwildlife.org/pages/tnrc-blog-illegal-wildlife-markets-zoonotic-disease-transfer-and-corruption>

The Role of Conservation Medicine and One Health in Solving Emerging Infectious Diseases. International Virtual Forum on Emerging Zoonotic Diseases from a One Health Perspective: SARS-CoV-2. UPAEP, George Mason University, IREC. Fauna Australis and Va Por La Tierra, Mexico. 11 June 2020

The Role of Wildlife in the Epidemiology of Emerging Infectious Diseases. International Virtual Forum on African Swine Fever, Centro Universitario UAEM Amecameca, Mexico, UAEMEXTV, 9 June 2020.

COVID19 and Ecological Health. Public Health, Ecological Health and Security Virtual Panel. Institute for a Sustainable Earth. George Mason University, Fairfax, Virginia. 18 May 2020.

COVID19 and One Health: Effects of the Pandemic on Human, Animals and Ecosystem Health. Week for the Planet, Earth Day, Webinar, Por La Tierra, Mexico. 22 April 2020.

Extinction by Infection: Impact of Disease on Endangered Species. BIOL318 Conservation Biology, Travis Gallo. Robinson B222, George Mason University, Fairfax, Virginia, 5 November 2019.

Environmental Science and Policy: Our Vision in the 21st Century. Mason Delegation to Kathmandu University, Dhulikhel, Nepal. 26-29 August 2019.

Extinction by Infection: The hidden face of disease emergence, globalization and climate change. Mason Science Series. College of Science, George Mason University, Fairfax, VA. 12 April 2019.

One Health and the Wildlife Illicit Trade. George Mason University-National Science Foundation Conference on Disrupting Operations of Illicit Supply Networks. 25-26 March 2019. Schar School of Policy and Government, Arlington, VA.

Panel on Science and Policy. Council of Environmental Deans and Directors (CEDD). 2019 Winter Member Meeting, 7 January 2019. National Council for Science and the Environment, Washington DC.

One Ocean, One Health: Connecting Sea Turtle Conservation, Ecosystems and Human Health. BIOL494: Honors Seminar in Biology, David Luther. 27 September 2018. Enterprise 277, George Mason University, Fairfax, Virginia.

One Health: A transdisciplinary discussion. One Health Conference. Vida Volunteer Org. 22 August 2018. San Jose. Costa Rica.

Multidisciplinary and Collaborative Approaches to Public Health Crises. Panel at Globalization and Public Health: The Flows of Peoples, Capital, and Crises Across Borders. University Scholars Fall Institute, 23 August 2016, George Mason University, Fairfax, Virginia.

Toxoplasmosis in marine mammals: spillover of a terrestrial parasite into marine ecosystems. 9-10 August 2016. *Toxoplasma gondii* Summit, American Bird Conservancy, Baltimore, Maryland.

Thirty Years as a Conservation Medic: Building ecological health capacity to protect biodiversity in the Americas. 18 November 2015. ENVRS900 Latin American Conservation. The Nelson Institute, University of Wisconsin-Madison.

Marine species as sentinels for toxins in the food chain. 16 September 2014. PATH 527: Emerging Issues and Research on Harmful Cyanobacterial Algal Blooms Impacts on Populations, Ecosystems and Water. University of Illinois at Urbana-Champaign.

Marine mammals and sea turtles as sentinels of toxins in the food chain. COMM389 Public Relations in for Associations and Nonprofits, Mitchell Marovitz. 9 September 2014. George Mason University, Robinson B111, Fairfax, Virginia.

Extinction by Infection: The hidden face of disease emergence, globalization and climate change. 14 August 2014. Research Group of Arctic Infection Biology, Department of Arctic and Marine Biology, The Arctic University of Norway, Tromsø.

Extinction by Infection: The hidden face of disease emergence, globalization and climate change. Smithsonian Animal Disease Exchange: An overview of ongoing disease-related research at the Smithsonian Institution. SCBI Seminar Series, 16 May 2014. National Zoological Park, Washington, D.C.

Conservation Medicine and the Human Spirit: Health and Art Connect All Species in the Planet. Americas Latino Festival: an initiative of Americas for Conservation & The Arts. 16-18 November 2013. Boulder, Colorado.

Conservation Medicine, EcoHealth or One Health: New paradigms to address the emergence of infectious diseases and the impacts of globalization. One Health Academy, 14 March 2013. Capital Yacht Club, Washington, D.C.

Conservation Medicine, EcoHealth and One Health: Building the Bridges to Predict and Prevent the Next Epidemic. 1 November 2012. Faculty of Biological Sciences, Universidad de Costa Rica, San Jose, Costa Rica.

Climate Change, conservation, and sustainability. International Forum on Sustainable Agrobiotechnology: 75th Anniversary of AARSP and 15th Anniversary of CIIDIR-IPN Unidad Sinaloa. 22 June 2012. Auditorio Heroes de Sinaloa, Guasave, Sinaloa, Mexico.

Health of the Oceans. Global Food Security in the XXI Century. 10 April 2012, UPenn, Philadelphia. EcoHealth: Envisioning and Creating a Truly Global Transdiscipline. 2011 GECHH Symposium in partnership with CNR-ISE & CNR-IRSA "Global Environmental Change and Human Health: Healthy Forests for Life", 19-21 September, Verbania, Italy.

Sea turtle as sentinel species: Is fibropapillomatosis and indicator of marine ecosystem health? Graduate Seminar, Department of Environmental Science & Policy, 18 May 2011, George Mason University, Fairfax, VA.

Conservation Medicine: A Global Approach to Ecological Health for a Greener Planet. State Commission of Parks and Protected Areas Magisterial Conference: 30th Anniversary of the Zacango Zoo. 9 December 2010, Calimaya, Mexico.

Trilateral Fund Avian Influenza Surveillance & Training Program: Report to the Executive Table. Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT General Direction of Wildlife. 10-14 May 2010, Halifax, Nova Scotia, Canada.

Conservation Medicine and One Health: Building bridges to face the challenge of emerging diseases. Spring Lecture Series of CSU Student Chapter of the Wildlife Disease Association, CSU One Health Club, Warner College of Natural Resources and the Department of Fish, Wildlife and Conservation Biology, Colorado State University, Fort Collins, 27 April 2010.

Marine Vertebrates as Sentinels of Ocean Health, 13 November 2009, Stony Brook Southampton College, NY.

Climate Change, Health and Ecosystems: Health in an Ecological Dimension: Round Table. II International Encounter for Conservation Medicine, 1-4 September 2009, Universidad Federal Rural de Pernambuco, Recife, Brazil.

Global Environmental Change and Patterns of Disease Emergence in Terrestrial and Marine Ecosystems. II International Encounter for Conservation Medicine, 1-4 September 2009, Universidad Federal Rural de Pernambuco, Recife, Brazil.

DIVERSITAS-EcoHealth Update. ESSP Joint Project: Global Environmental Change and Human Health. 2nd Scientific Steering Committee Meeting. 24-25 August 2009, Dublin, Ireland.

Trilateral Fund Avian Influenza Surveillance & Training Program: Report to the Executive & Migratory Bird Tables IV Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT General Direction of Wildlife. 11-15 May 2009, Miami, Florida.

Sea turtles as sentinels of ecological health: linking land to sea. New England Aquarium Lecture Series, 4 May 2009, Boston, Massachusetts.

Emerging infectious diseases and conservation of biodiversity: So you wanna become a conservation medic? 14 April 2009. College of Veterinary Medicine. Ecosystem Health Program. University of Minnesota, Minneapolis.

Marine vertebrates as sentinels of ecological health: linking land to sea. Featured Speaker for the Conservation Biology Program Spring Lecture Series, 13 April 2009, University of Minnesota, Minneapolis, Climate change: Changing patterns on disease emergence in terrestrial and marine wildlife. NorACIA Workshop: Impact of climate change on infectious diseases of animals in the Arctic. 19-20 May 2008, Norway Veterinary College, Department of Arctic Medicine, Tromsø, Norway.

Trilateral Fund Avian Influenza Surveillance & Training Program: Report to the Executive & Migratory Bird Tables XIII Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, USFWS and SEMARNAT. 12-16 May 2008, Veracruz, Mexico.

Sentinel species and marine ecosystem health: a new paradigm. XXIV AZCARM Congress, 15-18 October 2007, Xcaret, Quintana Roo, Mexico.

