

2023 International Association of Aquatic Animal Medicine (IAAAM)

Event Schedule

Sat, May 20, 2023

8:00 AM

Conference Registration Desk Open

🕒 8:00 AM - 5:00 PM, May 20

📍 Registration Office

AALSO Level 1 Water Quality for Veterinarians (submitted for RACE approval)

🕒 8:00 AM - 12:00 PM, May 20

📍 Canyon A

Additional Fee / Pre-registration Required

In Person Event

Pre-Conference Workshop

This is the introductory-level course for the American Association of Life Support Operator's Water Quality certification, offered for the first time outside the AALSO Annual Conference. Topics include: lab safety, USDA regulations, common laboratory equipment, theory and operation of analytical testing, quality assurance and assessment, solutions preparation and applications using chemicals to achieve desired water quality parameters. Qualifying attendees who register for AALSO membership may choose to sit for the exam and earn their Water Quality Level 1 certificate*.

🗣️ Speakers



Ari Fustukjian

Vice President Of Zoological Operations
Loveland Living Planet Aquarium



Evan Jamison

9:00 AM

Advanced Techniques in Marine Mammal Anesthesia

🕒 9:00 AM - 4:00 PM, May 20

📍 Canyon B

Additional Fee / Pre-registration Required

In Person Event

Pre-Conference Workshop

Anesthesia of marine mammals can present many challenges. The objectives of this workshop are to acquaint attendees with methods of subject control, current concepts and techniques, limitations of anesthesia management, monitoring and support, management of complications as well as develop any appreciation for the many logistical considerations associated with marine mammal anesthesia. The didactic lecture format portion will be supported by interactive case examples involving phocids, otariids, odobenids, sirenians and delphinoids. As vascular access and ventilation is both necessary and feasible to safe anesthesia of marine mammals, we will also provide participants an opportunity to learn and practice a simple method of cannulation using micro-introducer kits applying a modified Seldinger method in phantom vascular model and run-through ventilator use and trouble shooting.

Overview: Course Leads: James Bailey, Shawn Johnson, Carolina Le-Bert, and Julie Balko

Presentations By: Stacy DiRocco, Jennifer Flower, and Marina Ivančić

Speakers



James Bailey

DVM, MS, DACVAA
Innovative Veterinary Medicine, Inc.



Shawn Johnson

COO & Director of Innovative Medicine
Sea Change Health



Carolina Le-Bert

Scientist (Clinical Veterinarian)
US Navy Marine Mammal Program



Julie Balko

Assistant Professor of Anesthesiology
NC State University, College of Veterinary Medicine



Stacy DiRocco

SeaWorld Parks & Entertainment



Jen Flower

Clinical Veterinarian
Disney's Animal's, Science and Environment



Marina Ivančić

Founder, Veterinary Radiologist
ZooRadOne

CANCELLED - CL Davis Aquatic Animal Pathology Workshop

🕒 9:00 AM - 4:00 PM, May 20

Due to an unexpected situation the workshop coordinators have cancelled this session. All registrants will be issued a full refund.

Genomic Approaches in Aquatic Animal Medicine

🕒 9:00 AM - 4:30 PM, May 20

📍 Canyon C

Additional Fee / Pre-registration Required

In Person Event

Pre-Conference Workshop

Utilization of genomic and molecular approaches in aquatic animal medicine is rapidly expanding thanks to the diverse and numerous potential and practical applications linked to the accessibility to novel sequencing technologies and access to complete genomics data for non-model organisms. For this workshop, we would like to bring together researchers and clinicians of any experience level to assess needs and discuss new developments or current methodologies in genomics of aquatic organisms including, but not limited to, whole genome and transcriptome sequencing, metagenomics, population genomics, functional genomics, proteomics and other applicable 'omics' technologies. We aim to provide a platform where researchers and clinicians can discuss needs, available genomics techniques, and novel applications in detail for both marine and freshwater taxa. The format will include delivery of a series of 30-45min talks involving key methodologies in analyzing and interpreting genomics data with applications in aquatic animal health, followed by a panel discussion and Q & A session where attendees can interact with speakers and ask questions. Those that are not familiar with molecular techniques are especially welcome to participate and discuss the best ways genomics can be used to answer their scientific and/or clinical questions. Dissemination of the workshop results will include a summary of the current techniques and applications with a focus on the outcome for aquatic animal health, and potential ways to combine and implement genomic techniques to address primary areas of concern in aquatic animal medicine.

🗨️ Speakers



Ebru Unal
Research Scientist
Mystic Aquarium



Annalaura Mancia
Assistant Professor
University of Ferrara



Vijender Singh



Benjamin Neely



Jason Ferrante



Susan Smith
Mystic Aquarium



William Van Bonn
Workshop Topic: Microbial Communities and Disinfection



Susana Caballero
Assistant Professor
Universidad de los Andes

IAAAM Aquatic Animal Radiology Workshop

🕒 9:00 AM - 12:00 PM, May 20

📍 Seminar Theater

Additional Fee / Pre-registration Required

In Person Event

Pre-Conference Workshop

Presented by: Dr. Marina Ivančić

Cost: Veterinarians \$150 / Students \$100 Includes: Morning coffee

Overview:

Interested in incorporating CT into your practice? Already using CT, but don't have the best grasp of indications, logistics, and settings involved? Still using a Sonosite 180plus ultrasound or an Aloka from 1998? Feel like you're getting left behind, as advanced imaging sweeps aquatic animal medicine and you're expected to know everything, everywhere, all at once? The 9th radiology workshop, an IAAAM tradition since 2013, will again be a unique opportunity to learn from and consult with Marina Ivančić, DVM, DACVR of ZooRadOne (in person in 2023!), on a range of topics exploring radiography, ultrasonography, CT, and MRI of aquatic animals. The workshop is geared towards clinicians and trainees interested in how diagnostic imaging can maximize the well-being of these animals. Cases will be presented, and as in the highly attended IAAAM virtual Radiology Forums in 2021 & 2022, Marina will answer real-time questions from participants. Remember, you don't have to be a radiology *expert* to be a great clinician, but limited skills in diagnostic imaging can and will hinder your clinical success. (Note: Following registration, **attendees are encouraged to submit requests for specific diagnostic imaging topics of interest to marina@drmarinaivancic.com**).

