



# 36TH ANNUAL WILDLIFE & EXOTIC ANIMAL SYMPOSIUM

MARCH 6-7, 2021 | VIRTUAL EVENT







# **EXOTICS TRACK**

SATURDAY MAR 6	8:00am 9:00am 10:00am 11:00am	Victoria Joseph, DVM, DABVP [Avian] Falconry Medicine: Soaring to New Heights Thomas Boyer, DVM, DAVBP [Reptile & Amphibian Practice] Turtle & Tortoise Nutrition: The Things We Didn't Know! Grayson Doss, DVM, DACZM Hedgehog Medicine & Surgery: Talk About a Prickly Situation! Charly Pignon, DVM, DECZM [Small Mammal] Ear Surgery in Small Mammals: Do You Hear Me Now?
	NOON	LUNCH
	1:00pm 2:00pm	Claire Grosset, Dr. Med Vet, IPSAV, CES, DACZM Leopard Gecko Medicine: Enlightening Our Perspectives Stephen White, DVM, DACVD Rabbit & Rodent Dermatology Reb Denelog BVSc FANZCVS
	3:00pm 4:00pm	Bob Doneley, BVSc, FANZCVS  Avian Analgesia & Anesthesia: Why Are They Dying?  Danielle Tarbert, DVM  Reptile Diagnostics: Beyond the Minimum Database
	5:30pm	RESIDENT/INTERN PANEL  Erin Berlin (Zoological Medicine), Rachel Ferris (Zoological Medicine), Rob Browning (Zoological Medicine), Megan Moriarty (Free-ranging Wildlife Health), Kyra Berg (Zoological Companion Medicine), Mariana Sosa Higareda (Zoological Companion Medicine)
SUNDAY MAR 7	8:00am	David Guzman, LV, MS, DECZM [Avian, Small Mammal], DACZM  Avian Diagnostic Endoscopy: The Places You Will Go!
	9:00am	Frances Harcourt-Brown, BVSc, FRCVS Rabbit Hemorrhagic Disease: Too Close Fur Comfort
	10:00am	Olivia Petritz, DVM, DACZM  Avian Radiology Cases: What the Duck Am I Looking At?
	11:00am	Scott Stahl, DVM, DABVP [Avian]  Medical & Surgical Management of Dystocia in Snakes:  Achieving A "Safe" Delivery!
	NOON	LUNCH
	1:00pm	Gabriella Flacke, DVM, MVSc, PhD  Disease Risk at the Domestic/Wildlife Interface: The African Wild Dog
	2:00pm	Darren Minier, BS, MAIS & Lynnette Waugh, DVM, DACZM Chytrid Vaccination in Yellow-Legged Mountain Frog
	3:00pm	Jenessa Gjeltema, DVM, DACZM & Esteban Soto, DVM, MSc, PhD, DACVM, CertAqV Koi Exams at the Sacramento Zoo

# ZOO/WILDLIFE TRACK

JRDAY AR 6	8:00am 9:00am 10:00am 11:00am	Sathya Chinnadurai, DVM, MS, DACZM, DACVAA, DACAW Megavertebrate Anesthesia Challenges Linda Penfold, PhD Advanced Reproductive Techniques in Non-Domestic Animals Hayley Murphy, DVM The Great Ape Heart Project Joe Gaydos, VMD, PhD Killer Whale Conservation Medicine
	NOON	LUNCH
	1:00pm 2:00pm 3:00pm 4:00pm	Natalie Mylniczenko, MS, DVM, DACZM  Ultrasounding Elasmobranchs  Lana Krol, DVM  Aging Animal Medicine in Zoos  Meredith Clancy, DVM, MPH, DACZM  Monotreme Medicine  Jamie Peyton, DVM, DACVECC, CVA  Australian Wildlife Response: A Journey During the Bushfires of 2020
		RESIDENT/INTERN PANEL
	5:30pm	Erin Berlin (Zoological Medicine), Rachel Ferris (Zoological Medicine), Rob Browning (Zoological Medicine), Megan Moriarty (Free-ranging Wildlife Health), Kyra Berg (Zoological Companion Medicine), Mariana Sosa Higareda (Zoological Companion Medicine)
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	Disease Risk at the Domestic/Wildlife Interface: The African Wild Dog
2:00pm	Darren Minier, BS, MAIS & Lynnette Waugh, DVM, DACZM
	Chytrid Vaccination in Yellow-Legged Mountain Frog
3:00pm	Jenessa Gjeltema, DVM, DACZM
	& Esteban Soto, DVM, MSc, PhD, DACVM, CertAqV
	Koi Exams at the Sacramento Zoo