Conservation medicine: linking human, wildlife and ecosystem health. 1st International Encounter of Conservation Medicine. 18-21 July, Vitoria, Espiritu Santo, Brazil.

Trilateral Fund Avian Influenza Surveillance & Training Program: Report to the Executive and Migratory Bird Tables XII Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT's Mexican Wildlife Service. 14-18 May, Quebec, Canada.

Genetic characterization of a morbillivirus isolated from grey whales (*Eschrichtius robustus*) in the Sea of Cortes. Symposium on Health and Diseases of Cetaceans. International Whaling Commission 59th Annual Meeting, 4-6 May 2007, Anchorage, Alaska.

Bovine Brucellosis in the Greater Yellowstone Ecosystem Case Study. Wildlife conservation and the threat of infectious diseases. European Wildlife Disease Association Student Chapter, 26-29 April 2007, Sithonia, Greece.

Conservation Medicine: the practice and theory of ecological health. Wildlife conservation and the threat of infectious diseases. European Wildlife Disease Association Student Chapter, 26-29 April 2007, Sithonia, Greece.

Conservation Medicine: Linking wildlife, human and ecosystem health. 19-21 April 2007, SIVAS ZOO, Bari, Italy

Conservation Medicine Program at Wildlife Trust: Addressing ecological health worldwide. 19-21 April 2007, SIVAS ZOO, Bari, Italy

Highly Pathogenic Avian Influenza Surveillance and Training Initiative in Mexico. Wildlife Disease Surveillance Meeting, 7-9 March 2007, Ornithology Laboratory, Cornell University, Ithaca, New York

Mexican Capacity Building through Local Training in the Management of Migratory Waterfowl and Their Habitats. North American Wetland Conservation Act (NAWCA) Mexico Program Partner Meeting, 22-23 February 2007, Centro Felix de Jesus, Tlalpan, Mexico, D.F.

Conservation Medicine at Wildlife Trust: Building ecological health capacity to protect biodiversity worldwide. Veterinary Deans Meeting: Academic exchange in a changing world. 23 June 2006, UAEM. Toluca, Mexico.

Conservation medicine: ecological health in practice- a new approach to infectious emerging diseases. Plenary at the Symposium of Ecology and Conservation Biology, 25 November 2005, Instituto de Ecologia, Universidad Autónoma de Mexico, Mexico.

Conservation Medicine and Ecological Health: A New Approach to Emerging Diseases and Threats to Jaguar Conservation, Symposium Conservation of Jaguars in the XXI Century. 13 October 2005, Club de Golf, Cuernavaca, Mexico.

Oceans and health: the role of veterinarians in the conservation of marine ecosystems. New Zealand Veterinary Association, Victoria University, Pipitea Campus, 5 July 2005. Wellington, New Zealand.

The Living Oceans: An Evolving Oxymoron, The Red Lecture Theatre, Unitec, 4 July 2005. Mt Albert, New Zealand.

Conservation medicine and ecological health: manatees as an example. Instituto Acuatico Xel-Ha, Sala Oceanica, Parque Xel-Ha, 15 June 2005, Quintana Roo, Mexico.

Conservation medicine: linking wildlife health, human health and ecosystem health in a deteriorating world. EcoSur, 13 June 2005, Quintana Roo, Mexico.

The health of sea turtles and humans are connected: can eating sea turtle make you sick? Sea Turtles and your Health Scientific Meeting based on an informative health campaign for people that consume sea turtles and their eggs in northwest Mexico. Blue Ocean Institute, CIBNOR and Wildlife Trust. 30 May 2005, La Paz, Baja California Sur, Mexico.

Conservation medicine as a new paradigm for the control of wildlife diseases at a continental scale. X Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT's Mexican Wildlife Service. 26 April 2005, Zacatecas, Mexico.

Conservation medicine as a new paradigm to control wildlife diseases at the Mexico-U.S.A. border. 2nd Binational Meeting on Wildlife Health Mexico-U.S.A. SEMARNAT, SAGARPA, USDA-APHIS, CDC. Secretaria de Relaciones Exteriores, 20 April 2005, Mexico, D.F.

The Mexico-U.S. border as a region of epizootiologic disease risk in wildlife. U.S.-Mexico Border States Symposium on Management of Natural and Cultural Resources. Corbett Center at New Mexico State University, 19-21 April 2005. Las Cruces, New Mexico.

Health and disease studies of sea turtles in Baja California, Mexico. Loggerhead Turtle Workshop, Western Pacific Regional Fishery Management Council Meeting, 2 March 2005, Honolulu, Hawaii

Oceans and Health: Sea turtle fibropapillomatosis as an example. Exploring the etiology of fibropapillomatosis using Bayesian Belief Networks. 28 February-1 March 2005, Honolulu, Hawaii

Conservation Medicine & Sea Turtle Health in the Pacific Ocean. Plenary Speech at the XVI Japanese Sea Turtle Association Meeting, 18-21 November 2004, Kuroshima, Okinawa, Japan

Conservation Medicine, Ecological Health & Sentinel Species. 20 October 2004, Infectology Section, Hospital La Raza, Mexico, D.F.

Conservation Medicine & Global Climate Change: how are we connected to this environmental crisis? 1st Meeting of Medical Continuing Education and IX National Congress of the Medical Alumni Association, 18 October 2004, Escuela Superior de Medicina, Instituto Politecnico Nacional, Mexico, D.F.

Conservation medicine: health connects all species. School of Veterinary Medicine, Universidad Andres Bello, 6 October 2004, Santiago, Chile.

Conservation medicine, sentinel species and ecological health. Department of Forestry and Natural Resources, Pontificia Universidad Catolica, 27 September 2004, Santiago, Chile.

Health issues of sea turtles: a conservation medicine approach. Münchener Tierärztliche Gesellschaft (Veterinary Society of Munich), Veterinary Faculty of the Ludwig Maximilians Universität, 2 June 2004. Munich, Germany.

Conservation medicine: Evaluating the ecological health of marine ecosystems. Universidad de Colima, Facultad de Ciencias Marinas, 22 April 2004, Manzanillo, Colima, Mexico.

Ecological health and Toxification: How are we connected to this environmental crisis. Earth Day, Fundacion Ecologica de Manzanillo, A.C. 22 April 2004, Manzanillo, Colima, Mexico.

Manatees (*Trichechus manatus*) as sentinels of marine ecosystem health in the Caribbean Sea: are they the 2000-pound canaries? 6 April 2004. Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela.

Conservation medicine: examining marine ecological health. 5 April 2004. College of Veterinary Medicine, St. George's, Grenada.

Conservation medicine and ecological health: new strategies for the diagnosis on emerging diseases. Keynote speaker. IMSS XXIII Jornadas de Químicos Clínicos, Hospital de Infectologia, Centro Medico Nacional "La Raza", 21-23 April 2004, Mexico, D.F.

Emerging diseases and global climate change. 9 March 2004. Centro de Investigaciones Genómicas, Instituto Politecnico Nacional, Reynosa, Tamaulipas, Mexico.

Conservation medicine: ecological health in practice. 8 March 2004. Facultad de Ciencias Biológicas, Universidad Autonoma de Nuevo León, Monterrey, Mexico.

Emerging infectious diseases of wildlife and global climate change. 14 October 2003. Escuela Nacional de Ciencias Biológicas, Instituto Politecnico Nacional, Mexico, D.F.

WNV south of the border and ecological consequences on pathogen emergence. 25 September 2003. Seminario Interinstitucional de la Delegación Toluca de la AMMVEE, Toluca, Mexico.

Global Environmental Change and Emerging Diseases of Wildlife. 17 July 2003. SEMARNAT, Dirección General de Fauna Silvestre, Mexico, D.F.

Conservation Medicine: Ecological Health in Practice. Clinica Veterinaria Kelvar/Wildlife Trust. 30 January 2003. Centro Cultural Mexiquense, Toluca, Mexico.

Conservation Medicine and West Nile Virus south of the border: ecological and epidemiological consequences of an emerging disease. West Nile Virus Wildlife Health Workshop. 5-8 February 2003, Smithsonian Environmental Research Center, Annapolis, MD.

Conservation Medicine: Ecological Health in Practice. 2 December 2002. Department of Fisheries and Wildlife Biology. Colorado State University, Fort Collins.

Emerging Infectious Diseases of Wildlife: Ecological Function and Pathogen Pollution. 10 September 2002. SEMARNAT, Dirección General de Fauna Silvestre, Mexico, D.F.