🗨️ Speaker



Marina Ivančić
Founder, Veterinary Radiologist
ZooRadOne

IAAAM Board Meeting

🕒 9:00 AM - 4:00 PM, May 20

📍 Granite Boardroom

[Committee Mee...](#)

1:00 PM

Maximizing Diagnostic Test Yield: Practical Guide to Getting the Most Information from your Clinical and Post Mortem Diagnostic Samples

🕒 1:00 PM - 4:00 PM, May 20

📍 Canyon A

[Additional Fee / Pre-registration Required](#)

[In Person Event](#)

[Pre-Conference Workshop](#)

Presented by: Dr. Katie Colegrove and Dr. Martha Delaney (with possible additional special guests)

Cost: \$50 Includes: Coffee and light snacks

Overview:

The objective of this workshop is to provide an overview of best practices for collection, sample handling, and submission of clinical and post mortem diagnostic samples. The workshop will provide tips to avoid the common pitfalls that can negatively affect results of diagnostic tests. Techniques for sampling and submitting tissues for histopathologic evaluation will be covered in a classroom format. The workshop will also provide an overview of common ancillary diagnostic tests used in aquatic animal medicine (e.g. PCR) and guidance on which tests are appropriate for various sample types. Best practices for sample storage, transport, and submission will be reviewed. Workshop leaders will guide participants through several example clinical case scenarios. Workshop participants will be encouraged to share clinical case examples from their practice where questions on diagnostic sampling may have arisen.

🗣️ Speakers



Katie Colegrove

Clinical Professor
Zoological Pathology Program, University of Illinois



Martha Delaney

Clinical Assistant Professor
University of Illinois Zoological Pathology Program

Water Quality for Marine Mammals

🕒 1:00 PM - 5:00 PM, May 20

📍 Seminar Theater

[Additional Fee / Pre-registration Required](#)

[Hybrid Event](#)

[Pre-Conference Workshop](#)

NOTE: *For the virtual attendees, we will send a Zoom Meeting link prior to the session to join.*

Marine mammal water quality management remains an important topic as it is often challenging to maintain optimal, healthy water while remaining within the regulatory requirements. This workshop will include water quality experts to lead an open dialogue to discuss indicator organisms within the water system and how to manage them, a review of methods of oxidation and how to avoid over-oxidation, and best practices for monitoring water systems including examples of methods used for water sampling.

Sponsored by:



🚩 Speakers



Carolyn McKinnie

Senior Veterinary Medical Officer - Marine Mammals and Exotics, National Policy Staff
USDA APHIS Animal Care



William Van Bonn

Workshop Topic: Microbial Communities and Disinfection



Laurie Gage

Zoological Species Specialist
USDA



Chris Dold

Workshop Topic: Historical aspects of water quality endeavors



Kent Semmen

Workshop Topic: Different Marine System Models and the Role of Organics



Ed Latson

Consulting veterinarian
Aquarium of Niagara



Jeff Keaffaber

Workshop Topic: Oxidation Reduction Potential (ORP): Applications and Interpretations



Allie Hobgood

Virginia Aquarium & Marine Science Center



Robin Keith

6:00 PM

Icebreaker Event

🕒 6:00 PM - 9:00 PM, May 20

📍 Loveland Living Planet Aquarium

Featured Event

In Person Event

Join fellow attendees at this year's host, [Loveland Living Planet Aquarium](#), for food, drinks, and catching up. Attendees will be able to walk through the indoor facility and explore the fun activities outside. Be sure to bring your wallet because the **Gift Shop** will remain open until **7:00pm**. To learn more about the aquarium, click the link above.

Shuttle service to and from Loveland Living Planet Aquarium for the Saturday Icebreaker will pick up in front of the Hilton. Please see the schedule below for pick up and drop off times:

Icebreaker Reception Saturday, May 20, 6:00 p.m. – 9:00 p.m.

5:30 p.m. – 6:00 p.m. Shuttles to Loveland Living Aquarium

** Shuttles will begin boarding at 5:30 p.m. and will depart as soon as full.

** Last shuttle will depart at 6:00 p.m.

8:00 p.m. – 9:00 p.m. Shuttles to Hilton

** Shuttles back to Hilton will begin at 8:00 p.m. and depart every 30 minutes

** Last shuttle to hotel will leave at 9:00 p.m.

Sun, May 21, 2023

8:00 AM

Welcome and Keynote Sessions

🕒 8:00 AM - 10:00 AM, May 21

📍 RECORDING NOW AVAILABLE

Hybrid Event

Keynote

Keynote Sessions Sponsored by:



The Marine
Mammal Center

3 Subsessions

● **Welcome to Utah and 2023 IAAAM Conference**

🕒 8:00 AM - 8:30 AM, May 21

● **KEYNOTE: June Sucker Recovery Implementation Program: 20 Years of Progress and Beyond**

🕒 8:30 AM - 9:15 AM, May 21

● **KEYNOTE: Wild Dolphin Health Assessments**

🕒 9:15 AM - 10:00 AM, May 21

10:30 AM

SESSION 1: DISEASE ECOLOGY

🕒 10:30 AM - 12:15 PM, May 21

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 1: DISEASE ECOLOGY

This session will explore the dynamics of how a variety of diseases and conditions impact and persist within their hosts and their larger environmental systems. Speakers explore themes that include the ecology of diseases and conditions, potential clinical and epidemiological implications of those dynamics, and the roles marine mammals can and do play in disease surveillance.