Sathya Chinnadurai, DVM, MS, DACZM, DACVAA, DACAW St. Louis Zoo

Dr. Sathya Chinnadurai is a native of St. Louis and completed his DVM, internship and a Master's in Wildlife Biology at the University of Missouri. He then moved to North Carolina State University for residencies in zoological medicine and anesthesia, leading to board certification in the American Colleges of Zoological Medicine, Veterinary Anesthesia and Analgesia, and, recently, Animal Welfare. His interests include clinical teaching, anesthesia and analgesia of all species. Dr. Chinnadurai served as a Clinical Instructor in Zoological Medicine at the University of California at Davis and a Staff Veterinarian at the Sacramento Zoo and senior staff veterinarian at the Chicago Zoological Society's Brookfield Zoo. He is currently the Director of Animal Health at the Saint Louis Zoo which serves to finance his expensive passions for amateur woodworking and raising two amazing daughters.



Meredith Clancy, DVM, MPH, DACZM

San Diego Zoo Safari Park

Meredith M. Clancy is the Veterinary Clinical Operations Manager at the San Diego Zoo Safari Park. A graduate of Texas A&M University, she completed a rotating internship at VCA West LA, followed by an internship at National Aquarium Baltimore, where she also began her MPH at Johns Hopkins, a degree completed during her residency with Wildlife Conservation Society. She is active in AZA, AAZV, and women in science groups, and co-leads the San Diego Zoo Wildlife Alliance Southwest Conservation Hub, also working with the platypus in the Australian Forest Hub.



Gabriella L. Flacke, DVM, MVSc, PhD

Zoo Miami

Dr. Flacke completed her DVM at the University of Georgia, and her MSc in Veterinary Conservation Medicine at Murdoch University in Perth, Australia. Her field research investigated the potential threat of domestic dog diseases to the African wild dog population in South Africa. Her PhD research, based at the University of Western Australia, focused on the pygmy hippopotamus in Taï National Park, Côte d'Ivoire. She currently works at Zoo Miami and serves as the pygmy hippo SSP veterinary advisor.



William Fowlds, BVSc

Wilderness Foundation Africa

Dr. William Fowlds is a wildlife vet who dedicates his time to championing the plight of the rhino and other keystone species through his veterinary and awareness initiatives. He is project coordinator for Wilderness Foundation Africa on the Medivet Saving the Rhino campaign, which has enabled him to increase his work in rescue, education & awareness and prevention of poaching at both protection and demand reduction sides of the crisis. He is a trustee of the Chipembere Rhino Foundation and the African Rhino Conservation Collaboration and strives to encourage a multi-faceted approach to the rhino crisis through increased collaboration and cohesion. He is based out of the Eastern Cape and lives on Amakhala Game Reserve, which he co-founded with several neighbouring families 20 years ago.



Joe Gaydos, VMD, PhD

SeaDoc Society

Joe Gaydos is a Senior Wildlife Veterinarian and the Science Director for the SeaDoc Society, a science-based marine conservation program of UC Davis' Karen C. Drayer Wildlife Health Center. The SeaDoc Society funds and conducts science and uses the information to help educate people about marine resources and help improve management and policy decisions regarding the health of the Salish Sea. Joe has a Doctorate in Veterinary Medicine from the University of Pennsylvania and a PhD from the University of Georgia. For two decades Joe has been working on wildlife and ecosystem health issues in the Pacific Northwest and has co-authored several books on the Salish Sea. He's a science nerd with a passion for all things wild: wildlife, wild places and wild people. When he grows up, he'd like to be a dive master or safari quide.



