

# AZVT Presentation Title History

*Titles of previously presented posters, presentations, round table discussions, and wet labs from past years - to reference for future presentations. Please review this information when deciding on your topic. Some topics are rather popular and often brought up for presentation. In the interest of keeping things fresh and sharing new information, the Editorial Committee will evaluate the submitted topic and evaluate whether or not it has been presented too much in the recent past.*

*Please keep in mind that if a topic has been covered frequently in the recent past, you may be asked to rethink your subject matter or asked to wait for another year.*

## 42nd Annual Meeting – 30 October - 4 November, 2022 Reid Park Zoo – Tucson, Arizona

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Treatment of a Pyometra in a Well Trained Critically Endangered Amur Leopard ( <i>Panthera pardus orientalis</i> )	(A)	Sohl & Ayrault
Successful Rehabilitation Following a Traumatic Beak Amputation in a North Island Brown Kiwi ( <i>Apteryx mantelli</i> )	(A)	Cockrell
Ruptured Air Aacs in Avian Species [2022 LPP Scholarship Winner]	(P)	Beard
Managing a Degloving Injury of a Red-Rumped Agouti ( <i>Dasyprocta leporina</i> ): Challenges to Continuity of Care	(A)	Maldonado & Gray
Euthanasia Due to Progressive Urogenital Carcinoma in a California Sea Lion ( <i>Zalophus californianus</i> ) Caused by Otarine Herpesvirus 1	(P)	Burmeister
The Importance of Dark Skies and the Need to Combat Light	(A)	Orlando
Early Aggressive Treatment of EEHV1A in an Asian Elephant ( <i>Elephas maximus</i> ) Calf and the Importance of Serology and PCR Testing	(A)	Mccrae
Influence of Herd Size and Animal Transfers on Shedding Frequency and Quantity of Elephant Endotheliotropic Herpesvirus in Asian Elephants ( <i>Elephas maximus</i> )	(A)	D'Agostino
Zoo Dental Radiography: A Guide for Veterinary Professionals	(A)	Chapin
Theories and Reality of Exotic Animal Crossmatching	(A)	Lafarga
Intraoperative Management of an Intracranial Abscess Debridement of a Bonobo ( <i>Pan paniscus</i> )	(A)	Chanthalangsy
Post Operative Management of Brain Surgery in a Juvenile Bonobo ( <i>Pan paniscus</i> )	(A)	Croce
The Unusual Anatomy of Australian Monotremes - Part II	(A)	Tochterman

Abnormal White Blood Cell Review		Stacy & Arnold
Solving the Mystery of Estimated White Blood Cell Counts	(P)	Arnold
Necropsy Sampling Techniques: Preparing Samples for Histology Processing	(A)	Walsh
Conquering Avian Cholera: Audubon Zoo's Preparation and Management of an Avian Cholera Outbreak	(A)	Starkey
Dental Challenges in Exotic Animals		Winckler
The Art of Establishing Boundaries to Sustain a Healthy Career	(A)	McNally
Pharmaceutical Reverse Distribution for Zoos	(A)	Riecken & Ghormley
Comparison of Selected Blood Analytes Obtained by Istat®, Two Laboratory Analyzers, and Manual Techniques in Wild Florida Manatees ( <i>Trichechus manatus latirostris</i> )	(A)	Adler
Distribution, Diagnoses, and Prevention of Echinococcus Multilocularis in Zoo Environments	(P)	Shahab
An Overview of Pythiosis: A Fungal-Like Infection of Concern	(A)	Hoskinson
Placenta Previa in a 39-Year-Old Western Lowland Gorilla ( <i>Gorilla gorilla gorilla</i> ) at Zoo New England	(A)	Orlando

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## POSTERS

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Amphibian Fluid Solutions: Formulations and Storage	(A)	Frum
Blood Transfusions: A Quick Reference Guide	(P)	Lydick

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## WET LABS

Blood Crossmatching Wet Lab		<i>Lafarga</i>
Urinary Catheter Placement Wet Lab	(A)	<i>Croce</i>

# 41st Annual Meeting – 1-6 October, 2021

## Virginia Zoo – Norfolk, Virginia

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Blood Gas Analysis in Mammalian and Avian Patients: The Value of Point of Care Devices and a Need for More Data	(A)	Jones
Megacolon Treatment, Subsequent Colonic Resection with Anastomosis, and Management in a Red Tegu ( <i>Salvator rufescens</i> )	(A)	Bonanni
Avian and Reptile Hematology: Highlights and Cases		Stacy
Aspergillosis in Veterinary Medicine: Aspects of Biology and Diagnostics	(A)	Cray
Pzp Immunocontraception in Zoos	(A)	Frank
The Poke of Comfort – Acupuncture in Zoo Medicine	(A)	Harrison
Haemosporidian Parasites and Treatment in Captive Common Eiders ( <i>Somateria mollissima</i> )	(A)	Cockrell
The Unusual Anatomy of Australian Monotremes	(A)	Tochterman
Follow The Swallow: A Practical Overview of Dysphagia for Zoo Veterinary Technicians	(P)	Hurley
Effect Of Therapeutic Laser as a Multimodal Approach to Treatment of Dermal Abrasions in the Cownose Ray ( <i>Rhinoptera bonasus</i> )	(A)	Gilewski
The Application of High-Definition Volumetric Imaging Computed Tomography in Zoo Medicine	(A)	Monti & Brittingham
Successful Removal of a Type B1 Thymoma From a 10-Year-Old Female Red Panda ( <i>Ailurus fulgens styani</i> )	(P)	Nickolopoulos
Pest Management In Zoos: How and Why Veterinary Technicians Play an Important Role	(A)	Huber
Treating Anticoagulant Rodenticide Toxicity with Blood Transfusions in Red-Tailed Hawks ( <i>Buteo jamaicensis</i> ): Three Case Studies	(P)	Simpson
Storing, Maintaining, and Archiving Biological Samples: Alternative Methods and Collaborations	(P)	Dragoo
Harnessing Welfare Assessment Tools to Move From Compassion Fatigue to Compassion Satisfaction in Animal Caretakers	(A)	McNally
Treating Heartworm ( <i>Dirofilaria immitis</i> ) in a Maned Wolf ( <i>Chrysocyon brachyuris</i> )	(A)	Wesselmann

Managing Arthritis in a Dromedary Camel ( <i>Camelus dromedarius</i> ) Using Multimodal Therapy	(A)	Pope
Anticoagulants: Why That Tube for That Animal for That Test	(P)	Nelson
Fungal Air Sampling Program at The Maryland Zoo in Baltimore to Monitor <i>Aspergillus</i> Species Exposure in an African Penguin ( <i>Spheniscus demersus</i> ) Colony	(A)	Brubaker
The Challenges and Advantages of Implementing In-House Blood Analysis in a Zoo Setting	(A)	Brittingham & Monti
Veterinary Preparedness and Emergency Response to Australian Native Wildlife Impacted by Fire Events in Victoria, Australia	(P)	Ryan

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

Application of Urinary Catheterization in Zoo Medicine	(A)	Croce
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## WET LABS

Necropsy Wet Lab		<i>Walsh</i>
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## 40th Annual Meeting – 3-6 October, 2020 Virtual Conference – Run The World