🗣️ Speaker



David Krucik

Postdoctoral Scholar
Stanford University

7 Subsessions

- **Uncovering the Role of Northern Elephant Seals (*Mirounga angustirostris*) in Maintaining *Leptospira* in the Marine Ecosystem**
⌚ 10:30 AM - 10:45 AM, May 21
- **The Cutaneous Microbiome of Healthy and Stranded Northern Elephant Seals (*Mirounga angustirostris*) in California**
⌚ 10:45 AM - 11:00 AM, May 21
- **Comparison of stranded and hunted bowhead whales' (*Balaena mysticetus*) skin microbiome as a health indicator**
⌚ 11:00 AM - 11:15 AM, May 21
- **The respiratory microbiome as an indicator of population and individual health status in blue whales (*Balaenoptera musculus*)**
⌚ 11:15 AM - 11:30 AM, May 21
- **Air Quality And Pulmonary Disease In Aquatic and Zoo Species**
⌚ 11:30 AM - 11:45 AM, May 21
- **Swiss-Army Sentinels: Building a Case for the Bottlenose Dolphin (*Tursiops truncatus*) as a Tool to Study Plastic Pollution**
⌚ 11:45 AM - 12:00 PM, May 21
- **Investigation of SARS-CoV-2 in Zoos and Aquariums Using Serology and Biosecurity Assessments**
⌚ 12:00 PM - 12:15 PM, May 21

1:30 PM

SESSION 2: CASE REPORTS

⌚ 1:30 PM - 2:30 PM, May 21
📍 RECORDING NOW AVAILABLE

Hybrid Event **SESSION 2: CASE REPORTS**

- 1:30-1:45PM:** Probable *Coxiella burnetii* Infection in a California Sea Lion (*Zalophus californianus*) Under Human Care
- 1:45-2:00PM:** Abdominal Ectopic Pregnancy and Myocardial Calcification in a Steller sea lion (*Eumetopias jubatus*)
- 2:00-2:15PM:** Raising Rip: From Aquarium Conception to a Year of Age for a Sand Tiger Shark (*Carcharius taurus*).
- 2:15-2:30PM:** Highly Pathogenic Avian Influenza A(H5N1) in a Common Bottlenose Dolphin (*Tursiops truncatus*) in Florida, United States

🗣️ Speaker



Zachary Ready
Zoological and Aquatic Animal Medicine Resident
University of Illinois-Shedd Aquarium-Brookfield Zoo

4 Subsessions

- **Probable *Coxiella burnetii* Infection in a California Sea Lion Under (*Zalophus californianus*) Under Human Care**
⌚ 1:30 PM - 1:45 PM, May 21
- **Abdominal Ectopic Pregnancy and Myocardial Calcification in a Steller sea lion (*Eumetopias jubatus*)**
⌚ 1:45 PM - 2:00 PM, May 21
- **Raising Rip: From Aquarium Conception to a Year of Age for a Sand Tiger Shark (*Carcharius taurus*).**
⌚ 2:00 PM - 2:15 PM, May 21
- **Highly Pathogenic Avian Influenza A(H5N1) in a Common Bottlenose Dolphin (*Tursiops truncatus*) in Florida, United States**
⌚ 2:15 PM - 2:30 PM, May 21

2:00 PM

SESSION 3: STRANDINGS

3:00 PM

SESSION 3: STRANDINGS

🕒 3:00 PM - 5:00 PM, May 21

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 3: STRANDINGS

👤 Speaker



Mattison Peters
Veterinary Fellow
The Marine Mammal Center

7 Subsessions

- **Rehabilitation and Post-Release Monitoring of 20 Prematurely Separated California Sea Lion (*Zalophus californianus*) and Two Steller Sea Lion (*Eumetopius jubatus*) Pups Along the California Coast (2018-2022)**
🕒 3:00 PM - 3:15 PM, May 21
- **Retrospective Analysis of Blood Cultures and Their Association With Clinical Findings From Green Sea Turtles (*Chelonia mydas*) at a Florida Sea Turtle Rehabilitation Facility, 2017-2020.**
🕒 3:15 PM - 3:30 PM, May 21
- **Characterisation and Prevalence of Lungworm Infection in Stranded Indo-Pacific Finless Porpoises Using Virtopsy-Led Postmortem Investigation**
🕒 3:30 PM - 3:45 PM, May 21
- **Assessment of the Genetic Diversity of Stranded Bottlenose Dolphins (*Tursiops truncatus*) in the Mississippi Sound**
🕒 3:45 PM - 4:00 PM, May 21
- **You jump I jump: Genetic structure within mass stranding events in pygmy killer whales (*Feresa attenuata*)**
🕒 4:00 PM - 4:15 PM, May 21
- **Stranding Pattern and Fisheries Interaction of Franciscana dolphins (*Pontoporia blainvillei*) in São Paulo coast, Brazil (2019-2022): Preliminary Anatomopathological Findings and Future Perspectives**
🕒 4:15 PM - 4:30 PM, May 21
- **Progression and Outcomes of Chronic Cervical Gillnet Entanglements in Wild California Sea Lions (*Zalophus californianus*)**
🕒 4:30 PM - 4:45 PM, May 21

5:30 PM

Student Event

🕒 5:30 PM - 7:30 PM, May 21

📍 Trofi North with Patio

Featured Event

In Person Event

Calling All Students! Join **Dr. Leslie Dierauf** for a half hour discussion and question time before moving into and evening of networking and conversations.

Pizza buffet with a complimentary drink will be provided and then a cash bar is available for the remaining of the evening.