Jenessa Gjeltema, DVM, DACZM

UC Davis, Sacramento Zoo

Dr. Jenessa Gjeltema is a Board-Certified Specialist in Zoological Medicine and Assistant Professor of Zoological Medicine at the University of California, Davis, School of Veterinary Medicine. She received her DVM and completed a residency in Zoological Medicine at North Carolina State University, and currently serves as the head veterinarian of the Sacramento Zoo.



**Lana Krol, DVM** Steinhart Aquarium

Dr. Lana Krol is a graduate of UC Santa Cruz as well as the University of Illinois College of Veterinary Medicine. After graduation, she completed a one year zoo medicine internship at the Los Angeles Zoo. She has been a clinical veterinarian at the Lindsay Wildlife Museum, Discovery Kingdom, and until recently, the San Francisco Zoo. In 2021, she joined the veterinary team at the Steinhart Aquarium, located at the California Academy of Sciences, as an associate veterinarian. She lives in San Francisco.



**Darren Minier, BS, MAIS** 

Oakland Zoo

Darren Minier's focus is to enhance the welfare of animals in human care and their conservation through effective application and research of behavior management techniques and environmental design. He is the Assistant Director of Animal Care, Conservation, and Research at the Conservation Society of California at Oakland Zoo, a Research Partner for Sonoma State's Primate Ethology Research (SSUPER) Laboratory, and the Vice President of the California Wolf Center, and most recently he was the CIO and Chair of the Research and Evaluation Committee for the Animal Behavior Management Alliance. He is also a frequent contributor and invited lecturer for the Professional Animal Welfare Science (PAWS) platform by AnimalConcepts. Prior to joining the CSC and Oakland Zoo, Mr. Minier oversaw international and zoo-based research programs for the International Institute for Human-Animal Networks in the School of Veterinary Medicine at University of California, Davis and coordinated the development of the animal training program at the California National Primate Research Center. He has also held animal management positions at the Los Angeles Zoo, Sea World San Diego, San Diego Zoo, and Micke Grove Zoo, and consulted nationally and internationally on behavioral and environmental aspects of animal welfare. He is routinely retained by animal advocacy organizations in the assessment of behavioral and environmental welfare measures for wildlife, and providing expert witness testimony in cases of wild animal cruelty, neglect, and mismanagement. He is a currently a member of the International Union for the Conservation of Nature's Bison Specialist Group and the Behavior Scientific Advisory Group (SAG) for the Association of Zoos and Aquariums, and serves several other professional organizations such as the International Primatological Society and the Animal Behavior Society on their captive care committees. Mr. Minier holds a Master's Degree in Zoo and Aquarium Leadership from George Mason University with concentrations in Collections Management and in Administration, BS in Wildlife Conservation Biology with concentration in Behavioral Ecology from UC Davis, and three AS degrees in Exotic Animal Training and Management from Moorpark College in Exotic Animal Management, Behavioral Management, and Wildlife Interpretation.



Hayley Murphy, DVM

Zoo Atlanta

Dr. Hayley Weston Murphy, graduated from Cornell University College of Veterinary Medicine in 1992 and is currently the Deputy Director of Zoo Atlanta. She is a recent graduate of the Executive Leadership Development program of the Association of Zoos and Aquariums (AZA) and is also founder and director of the Great Ape Heart Project, based at Zoo Atlanta and funded by the Institute of Museum and Library Services. Dr. Murphy is a veterinary advisor to the Gorilla Species Survival Plan (SSP) and the Great Ape Taxonomic Advisory group and chair of the Veterinary Advisors for the Association of Zoos and Aquariums Scientific Advisory Group.



Natalie Mylniczenko, MS, DVM, DACZM

Disney

Dr. Natalie Mylniczenko is a staff veterinarian at Disney's Animals, Science and Environment. She is a diplomate of the American College of Zoological Medicine and has a master's degree in veterinary pathobiology. Her research interests vary but focus on elasmobranch medicine and iron storage disease in rhinoceros and dolphins. She is the vet advisor chair for the old-world monkey TAG and the veterinary chair for the Gorilla Rehabilitation and Conservation Education Center (GRACE).