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Shocking! Electric Eel ( <i>Electrophorus electricus</i> ) Restraint, Anesthesia, Anatomy, and Water Quality Challenges	(P)	McMurrer
Elasmobranch Anesthesia: An Overview	(P)	Barron
Cliffside Phlebotomy, Cryo-Shippers and More: A Crash Course in Field Research with Gentoo ( <i>Pygoscelis papua</i> ) and Southern Rockhopper ( <i>Eudyptes chrysocome</i> ) Penguins in the Falkland Islands	(A)	Cambell
Giant Manta Ray ( <i>Manta birostris</i> ) Exams: Sample Collection and Processing	(P)	Kliesrath
Diagnostics and Treatment Protocols in Response to an Acute Mortality Event in Sea Urchins ( <i>Strongylocentrotus</i> spp., <i>Mesocentrotus franciscanus</i> )	(P)	Dunleavy
Lactate Meter: An Underutilized Tool for Assessment of Hypoperfusion	(P)	Merkel
Making a Safe Zoo Safer	(A)	McNally
How, What, and Why of Acute Phase Protein Testing	(A)	Cray
RECOVER: Bringing an Evidence Based Reassessment Campaign on Veterinary Resuscitation (RECOVER) Initiative to a Zoological Facility	(A)	Bartolini
Avian Respiratory Disease: The Case of a Dyspneic Goose ( <i>Anser anser domesticus</i> ) [2020 LPP Scholarship Winner]	(P)	Cooper
The Struggle was Real: Managing a Young Southern White Rhinoceros ( <i>Ceratotherium simum simum</i> ) with Multiple Health Issues	(A)	Sohl & Studer
Excision of a Salivary Gland Adenoma and Post-Operative Care in a North Island Brown Kiwi ( <i>Apteryx mantelli</i> )	(A)	Cockrell
Postoperative Care and Physical Rehabilitation Following a Hemilaminectomy in a Young Adult Brown-Nosed Coatimundi ( <i>Nasua nasua</i> )	(P)	Wilson
A Survey of Blood Lead Levels in Black Kites ( <i>Milvus migrans govinda</i> ) as a Model for Predicting Levels in the Critically Endangered White-Rumped Vulture ( <i>Gyps bengalensis</i> ) in Ahmedabad, India [Full paper presented in 2019]	(A)	Rendle
Presumptive Campylobacter-Associated Guillain-Barre Syndrome in a Coquerel's Sifaka ( <i>Propithecus coquereli</i> )	(A)	Mott & Miller
So you Have a Young Elephant... What you Need to Know About Elephant	(A)	Latimer

## Endotheliotropic Herpesvirus (EEHV) Monitoring and Diagnostics

Conservation Translocations of Fishers ( <i>Pekania pennanti</i> ) from Alberta to Washington State, and the Veterinary Contributions in Between	(A)	Peccie
Crossmatching Blood from Asian Elephants ( <i>Elephas maximus</i> ) at the Houston Zoo: A Review of the Methodology and Challenges	(P)	Atkinson
Non-Lethal Solutions to Wildlife Management in Zoos: Starting with Raccoons ( <i>Procyon lotor</i> )	(P)	Brittingham
Presentation of Chronic Draining Abscesses in Two Kunekune ( <i>Sus scrofa scrofa kunekune</i> )	(P)	Nickolopoulos
Audubon Research Projects as a Model for Student Collaborations Impacting Avian Conservation	(P)	Little
Mental Health as it Pertains to Zoo Veterinary Technicians	(A)	McNally

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## POSTERS

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Development of a Weighted Arness for a Positively Buoyant Green Sea Turtle ( <i>Chelonia mydas</i> ): A Multi-Department Collaboration	(A)	Gilewski
Applications of a Portable Computerized Tomography Scanner in a Zoo Setting	(A)	Thompson
Survey of Canine Distemper Virus in Free Ranging Raccoons ( <i>Procyon lotor</i> ) in Northeastern Illinois		Simpson

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## WET LABS

Organize Your Curiosity: How to Write in Science		<i>Camillo</i>
Getting the Most Out of the Sample Storage Module of ZIMS Software		<i>Teare</i>

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# **39th Annual Meeting – 22-27 September, 2019 Cheyenne Mountain Zoo – Colorado Springs, Colorado**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

No, OSHA is Not a Small City in Wisconsin: Safety and Health Regulations for Zoo Veterinary Staff	(A)	Gallagher
A Veterinary Nurse's Role in Health and Welfare of Geriatric Zoo Animals at ZSL London Zoo	(P)	Sparrow

Voluntary Therapeutic Large Volume Phlebotomy of Ex-Situ Black Rhinoceroses ( <i>Diceros bicornis</i> ) for the Treatment and Prevention of Iron Overload Disorder	(P)	Nelson
Obesity of Reptiles in Managed Care	(P)	Munakata
A New Three Step Method to Healing Wounds in a Zoo Setting	(A)	McLeod
A Novel Treatment for Subsolar and Digital Abscesses Utilizing an Epoxy Patch System in Asian Elephants ( <i>Elephas maximus</i> )	(A)	Keating
Life in the Slow Lane: My Time with the Sloth Institute of Costa Rica [2017 AZVT Grant Recipient]	(P)	Heinze
Medical Management of Captive Eastern Indigo Snakes ( <i>Drymarchon couperi</i> ) Infected with <i>Cryptosporidium serpentis</i>	(A)	Dickerson
How our Waste can be Used to Help Animal Rescues and Sanctuaries Around the Globe	(A)	Tarwater
Polar Bear ( <i>Ursus maritimus</i> ) Conservation Efforts at Assiniboine Park Zoo	(P)	Majure
Heeding the Call: Global Emergency Response to Wildlife Trafficking in Madagascar [2018 AZVT Grant Recipient]	(P)	Walsh
Saving the Orange-Bellied Parrot ( <i>Neophema chrysogaster</i> ) from Extinction	(A)	Rice
Malignant Cattarrhal Fever: An in Depth Review	(P)	Rocca
Common Reptile Emergencies		Klaphake
Live Animal Logistics	(A)	Arimborgo
A Literature Review of the Physiological Effects of Electrofishing on Fish and Amphibians [2019 LPP Scholarship Winner]	(P)	Blose
Cytology Features of Inflammation and Neoplasia in Your Creatures	(P)	Pond
Scanning Electron Microscopy and Transmission Electron Microscopy: Applications in Veterinary Medicine	(A)	Maurer
Comparison of Fibrinogen and Erythrocyte Sedimentation Rate with Commonly Utilized Inflammatory Indices as Part of the Hematological Profile in the African Penguin ( <i>Spheniscus demersus</i> )	(A)	Gilewski
A Survey of Blood Lead Levels in Black Kites ( <i>Milvus migrans govinda</i> ) as a Model for Predicting Levels in the Critically Endangered White-Rumped Vulture ( <i>Gyps bengalensis</i> ) in Ahmedabad, India	(P)	Rendle
Utility and Efficacy of Mesenchymal Stem Cell Therapy for Wounds and Osteoarthritis	(A)	Johnson

in Megavertebrates and Large Carnivores

Evaluating Performance of Blood Testing Devices	(P)	Arnold
Diagnostic Testing of Haemospridian Infections in African Penguins ( <i>Spheniscus demersus</i> ) During Rehabilitation in South Africa	(A)	Zietz
Cesarean Section of 0.1 Sumatran Orangutan ( <i>Pongo abelii</i> ) with Subsequent Hand Rearing and Successful Reintroduction of Offspring	(P)	Schwenzer
Case Management of a Luxated Flexor Tendon in an African Penguin ( <i>Spheniscus demersus</i> )	(A)	Youngclaus
Emergency Caesarean Section in a Giraffe ( <i>Giraffa camelopardalis</i> )	(A)	Young
Successful use of Becaplermin Gel on a Chronic, Progressive, Ulcerative Skin Wound in a Cross River Puffer ( <i>Tetraodon pustulatus</i> )	(A)	Czudak
A Curious Case of Atypical Brucellosis	(P)	DeBoef
Neuromuscular Blocking Agents and Anesthetic Monitoring of Western Lowland Gorillas ( <i>Gorilla gorilla gorilla</i> ) Undergoing Laparoscopic Surgery	(P)	Romanoski