Sea Turtles as Sentinels of Marine Ecosystem Health. 27 August 2002. National Fish & Wildlife Foundation, Washington, D.C.

Conservation Medicine: Linking Ecosystem, Human, and Animal Health in the Amazon Rainforest. 15 August 2002. Venezuelan Embassy, New York.

Conservation Medicine, sentinel species and ecological health: can we make the connection? 10 April 2002. Institute for Zoo and Wildlife Research. Berlin, Germany.

Conservation Medicine: Ecological Health in Practice. 21 February 2002. Comparative Pathology Seminar Series, Department of Pathobiology, University of Connecticut, Storrs.

Marine Turtle Health: Connecting Science and Policy. 7 February 2002. Marine Biodiversity: Connecting and Protecting our Planet's Treasures. The Nature Conservancy, the Center of Environmental Research and Conservation and the School of International and Public Affairs (SIPA), Columbia University, New York.

Advanced Techniques for the Chemical and Mechanical Restraint of Wildlife. 21 November 2001. Department of Agronomy and Forest Engineering, Pontificia Universidad Católica de Chile, Santiago, Chile.

Conservation Medicine: Ecological Health in Practice. 18 May 2001. Environmental Leaders Forum, Center for Environmental Research and Conservation, Arden Homestead, New York.

Wildlife as Sentinels of Ecological Health: making the connection. 17-18 April 2001. Consultative Group on Biological Diversity Emerging Issue Briefing "Ecological Health: A New Perspective". Washington, DC.

Conservation medicine across borders: ecosystem health in practice. 20 October 2000. Durrell Wildlife Conservation Trust, Jersey, Channel Islands.

Wildlife diseases without borders: conservation medicine and ecosystem health in Latin America. 10-13 October 2000. Tufts Animal Expo 2000 Educational Conference and Trade Show, Boston, Massachusetts.

Conservation Medicine and Wildlife Forensics. 2 August 2000. Instituto Nacional de Ecología, Dirección General de Vida Silvestre, SEMARNAP, Mexico City, Mexico.

The wildlife trade and applied forensic techniques. 1-5 June 1999. 2nd Neotropical Wildlife Protection Meeting, The Humane Society of the United States, San José, Costa Rica.

The role of veterinary medicine in wildlife conservation. Simposio "De Cara al Nuevo Siglo". 5-9 April 1999. UNAM, Cuautitlan Izcalli, Mexico.

Veterinary Medicine and Conservation of Biodiversity: a symposium. 1 March 1999, Department of Zoology, Oxford University, Oxford, England.

Bovine brucellosis and tuberculosis in wild ungulates: emerging diseases or old conditions? 21 December 1998, Institute of Zoo Biology and Wildlife Research, Berlin, Germany.

Disease impacts on the conservation of endangered species: the Hawaiian monk seal and the green turtle as case studies. 3 November 1998, Center for Environmental Research and Conservation, Columbia University, New York.

A review of marine turtle fibropapillomatosis. Pacific Sea Turtle Recovery Plans Implementation Workshop. 3-5 August 1998. National Marine Fisheries Service and Joint Institute for Marine and Atmospheric Research. Pacific University, Honolulu, Hawaii.

Conservation medicine and endangered species. University of the Sea and National Turtle Center, 8 July 1998, Puerto Angel, Oaxaca, Mexico.

Fibropapillomatosis in marine turtles. University of the Sea and National Turtle Center, 7 July 1997, Puerto Angel, Oaxaca, Mexico.

The Hawaiian monk seal health assessment program. Peer Review of the Marine Mammal Health and Stranding Response Program, Office of Protected Resources, National Marine Fisheries Service. 23-25 April 1997, Silver Spring, Maryland.

Disease investigations of wild cervids in U.S. national parks. Nordic Section of the Wildlife Disease Association Meeting. 13-15 June 1996. Tromsø, Norway.

Techniques to prevent the traffic of wildlife. Traffic of Wildlife: round table. XX Congress of the Brazilian Zoological Society. 10-15 March 1996. Cuiaba, Mato Grosso, Brazil.

Diseases of wildlife. XXX Anniversary of the Institute of Tropical Zoology, 11 November 1995, Conference Center "Jesus M. Pacheco", Faculty of Sciences, Central University of Venezuela, Caracas, Venezuela.

Summary of fibropapilloma research findings. Green Turtle Fibropapillomatosis: Epidemiological Research Needs, 9-10 May 1995, Fort Collins, Colorado.

Biology, management, and diseases of the Hawaiian green turtle. Student Chapter of the International Association of Aquatic Animal Medicine. 14 September 1994, Colorado State University, Fort Collins, Colorado.

Management and conservation of sea turtles. Department of Marine Biology Seminars. 17 January 1994, Universidad Autónoma de Baja California Sur, La Paz, Mexico.

Green turtle fibropapilloma: research considerations. Seminar at the Center for Biological Research. 11 January 1994, CIB, La Paz, Baja California Sur, Mexico.

Wildlife-domestic animal interactions: diseases and parasites. Proceedings of the V International Symposium of Wildlife. 28-29 October 1993, Universidad Autónoma de Tamaulipas, Cd. Victoria, Mexico, 38-45.

Biology and diseases of the Hawaiian green turtle. Sea Mammal Research Unit Seminars. 16 July 1993, British Antarctic Survey, Cambridge, England.

Green turtle fibropapillomas: searching for an etiology. Comparative Clinico-Pathology Meeting. 14 July 1993, The Zoological Society of London, England.

Diseases of aquatic birds in North America. Institute of Zoology Seminars. 13 July 1993, The Zoological Society of London, England.

Evaluation of Hawaiian green turtles for potential pathogens associated with fibropapillomas. Green Turtle Fibropapilloma Workshop. 1 March 1993, Gainesville, Florida.

Medical aspects of capture myopathy in wildlife. Educational Symposium of the Students of the American Veterinary Medical Association. 19-21 March 1987, Fort Collins, Colorado.

Effects of pesticides in wild raptors. Abstracts of the 7th Annual Raptor Symposium. 7-8 February 1987, Wildlife and Zoo Medicine Society, Raptor Rehabilitation Center and College of Veterinary Medicine & Biomedical Sciences, Colorado State University, Fort Collins, Colorado.

Toxic substances and wildlife. 7th Annual Wildlife Management Workshop. 27-31 January 1986, Colorado State University, Fort Collins, Colorado.

MEETINGS AS EXPERT, REVIEWER & PANELIST

Sea Turtle Talks Panel Discussion: Impact of COVID-19 Pandemic on Sea Turtle Research and Conservation. 16 September 2021. International Sea Turtle Society Virtual Event.

Pivotal Interfaces of Environmental Health and Infectious Disease Research to Inform Responses to Outbreaks, Epidemics, and Pandemics. Emerging Science for environmental Health Decisions. National Academies of Science, Engineering and Medicine, 8-9 June 2021. Virtual meeting.

Systematizing the One Health Approach in Preparedness and Response Efforts for Infectious Disease Outbreaks: Proceedings of a Workshop. Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine (Reviewer).

Biodiversity Conservation in a One Health Approach: Knowledge Dialogue., IUCN, WCS, France-IUCN Partnership Nature and Development, 27 May 2021. Zoom Webinar

Harnessing the Power of Multi-Omics Capabilities in the Life Sciences and Technology. The National Academies of Sciences, Engineering and Medicine. 27 May 2021 Public Virtual Discussion.

Nobel Prize Summit: Our Planet, Our Future, virtual event. Nobel Foundation, National Academies of Sciences, and Potsdam Institute for Climate Impact Research in partnership with the Stockholm Resilience Centre, Stockholm University, Beijer Institute of Ecological Economics and the Royal Swedish Academy of Sciences, 26-28 April 2021.

Systematizing the One Health Approach in Preparedness and Response Efforts for Infectious Disease Outbreaks: The National Academies of Sciences, Engineering and Medicine. 23-25 February 2021 Virtual Workshop.

NSF Workshop on Predictive Intelligence for Pandemic Prevention (PIPP) Workshop – Pandemic Readiness for Emerging Pathogens (PREP). 16-17 February 2021. Zoom Webinar.

Fish & Wildlife Health Forum: Identifying Common Challenges, Needs, and Solutions. 14-16 November 2018. Association of Fish & Wildlife Agencies. USGS Headquarters, Reston, Virginia.

Presidential Task Force on Wildlife Trafficking Symposium. 28-29 June 2016. National Geospatial Intelligence Agency, Springfield, Virginia.