Sponsored by:



BlackFin HEMP™
Hemp for Dogs... Free for Zoos!

Mon, May 22, 2023

8:00 AM

SESSION 4: MEDICINE AND SURGERY

🕒 8:00 AM - 10:00 AM, May 22

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 4: MEDICINE AND SURGERY

🗣️ Speaker



Jennifer Meegan

Veterinarian
National Marine Mammal Foundation

8 Subsessions

● **Surgical Correction of Gastric Torsion in a Sand Tiger Shark (*Carcharias taurus*)**

🕒 8:00 AM - 8:15 AM, May 22

● **A Review of Medical Management of Ocular Gas Bubble Disease in a Population of Black Rockfish (*Sebastes melanops*) Under Human Care**

🕒 8:15 AM - 8:30 AM, May 22

● **Wobbly Weasels: Antemortem Diagnosis and Treatment of Protozoal Encephalitis in Stranded Southern Sea Otters (*Enhydra lutris nereis*)**

🕒 8:30 AM - 8:45 AM, May 22

● **Use of Novel Break Wave Lithotripsy Technology for the Treatment of Renal Calculi in a Harbor Seal (*Phoca vitulina*)**

🕒 8:45 AM - 9:00 AM, May 22

● **Surgical Castration of the California Sea Lion (*Zalophus californianus*), a Retrospective Review**

🕒 9:00 AM - 9:15 AM, May 22

● **Comparison of fungal isolation from bronchoalveolar lavage and exhaled blowhole sample in beluga whale (*Delphinapterus leucas*) with bronchial tree system analysis**

🕒 9:15 AM - 9:30 AM, May 22

● **Conservation of the Endangered Copper Redhorse (*Moxostoma hubbsi*): Implication of the Aquarium du Québec**

🕒 9:30 AM - 9:45 AM, May 22

● **General Anesthesia, Exploratory Laparoscopy, and Mass Removal in a Bottlenose Dolphin (*Tursiops truncatus*)**

🕒 9:45 AM - 10:00 AM, May 22

10:30 AM

SESSION 5: MARINE MAMMALS

🕒 10:30 AM - 12:15 PM, May 22

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 5: MARINE MAMMALS

🗣️ Speaker



Jen Flower

Clinical Veterinarian
Disney's Animal's, Science and Environment

7 Subsessions

● **Environmental Concerns for Captive Marine Mammals**

🕒 10:30 AM - 10:45 AM, May 22

● **What Causes Epileptogenesis in California Sea Lions with Domoic Acid Toxicosis?**

🕒 10:45 AM - 11:00 AM, May 22

● **Causes of Morbidity and Mortality in Steller Sea Lions (*Eumetopias jubatus*) Under Human Care in North America from 1979-2021**

🕒 11:00 AM - 11:15 AM, May 22

● **Proteomic Profile of Bottlenose Dolphin (*Tursiops truncatus*) Ocular Secretions**

🕒 11:15 AM - 11:30 AM, May 22

● **Characteristics of Full-Thickness Wound Healing in Fraser's Dolphins (*Lagenodelphis hosei*)**

🕒 11:30 AM - 11:45 AM, May 22

● **Scarface: The Histopathological Study on White Scarring in Risso's Dolphins (*Grampus griseus*) Reveals Successful Healing but Melanocyte Disappearance**

🕒 11:45 AM - 12:00 PM, May 22

● **Hypothesis: Evolutionary Divergence of Baleen Whales From Their Common Prehistoric Toothed Ancestor is Attributable to Fluoride Toxicosis**

🕒 12:00 PM - 12:15 PM, May 22

1:15 PM

SESSION 6: BEHAVIOR

🕒 1:15 PM - 2:45 PM, May 22

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 6: BEHAVIOR

I am pleased to serve as the behavior session chair. This session will cover a variety of topics relevant to all types of aquatic animal medicine professionals. The topics emphasize the importance of behavior in aquatic animal medicine. I hope you enjoy the session and learn something new that enhances your clinical practice and research!

Elasmobranchs

Contraception is challenging in elasmobranchs. Hyatt et al¹ report a pilot study using GnRH agonist deslorelin to mitigate aggression and reproductive behavior in male cownose rays (*Rhinoptera bonasus*). Standard zoo-specific software programs often fall short when it comes to fish husbandry. Sawyna et al² describe a novel elasmobranch health and behavioral diagnostic tool that can be used to determine the efficacy of prescribed treatments and overall welfare and quality of life.

Marine Mammals

Acoustic transmitters have been commonly used to study habitat use and survival of free-ranging marine mammals. Jakobek et al³ investigate if and how the sound produced by these transmitters influences the behavior of aquarium-housed harbor seals (*Phoca vitulina*) and harp seals (*Pagophilus groenlandicus*). Adhering to proper housing parameters for marine mammals under human care is crucial. McKinnie and Gage⁴ detail the capability and separation of marine mammals under human care and the role these considerations play in marine mammal welfare. Undesirable social behaviors can be challenging to address in marine mammals. Nolan et al⁵ describes how undesirable social behaviors of two aquarium-housed adult male Florida manatees (*Trichechus manatus latirostris*) were successfully mitigated. Encouraging denning in managed female polar bears (*Ursus maritimus*) is an obstacle that many zoological institutions face. Smith et al⁶ will round out the session by providing a comprehensive review of polar denning practices across North American facilities.