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**POSTERS**

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An Overview of the Imaging Modalities and Protocols Used to Study and Monitor the Vulnerable African White-Bellied Pangolin ( <i>Phataginus tricuspis</i> )	(A)	Jannasch
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**WET LABS**

Cytology Wet Lab	<i>Pond</i>
Medical Behavior Training	<i>Hester</i>
Zoo Hoofstock Trim Program	<i>Foxworth</i>

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**38th Annual Meeting – 25-29 August, 2018  
Columbus Zoo and Aquarium -- Columbus, Ohio**

**PRESENTATIONS**

*Note: (P) denotes full paper; (A) denotes abstract only*

A Non-Invasive Approach to Removal of a Non-Viable Mummified Pup in a Cownose Ray ( <i>Rhinoptera bonasus</i> )P	(P)	Gilewski
Acupuncture as an Alternative to Medication for Pain Control in Exotic Species	(P)	Landacre



Cats from the Wild: Stories of Rehabilitation of Florida Panthers ( <i>Puma concolor coryi</i> ) at ZooTampa at Lowry Park	(A)	Henry
Clinical Indications for Caesarean Section: A Case Study in an Allen's Swamp Monkey ( <i>Allenopithecus nigroviridis</i> ) at the Kansas City Zoo [2018 Recipient, Laurie Page-Peck Scholarship]	(P)	Flippin
Comparing Natt-Herrick and Eos-TIC® Manual White Blood Cell Counts in Sea Turtles	(A)	Arnold
Conservation Medicine/One Health—Gorilla Doctors and The Wilds	(A)	Ramer
Diagnosis and Management of Exocrine Pancreatic Insufficiency in a Slender-Tailed Meerkat ( <i>Suricata suricatta</i> )	(A)	Duncan
Enhancing Giraffe Preventative Medicine Through Collaborative Efforts and Advanced Training Programs	(A)	Bapodra-Villaverde
Giraffes Galore! From 2 to 10 in 3: A Small Zoo's Journey to Advanced Medical Care	(A)	Davis
Have You Hugged Your Bear Today? And Should You? Animal Welfare in the Zoo Setting	(A)	Junge
Management of Chronic Weight Loss in an Addax ( <i>Addax nasomaculatus</i> ): The Case of an Opportunistic Infection	(P)	Aubuchon
Medical Management and Acclimation of Former Research Baboons into Troops in a Sanctuary Setting	(P)	Tarwater
Preventative Health Program for Monitoring Monogenean Parasite Infections in Leopard Sharks ( <i>Triakis semifasciata</i> ) at Monterey Bay Aquarium	(P)	Young
Rehabilitating a Juvenile Bald Eagle ( <i>Haliaeetus leucocephalus</i> ) with Nerve Damage	(A)	Little
Same Enclosure, Different Approach: How to Modify Your Technique to be Successful	(A)	McNally
The Maryland Zoo in Baltimore's Avian Malaria Monitoring and Treatment Program in African Penguins ( <i>Spheniscus demersus</i> )	(A)	Sohl and Studer-Green
Tissue Healing: Understanding the Process is Critical to Effective Wound Management	(P)	Lydick
Treatment of Soft-Tissue Sarcoma in a Jaguar ( <i>Panthera onca</i> ) Using Stereotactic Radiation	(P)	Romanoski
Two Diseases, One Corner, and Loads of Potential for Cross-Contamination: Featuring <i>Ophidiomyces ophiodiicola</i> and <i>Cryptosporidium serpentis</i>	(A)	O'Brien
Use of Fentanyl Transdermal Systems as a Method of Pain Management in a Black Mamba ( <i>Dendroaspis polylepis</i> )	(P)	Walosin
You Help Me, I Help You: Data Collection for Informed Use of Contraception	(P)	Franklin

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## POSTERS

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The Animal Care Center at Monterey Bay Aquarium: Justifying the Need for More Space	(A)	Young
The ZRA Training Certificate Program and How it Benefits You in the Zoological Registrar Role	(A)	Roach (Arimborgo)

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## WET LABS

Cytology Basics: Inflammation Versus Neoplasia	Pond
Darting Lab	Ramer
Fish and Elasmobranch Blood Cell Morphology	Arnold

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## ROUND TABLE DISCUSSIONS

AZA Reproductive Management Center Round Table	Franklin
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# **37th Annual Meeting – 5-8 September, 2017 Edmonton Valley Zoo -- Edmonton, Alberta, Canada**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Chasing the Elusive Mountain Tapir ( <i>Tapirus pinchaque</i> ): Conservation in the Paramo	(A)	Wilfong
Coping with Errors and Unanticipated Outcomes in Zoo Medicine / Self-Care for Zoo Medicine Technicians	(P)	Holowaychuk
Diagnosis and Management of Polycystic Kidneys in an African Lion ( <i>Panthera leo krugeri</i> )	(A)	Corbus
Fish Diseases	(A)	Haulena
Good Vibrations: Vibration Therapy in a Sand Impacted Desert Tortoise ( <i>Gopherus agassizii</i> )	(A)	Weidner
In-House Polymerase Chain Reaction: Lab Setup, Reaction Basics and Advantages for Screening Elephant Endotheliotropic Herpes Virus (EEHV)	(A)	Jones
Lip-to-Lid Transposition of Eyelid Coloboma and Post-Surgical Management in a Litter of Snow Leopard Cubs ( <i>Uncia uncia</i> )	(A)	Freudenthal
Management and Diagnosis of Ventricular Adenocarcinoma in a Humbolt Penguin	(A)	Aemmer

*(Spheniscus humboldti)*

Management Challenges Using Open Water Systems: Case Studies on Smooth Lumpsuckers ( <i>Aptocyclus ventricosus</i> ) and the Alaska Blackfish ( <i>Dallia pectoralis</i> )	(A)	Belovarac
Marine Mammal Anesthesia	(A)	Haulena
Monitoring Controlled Substance in a Busy Zoo Setting	(A)	Castro
Oronasal Fistula Management in the Victoria Koala ( <i>Phascolarctos cinereus victor</i> )	(A)	Rice
Rehabilitative Care and Hand-Rearing in a Colony of Spectacled Flying Foxes ( <i>Pteropus conspicillatus</i> ) Seasonally Affected by Paralysis Ticks ( <i>Ixodes holocyclus</i> ) in Australia	(P)	Eidlin
Saving Endangered East African Grey Crowned Cranes ( <i>Balearica regulorum gibbericeps</i> )	(A)	Peirson
Stem Cell Therapy in Zoological Medicine	(A)	McCrae
The Care and Feeding of Externs: What a Veterinary Technician Student Extern Can do for You	(A)	Hoskinson
The Ocular Lens in Zoo Medicine: Anatomy, Physiology, and Common Pathologies	(P)	Monti
Toxoplasmosis in Bennett's Wallaby ( <i>Macropus rufogriseus</i> )	(A)	Rooker
Transitional Cell Carcinoma in a Linne's Two-Toed Sloth ( <i>Choloepus didactylus</i> )	(P)	Merkel
Understanding Cardiomyopathy: An Overview	(A)	Olsen
Utilization of Targeted Pulse Electromagnetic Field (tPEMF) Therapy in Treatment of a Refractory Wound in a Zebra Shark ( <i>Stegostoma fasciatum</i> )	(A)	Cochran

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## POSTERS

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Who Knew You Could Train a Kudu: The Use of Operant Conditioning to Manage Hoof Health in a Lesser Kudu ( <i>Tragelaphus imberbis</i> )	(A)	Brubaker
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## WET LABS

How to Thrive (Not Just Survive) as a Zoo Medicine Technician	Holowaychuk
Incorporating Veterinary Services into Behavioral Training for Medical Procedures	Castor

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**36th Annual Meeting -- 14–17 September, 2016  
Tulsa Zoo -- Tulsa, Oklahoma**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