Ecological Society of America Critical Concepts in Ecology Workshop. 25-26 September 2015. NOAA Campus, Silver Spring, Maryland.

Interspecies Barriers and Zoonotic Disease Emergence Expert Panel. ANTICIPATING the Global Onset of Novel Epidemics (ANTIGONE), European Union. 2-6 September 2013. Universidad Castilla-La Mancha, Toledo, Spain.

2011 GECHH Symposium in partnership with CNR-ISE & CNR-IRSA "Global Environmental Change and Human Health: Healthy Forests for Life", 19-21 September, Verbania, Italy.

National Health and Security Initiative's Connecting Health Organizations for Regional Disease Surveillance (CHORDS), 21-23 April 2011. Foundation Mérieux's Les Pensières Conference Centre, Annecy, France

2010 GECHH Symposium: "Global Environmental Health and Change: Protecting Water Quality", Hamilton, 31 October - 2 November, Hamilton, Canada.

Annual Meeting for H5N1 Highly Pathogenic Avian Influenza Surveillance Activities in Migratory Waterfowl in Mexico Review, 1 September 2009, USDA APHIS Mexico Program, Mexico City.

Newsweek's Third Annual Global Environment Leadership Conference: Energy Independence 2020, 7 April 2009. As a distinguished participant supporting the advisory committee. Ronald Reagan Building and International Trade Center, Washington, DC.

Global Environmental Change and Human Health 1st Scientific Steering Committee Meeting, Earth System Science Partnership, Merida, Mexico, 5-6 December 2008.

Newsweek's Second Annual Global Environment Leadership Conference, 7-8 April 2008. As a distinguished participant supporting the advisory committee. Georgetown University, Washington, DC.

EcoHealth Conference Planning Team Meeting. 29-30 January 2008. Served as representative of the International Association for Ecology and Health. Cuernavaca, Mexico.

Binational Meeting for Avian Influenza Activities Review, 13 September 2007, Direccion General de Vida Silvestre, SEMARNAT, Mexico, D.F.

Moderator, Breakup Section on Lethal and Detrimental Effects of Contaminants in Wildlife, Wildlife Toxicology Workshop, 13-15 March 2007, National Museum of Natural History, Smithsonian Institution, Washington, D.C.

Panel on the Health of the Oceans, 7th National Conference on Science, Policy, and the Environment: Integrating Environment and Human Health, 1-2 February 2007, Washington, D.C.

Improving graduate curricula in conservation biology in Bolivia. Wildlife Trust Alliance, Biota and McArthur Foundation, 30 October- 3 November 2006, La Paz, Bolivia.

Pollinator Symposium. 18 October 2006, Coevolution Institute, Washington, DC

North American Pollinator Protection Campaign (NAPPC) Meeting, 19-20 October 2006, Washington, DC.

Symposium of Scientific Collaboration with the Consortium for Conservation Medicine and the Chinese Academy of Sciences at East China Normal University. 13-15 June 2006, Shanghai, China.

FAO/OIE International Scientific Conference on Avian Influenza and Wild Birds, 30-31 May 2006, FAO Headquarters, Rome, Italy.

New Zealand Center for Conservation Medicine: a strategic meeting to implement ecological health in New Zealand. Auckland Zoo, Unitec and New Zealand Department of the Environment. 4 July 2005, Auckland, New Zealand.

Center for Conservation Medicine in Italy: a strategic meeting to implement conservation medicine in Europe. Università degli Studi di Napoli Federico II, BioParco Zoo Roma and Wildlife Trust. 26 April 2005. Naples, Italy.

Emerging Infectious Disease and Socioecological Systems: Integrating social science methods and ecosystem approaches to improve infectious disease research in the Asia-Pacific Region. Leptospirosis Panel. Asia-Pacific Institute of Tropical Medicine and Infectious Diseases, East-West Center, University of Hawaii, 9-11 March 2005, Honolulu, Hawaii

EcoHealth Journal Editorial Board Meeting, East-West Center, University of Hawaii, 7-8 March 2005, Honolulu, Hawaii

Loggerhead Turtle Workshop, Western Pacific Regional Fishery Management Council Meeting, 2 March 2005, Honolulu, Hawaii

Exploring the etiology of fibropapillomatosis using Bayesian Belief Networks., 28 February-1 March 2005, Honolulu, Hawaii

Population-Environment Research Network (PERN) Internet-based cyberseminar "Urban Expansion: The Environmental and Health Dimensions". 29 November-17 December 2004. Center for International Earth Science Information Network (CIESIN), Earth Institute, Columbia University.

11th Regular Session of the Commission for Environmental Cooperation Council and the North American Agreement for Environmental Cooperation, North America Free Trade Agreement, 21-23 June 2004. Puebla, Mexico.

Scientific Technical Multidisciplinary Working Group to Address Contingencies of the Monarch Butterfly, 17 November 2003. PROFEPA/SEMARNAT, Mexico City, Mexico.

Binational Meeting of Wildlife Health Mexico-USA, USDA, SEMARNAT, SAGARPA, CONASA, INIFAB, SALUD, PAHO/WHO, CDC. 17-19 November 2003, Maria Isabel Sheraton Hotel, Mexico City, Mexico.

Working meeting PROFEPA-SEMARNAT on the health and disease diagnostic situation of dolphins from Salomon Islands brought to Parque Nizuc, 17-18 October 2003. Cancun, Mexico.

Scoping Conference for the Swiss Refunded project to Develop Climate Change and Health Scenarios. CHGE, UNDP, WHO, PAHO, UNEP, MA, NKGCF and Bio-ERA. 8-9 September 2003. United Nations Secretariat, New York, NY.

Biosecurity law for the country and the need to establish, regulate and enforce guidelines for the creation of BSL-3 laboratories in Mexico. House of Representatives, 6 August 2003. Mexico City.

International Seminar Health of the Environment: Healthy Ecosystems, Healthy Biodiversity and Healthy People. Center for Russian Environmental Policy. 8-12 June 2003. White Oak Plantation, Florida.

Global Change and Health Meeting. 27 February-1 March 2003. Earth System Science Partnership: DIVERSITAS, IGBP, IHDP, WCRP, START, and Institut Français de la Biodiversité, Paris, France.

West Nile Virus Wildlife Health Workshop. 5-8 February 2003, Smithsonian Environmental Research Center, Annapolis, MD.

Disease Risk Workshop III, 28 June - 1 July 2001. White Oak Plantation, Yulee, Florida.

Ecotourism and Xcacel-Xcacelito as Sea Turtle Protection Area. 13-25 March 2001. Secretary of Environmental Impact, National Institute of Ecology, Mexico DF.

Sea Turtle Cold Stunning Workshop. 1-2 November 2000. National Marine Fisheries Service, Northeast Fisheries Science Center, Woods Hole, Massachusetts.

Sea Turtle Health Assessment Workshop II. 14-15 September 2000. Dixie Plantation, Charleston, South Carolina.

Hawaiian monk seal health studies: a workshop. 11-12 September 2000. Hubbs Sea World, San Diego, California.

Specialties in Wildlife Medicine: a round table. 2-6 August 1999. III Congress and VIII Encounter of the Brazilian Association of Wildlife Veterinarians. Sao Pedro, SP, Brazil.

Badger Workshop. 24-26 February 1999, Wildlife Conservation and Research Unit, Department of Zoology, Oxford University, Oxford, England.

Marine Mammals and Contaminants. September 1998, National Marine Fisheries Service, Keystone, Colorado.

Pacific Sea Turtle Recovery Plans Implementation Workshop. 3-5 August 1998, National Marine Fisheries Service and Joint Institute for Marine and Atmospheric Research. Pacific University, Honolulu, Hawaii.

Monk Seal Captive Care Review Panel. 1-4 June 1997. East-West Center, University of Hawaii-Manoa. National Marine Fisheries Service, SFSC, Honolulu Laboratory, Honolulu, Hawaii.

Rehabilitation of Juvenile Hawaiian Monk Seals Workshop. 11-12 October 1995. National Marine Fisheries Service, Southwest Fisheries Science Center, Honolulu Laboratory, Honolulu, Hawaii.

Measuring and Monitoring Forest Biological Diversity: the international network of biodiversity plots -an international symposium. 23-25 May 1995. SI/MAB Biodiversity Program, Smithsonian Institution, S. Dillon Ripley Center, Washington, D.C.