Sarah Wright, DVM, CertAqV

IAAAM 54th Annual Conference Behavior Session Chair

Publications Division, American Veterinary Medical Association

References

1. Hyatt MW, Davis MR, Mone AJ, and Penfold LM. 2023. Attempts to mitigate aggression and reproductive behavior in male cownose rays (*Rhinoptera bonasus*) through implantation of a gonadotropin releasing hormone (GnRH) agonist, deslorelin. IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.
2. Sawyna JM, Miller S, Paynter M, Neal J. 2023. Elasmobranch health and behavioral diagnostic tool for determining efficacy of treatment. IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.
3. Jakobek BT, Lair S, Bordeleau X, Desmarchelier M, Farley J. 2023. Behavioral impacts of 69 kHz acoustic transmitter on aquarium-housed harbor seals (*Phoca vitulina*) and harp seals (*Pagophilus groenlandicus*). IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.
4. McKinnie C, Gage LJ. 2023. Considerations for compatibility and separation and their role in marine mammal welfare. IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.
5. Nolan EC, Mylniczenko ND, Odell K, Litz C, Williams S, Wheaton C, Fellner W. Management of undesirable social behaviors of two aquarium-housed adult male Florida manatees (*Trichechus manatus latirostris*). IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.
6. Smith LN, Jablonski K, Crook E. A review of polar bear (*Ursus maritimus*) denning practices across North American facilities. 2023. IAAAM 54th Annual Conference Proceedings, Salt Lake City, UT.

Speaker



Sarah Wright

Associate Editor
AVMA

6 Subsessions

● **Attempts to Mitigate Aggression and Reproductive Behavior in Male Cownose Rays (*Rhinoptera bonasus*) Through Implantation of a Gonadotropin Releasing Hormone (GNRH) Agonist, Deslorelin**

🕒 1:15 PM - 1:30 PM, May 22

● **Behavioral Impacts of 69 kHz Acoustic Transmitter on Aquarium-Housed Harbor Seals (*Phoca vitulina*) and Harp Seals (*Pagophilus groenlandicus*)**

🕒 1:30 PM - 1:45 PM, May 22

● **Considerations for Compatibility and Separation and their Role in Marine Mammal Welfare**

🕒 1:45 PM - 2:00 PM, May 22

● **Management of Undesirable Social Behaviors of Two Aquarium-Housed Adult Male Florida Manatees (*Trichechus manatus latirostris*)**

🕒 2:00 PM - 2:15 PM, May 22

● **Standardized Monitoring of Elasmobranch Health and Behavior: Creation of a Diagnostic Tool for Assessing Efficacy of Treatment**

🕒 2:15 PM - 2:30 PM, May 22

● **A Review of Polar Bear (*Ursus maritimus*) Denning Practices across North American Facilities**

🕒 2:30 PM - 2:45 PM, May 22

3:15 PM

SESSION 7: THERAPEUTICS

🕒 3:15 PM - 5:00 PM, May 22

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 7: THERAPEUTICS

👤 Speaker



Sarah Churgin

Clinical Assistant Professor
Arizona State University

7 Subsessions

● **The Use of Suprelorin in Female Bottlenose Dolphins (*Tursiops truncatus*) and Indo-Pacific Bottlenose Dolphins (*Tursiops aduncus*)**

🕒 3:15 PM - 3:30 PM, May 22

● **Use Of Oral Budesonide In Cetaceans**

🕒 3:30 PM - 3:45 PM, May 22

● **Population Pharmacokinetics of Simplicef (Cefpodoxime Proxetil) in Bottlenose Dolphins (*Tursiops truncatus*)**

🕒 3:45 PM - 4:00 PM, May 22

● **Intraperitoneal Dextrose Administration to Northern Fur Seal (*Callorhinus Ursinus*) Pups in Hypoglycemic Crisis**

🕒 4:00 PM - 4:15 PM, May 22

● **It's Time to Shake Things Up: Preliminary Pharmacokinetics of Levetiracetam in California Sea Lions (*Zalophus californianus*)**

🕒 4:15 PM - 4:30 PM, May 22

● **Comparative Pharmacokinetics of a Single Dose of Meloxicam in the California Sea Lion (*Zalophus californianus*) and Pacific Harbor Seal (*Phoca vitulina richardii*)**

🕒 4:30 PM - 4:45 PM, May 22

● **Pharmacokinetics of Ceftazidime After a Single Intramuscular Dose in White-Spotted Bamboo Sharks (*Chiloscyllium plagiosum*)**

🕒 4:45 PM - 5:00 PM, May 22

5:00 PM

IAAAM Annual Business Meeting

🕒 5:00 PM - 6:00 PM, May 22

📍 RECORDING NOW AVAILABLE

Committee Meeting

Hybrid Event

7:00 PM

Poster Session

🕒 7:00 PM - 9:00 PM, May 22

📍 Alpine Ballroom

Featured Event

In Person Event

Poster Session

29 Subsessions

● **P-01: A Case Study of an Adult Female Risso's Dolphin (*Grampus griseus*) with a Rhabdomyoma**

🕒 7:00 PM - 9:00 PM, May 22

● **P-02: Are You What You Eat? A Comparison of Ingested Microplastics in Bottlenose Dolphins (*Tursiops truncatus*) and their Prey Fish from Sarasota Bay, FL, USA**

🕒 7:00 PM - 9:00 PM, May 22

● **P-03: Benefits of Low-Stress Survey Radiographs in Pinniped Rehabilitation and Postmortem Examination**

🕒 7:00 PM - 9:00 PM, May 22

● **P-04: Blood Analyte and Morphometric Reference Intervals in Freshwater Adult Wild Sockeye Salmon (*Oncorhynchus nerka*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-05: Comorbidities of Fibropapillomatosis in Stranded Green Sea Turtles (*Chelonia mydas*) Along the West Coast of Florida**

🕒 7:00 PM - 9:00 PM, May 22

● **P-06: Detection of Contaminants in Bottlenose Dolphins (*Tursiops truncatus*) Stranded along the Mississippi Sound from 2010 – 2021**

🕒 7:00 PM - 9:00 PM, May 22

● **P-07: Determination of Coagulation Parameters by Whole Blood Dynamic Viscoelastic Coagulometry in Fish**