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| Bilateral Cataract Removal via Phacoemulsification with the Use of Endolaser and Implanted Custom Made Lenses on a Jaguar ( <i>Panthera onca</i> )   | (A) | McNally         |
| Care and Medical Management of a Chronic Foot Lesion in a Southern Isabela Tortoise ( <i>Chelonoidis nigra vicina</i> ) with a Prosthetic Boot and Vacuum-Assisted Wound Closure             | (A) | Jones           |
| Correlation of Previous and Concurrent Disease Process with Computed Tomography (CT) Images and Post-Mortem Findings in a Prevost's Squirrel ( <i>Callosciurus prevostii</i> )               | (P) | Schwenzer       |
| Degradation of Hematology Samples Over Time and the Effects on Complete Blood Count Results in Mammals, Birds and Reptiles   | (A) | Trotta-Hissrich |
| Determining the Prevalence of <i>Dirofilaria immitis</i> in American Black Bears ( <i>Ursus americanus</i> ) in Mississippi  | (P) | Hoskinson       |
| Development of Portable Molecular Diagnostic Technology for Canine Distemper Virus Detection in Endangered Carnivores  | (A) | Tomaszewicz     |
| Diagnosis and Management of Renal Disease and Osteoarthritis in a Geriatric North American Cougar ( <i>Puma concolor</i> )   | (A) | Ortiz           |
| Eastern Equine Encephalomyelitis Virus in Southern Cassowary ( <i>Casuaris casuaris johnsonii</i> ) at the Virginia Zoo  | (A) | Rooker          |
| Fintastic! Teleost Nursing Techniques  | (A) | Fleming Jones   |
| In-House Techniques to Detect Iron Deposits on Tissue Cytology in Avian Species Prone to Iron Overload Disorder<br>[2016 Recipient, Laurie Page-Peck Scholarship]                            | (P) | Walsh           |
| Innovations in Gas Anesthesia in a Remote Field Setting  | (A) | Runnells        |
| Knowing Your Platelets: The Role of Platelets in Elephant Endotheliotropic Herpesvirus and Routine Monitoring Method to Aid in Early Detection in Asian Elephants ( <i>Elephas maximus</i> ) | (P) | Pich            |
| Management of Amphibian Cloacal Tissue Prolapse with an Overview of Anesthesia, Surgery, and Patient Care  | (P) | Woods           |
| Medical Management of a Suspected Viral Thyroiditis in a Female Western Lowland Gorilla ( <i>Gorilla gorilla gorilla</i> )   | (A) | McCrae          |
| Multimodal Therapies to Treat Chronic Arthritis in the Fetlock of a Reticulated Giraffe ( <i>Giraffa camelopardalis reticulata</i> )   | (P) | Mott            |

Nursing Care of the Koala ( <i>Phascolarctos cinereus</i> )	(A)	Turnage
Ocean Plastic: A Deadly Diet	(A)	Montgomery
Persistent Right Aortic Arch in a Giraffe ( <i>Giraffa camelopardalis</i> )	(A)	McCrae
Physical Rehabilitation of an Acutely Paretic Maleo ( <i>Macrocephalon maleo</i> )	(P)	Chin
Principles and Best Practices for a Zoo Animal Neonatal Care Unit	(P)	Hedberg
Real Time Global Resources Changing Zoological Medicine	(P)	Teare
Surveillance for Viral and Parasitic Pathogens in a Vulnerable African Lion ( <i>Panthera leo</i> ) Population in the Northern Tuli Game Reserve, Botswana	(A)	McDermid
The Case of the Three Bears: Continued Learning and Experience in Hand-Rearing Neonatal Polar Bears ( <i>Ursus maritimus</i> ) at the Toronto Zoo	(A)	Mihailovic
The Role of the Zoological Veterinary Technician in a Conservation Success Story	(A)	Zietz
Wild Wednesday - How to Shine the Spotlight on Your Zoo	(A)	Taylor

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## POSTERS

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Cryotherapy for a Casque Mass in a Violet Turaco ( <i>Musophaga violacea</i> )	(P)	Woods
Designing an Online Hand-Rearing Resource Center: The First Steps	(A)	Hedberg
Horseshoe Crab ( <i>Limulus polyphemus</i> ) Review	(A)	McMillen

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## WET LABS

A Comparative Analysis of Elephant Hematology	Sohl <i>(in collaboration with University of Miami Comparative Pathology Lab)</i>
Elephant Reproductive Tract Anatomy and Physiology with Ultrasound Exam: Basics of Semen Quality Assessment and Processing	Kiso
Organize Your Curiosity: How to Write in Science	Camillo
ZIMS	Teare
1. Introduction to ZIMS for Medical	
2. ZIMS Tests and Results in Depth	

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**35th Annual Meeting -- 9–12 September, 2015**  
**Point Defiance Zoo & Aquarium -- Tacoma, Washington**

**PRESENTATIONS**

*Note: (P) denotes full paper; (A) denotes abstract only*

A True Trooper: Successful Treatment of Capture Myopathy in a Lesser Flamingo ( <i>Phoeniconaias minor</i> ) Through Multi- Modal Drug Therapy and Physical Rehabilitation	(A)	Quataert
Diagnosis and Medical Management of Autoimmune Disease in a Juvenile African Elephant ( <i>Loxodonta africana</i> )	(A)	Galvanek
Diagnosis of <i>Mycobacterium tuberculosis</i> in 1.0 Eastern Black Rhinoceros ( <i>Diceros bicornis michaeli</i> ), and Subsequent Testing and Monitoring of Remaining 1.2 Black Rhinoceros and Animal Care Staff	(P)	Plummer
Diagnostic Metagenomics - An Emerging Tool in Monitoring Fish Health	(A)	Haman
Do You Know What's Growing in Your Exhibits? Ten Toxic Plants to Avoid	(P)	Burmeister
Hemochromatosis: An Overview of Disease Diagnosis, Treatment, and Clinical Management in a Population of Atlantic Bottlenose Dolphins ( <i>Tursiops truncatus</i> ) at the National Aquarium	(A)	Steinert
How to Prepare for an AZA Inspection, and Survive!	(A)	Ortiz
Improvements to Animal Health Care Through the Use of Operant Conditioning for Intravenous Induction of Anesthesia at the Oregon Zoo	(P)	Harvison
Inflammatory Bowel Disease in the Red Wolf ( <i>Canis rufus</i> ): An Emerging Concern	(A)	Wolf
Inhalant Anesthesia in an Adult Reticulated Giraffe ( <i>Giraffa camelopardalis reticulata</i> )	(A)	Wilfong
Laminitis in Exotic Hoofstock	(A)	Wiedner
Marine Mammal Field and Deployment Medicine	(A)	Lutmerding
Medical and Behavioral Management of Chronic Psychogenic Alopecia in a Jaguar ( <i>Panthera onca</i> )	(A)	Aemmer
Ocular Prostheses Trials in Marine Fish	(A)	Anderson
Outcomes of the AZA Workshop on Infertility and an Introduction to Lifetime Reproductive Planning	(A)	Agnew
Pneumocoelom in a Green Sea Turtle ( <i>Chelonia mydas</i> )	(A)	Coy
Release of a Snowy Owl ( <i>Bubo scandiacus</i> ) at the Maryland Zoo in Baltimore in Conjunction with Project SNOWstorm	(A)	Brittingham