Green Turtle Fibropapillomatosis: Epidemiological Research Needs Workshop. 9-10 May 1995. National Marine Fisheries Service, Colorado State University, and Centers for Disease Control. Fort Collins, Colorado.

National Symposium on Brucellosis in the Greater Yellowstone Area. 26-28 September 1994. Greater Yellowstone Interagency Brucellosis Committee, Jackson Hole, Wyoming.

FDA Working Group on Quality Assurance in Aquaculture Production. 14-15 June 1994. National Biological Survey, National Fisheries Research Center, Washington, DC.

Longline Fishery-Sea Turtle Interactions Workshop. 24-25 May 1994. NOAA National Marine Fisheries Service, Office of Protected Resources, Silver Spring, Maryland.

1st National Meeting of Integration of LOICZ Project in Mexico. The International Geosphere-Biosphere Programme. 26-27 April 1993. CIB, La Paz, Baja California Sur, Mexico.

Game Ranching Workshop. 25-26 March 1992. Colorado Division of Wildlife, Westminster, Colorado.

SYMPOSIA, COURSES & WORKSHOPS ORGANIZED

North America One Health University Network Inaugural Meeting, 7-8 August 2024. Colorado State University, Fort Collins, Colorado (10 h).

Biodiversity Loss, Zoonotic Diseases, and Climate Change Workshop. Teach Global Health 2023 Summer Institute for Curriculum & Course Design and Assessment, 20-23 June. Allegheny College, Meadville, Pennsylvania (3 h).

Why Climate Literacy & Civic Skill Building Will Solve the Climate Crisis - Answers from Civil Society, Educators, and Governments Roundtable, Earthday.org, COP26, Glasgow, Scotland, 5 November 2021 (4 h).

Sea Turtle Medicine and Rehabilitation Workshop, 6th National Sea Turtle Meeting- Present Threats: Incidental Fisheries and Plastic, State Committee for the Protection, Investigation, Conservation and Management of Sea Turtles in Quintana Roo, Mexico (4 h)

The Elephant in the Room: Raising up corruption on the conservation agenda Symposium. IUCN World Conservation Congress, Marseille, France, 3-11 September 2021 (1.5 h)

The Future of Planetary Health Education Panel. Planetary Health for All: Bridging communities to achieve the Great Transition. 4th Planetary Health Annual Meeting and Festival Side Event, virtual. 25-30 April 2021, Sao Paulo, Brazil (2 h)

Research to Action: Science & Solutions for a Planet Under Pressure. National Council for Science and the Environment and Project Drawdown, 5-9 January 2021, virtual conference.

Pre-Congress Course on Emerging Infectious Diseases of Animals. 11th International Veterinary Congress UPAEP, 22 October 2019, Universidad Popular Autónoma del Estado de Puebla, Mexico (5 h).

1st Workshop on Medicine and Rehabilitation of Sea Turtles. 5th National Meeting of Sea Turtles in Mexico and 2nd International Meeting of Sea Turtles in the Eastern Tropical Pacific, 1-4 October, Morelia, Michoacan (4 h).

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 27 September 2019. Athens, Georgia.

NSF-NIH-USDA RCN Macroecology of Infectious Disease Special Symposium: Pathogens Gone Global - Disease Ecology and Evolution in a Changing World, 26 September 2019, Duke University, Durham, North Carolina.

International Biodiversity Network Inaugural meeting. Wildlife Trust Alliance, 13-16 June 2019. Panama City, Panama.

EcoHealthNet Workshop: Emerging Threats to Global Health, 2-8 June 2019. College of Science, George Mason University, Fairfax, VA

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 1-4 May 2019. Athens, Georgia.

George Mason University-National Science Foundation Conference on Disrupting Operations of Illicit Supply Networks. Antiquities/Wildlife/Organ Trafficking Roundtable Moderator. March 25-26. Schar School of Policy and Government, Arlington, VA.

Regional Consultation: Innovations to Address Food Loss and Waste in a North American Context. 4th United Nations Environment Assembly (UNEA-4), with UN Association Canada and the National Council for Science and the Environment, 22 January 2019, George Mason University Hub, Fairfax.

Council of Environmental Deans and Directors (CEDD). 2019 Winter Meeting, 7 January, NCSE, Washington DC. Institutional Representative.

National Council for Science and the Environment. 2019. Sustainable Infrastructure & Resilience. 7-10 January, Washington DC. Institutional Representative.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 1-4 October 2018. Athens, Georgia.

Council of Environmental Deans and Directors (CEDD). 2018 Winter Meeting, 21-22 January, NCSE, Crystal City, VA. Institutional Representative.

National Council for Science and the Environment. 2018. The science business, and education of sustainable infrastructure: building resilience in a changing world. 23-25 January, Crystal City, VA. Institutional Representative.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 10-13 October 2017. Cary Institute for Ecosystem Studies, Millbrook, New York.

Aguirre, A.A. 2017. Health, Diseases and Diagnostic Techniques in Marine Mammals: A case study with a dwarf sperm whale (*Kogia sima*) neonate. Marine Mammal Stranding Network of Sinaloa, 23 September, Culiacan. Council of Environmental Deans and Directors (CEDD) 2017 Winter Meeting, 27 January, NCSE, Crystal City, VA. Institutional Representative.

Morin X., A.A. Aguirre, and L. Kahn. 2017. One Health: A Transdisciplinary Discussion. Symposium and Workshop at the 17th National Conference and Global Forum on Science, Policy and the Environment: Integrating Environment and Health. National Council for Science and the Environment, 24-26 January, Hyatt Regency Crystal City, VA.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 4-7 May 2016. Athens, Georgia.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 2-4 November 2015. Athens, Georgia.

Conservation medicine: Connecting human, wildlife and ecological interfaces related to emerging infectious diseases. National School of Advanced Studies-Morelia (ENES Morelia), Research Institute of Ecosystems and

Sustainability (IIES) and Ecology Institute of the National Autonomous University of Mexico (UNAM), 12-14 October 2015, Morelia, Mexico.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 23-26 May 2015. Athens, Georgia.

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 2-5 November 2014. Athens, Georgia.

Session on Climate, Ecosystems and Biodiversity. Coordinated by the Convention on Biological Diversity (CBD) and GMU Department of Environmental Science and Policy. International Symposium on Weather and Climate Extremes, Food Security and Biodiversity, 20-24 October 2014, George Mason University, Fairfax, Virginia, USA

Nordic NOVA Zoo, Wildlife and Conservation Medicine Course. Nordic NOVA University Network. 4-14 August 2014, Skibbølt, Norway. (2 weeks online, 2 weeks on site).

RCN EcoHealthNet 2014 Workshop: Epidemiology and Management of Infectious Diseases in Wildlife. Co-PI with P. Daszak, J. Epstein et al. 15-20 June, Smithsonian-Mason School of Conservation, Front Royal, Virginia.

Advancing the Mentorship of Academic-Year Governor's School (AYGS) Student Research Across VA: Teacher Professional Development. STEM 600: Mentoring Methods for Teaching Gifted Learners 23-27 June 2014, Smithsonian-Mason School of Conservation, Front Royal, Virginia

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 11-14 May 2014. Athens, Georgia.

Pathways to Collaborative Action: Transforming Agricultural and Food Systems, UNEP-Eco Agriculture Partners-Mason College of Science, 3-6 December 2013, Smithsonian-Mason School of Conservation, Front Royal, Virginia.

Managing Infectious Disease in Conservation Programs. Co-Director and Instructor. Durrell Wildlife Conservation Trust, 28 September-1 October 2013. Jersey, Channel Islands, U.K. (40 h).

NSF RCN Macroecology of Infectious Disease. Training/Research Grant. Co-PI with P. Stephens, S. Altizer, R. Poulin, and K. Smith. First studies quantifying and exploring the drivers of global scale patterns of pathogen biodiversity. 3-6 October 2013. Athens, Georgia.

2013 ANTIGONE One Health Course. ANTICIPATING the Global Onset of Novel Epidemics, European Union. 16 September-4 October 2013, IREC, Ciudad Real, Spain.

New Directions in Conservation Medicine: Connecting Systems, Disciplines and Stakeholders for Ecological Health in Practice. 26th International Congress for Conservation Biology. Society for Conservation Biology, 23 July 2013. Baltimore, Maryland

NITLE Symposium. The Smithsonian-Mason School of Conservation: A Collaborative Case Study on emerging Trends in Higher Education. 15 April 2013. Emory Center, Atlanta, Georgia

Bi-national Meeting in Conservation Medicine: Costa Rica-Mexico. Escuela de Biología. Universidad de Costa Rica, 25 February 2013, San Jose, Costa Rica (12 h).