Linda Penfold, PhD

SEZARC

Linda Penfold is Founder and Director of the South-East Zoo Alliance for Reproduction & Conservation and works with aquariums and zoos to help solve breeding problems and works with her team to conduct research to better understand species reproductive biology. Linda works with a diverse range of animals, including elephants and rhinos, as well as sharks and rays and even coral, using a range of different reproductive technologies including artificial insemination, sperm cryopreservation, and endocrinology.



Jamie Peyton, DVM, DACVECC

UC Davis

Dr. Peyton received her veterinary degree from the University of Florida and completed an internship at Texas A&M University. She completed her residency at UC Davis and is board certified in Small Animal Emergency and Critical Care Medicine. Following her residency, she worked in private practice and completed certification in animal acupuncture, rehabilitation, and chiropractic. She returned to the UC Davis School of Veterinary Medicine in 2014 and is a founding member and Associate Director of the UC Davis Center for Advancing Pain Relief. Her clinical and research interests include the recognition and treatment of pain and advancing novel techniques for burn and wound management in all species. She has cared for burn injured domestic animals and wildlife both nationally and internationally. With the overwhelming need to help wildlife affected by wildfires, she became a founding member of the Wildlife Disaster Network. In 2019, Dr. Peyton received the UC Davis Chancellor's Innovation Award for her development of a fish biological bandage and work with burned animals in wildfires.



Julia Ponder, DVM, MPH

University of Minnesota

Julia Ponder is an Associate Professor in Veterinary Population Medicine at the University of Minnesota's College of Veterinary Medicine and former director of The Raptor Center. She brings a strong background in clinical medicine and surgery to her work in wildlife conservation and research. Her focus areas include the health issues at the intersection of raptors and humans, environmental contaminants impacting raptors, and emerging issues related to raptor health and populations.



Jan Ramer, DVM, DACZM

The Wilds

Jan Ramer is the Vice President at The Wilds, a conservation safari park in Ohio. Jan earned her B.S. in Biology from Purdue University then worked as a keeper at the Indianapolis Zoo and the Brookfield Zoo. She earned her DVM from the University of Wisconsin. Jan was associate veterinarian at the Indianapolis Zoo, Regional Manager for the Gorilla Doctors, Director of Conservation Medicine at The Wilds, and is now honored to lead The Wilds team.



Lynnette Waugh, DVM, DACZM

Oakland Zoo

Lynnette is a California native and UC Davis alumni. After vet school in 2012, she did a small animal rotating internship at a private practice in Ventura, California, a zoo internship at the Phoenix Zoo, and a residency at the Oklahoma City Zoo. She worked at Zoo Atlanta for two years and became a diplomate of the American College of Zoological Medicine. When the opportunity presented itself in 2019, she jumped at the chance to return to California as a Senior Veterinarian at the Oakland Zoo, Conservation Society of California.



#### Esteban Soto, DVM, MSc, PhD, DACVM, CertAqV

**UC** Davis

Dr. Esteban Soto is a Board-Certified Veterinary Microbiologist, and a Professor of Aquatic Animal Health at the University of California, Davis, School of Veterinary Medicine. He received his DVM from Universidad Nacional, Costa Rica, his Master's degree from Mississippi State University, and a PhD from Louisiana State University. His main research interests are the pathogenesis of important infectious diseases of aquatic animals and the development of best management strategies for prevention and treatment of these diseases.



#### Thomas Boyer, DVM, DABVP [Reptile & Amphibian Practice]

Pet Hospital of Penasquitos

Dr. Boyer earned his DVM from Colorado State University in 1989. Dr. Boyer cofounded the Association of Reptilian and Amphibian Veterinarians in 1991 and served as editor for the Journal of Herpetological Medicine and Surgery for 18 years. Dr. Boyer helped establish, and became one of the first ABVP diplomats, in Reptile and Amphibian Practice, in 2011. Dr. Boyer owns the Pet Hospital of Penasquitos in San Diego where he treats a diverse reptile caseload.