Slow Bolus Administration of Parenteral Nutrition for the Treatment of Chronic Debilitation in Sea Turtles	(A)	Montgomery
Surgical Repair of Tibial Fracture in a Juvenile Red Kangaroo ( <i>Macropus rufus</i> ) with Minimal Aftercare Required - [2015 Recipient, LPP Scholarship]	(P)	Olmedo
The Challenges of Critical Care Through Protected Contact: A Case Study of a North American River Otter ( <i>Lontra canadensis</i> )	(A)	Studer
The Cornea in Zoo Medicine: Anatomy, Physiology, and Common Keratopathies	(P)	Monti
The Effects of Housing in a Communal Barn on Concentrations of Stress and Reproductive Hormones in Female Giant Anteaters ( <i>Myrmecophaga tridactyla</i> ) [2013 AZVT Grant Recipient]	(P)	Buice
The Influence of Avian Herd Immunity on West Nile Virus Transmission in Chicago, Illinois	(A)	McKee
The Use of Finger Blood Pressure Measurement for the Monitoring of Cardiovascular Disease in Bonobos ( <i>Pan paniscus</i> ) at the Milwaukee County Zoo	(A)	Korman
Urban and Migratory Bird Conservation	(A)	Maurer
Use of a Novel Radiographic Technique for Pregnancy Determination and Fetal Count in Cheetahs ( <i>Acinonyx jubatus</i> ) and Maned Wolves ( <i>Chrysocyon brachyurus</i> )	(A)	Ware
Voluntary Venipuncture in Great Apes	(P)	Debose

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## POSTERS

Note: (P) denotes full paper; (A) denotes abstract only

Can We Prevent a Heck-of-a-Lot of Hippos? A Castration Procedure on a Hippopotamus ( <i>Hippopotamus amphibious</i> )	(A)	Wheeler
Class III Laser Application in a Zoo Setting	(A)	Brush
Clinical Use of GV-26 Acupuncture Point for Reduction of Anesthetic Recovery Time in Reptiles	(A)	Bartolini

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## WET LABS

Advanced Digital Radiographic Techniques and Image Processing	Waters
Gross Necropsy Technique for Zoo Veterinary Technicians	Garner
Low Velocity, Short Range Darting in the Zoological Setting	Case
ZIMS for Medical Workshop: Tips, Tricks, Pitfalls, and Pathology	Teare

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**34th Annual Meeting -- 9–15 September, 2014**  
**The Georgia Sea Turtle Center -- Jekyll Island, Georgia**

**PRESENTATIONS**

*Note: (P) denotes full paper; (A) denotes abstract only*

- Banking for Babies: How and Why Bank Plasma for Neonatal Ungulates (A) Olson
- California Sea Lion (*Zalophus californianus*) Anesthesia Techniques for the Veterinary Technician (P) McGrew
- Chelonid Fibropapilloma-Associated Herpesvirus Infection In Symptomatic and Asymptomatic Infected Green Sea Turtles (*Chelonia mydas*) (A) Page-Karjian
- Collecting and Trimming Tissues for Histopathology: How to Get the Most Information from Necropsies and Biopsies (A) Stedman
- Comparative Cytology of Respiratory Samples of Atlantic Bottlenose Dolphins (*Tursiops truncatus*) in Rotan, Honduras (P) Harman  
[**Student Presentation**]
- Cryosurgical Application as an Adjunctive Therapy in Treating Reactive Hyperplastic Pododermatitis in a White Rhinoceros (*Ceratotherium simum*) (P) Deiter
- Diagnosis and Treatment of Cardiac Arrhythmia in a Kori Bustard (*Ardeotis kori*) (A) Balfour
- Diagnosis of Blastomycosis in a Wild Caught Polar Bear (*Ursus maritimus*) (A) Huber
- Diagnostic Sample Handling and Processing and Hematology of Exotic Animal Species: Tips and Tricks (A) Stacy
- In-House Production of Antimicrobial-Impregnated Polymethyl Methacrylate (AIPMMA) Beads and Their Use in a Nayala (*Tragelophus angasii*) with Recurring Facial and Cervical Abscessation (P) Smoot
- Lead Toxicity in Argentine Water Fowl Caused by Spent Ammunition, and its Effects on the Ecosystem of Santa Fe Province, Argentina (A) Marchese  
[**2012 AZVT Grant Recipient**]
- Lions(*Panthera leo*) as a Model System for Investigating Reversibility Following Suprelorin® Treatment (A) Agnew
- Listeriosis (*Listeria monocytogenes*) in Coquerel's Sifaka (*Propithecus coquereli*) at the Wildlife Conservation Society's Bronx Zoo (P) DeMeo & Gilewski  
[**2014 Recipients, LPP Scholarship**]



Making Your Pharmacy Work for You	(A)	Towson
Medical and Surgical Management of a Fungal and Bacterial Infection in the Toes of a White Crested Laughing Thrush ( <i>Garrulax leucolophus</i> )	(A)	Rooker
National Marine Mammal Foundation: Our Mission to Improve Life for All Marine Mammals	(A)	Longenecker
Observations Between White Blood Cell Morphology and Disease Severity During a Ranavirus-Herpes Virus Coinfection in a Group of Captive Eastern Box Turtles ( <i>Terrapene carolina carolina</i> )	(A)	Sohl
Operant Conditioning of American Alligators ( <i>Alligator mississippiensis</i> ) at the North Carolina Zoological Park	(A)	Scott-Shaub
Overview of Pain Management in Reptiles and Pharmacokinetics of Tramadol and O-Desmethyltramadol in Loggerhead Sea Turtles ( <i>Caretta caretta</i> )	(A)	Norton
Plasma Corticosterone Levels as a Predictor of Stress, Reproductive Success, and Health Status in Free-Ranging Nesting Loggerhead Sea Turtles ( <i>Caretta caretta</i> )	(A)	Flower
Sea Turtle Health Programs of the St. Kitts Sea Turtle Monitoring Network ( <i>Program Overview</i> )		Stewart
Sea Turtle Neurology	(A)	Norton
Supplements for Exotic Animals	(A)	Mejia-Fava
Techniques to Monitor Wildlife Health: Baseline Assessments, Investigating Mortalities, and Tracking Pathogens Between Ecosystems	(A)	Haman
The Art of Training Uncommon Animals for Common Diagnostic Procedures	(A)	Weidner
The Care and Management of a Western Lowland Gorilla ( <i>Gorilla gorilla</i> ) with a Fractured Mandible	(A)	Norris
The Georgia Sea Turtle Center, Past, Present, and Future—A Model for Conservation of Wildlife [ <i>Keynote Address</i> ] ( <i>Institution Overview</i> )		Norton
The Logistics of Anaesthetising an Aldabra Giant Tortoise ( <i>Aldabrachelys gigantea</i> ) for Phallic Amputation	(A)	Ryan
The Medical and Surgical Intervention of Intestinal Ileus and Obstruction in Juvenile Black-Footed Penguins ( <i>Spheniscus demersus</i> )	(P)	Lovering
The Role of Zoos in Conservation Medicine and One Health	(A)	Palmer
The Treatment of Anaplastic T-Cell Lymphosarcoma in a South African Lion ( <i>Panthera leo krugeri</i> )	(P)	Hinkle

The Turtle Survival Center: A Challenging Start	(A)	Koeth
Using Arterial Blood Gas Analysis as a Tool for Patient Management	(A)	Mobley
What the Hellbender? Veterinary Contributions During <i>Cryptobranchus alleganiensis alleganiensis</i> Field and In-House Research	(P)	Skeba
You Had Me at Trocar: Acute Gastric Ileus with Secondary Gas Distention in the South American Lungfish ( <i>Lepidosiren paradoxa</i> )	(A)	Jones

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

An Overview of the Hematologic Evaluation of Anemic Sea Turtles in Rehabilitative Care at the Georgia Sea Turtle Center	(A)	Nelson
Find Those Gonads! Sex Determination Using Laparoscopy in Bolson Tortoises ( <i>Gopherus flavomarginatus</i> )	(A)	Smith
Long Term Activity of Loggerhead Sea Turtles ( <i>Caretta caretta</i> ) on Jekyll Island, GA, USA: A Demographical Summary based on 40 Years of Tagging on a Developed Beach	(A)	Ondich
Radiography of Nonhuman Primates in Centers for Disease Control and Prevention (CDC) Quarantine	(P)	McCaffree
Survivability for Captive Neonatal Sichuan Takin ( <i>Budorcas taxicolor tibetana</i> ) as Assessed by Passive Transfer Status and Neonatal Clinical Pathology Profiles	(A)	Ullmer
The Itsy-Bitsy Spider and its Hemolymph: Phlebotomy and Slide Preparation for Arachnids	(A)	Mott
Transmitter Placement Methods in Wild American Alligators ( <i>Alligator mississippiensis</i> )	(A)	Skupien