International Symposium in Conservation Medicine and Book Presentation: New Directions in Conservation Medicine: Applied Cases of Ecological Health, UAEM, 21 September 2012, Toluca, Mexico (6 h).

Conservation Medicine Seminar and Book Presentation: New Directions in Conservation Medicine: Applied Cases of Ecological Health, Faculty of Veterinary Medicine, UNAM, 20 September 2012, Mexico D.F. (4 h).

Managing Infectious Disease in Conservation Programs. Co-Director and Instructor. Durrell Wildlife Conservation Trust, 10-14 September 2012. Jersey, Channel Islands, U.K. (40 h).

First Regional Workshop on Seagrass Biology, Taxonomy, and Threats: Implications to Sea Turtle Foraging Ecology and Conservation. Director and Instructor. CIIDIR-IPN Unidad Sinaloa-Grupo Tortuguero-George Mason University. 21 June 2012, Guasave, Sinaloa, Mexico (10 h).

Emerging Infectious Diseases and Endangered Species. Co-Director and Instructor. Durrell Wildlife Conservation Trust, 31 October to 4 November 2011. Jersey, Channel Islands, U.K. (40 h).

One Health Alliance of South Asia (OHASA): Predicting and Preventing the Next Emerging Disease on the Indian Subcontinent, Rockefeller Foundation. 1st International One Health Congress. 15 February 2011, Melbourne Convention Centre, Victoria, Australia.

Sea Turtle Conservation Medicine and Health Workshop. XIII Sea Turtle Conservation Group, 28-30 January 2011, La Paz, Baja California Sur, Mexico (8 h)

Trilateral Meeting of the Canadian, Mexican, and United States Wildlife Veterinary and Conservation Medicine Non-Profit Organizations: CAWV-AAWV-Kalaan Kab, 24-25 October 2010, South Padre Island, Texas.

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 13-15 September 2010, La Paz, Bolivia (20 h)

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 23-25 August 2010, Bogota, Colombia (20 h)

Conservation of Highly Endangered Monk Seals & Wildlife Trust and Other Efforts to Refine Conservation Research, Stewardship, and Education. Outreach and Educational Programs in Latin America. Envirovet Aquatic Wildlife and Ecosystem Health. 16-18 July 2010. Florida Atlantic University's Harbor Branch Oceanographic Institution, Fort Pierce, Florida, USA.

Training Workshop EcoHealth and Conservation Medicine: Towards One Health? Universidad Autonoma Metropolitana- Unidad Xochimilco, 28 June to 3 July 2010, Mexico City. (43 h).

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 25-27 June 2010, Mexico, D.F. (20 h)

Wildlife Diseases in Latin America: Past, Present and Future Research and Funding Opportunities. 59th Annual International Conference of the Wildlife Disease Association Experiences and Challenges for Wildlife Disease Monitoring in Latin America Symposium, 30 May to 4 June, Puerto Iguazu, Argentina (6 h), p. 225.

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 25-27 May 2010, Sao Paulo, Brazil (10 h)

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 18-20 May 2010, Caracas, Venezuela (10 h)

Surveillance and Prevention of Emerging Infectious Diseases from Wildlife. USAID PREDICT - Wildlife Trust, 3-4 May 2010, Mexico City, Mexico (10 h)

XII Conservation and Management of Wetlands in Mexico Workshop, 3-16 February 2010. Instituto de Ecologia, Guanajuato, Mexico (100 h).

Conservation Medicine II Module, 28-29 November 2009. Ph.D. Course & Certificate Course in Ecosystem Health, Doctorate in Conservation Medicine, College of Veterinary Medicine, Universidad Andres Bello, Santiago de Chile (24 h).

Inaugural Meeting of the South Asian Transboundary Conservation Medicine-One Health Network, 4-6 November 2009. Wildlife Trust, The India Institute of Science and Rockefeller Foundation, Sinclair Resorts, Dooars at Chalsa, Jalpaiguri District, West Bengal, India.

Sea Turtle Conservation, Management and Medicine Workshop. 17 October 2009. Grupo Tortuguero de Las Californias, Hotel Pueblo Bonito, Cabo San Lucas, Baja California Sur, Mexico (16 h)

2nd Conservation Medicine and Marine Mammals Workshop -Conservation Medicine and Marine Mammals: Linking Ecological and Public Health. 10 October 2009. Quebec City Convention Centre, Quebec, Canada (8 h)

2nd International Seminar of Clinical and Biological Management of Wildlife: Conservation Medicine and Ecology of Infectious Diseases. 24-26 September 2009. Auditorio de la Universidad CES, Medellin, Colombia (24 h)

Sea Turtle Conservation, Management and Medicine Workshop. 24-25 July 2009. Grupo Ecologista Nayarit, AC, Guayabitos, Nayarit, Mexico (16 h)

Conservation of Highly Endangered Monk Seals & Wildlife Trust and Other Efforts to Refine Conservation Research, Stewardship, and Education. Outreach and Educational Programs in Latin America. Envirovet Aquatic Wildlife and Ecosystem Health. 17-19 July 2009. Florida Atlantic University's Harbor Branch Oceanographic Institution, Fort Pierce, Florida, USA.

Marine Mammals and Sea Turtles as Sentinels of Ecological Health. MarVet: Marine and Conservation Medicine Course, 14-16 July 2009. Xcaret, Quintana Roo, Mexico.

2nd Marine Mammal and Sea Turtle Necropsy Workshop, 23-24 April 2009, Agua Clara, Cuba (16 h).
Wildlife surveillance and early detection systems for highly pathogenic H5N1 avian influenza and contingency response to unusual mortality events of migratory waterfowl. APHIS-DUMAC-CIIDIR-Wildlife Trust. 6 March 2009, Guasave, Sinaloa, Mexico (8 h)

Wildlife surveillance and early detection system for highly pathogenic H5N1 avian influenza and contingency response in wild migratory birds and their habitats. APHIS-DUMAC-Wildlife Trust. 27 February 2009, Veracruz, Veracruz, Mexico (8 h)

Wildlife surveillance and early detection system for highly pathogenic H5N1 avian influenza and contingency response in wild migratory birds and their habitats. APHIS-DUMAC-Universidad de Chihuahua-USFWS-Wildlife Trust. 13 February 2009, Guadalajara, Jalisco, Mexico (8 h)

Sea turtles and human health. Workshop at the 11th Meeting of Grupo Tortuguero de las Californias. 30 January-1 February 2009, Loreto, Baja California, Mexico (4 h)

Biodiversity and Health: A new paradigm linking conservation medicine, ecosystem sustainability and human health. Workshop organized at the NCSE 9th National Conference on Science, Policy and the Environment. Biodiversity in a Rapidly Changing World, 8-10 December 2008, Crystal City, VA.

National Council for Science and the Environment. 2008. 9th National Conference. Biodiversity in a Rapidly Changing World, 8-10 December, Washington, DC. Member of the Planning Committee

EcoHealth Forum 2008, 1-5 December, Merida, Yucatan, Mexico. Served in Program Scientific Committee Core Group; coordinated workshops and symposia. Served as the Oceans and Health session moderator.

1st Caribbean Sea Turtle Ecology, Health and Conservation Workshop, Sea Turtle Conservation Bonaire, 14-17 October 2008, Kralendijk, Bonaire, Netherlands Antilles (40 hr).

Training Workshop for Specialized Technicians in Wildlife Management: Migratory Bird Management, organized by CEDES, CCOTEVSES and Universidad Autonoma de Chihuahua, 8-12 October 2008, Hermosillo, Sonora (32 hr).

1st International Conference on the Ecology of Emerging Diseases and Conservation Medicine, Faculty of Veterinary Medicine, UNAM, Mexican Association of Conservation Medicine Kalaan Kab and Wildlife Trust, 20-22 August 2008, Mexico, D.F. (24 hr).

Best Practice in Impact Assessment: systemic approaches to biodiversity in SEA and IHA, Second International Conference on Health & Biodiversity (COHAB2008) Satellite Workshop, 29 February, Galway, Ireland (6 h).

Sea turtles as sentinels of ecosystem health: health evaluation, necropsy techniques and diseases. Conference workshop at the 28th Annual Symposium on Sea Turtle Biology and Conservation. 18-26 January, Loreto, Baja California, Mexico (4 h).