#### **Bob Doneley, BVSc, FANZCVS**

University of Queensland, Australia

Dr. Doneley received his Bachelor of Veterinary Science at the University of Queensland, Australia in 1982. Following graduation he worked as an associate veterinarian and in 1988 opened his own private practice called West Toowoomba Veterinary Surgery. Through giving talks, attending conferences, and private study, he nurtured and refined his interest in avian medicine. He became Queensland's first bird medicine specialist in 2003 when he received his Fellowship of the Australian and New Zealand College of Veterinary Scientists. Not long after, he received the College Prize by the Australian College for his brilliant veterinary contributions. After selling his practice in 2010, he took the role of Head of Small Animal Services, Veterinary Medical Centre at the University of Queensland, Gatton. In 2015, he was awarded the Meritorious Service Award from the Australian and New Zealand College of Veterinary Scientist. Dr Doneley is now a Professor and Head of the Avian and Exotic Pet Service at the University of Queensland. In 2018 he was awarded rge TJ Lafeber Award "Avian Veterinarian of the Year" He has published numerous papers in veterinary journals, two textbooks, and chapters for ten other textbooks about bird medicine. Undergraduates, veterinary students, and residents all benefit from Dr. Doneley's extensive knowledge through lectures and training. His hobbies include aviculture and Australian military history. He attributes his successful career to the love, patience, and support of his wife and two children.



**Grayson Doss, DVM, DACZM** 

University of Wisconsin-Madison School of Veterinary Medicine

Dr. Grayson Doss received his DVM from Louisiana State University and completed a residency in zoological medicine and surgery at the University of Wisconsin-Madison School of Veterinary Medicine, the Milwaukee County Zoo, and the International Crane Foundation. Dr. Doss is currently a clinical assistant professor of zoological medicine at the University of Wisconsin-Madison.



Claire Grosset, Dr. Méd Vét, IPSAV, CES, DACZM

Université de Montréal

Dr. Grosset earned her veterinary degree in 2008 at the School of Veterinary Medicine in France. Following her graduation, she completed a Zoological Medicine internship at the Veterinary School of Saint-Hyacinth in Canada. After spending 2 years in private practice at the Veterinary School of Alfort, France she continued to complete a residency in Companion Avian and Exotic Pet Medicine at the University of California, Davis. In 2014 she became an ACZM Diplomate. Currently, she is an Assistant Professor in Zoological Medicine at the Université de Montréal. Her research interests include reptile renal disease, rodent oncology, and orthopedic surgery in birds of prey. She is currently head veterinarian at the Aquarium du Quebec.



# David Guzman, LV, MS, ECZM [Avian, Small Mammal], DACZM UC Davis

Dr. David Guzman received his veterinary degree from the University of Leon, Spain, in 2002. He practiced exotic and small animal medicine in Spain and the UK until 2004. Dr. Guzman completed an Exotic Animal Medicine and Surgery Internship at Tufts University in 2005 and a Zoological Medicine Residency combined with a Master's in Veterinary Medical Sciences at Louisiana State University in 2008. He served as a clinical instructor in Zoological Medicine at the University of Wisconsin until 2010, when he joined the Companion Exotic Animal Medicine & Surgery Service at UC Davis. Dr. Guzman has a special research interest in avian therapeutics and infectious diseases, and a strong clinical interest in soft tissue and orthopedic surgery as well as exotic animal oncology. He is board certified in avian and small mammal medicine and surgery by the European College of Zoological Medicine and is also board certified by the American College of Zoological Medicine.



#### Frances Harcourt-Brown, BVSc, FRCVS

Dr. Frances Harcourt-Brown was a European and an RCVS Recognised Specialist in Rabbit Medicine and Surgery before retiring in 2016. Additionally, she was a de facto diplomate of the European College of Zoological Medicine. She also wrote the Textbook of Rabbit Medicine and currently manages a website that provides information about diseases of pet rabbits.