🕒 7:00 PM - 9:00 PM, May 22

● **P-08: Efficacy of Dexmedetomidine and Midazolam Intramuscular Sedation in Brownbanded Bamboo Sharks (*Chiloscyllium punctatum*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-09: Evaluating Beluga Whale (*Delphinapterus leucas*) Immune Function in Response to *in Vitro* Polystyrene Nanoplastic Exposure**

🕒 7:00 PM - 9:00 PM, May 22

● **P-10: Evaluating Decomposition Condition in Stranded Cetaceans Using Postmortem Computed Tomography and Radiological Alteration Index**

🕒 7:00 PM - 9:00 PM, May 22

● **P-11: Evaluation of Coagulation Parameters by Whole Blood Dynamic Viscoelastic Coagulometry in Three Healthy Walruses (*Odobenus rosmarus*), in a Public Aquarium**

🕒 7:00 PM - 9:00 PM, May 22

● **P-12: Generating Reference Intervals for Marine Species in Species360 Zoological Information Management System**

🕒 7:00 PM - 9:00 PM, May 22

● **P-13: Hematology Values from Wild Spiny Butterfly Ray (*Gymnura altavela*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-14: Influence of habitat in inner body fluids microbiome in the Small-Spotted Catshark (*Scyliorhinus canicula*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-15: Heart Failure, Esophageal Obstruction, and Cold Stress Cause the Death of a West Indian Manatee in Alabama Waters**

🕒 7:00 PM - 9:00 PM, May 22

● **P-16: Lens Induced Keratopathy from Self-resolving Anterior Lens Luxations in Pinnipeds and the use of Scleral Approach for Whole Lens Removal**

🕒 7:00 PM - 9:00 PM, May 22

● **P-17: Light Anesthesia for Blood collection and Determination of Basal Values of Hematology Parameters in Spotted Ratfish (*Hydrolagus coliei*) Maintained Under Human Care**

🕒 7:00 PM - 9:00 PM, May 22

● **P-18: Meloxicam-Associated Nephrotoxicity in Three Adult Female California Sea Lions (*Zalophus californianus*) in Treatment for Domoic Acid Toxicosis**

🕒 7:00 PM - 9:00 PM, May 22

● **P-19: MicroGen Vet - Next Generation Sequencing and Molecular Diagnostic Services for Aquatic Veterinary Medicine**

🕒 7:00 PM - 9:00 PM, May 22

● **P-20: Mortality Secondary to Milky Hemolymph Syndrome attributed to a Rickettsia-like Organism in Two Japanese Spider Crabs (*Macrocheira kaempferi*) Housed in a Public Display Aquarium in North America**

🕒 7:00 PM - 9:00 PM, May 22

● **P-21: Myxobolus lentisuturalis Infection in a Farmed Population of Goldfish (*Carassius auratus*) from the United States**

🕒 7:00 PM - 9:00 PM, May 22

● **P-22: Normal Radiographic Lung Interpretation for 53 Apparently Healthy Juvenile Kemp's Ridley Sea Turtles (*Lepidochelys kempii*) in Mississippi**

🕒 7:00 PM - 9:00 PM, May 22

● **P-23: Prevalence of abnormalities in Striped Dolphins, *Stenella coeruleoalba*, Infected with Neurobrucellosis**

🕒 7:00 PM - 9:00 PM, May 22

● **P-24: Report of a case of a Multimetastatic Ocular Melanoma in a Bottlenose Dolphin (*Tursiops truncatus*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-25: Seasonal Variation of Markers of Skin Health in Alaskan Ice Seals**

🕒 7:00 PM - 9:00 PM, May 22

● **Restoring Zebra Sharks (*Stegostoma tigrinum*) in Indonesia Through Ex Situ Breeding and In Situ Rearing**

🕒 7:00 PM - 9:00 PM, May 22

● **P-27: The Pollution Impact on Marine Birds Admitted to a Wildlife Rehabilitation Centre in Portugal**

🕒 7:00 PM - 9:00 PM, May 22

● **P-28: Treatment and Prognosis of Spinal Compression Injuries in Koi (*Cyprinus carpio koi*)**

🕒 7:00 PM - 9:00 PM, May 22

● **P-29: Lead and Mercury Toxicity in a Southern Giant Petrel (*Macronectes giganteus*)**

🕒 7:00 PM - 9:00 PM, May 22

Tue, May 23, 2023

8:00 AM

SESSION 8: DIAGNOSTICS

🕒 8:00 AM - 10:15 AM, May 23

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 8: DIAGNOSTICS

🗣️ Speaker



Tatiana Weisbrod

Aquatic Animal Medicine Resident
University of Florida College of Veterinary Medicine

9 Subsessions

● **Use of a Point-of-Care Blood Gas Analyzer to Assess Changes in Common Sea Star (*Asterias rubens*) Coelomic Fluid Following Brief Emersion**

🕒 8:00 AM - 8:15 AM, May 23

● **Catch Me if You Can: A Portable Detection Tool Set for Cetacean Products**

🕒 8:15 AM - 8:30 AM, May 23

● **Determination of a Suitable Dilution Marker for Measuring Hormones in Beluga (*Delphinapterus leucas*) Blow**

🕒 8:30 AM - 8:45 AM, May 23

● **Highly Abundant Core Taxa in the Blow within and Across Captive Bottlenose Dolphins Provide Evidence for a Temporally Stable Airway Microbiota**

🕒 8:45 AM - 9:00 AM, May 23

● **Gastric pH & Cytology of Northern Elephant Seals (*Mirounga angustirostris*) Undergoing Rehabilitation**

🕒 9:00 AM - 9:15 AM, May 23

● **Preliminary Investigation of Low White Blood Cell Counts and Immune Function in a Subset of Indo-Pacific Bottlenose Dolphins (*Tursiops aduncus*) under Professional Care**