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## WET LABS

Sea Turtle Necropsy and Anatomy Lab	Stedman & Norton
Venomous Snake Capture/Restraint & Anesthetic Techniques	Andrews & Norton
Wound Vacuum-Assisted Therapy-Advanced Healing Techniques	Law (and Georgia Sea Turtle Center rehabilitation staff)
ZIMS for Medical - New Software Orientation	Moses

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**33rd Annual Meeting -- 4–9 September, 2013**  
**Alaska SeaLife Center -- Seward, Alaska**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Cardiovascular Irregularities in Veterinary Patients Under Anesthesia	(P)	Monti
Chelonian Anesthesia and Fungal Osteomyelitis: A Case Study of a Galapagos Tortoise ( <i>Chelonoidis nigra</i> )	(P)	Oresjo
Comparison of the iSTAT® Portable Chemistry Analyzer with the VetScan® for Field Use in South American Fur Seals ( <i>Arctocephalus australis</i> ) at Punta San Juan (PSJ), Peru <b>[Recipient, AZVT Grant]</b>	(A)	Pauley
Complete Blood Cell Counts in Southern Stingrays ( <i>Dasyatis americana</i> )	(A)	Burns
Diagnosis and Treatment of a Spinal Abscess in an Amur Tiger Cub ( <i>Panthera tigris altaica</i> )	(A)	Trotta
Effects of Transmitter Attachment on the Behavior of Captive Long-Tailed Ducks ( <i>Clangula hyemalis</i> ) and Common Eiders ( <i>Somateria mollissima</i> )	(A)	Ulman
Examining Maternal Investment in Steller Sea Lions ( <i>Eumetopias jubatus</i> ) Using Fatty Acids from Milk	(A)	Miller
Experimental Techniques for Measuring Immune Competence in Marine Animals	(A)	Counihan-Edgar
Field Work on Eurasian Black Vultures ( <i>Aegypius monachus</i> ) in Mongolia's Ikh Nart Nature Reserve	(A)	Bickel
Invasive Blood Pressure Monitoring in Exotics	(P)	Cramer
Looking for Worms in All the Wrong Places	(A)	Kinsella
Metastatic Urogenital Carcinoma in a California Sea Lion ( <i>Zalophus californianus</i> )	(A)	Halach
Monitoring Reproductive Hormones in Captive Adult Female Steller Sea Lions ( <i>Eumetopias jubatus</i> ) During a Breeding Program	(A)	Polasek
Obtaining Voluntary End Tidal Carbon Dioxide (EtCO <sub>2</sub> ) Levels in California Sea Lions ( <i>Zalophus californianus</i> )	(A)	Ortiz & Ostek
Pacific Walrus ( <i>Odobenus rosmarus</i> ) Haulout Disturbance and Recovery	(A)	Polasek
Physical Rehabilitation for Animals in a Zoo Setting: Potential Applications and Benefits in Veterinary Health	(A)	Frazier
Salmonellosis Outbreak in a Captive Collection of Rainbow Lorikeets ( <i>Trichoglossus</i> )	(P)	Mady

*haematodus*) at the Kansas City Zoo

[2013 Recipient, Laurie Page-Peck Scholarship]

The “Art” of Skull Preservation	(A)	Hoskinson
The Physiologic Changes That Occur in Cold-Stunned Sea Turtles	(A)	Steinert
The Prickly Patient: Wound Care in an African Crested Porcupine ( <i>Hystrix africaeaustralis</i> ) with Suspected Skin Fragility Syndrome	(P)	Buice (Skeba)
To Loop Or Not To Loop? That is the Question: A Comparison of Two Recovery Methods for Fecal Parasite Eggs	(A)	Jezier
Unique Aspects of Xenarthran Clinical Management	(P)	Rooker
ZIMS R2 Medical Release: Real-Time Web-Based Electronic Veterinary Medical Record Keeping, The Next Generation	(P)	Moses

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## POSTERS

Note: (P) denotes full paper; (A) denotes abstract only

Analysis of Testosterone and Estrogen Levels of 1.0 Grey Seal ( <i>Halichoerus grypus</i> ) Following Administration of Leuprolide Acetate	(A)	Flowers
Comparison of Asian Elephant ( <i>Elphas maximus</i> ) Foot Radiography Using Direct Digital and Analog Modalities	(A)	Ryan
Comparison of Body Temperature Readings Between an Implantable Microchip and a Cloacal Probe in Lorikeets ( <i>Trichoglossus haematodus</i> )	(A)	Hoskinson
Tegaderm™: A Fix For Cracked or Dented Eggs	(A)	DiMarzio
The Development of a Standard Technique for Direct Digital Radiography of Asian Elephant ( <i>Elephas maximus</i> ) Feet	(A)	Ryan

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## WET LABS

Fun with Fishes: A Review of Fish Medical Care and Management	Coy, Steinert, & Ferguson
A Quick and Dirty Review of Nematode Identification	Kinsella

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## ROUND TABLE DISCUSSIONS

Q&A with the Contraception Center	Agnew
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**32nd Annual Meeting -- 19-25 September, 2012**  
**Lowry Park Zoo -- Tampa, Florida**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Quantitative Determination of Fecal Parasites to Evaluate the Effectiveness of a Regimented Treatment Program	(A)	Otto
Care and Management of Nigerian Dwarf Goat ( <i>Capra hircus hircus</i> ) Does and Kids	(P)	Huber
Cetacean Anesthesia	<i>Notes only</i>	Bailey
Clinical Case Study: Exophthalmia, Fungal Infection, Turbellarians, and Distended Abdomen in a Lemon Butterflyfish ( <i>Chaetodon miliaris</i> )	(A)	Boucha
Creative Management of a Red Kangaroo ( <i>Macropus rufus</i> ) Following a Tibial Fracture Repair	(A)	Dabaldo
Florida Panther Recovery – 30 Year Update	(A)	Cunningham
Immobilization and Laceration Repair of the Front Leg of a Hippopotamus ( <i>Hippopotamus amphibius</i> )	(A)	Towson
Large Shark Restraint for Routine Medical Procedures at the National Aquarium Baltimore	(A)	McMillan
Parasitology Findings 2012	(A)	Maurer
Perianesthetic Blood Pressure Management	(P)	Korman
Pinniped Anesthesia	<i>Notes only</i>	Bailey
Preliminary Evaluation and Overview of Blood Nutrient Parameters and Prey Item Analysis of Free-Ranging and Rehabilitated Loggerhead Sea Turtles ( <i>Caretta caretta</i> ) for the Development of a Tube Feeding Formula and Multi- Vitamin Supplement for Sea Turtles in Rehabilitation	(A)	Nelson
Riverbanks Zoo's Participation in the Beza Mahafaly Lemur Biology Project in Madagascar 2011	(A)	Norris
The Benefits and Applications of Thermography in Zoo Animals	(A)	Valk
The Diagnosis and Treatment of a Suspected Pituitary Adenoma in a Capybara ( <i>Hydrochaeris hydrochaeris</i> )	(P)	Chancey
The Diagnosis and Treatment of a Tooth Root Abscess in a California Sea Lion ( <i>Zalophus californianus</i> )	(A)	Hoskinson
The Riddle of White Nose Syndrome: Combating a Wildlife Epizootic in Bats with Lessons from the Dark Knight™	(A)	Schlanser
The Successful Hand-Rearing of a Neonatal Polar Bear ( <i>Ursus maritimus</i> ) From Birth	(P)	Mihailovic

at the Toronto Zoo

The Use of Medical Grade Honey and Clindamycin to Treat Facial Abscesses in Pronghorn ( <i>Antilocapra americana</i> )	(A)	Lydick
The Use of Vascular Access Ports for Delivery of Chemotherapeutics in Zoo Animals	(A)	Schlanser
Understanding the Importance of Wildlife Nutrition	(A)	Tollefson
Utilizing Voluntary Blood Pressure Monitoring to Manage Hypertension in Captive African Lions ( <i>Panthera leo krugeri</i> )	(P)	McDermid
Zoo Contraception: Updates and New Research	(P)	Agnew