Emerging diseases and Other Health Issues in Avian Populations: A hands-on approach to surveillance, Life Sciences, Rutgers University, 6 December 2007 (8 h).

Conservation Medicine and Marine Mammals: Addressing Ecological health of the Oceans. 17th Biennial Conference on the Biology of Marine Mammals, 28 November 2007, Cape Town, South Africa (12 h)

Sentinel Species and Ecosystem Health Program: A Symposium from all parties. 1-2 November 2007, CONANP-INE-IPN-University of California-Wildlife Trust, Ensenada, Baja California, Mexico (16 h).

Conservation Medicine Workshop: A Global Perspective, XXIV AZCARM Congress, 15-18 October 2007, Xcaret, Quintana Roo, Mexico (8 h)

Wildlife surveillance and early detection system for highly pathogenic H5N1 avian influenza in wild migratory birds: third conservation medicine workshop. 25-29 August 2007 (24 h).

Sea Turtle Nest Monitoring, Health Assessment and Management Workshop, Wildlife Trust & Wildlife Conservation Society, Gales Point, Belize (16 h)

Monitoring of emerging diseases in the marine environment -truth and consequences: interactive course. 1st International Encounter of Conservation Medicine. 18-21 July, Vitoria, Espiritu Santo, Brazil (8 h).

Projects in conservation medicine developed in Latin America: round table. 1st International Encounter of Conservation Medicine. 18-21 July 2007, Vitoria, Espiritu Santo, Brazil.

Oceans and Health Symposium. 1st International Encounter in Conservation Medicine. 18-21 July 2007, Vitoria, Espirito Santo, Brazil. (8 h)

Wildlife surveillance and early detection system for highly pathogenic H5N1 avian influenza in wild migratory birds: two conservation medicine workshops. 9-16 July 2007, Instituto de Pesquisas Ecologicas, Nazare Paulista, Sao Paulo, Brazil. (24 h each)

Training Workshop on Conservation Medicine and Health Assessment of Sea Turtles, 31 March 2007, CIIDIR, IPN, Guasave, Sinaloa, Mexico (12 h)

Waterfowl Contingency Plan and Avian Influenza Training Course, Ducks Unlimited de Mexico, A.C., 16-18 February 2007. Celestun, Yucatan, Mexico. (16 h)

Sea Turtles and Human Health Workshop. 9th Annual Sea Turtle Conservation Group of Las Californias, 26-28 January 2007, Loreto, Baja California Sur, Mexico (4 h).

Surveillance and Monitoring of Avian Influenza in Wild Birds Workshop, 6-7 November 2006, CIAD, Hermosillo, Sonora, Mexico (12 h)

Contingency Management and Response on the Health of Aquatic Waterfowl and their Habitats Training Workshop, 26-27 October 2006, Centro de Biologia Experimental, Universidad Autonoma de Zacatecas, Mexico (15 h).

Surveillance and Monitoring of Avian Influenza in Wild Birds Workshop. 9-10 October 2006, Universidad Autonoma de Sinaloa, Culiacan Mexico (14 h)

Surveillance and Monitoring of Avian Influenza in Wild Birds Workshop. 2 October 2006, Secretaria del Trabajo y Prevision Social, Baja California Sur, Mexico (12 h).

Marine Veterinary Program -MarVet: Sea Turtle and Conservation Medicine Workshop. 30 July- 5 August 2006, Ostional National Wildlife Refuge, Costa Rica. (16 h).

First Conservation Medicine Course: Strategies for Prevention of Emerging Diseases in Humans, Wildlife and Ecosystems. Aula Magna, UAEM, 20-22 June 2006, Toluca, Mexico (24 h).

Instructor, 8th Management Course of Flora and Fauna in Captivity for Latin America: The Global Amphibian Crisis: coordinating efforts for their conservation in Latin America. 22-26 May 2006, Africam Safari, Valsequillo, Puebla, Mexico (8 h).

Co-Chair, Session on Avian Influenza at the XI Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT's Mexican Wildlife Service. 15-19 May 2006, San Diego, California (12 h).

Contingency Management and Response on the Health of Aquatic Waterfowl and their Habitats Training Workshop, 23-24 November 2005, Facultad de Medicina Veterinaria y Zootecnia, UAEM, Toluca, Mex (23 h).

Chair, Systemic Approaches to Population Health. COHAB 2005 - the First International Conference on the Importance of Biodiversity to Human Health, 23-25 August, Galway, Ireland.

Plenary Session in Wildlife Diseases at X Annual Meeting of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management, Canadian Wildlife Service, U.S. Wildlife Service and SEMARNAT's Mexican Wildlife Service. 26 April 2005, Zacatecas, Mexico (12 h)

Conservation medicine: linking wildlife, ecosystem and human health. 7th Management of Captive Flora and Fauna: Wildlife management and conservation. Africam Safari, ALPZA, AZCARM, Africam Safari, Puebla, Mexico (8h).

Conservation medicine: linking wildlife, ecosystem and human health. Facolta Medicina Veterinaria, Universita degli Studi di Napoli Federico II. 26-29 April 2005 Naples, Italy (8 h)

Training Program on the Management and Contingency Response to Health and Disease of Wild Waterfowl and their Habitats. NAWCA, SEMARNAT, Universidad Autonoma de Chihuahua, IPN and Wildlife Trust. The School for Field Studies, 22-23 February 2005, Bahia Magdalena, Baja California Sur, Mexico (16 h).

Training Program on the Management and Contingency Response to Health and Disease of Wild Waterfowl and their Habitats. NAWCA, SEMARNAT, UAC, Ducks Unlimited of Mexico, IPN and Wildlife Trust. Center for Biotechnological Genomics, 18-19 Feb 2005, Reynosa, Tamaulipas, Mexico (16 h)

Assessing causes of manatee mortality in Cuba and developing conservation actions: workshop on manatee necropsy and marine mammal stranding techniques, Centro de Investigaciones Marinas, Universidad de la Habana, 17-20 January 2005, La Habana, Cuba (24 h).

Global synthesis workshop conservation medicine, ecological health, and poverty: a new paradigm linking ecosystem sustainability with wildlife, domestic animal, and human health (making the case). 3rd IUCN World Conservation Congress, 20 November 2004, Bangkok, Thailand.

Marine Veterinary Program -MarVet: Sea Turtle and Conservation Medicine Workshop. 7-13 August 2004, St. George's University, Grenada, West Indies.

Urban Landscapes, Conservation and the Ecology of Emerging Diseases Symposium, 18th Annual Meeting Society for Conservation Biology, 30 July-2 August, Columbia University, New York.

Conservation medicine: defining the field. 16 April 2004. 7th International Symposium of Pathology and Medicine of Reptiles and Amphibians. Berlin, Germany (3 h)

II Conservation Medicine and Sea Turtle Pathology Workshop. 1-2 April 2004. Wildlife Trust, Provita, Museo Marino de Margarita and GTTM-NE. Boca de Rio, Isla Margarita, Venezuela (16 h).

Wildlife Trust Conservation Committee Meeting. 12-17 February 2004. Loreto and La Paz, Baja California Sur, Mexico.

Sea Turtle Sample Collection, Handling & Processing Workshop. 28 January 2004. CIBNOR, La Paz, Baja California Sur, Mexico (8 h).

Marine Vertebrates as Sentinels of Marine Ecosystem Health in the Californias. 26-27 January 2004. CIBNOR, La Paz, Baja California Sur, Mexico. (8 h)

Health and Diseases of Sea Turtles Workshop. VI Meeting Sea Turtle Group of Las Californias. 23-25 January 2004. San Jose Los Cabos, Baja California, Mexico (4 h).

Wildlife Management and Reproduction Diplomate. 6 October to 12 November 2003. Emerging infectious diseases and global environmental change. Departamento de Biologia de la Reproduccion, Division de Ciencias Biologicas y de la Salud, Universidad Autonoma Metropolitana, Mexico, D.F. (210 hr).

Workshop on Sample Collection, Preservation and Handling for WNV on Crocodilians. 16-17 October 2003. Mexican Association of Crocodile Farmers. ENCB-IPN, Mexico D. F. (16 h)

III International Course on Conservation Medicine: Ecological Health in Practice. 26-30 August 2003. Wildlife Trust and Instituto de Pesquisas Ecologicas, Sao Paulo, Brazil (44 h)

Conservation Medicine and Epidemiology of Amphibian Diseases. RANA, 20-24 June 2003. Rio de Janeiro and Parque Nacional Itatiaia, Brazil. (6 h).