#### Victoria Joseph, DVM, DABVP [Avian]

Clinical Avian Pathology Services (CAPS)

Dr. Joseph earned her DVM from the UC Davis School of Veterinary Medicine in 1983 and was board-certified in Avian Medicine and Surgery in 1995. She is the Avian Director for Clinical Avian Pathology Services (CAPS) and founder of the Bird and Pet Clinic of Roseville. She is also the Medical Director for the California Foundation for Birds of Prey, a non-profit organization dedicated to providing medical care for raptors. Dr. Joseph has a background in laboratory diagnostics of avian species, having worked as a veterinary consultant for IDEXX for over 20 years. Dr. Joseph has written on several topics surrounding avian medicine over her more than 20 years of practice on birds of prey, including subjects such as emergency care and hematology, and continues to share her knowledge and skills with other veterinary professionals whenever she can.



Olivia Petritz, DVM, DACZM

North Carolina State University

Dr. Petritz earned her doctorate at Purdue College of Veterinary Medicine in 2008. She then headed out to a specialty hospital in San Diego to complete a residency in small animal medicine and surgery after which she had an internship at Gulf Coast Avian and Exotics in Houston, Texas. After her internship, Dr. Petritz pursued another residency, this time in companion exotics and zoo medicine, and she completed her residency at the University of California, Davis. She received her board certification in 2013. From there, Dr. Petritz started an exotic animal service at a hospital in Los Angeles. She worked for 3 years before going to North Carolina State University where she is currently an assistant clinical professor and works in the Exotic Animal Medicine service.



Charlie Pignon, DVM, DECZM [Small Mammal]

Alfort National Veterinary School

Dr. Charly Pignon graduated from Alfort National Veterinary School in France and completed his veterinary thesis on a wildlife conservation project in Cambodia. Following an Exotic Medicine internship at Tufts University, he created the Exotic Medicine service at Alfort National Veterinary School where he is currently chief of service. Dr. Pignon is a Diplomate of the European College of Zoological Medicine and member of its Executive Committee, a member of the ICARE Steering Committee, a board member of Yaboumba and past president of the Association of Exotics Mammal Veterinarians (AEMV). Currently, he focuses on small mammal ear and orthopedic surgeries as well as blood transfusions in ferrets.



#### Scott Stahl, DVM, DABVP [Avian]

Stahl Exotic Animal Veterinary Services

Dr. Stahl earned his Doctorate in Veterinary Medicine from the Virginia-Maryland Regional College of Veterinary Medicine in 1989. He became board certified in avian practice through the American Board of Veterinary Practitioners (ABVP) in 1996. In 2003, Dr. Stahl founded the Stahl Exotic Animal Veterinary Services in Virginia. In addition to his practice, Dr. Stahl is currently an adjunct professor of avian and exotic animal medicine at the Virginia-Maryland Regional College of Veterinary Medicine. He has written over 150 scientific articles as well as chapters in various textbooks. In 2019, he co-edited and co-authored Mader's Reptile and Amphibian Medicine and Surgery. His professional areas of interest include endoscopy, endoscopic surgical techniques, ultrasound, and reproductive medicine and surgery.



**Danielle Tarbert, DVM** 

**UC** Davis

Dr. Tarbert earned her DVM at Washington State University. After graduation she completed a small animal rotating internship in Florida at Coral Springs Animal Hospital. She then completed an exotic pet and wildlife medicine internship followed by a three-year zoological medicine residency at Cornell University. She worked in private practice in the zoological medicine department at VCA West Los Angeles before joining the Companion Exotic Animal Medicine and Surgery Service at UC Davis in 2019. Dr. Tarbert's research focuses on diagnostic testing, especially related to infectious diseases and reptiles.



Stephen David White, DVM, DACVD

UC Davis

Dr. White received his DVM at the University of California, Davis in 1979. After graduating he continued on to complete an internship and a residency at the University of California Davis and in 1983 became a Diplomate of the American College of Veterinary Dermatology. Before his current position as a Chief of Service for the Dermatology Department at the University of California, Davis, Dr. White worked as faculty at Tufts University School of Veterinary Medicine and Colorado State University College of Veterinary Medicine and Biomedical Sciences.