🕒 9:15 AM - 9:30 AM, May 23

● **Single-cell mRNA Sequencing: An Innovative Approach to Study Endocrine Disruption in Fish Ovaries**

🕒 9:30 AM - 9:45 AM, May 23

● **Applications of Next-Generation DNA Sequencing for the Diagnosis of Infections in Marine Mammals**

🕒 9:45 AM - 10:00 AM, May 23

● **Determining the Viral Etiology of Orogenital Papillomatosis and Squamous Cell Carcinoma in Bottlenose Dolphins (*Tursiops truncatus*): Diagnostic Advancements Through Deep Sequencing and the Development of Immortalized Dolphin Cell Lines**

🕒 10:00 AM - 10:15 AM, May 23

10:45 AM

SESSION 9: HERPS AND BIRDS

🕒 10:45 AM - 12:30 PM, May 23

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 9: HERPS AND BIRDS

🗣️ Speaker



Kat Reed

Clinical Fellow
San Diego Zoo

7 Subsessions

● **Blood Gas Analysis and Lactate in Nesting Loggerhead (*Caretta caretta*) and Green (*Chelonia mydas*) Sea Turtles from Southeastern Florida**

🕒 10:45 AM - 11:00 AM, May 23

● **Establishing Normal Ophthalmic Examination Parameters for Smooth-sided Toads (*Rhaebo guttatus*)**

🕒 11:00 AM - 11:15 AM, May 23

● **Zinc Toxicity in Alcid: Diagnosis and Management**

🕒 11:15 AM - 11:30 AM, May 23

● **Plasma Aldosterone Concentrations of Kemp's Ridley (*Lepidochelys kempii*) and Leatherback (*Dermochelys coriacea*) Sea Turtles: Assay Validation and Observations under the Influence of Diverse Stressors**

🕒 11:30 AM - 11:45 AM, May 23

● **Low Residue Technique for Euthanasia in Green Sea Turtles (*Chelonia Mydas*)**

🕒 11:45 AM - 12:00 PM, May 23

● **Haemosporidian Parasites in Sea Birds Under Professional Care in Spain: Diagnosis, DNA Sequencing and Epidemiology**

🕒 12:00 PM - 12:15 PM, May 23

● **Neurotoxicity Mechanisms of Per- and Polyfluoroalkyl Substances (PFAS) for the Northern Leopard Frog (*Rana pipiens*)**

🕒 12:15 PM - 12:30 PM, May 23

6:00 PM

IAAAM Auction Night

🕒 6:00 PM - 9:30 PM, May 23

📍 Loveland Living Planet Aquarium

Featured Event

Hybrid Event

DUE TO TRAFFIC AND WEATHER, THE LIVE AUCTION WILL START AT 8:30PM MT

6:00pm - 7:00pm Cocktail Reception & Silent Auction Open

7:00pm - 8:00pm Dinner

8:30pm - Silent Auction Closes

8:30pm - Live Auction

**** The live auction will be live streamed so virtual attendees are encouraged to participate and bid on auction items. *Livestreaming will begin shortly before 8:00pm.* A list of auction items with descriptions and photos will be posted to the [home page](#) of the site for viewing on Tuesday morning.**

Shuttle service to and from Loveland Living Aquarium **will pick up in front of the Hilton** . Please see the schedule below for pick up and drop off times.

5:30 p.m. – 6:00 p.m. Shuttles to Loveland Living Aquarium

** Shuttles will begin boarding at 5:30 p.m. and will depart as soon as full.

** Last shuttle will depart at 6:00 p.m.

8:30 p.m. – 9:30 p.m. Shuttles to Hilton

** Shuttles back to Hilton will begin at 8:30 p.m. and depart every 30 minutes

** Last shuttle to hotel will leave at 9:30 p.m.

Wed, May 24, 2023

8:00 AM

SESSION 10: INFECTIOUS DISEASE

🕒 8:00 AM - 10:30 AM, May 24

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 10: INFECTIOUS DISEASE

Speaker



Lauren Smith
Associate Veterinarian
Utah's Hogle Zoo

10 Subsessions

- **Leptospirosis in Live Stranded Northern Elephant Seals (*Mirounga angustirostris*) Along the Eastern Pacific Coast, 2022: A Case Series**
⌚ 8:00 AM - 8:15 AM, May 24
- **Pathology, Microbiology, and Genetics Associated with *Erysipelothrix rhusiopathiae* and Novel *Erysipelothrix* spp. Infections in Southern Sea Otters (*Enhydra lutris nereis*)**
⌚ 8:15 AM - 8:30 AM, May 24
- **Emerging Pathogens of Concern to Arctic Marine Mammal Health as a result of Climate Change**
⌚ 8:30 AM - 8:45 AM, May 24
- **Highly Pathogenic H5N1 Avian Influenza Virus Infection in Marine Mammals in the St. Lawrence Estuary, Quebec, Canada**
⌚ 8:45 AM - 9:00 AM, May 24
- ***Coxiella burnetii* in Australian Fur Seal (*Arctocephalus pusillus doriferus*) Breeding Colonies – Is this a Terrestrial Spillover or a Marine Specific Genotype?**
⌚ 9:00 AM - 9:15 AM, May 24
- ***Klebsiella pneumoniae* in California Sea Lions (*Zalophus californianus*) of Central California**
⌚ 9:15 AM - 9:30 AM, May 24
- **Serologic Diagnosis and Monitoring of Sarcocystosis and Toxoplasmosis in 8 Species of Marine Mammals**
⌚ 9:30 AM - 9:45 AM, May 24
- **Anatomical, Pathological, and Microscopic Examination of Rainbow Trout naturally infected with *Shewanella* sp. strain S-1**
⌚ 9:45 AM - 10:00 AM, May 24
- **Identification and Antimicrobial Susceptibility of The Possible Novel *Flavobacterium* Species Isolated From Farmed Trout**
⌚ 10:00 AM - 10:15 AM, May 24
- ***Brucella* Surveillance and Diagnosis of Brucellosis in Stranded Short-beaked Common Dolphins (*Delphinus delphis*) on Cape Cod, Massachusetts 2011-2021**
⌚ 10:15 AM - 10:30 AM, May 24