Health and Diseases of Sea Turtles & Human Health Workshop. V Meeting Sea Turtle Group of Las Californias. 24-26 January 2003. Loreto, Baja California, Mexico (8 h).

Wildlife Symposium. 27 November-4 December 2002. Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autonoma de Mexico, Mexico.

Sustainable Use of Wildlife -Potentials and Limitations Round Table. XVIII Pan American Congress of Veterinary Sciences. 18-22 November 2002, Palacio de Convenciones, La Habana, Cuba (4 h).

Course on Manatee Ecology and Conservation Medicine. Centro de Investigaciones Marinas, Universidad de la Habana, Cuba (15 h).

Workshop on Applied Techniques for Health and Disease Monitoring of Sea Turtles. 5-8 September 2002. Center for Coastal Studies, Puerto San Carlos, Bahia Magdalena, Baja California Sur, Mexico (20 h).

Applied Techniques for Health and Disease Monitoring of Sea Turtles. 30 June 2002. Wildlife Trust, Provita, and Grupo de Trabajo de Tortugas Marinas Nueva Esparta. Boca del Rio, Isla Margarita, Venezuela. (10 h)

International Marine Mammal and Sea Turtle Stranding Training Workshop. 25-28 February 2002. Wildlife Trust, National Marine Fisheries Service, Ocean Conservancy, and Universidad Autonoma de Yucatan. Merida, Yucatan, Mexico. (48 h)

II International Course on Conservation Medicine: Ecological Health in Practice. 27 January - 2 February 2002. Wildlife Trust, Center for Conservation Medicine, Humane Society International and Instituto de Pesquisas Ecologicas, Sao Paulo, Brazil (72 h)

Epidemiology, Animal Health and Emerging Diseases: Fauna Australis/Wildlife Trust Seminar, Pontificia Universidad Catolica de Chile, Santiago de Chile, 22 November 2001 (5hr)

Marine Mammal Strandings: Epidemiology, Rehabilitation and Monitoring. Round Table at the 10th Latin American Association of Zoos & Aquaria Congress. Buenos Aires Zoo, Argentina, 12-16 November 2001 (4 h)

Conservation Biology and Medicine Short Course. Aquamarina/Wildlife Trust, Buenos Aires, Argentina, 6-9 November 2001 (12 h)

Conservation Medicine in the New York Bioscape: A Research, Education and Policy Agenda. 5-6 October 2001. Wildlife Trust/Consortium for Conservation Medicine, Tarrytown, New York (21 h)

Conservation Medicine: Elective Course for Veterinary Students. 2-12 April 2001. Tufts University School of Veterinary Medicine, Grafton, MA (70 h)

2001 Wildlife Immobilization and Capture Course. 7 April 2001. Tufts University School of Veterinary Medicine, Grafton, MA (6 h)

Managing Endangered Species Recovery Teams. 11-21 February 2001. Wildlife Trust, Durrell Wildlife Conservation Trust, and Wildlife Preservation Trust Canada. Universidad de Tucuman y Parques Nacionales, Tucuman, Argentina. (120 h)

I International Course on Conservation Medicine: Ecological Health in Practice. 29 January - 9 February 2001. Wildlife Trust, Center for Conservation Medicine, Humane Society International and Instituto de Pesquisas Ecologicas, Sao Paulo, Brazil (120 h)

Marine Vertebrates as Sentinels of Marine Ecosystem Health. 6-8 October 2000. Wildlife Trust/Consortium for Conservation Medicine, Tarrytown, New York (30 h)

VII International Course on Applied Techniques for the Management and Conservation of Wildlife. 31 July-11 August 2000. U.S. Fish & Wildlife Service and College of Postgraduates. Sierra Fria, Aguascalientes, Mexico. Physiologic indices, forensic techniques, diseases, mechanical & chemical restraint of wildlife (16 h)

Managing Endangered Species Recovery Teams. 28 May-8 June 2000. Wildlife Preservation Trust International, Durrell Wildlife Conservation Trust, Wildlife Preservation Trust Canada. Belize Zoo, Conservation Training Center, Belize. (120 h)

Large Whale and Pinniped Stranding Training Workshop. 16-19 March 2000. Wildlife Preservation Trust International, National Marine Fisheries Service, Center for Marine Conservation, Instituto Nacional de la Pesca, and Universidad Autonoma de Baja California Sur. La Paz, BCS, Mexico. (30 h)

Amphibian Population Declines in Latin America: A workshop to design monitoring protocols and data bases. Smithsonian Institution of Tropical Research, The Nature Conservancy, and Círculo Herpetológico de Panamá. Panama. (40 h)

Latin American Workshop on Amphibian Monitoring. 9-12 November 1999. The Nature Conservancy, El Colegio de la Frontera Sur. Chetumal, Quintana Roo, Mexico. (32 h)

Capture and Restraint of Wild Mammals and Reptiles. 2-6 August 1999. III Congress and VIII Encounter of the Brazilian Association of Wildlife Veterinarians. Sao Pedro, SP, Brazil. (10 h)

Conservation Medicine and Wildlife Management Course. 27-30 July 1999. Wildlife Preservation Trust International and Centro para la Conservación de Biodiversidad de Guatemala. Guatemala. (32 h)

Marine Mammal Stranding Response Training Workshop. 1-2 July 1999. Coastal Zone Management Authority and Institute/Wildlife Preservation Trust International/NMFS, Belize City, Belize. (16 h)

VI International Course on Applied Techniques for the Management and Conservation of Wildlife. 19-30 July 1999. U.S. Fish & Wildlife Service, College of Postgraduates and SEMARNAP. Queretaro, Mexico. Physiologic indices, forensic techniques, diseases, mechanical and chemical restraint of wildlife (32 h)

V International Course on Applied Techniques for the Management and Conservation of Wildlife. 17 August to 4 September 1998. U.S. Fish & Wildlife Service and SEMARNAP. Monterrey, Nuevo Leon, Mexico. Physiologic indices, forensic techniques, diseases, mechanical and chemical restraint of wildlife (32 h)

Workshop for the standardization of methodologies for the collection, handling & preservation of tumor specimens in sea turtles. 28 June to 6 July 1998. Mexus Pacifico, National Marine Fisheries Service/National Institute of Fisheries. National Turtle Center, Mazunte, Oaxaca, Mexico (40 h)

Fibropapilloma Workshop. 3-7 March 1998. 18th Annual Symposium on Sea Turtle Biology and Conservation. Mazatlan, Sinaloa, Mexico (3 h)

I Workshop on Forensics Investigations of Marine Mammal Mortalities. 29 July to 1 August 1997. National Marine Fisheries Service Office of Protected Resources. NMFS Charleston Laboratory, Charleston, South Carolina. Epidemiology, forensic techniques and marine mammal strandings (8 h)

IV International Course on Applied Techniques for the Management and Conservation of Wildlife. 23 June to 4 July 1997. U.S. Fish & Wildlife Service, College of Postgraduates and SEMARNAP. Leon, Guanajuato, Mexico. Physiologic indices, forensic techniques, diseases, mechanical & chemical restraint of wildlife (32 h)

III International Course on Applied Techniques for the Management and Conservation of Wildlife. 19-30 August 1996. U.S. Fish & Wildlife Service, College of Postgraduates, UAZ and SEMARNAP. Zacatecas, Mexico. Physiologic indices, forensic techniques, diseases, mechanical & chemical restraint of wildlife (32 h)

Wildlife Capture and Management Course. 12-15 April 1996. International Wildlife Veterinary Services and Institute of Wildlife Pharmacology. Molokai Ranch, Maunaloa, Island of Molokai, Hawaii (24 h)

XX Congress of the Brazilian Zoological Society. 10-15 March 1996. Cuiaba, Mato Grosso, Brazil. Pathology of wild animals (12 h)

VI Latin American Congress of Zoological Parks and Aquaria. 7-8 November 1995. Zoological Park "Miguel Romero Antoni", Barquisimeto, Venezuela. Mechanical and chemical restraint of wildlife (16 h)

III International Biodiversity Measuring & Monitoring Course. 3 September-5 October 1995. Smithsonian Institution Conservation and Research Center, Front Royal, Virginia. Wildlife disease monitoring, forensic techniques, and immobilization of wildlife (20 h)

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