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

An Atlas of Arctic Avian Blood Cells: Alcids	(A)	Belovarac
An Atlas of Arctic Avian Blood Cells: Sea Ducks	(A)	Belovarac
Belly Up to the Bar, Kids! Alternative Hand-Rearing Method for Small Domestic Ruminants	(A)	Skiba
Pythiosis in a Captive Grizzly Bear ( <i>Ursus arctos horribilis</i> )	(A)	Freudenthal

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## WET LABS

Avian and Reptile Hematology Review	Jenkins-Perez, Pond, & Oliva
Cardiology and Echocardiography Techniques	Wiley
The Manatee: Natural History, Research, and Clinical Techniques	Gerlach

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## ROUND TABLE DISCUSSIONS

Association of Zoo Veterinary Technicians Elected Positions and Responsibilities	Oliva
Standardization of Laboratory Techniques: The Pros and Cons	Pond
The Technician's Role in Medical Training	Ortiz

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# **31st Annual Meeting -- 15–20 September, 2011 ABQ Biopark / Rio Grande Zoo -- Albuquerque, New Mexico**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Association of Zoo Veterinary Technicians Sponsored Zoological Veterinary Training Program for West African Zoos - [2010 Recipient, AZVT Grant]	(P)	Pittman
Avian Malaria: A Technician's Review	(A)	Lemon
Babec's Story: The Implantation and Care of a Cardiac Resynchronization Therapy (CRT) Device in a Male Western Lowland Gorilla ( <i>Gorilla gorilla gorilla</i> )	(A)	Runnells
Biological Sampling Protocols for Research and Archive Purposes at Monterey Bay Aquarium	(A)	Viens
Case Management of Pyometra in a Southern Stingray ( <i>Dasyatis americana</i> ) <i>Note: This paper was published in 2010 but was not presented</i>	(P)	Lydick and Prom
Clinical Pathology Training of Veterinary and Field Biology Team Associated with the Southern Right Whale ( <i>Eubalaena australis</i> ) Health Monitoring Program at Peninsula Valdes, Argentina [2010 Recipient, AZVT Grant]	(P)	Trotta
Deadly Metamorphosis: A Look at Spindly Leg Disease in the Dying Poison Arrow Frog ( <i>Dendrobates tinctorius</i> ) [2011 Recipient, Laurie Page-Peck Scholarship]	(P)	Deignan
Diagnosing <i>Cryptosporidium sp.</i> in Reptiles: Results of a Survey	(P)	Crossett
Echocardiogram Measurements and What They Tell Us	(A)	King-Gallogly
Eco-Epidemiology of West Nile Virus in Suburban Chicago	(A)	McKee
Facial and Oral Nerve Blocks for Dental Procedures in the Non-Human Primate	(A)	Cital
Going Green: Design and Construction of a Twenty-First Century Zoo Veterinary Medical Center	(A)	Monti
Inhalant Anesthetic Delivery and Uptake	(P)	Abrahamsen
Microscope by Headlamp: Meeting the Challenges of Fieldwork in the Countryside of Madagascar	(A)	Leahy
Monitoring I	(P)	Abrahamsen
Monitoring II	(P)	Abrahamsen
Multiple Gastric Ulcers and Perforation in a Llama ( <i>Llama glama</i> ) Secondary to Posthitis	(P)	Freudenthal
PZP Immunocontraception: Advantages and Disadvantages	(P)	Frank
Sarcocystosis in a California Sea Lion ( <i>Zalophus californianus californianus</i> )	(A)	O'Brien

Serum Protein Reference Intervals from Clinically Healthy Cheetahs ( <i>Acinonyx jubatus jubatus</i> ) Determined by Agarose Gel Electrophoresis	(A)	Ackerman
TB or Not TB in a Malayan Tapir ( <i>Tapirus indicus</i> ), That is the Question	(A)	Lydick
The Diagnosis and Treatment of Acute Diabetic Ketoacidosis in an African Hunting Dog ( <i>Lycaon pictus</i> )	(P)	Hinkle
The EZ-IO®: An Intraosseous Infusion System for Delivery of Emergency Fluids and Drug Therapy in Exotic and Domestic Animals	(A)	Colby
The Role of Zoo Veterinary Technicians in Training Captive Animals for Veterinary Procedures	(P)	McDermid
Treatment and Diagnosis of <i>Gongylonema sp.</i> in a White-Faced Saki Monkey ( <i>Pithecia pithecia</i> )	(P)	Tarwater

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

Medical Management of a Fennec Fox ( <i>Vulpes zerda</i> ) with Cystinuria	(A)	Wone
Whitespotted Bamboo Shark ( <i>Chiloscyllium plagiosum</i> ) Hematology: Red Blood Cell Cytoplasmic Inclusions in a Captive Juvenile Animal	(A)	Halach

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## WET LABS

Cutting and Preparing Reproductive Tissues for Submission to the Contraception Center	Moresco
Laboratory Stain Comparisons	Oliva & Jenkins-Perez

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## ROUND TABLE DISCUSSIONS

Challenges Faced by Senior/Supervisory Technicians	Crossett
How Can AZA Help Your Institution Lower Costs?	Merkel
ZIMS: An Update	Moses

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# 30th Annual Meeting -- 14–20 October, 2010 Greater Los Angeles Zoo -- Los Angeles, California

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

An Update on the Academy of Veterinary Zoological Medicine Technicians	(A)	Maurer
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Anaplasmosis in Captive Przewalski's Horses ( <i>Equus ferus przewalskii</i> ) and Maned Wolves ( <i>Chrysocyon brachyurus</i> ) at the Smithsonian Conservation Institute (SCBI) of the National Zoo	(A)	Acosta
Anesthesia for Tusk Repair and Subsequent Removal in an African Elephant ( <i>Loxodonta africana</i> )	(P)	Scott Schaub
Avian Anesthesia and Analgesia	Notes only	Pye
Case Management of Pyometra in a Southern Stingray ( <i>Dasyatis americana</i> )	(P)	Prom
Collection and Identification of Respiratory Mites in Great Apes	(A)	Chancey
Conservation Efforts and Satellite Tagging of Nesting Leatherback Sea Turtles ( <i>Dermochelys coriacea</i> ) in Costa Rica	(A)	Steinert
Guidelines for Managing Cases Diagnosed With a Zoonotic Disease Agent	(A)	Janssen
Hand-Raising Orphaned African Painted Dogs ( <i>Lycaon pictus pictus</i> ) Using a Domestic Canine ( <i>Canis lupis familiaris</i> ) Surrogate	(P)	Galvenek
Health Assessments of a North American Raccoon ( <i>Procyon lotor</i> ) Population in Central Park, New York City, as Part of Rabies Epizootic Control Efforts	(P)	Marchese
Influenza A Virus Strains Found to Infect Wild Felids: A Review of H5N1 and H1N1 - - [2010 Recipient, Laurie Paige-Peck Scholarship]	(P)	Stier
Introduction to Reproductive Ultrasonography for the Veterinary Technician	(A)	Julien
Koala Anesthesia and Analgesia	Notes only	Pye
Managing an Epileptic Sea Otter Pup ( <i>Enhydra lutris</i> )	(P)	Belovarac
Out of the Clinic and Into the Field	(A)	Liebermann
Peaks of Interest: The Concept of Protein Electrophoresis	(P)	Otto
Reptile Anesthesia and Analgesia	Notes only	Pye
Special Nutritional Needs of Reptiles	(P)	Edwards
Special Nutritional Needs of Ruminants	(P)	Edwards
Team-Based Approach in the Treatment of Cataracts in a California Sea Lion ( <i>Zalophus californianus</i> )	(P)	LaVictoire
The Design, Transportation, and Operation of a Mobile Endocrinology Laboratory in Kruger National Park, South Africa	(A)	Peterson