11:00 AM

SESSION 11: ANESTHESIA

⌚ 11:00 AM - 12:30 PM, May 24

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 11: ANESTHESIA

Speaker



Shawn Johnson
COO & Director of Innovative Medicine
Sea Change Health

6 Subsessions

● **Tricaine Methanesulfonate (MS-222) Reduces Spontaneous Movement and Response to Stimuli in Moon Jellyfish (*Aurelia aurita*) and Flame Jellyfish (*Rhopilema esculentum*)**

⌚ 11:00 AM - 11:15 AM, May 24

● **Evaluation of 100% Versus 21% Oxygen Supplementation in Common Snapping Turtles (*Chelydra serpentina*) Anesthetized with Intravenous Alfaxalone, Next Steps in the Advancement of Aquatic Chelonian Anesthesia**

⌚ 11:15 AM - 11:30 AM, May 24

● **Immobilization of Sea Otters (*Enhydra lutris*) in Managed Care using Medetomidine-Butorphanol-Midazolam and Dexmedetomidine-Butorphanol-Midazolam**

⌚ 11:30 AM - 11:45 AM, May 24

● **Comparison of Anaesthetic protocols and Outcomes in Larga Seals (*Phoca largha*), Harbor Seals (*Phoca vitulina*) and California sea lions (*Zalophus californianus*) at Ocean Park Hong Kong.**

⌚ 11:45 AM - 12:00 PM, May 24

● **Case series evaluating the efficacy and safety of a concentrated formulation of alfaxalone in conjunction with midazolam and pethidine for immobilizing pinnipeds.**

⌚ 12:00 PM - 12:15 PM, May 24

● **Apneustic Anesthesia Ventilation Compared to Controlled Mechanical Ventilation in Anesthetized Bottlenose Dolphins (*Tursiops truncatus*) and California Sea Lions (*Zalophus californianus*)**

⌚ 12:15 PM - 12:30 PM, May 24

1:30 PM

SESSION 12: CLINICAL PATHOLOGY

⌚ 1:30 PM - 3:00 PM, May 24

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 12: CLINICAL PATHOLOGY

🗣️ Speaker



Melissa Joblon

Director of Animal Health
New England Aquarium

6 Subsessions

● **Effect of Diets on Blood Parameters and Development of Nephrocalcinosis, Urolithiasis, and Xanthomatosis in Aquarium-raised Juvenile Spotted Wolffish (*Anarhichas minor*)**

⌚ 1:30 PM - 1:45 PM, May 24

● **Evaluation of a Point-of-Care Cholesterol Analyzer, the CardioChek Plus, for Measuring Plasma Lipids in Elasmobranch Fish**

⌚ 1:45 PM - 2:00 PM, May 24

● **Effect of Age, Sex, Weight, and Rearing Condition on Blood Analytes in Juvenile Zebra Sharks (*Stegostoma tigrinum*)**

⌚ 2:00 PM - 2:15 PM, May 24

● **Sex and Age-specific Hematologic and Biochemical Reference Intervals for Koi (*Cyprinus carpio*)**

⌚ 2:15 PM - 2:30 PM, May 24

● **Clinical Pathology Results from Stranded Baleen Whales**

⌚ 2:30 PM - 2:45 PM, May 24

● **Validation and Utilization of Serum Symmetric Dimethylarginine (SDMA) Assay in California Sea Lions (*Zalophus californianus*)**

⌚ 2:45 PM - 3:00 PM, May 24

3:30 PM

SESSION 13: IMAGING

🕒 3:30 PM - 4:45 PM, May 24

📍 RECORDING NOW AVAILABLE

Hybrid Event

SESSION 13: IMAGING

We have an incredible series of talks for this session! Come and join us in the world of black and white diagnostic imaging and color thermography as we close the academic portion of the conference with something for all. Learn about whether our speakers are sweet or salty, and find out what the leading imaging experts at IAAAM 2023 are currently loving for snacks.

🗣️ Speaker



Sophie Dennison-Gibby

Owner and Veterinary Radiologist
TeleVet Imaging Solutions, PLLC

5 Subsessions

● **Measure of Agreement Among Observers Utilizing Bottlenose Dolphin (*Tursiops truncatus*) Pectoral Flipper Radiograph Age Determination Technique**

🕒 3:30 PM - 3:45 PM, May 24

● **Utility of IV Iodinated Contrast for Diagnosis and Surgical Planning of Gonadal Neoplasms in Koi (*Cyprinus carpio*)**

🕒 3:45 PM - 4:00 PM, May 24

● **Sonographic Identification of Intestinal Loop Inflammation and Necrotizing Enterocolitis in Cetaceans - Potential Link to Disequibrated and/or High Diet Volume**

🕒 4:00 PM - 4:15 PM, May 24

● **Comparison of Infrared Thermography of Blowhole Mucosa with Rectal Temperatures in Killer Whales (*Orcinus orca*).**

🕒 4:15 PM - 4:30 PM, May 24

● **Use of Novel Diagnostic Imaging Techniques for Evaluation of Ureteral Anatomy in Bottlenose Dolphins (*Tursiops truncatus*): Ultrasonographic Ureteral Jets and CT Excretory Urography**

🕒 4:30 PM - 4:45 PM, May 24