The Grand Cayman Blue Iguana ( <i>Cyclura lewisi</i> ) Recovery Project	(A)	Maurer
The Role of the Frozen Zoo® in the Preservation of Endangered Species Through Genetic Research	(A)	Houck
The Treatment, Rehabilitation, and Release of a Loggerhead Sea Turtle ( <i>Caretta caretta</i> ) With Severe Shell Disease	(A)	Steinert
Wildlife Contraception Center – Health Surveillance Program (WCC-HSP)	(A))	Moresco
Updates and New Projects for the AZA Wildlife Contraception Center	(A)	Boutelle

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

Avian Anesthesia Using a Ventilator for Intermittent Positive Pressure Ventilation	(A)	Meadows
Hematology of Amazon Freshwater Rays: A Comparison of Newly Acquired to Long Term Captive Animals	(A)	Maciol
Saint Louis Zoo's Hellbender ( <i>Cryptobranchus alleganiensis</i> ) Anesthesia Protocol	(A)	O'Brien

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## WET LABS

Dart Making and Target Practice	Rocca
Digital Radiography	Peters

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## ROUND TABLE DISCUSSIONS

Animal Escapes and Emergency Plans: What Do You Do?	Merkel
Cases That Make You Go Hmmm... Share Those Fun, Challenging and Different Animal Procedures	Viens
Granted – What Really Happens; A Discussion of Past Experiences	Harvison & Acosta
The Ins and Outs of an Inhalation Anesthetic Agent Monitor	Turnage

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**29th Annual Meeting -- 1–6 October, 2009**  
**Yellowstone National Park and Grand Teton National Park**  
**Jackson, Wyoming**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Altering Anthelmintic Techniques to Reduce <i>Haemonchus contortus</i> Populations in	(P)	Clabbers
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Captive Giraffe (*Giraffa camelopardalis*)

An Introduction to Female Hormonal Contraceptives in Zoos [2009 Recipient, Laurie Page-Peck Scholarship]	(P)	Aplasca
Basic Cytology: Inflammation vs. Neoplasia	Notes only	Pond
Cardiac Disease in Captive Gorillas ( <i>Gorilla gorilla gorilla</i> )	(A)	King-Gallogly
Diagnosis and Treatment of Endometriosis in Two Macaque Species ( <i>Macaca nigra</i> and <i>Macaca silenus</i> )	(P)	Clabbers
Experimental Treatment Protocol for Acanthocephalan Peritonitis in the Southern Sea Otter ( <i>Enhydra lutris nereis</i> )	(A)	Viens
Foreign Body Removal in an African Spurred Tortoise ( <i>Geochelone sulcata</i> ) and the Role of the Critical Care Veterinary Technician	(P)	Darbo
Hawai`ian Endangered Bird Conservation Program: The Challenges of Long Distance Veterinary Care	(P)	Williams
Managing a Critically Ill Snow Leopard ( <i>Uncia uncia</i> )	(P)	Stringer
Monitoring Bone Growth of Asian Elephant Calves ( <i>Elephas maximus</i> ) Through Monthly Radiographs	(P)	O'Brien
Polar Bear Express: Coordinating an Off-Site Dangerous Animal Transport for a Medical Procedure	(A)	Lemon
Population Management in Captive Exotics With Porcine Zona Pellucida (PZP)	(A)	Frank
Spaying Fish to Eliminate Egg Stasis	(A)	Belovarac
Successful Milk Formulas for Hand-Rearing Neonatal Hoofstock at the Wildlife Conservation Society	(A)	Eidlin
The Black-Footed Ferret ( <i>Mustela nigripes</i> ) Recovery Program: An Update	(A)	Branvold
The Effects of Anticoagulant Choice and Sample Processing Time on Hematologic Values of Juvenile Whooping Cranes ( <i>Grus americana</i> )	(A)	Mauer
The Wolf Recovery Program in the Northern Rocky Mountains	(A)	Jimenez
The Use of a Progesterone Enzyme Immunoassay (EIA) For Monitoring of Luteal Activity in Pregnant African Elephants ( <i>Loxodonta africana</i> )	(P)	Galvanek & Sohl
Urinalysis Review	Notes only	Pond

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**POSTERS**

Note: (P) denotes full paper; (A) denotes abstract only

An Advancement in Melengestrol Acetate (MGA) Implant Contraception Sterilization Techniques	(A)	Marchese
Bringing Continuing Education Into the Workplace	(A)	Marchese
The Turtle Girdle: Plastic Device for Non-Surgical Management of Fractured Humerus in an Aquatic Turtle Species	(A)	Buice
Validation of Vetlab Supply's Avian Leukopet™	(A)	Trotta

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## WET LABS

Making MedARKS Work for You: Basic and Advanced Workshops	Shields-Teare & DeHoff
1. Basic MedARKS	
2. Advanced MedARKS	

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## ROUND TABLE DISCUSSIONS

Anesthesia Monitoring and Maintenance of Normal Vitals	Korman
Contraception Topics: Answering Your Questions on Methods, Product Updates and Reversibility	Boutelle

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## **28th Annual Meeting -- 1–6 October, 2008 Buttonwood Park Zoo -- New Bedford, Massachusetts**

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Review of Biomaterial Shipping Procedures Through Courier Services in the United States	(P)	Huff
A Successful Veterinary Technician Extern and Volunteer Program at the Wildlife Center of Virginia	(P)	Horne
Anesthesia and Tusk Removal in a Male Asian Elephant ( <i>Elephas maximus</i> )	(A)	Monti
Appropriate Vitamin E Supplementation for Black Rhinoceros ( <i>Diceros bicornis</i> )	(A)	Cravens
Beyond the Blue Line: Creative Quarantine Adaptations and Procedures	(A)	Lemon
Camel Medicine: Spit Happens	(P)	Michaels
Chinese Alligator ( <i>Alligator sinensis</i> ), A Conservation Effort in the Far East: An AZVT Grant Supported Project Trip Report <b>[AZVT Grant Recipient]</b>	(A)	Ingerman
Chronic Anorexia With Probable Pseudobuphthalmia in a Male Burmese Python	(P)	Tarwater

*(Python molurus bivittatus)*

Clinical Assessment of a Cranial Tumor in a Rothchild's Giraffe ( <i>Giraffa camelopardalis rothschildi</i> )	(P)	Acosta
Development of an <i>Aspergillus</i> Vaccine	(A)	Cravens
Development of the Gorilla Health Project	(A)	Murphy
Effects of Climate Change on North Atlantic Right Whales ( <i>Eubalaena glacialis</i> ) and Other Marine Mammals	(A)	Kenney
Embrace Your Inner Abacus: A Review of the Everyday Math in Our Tech Lives	(A)	Leahy
Hand Raiding Three African Lion Cubs ( <i>Panthera leo krugeri</i> )	(P)	Cooper
Ileo-Colic Intussusception in a Captive Mountain Lion ( <i>Puma concolor</i> )	(A)	Sims
International Organization of Standardization (ISO) 14001 Environmental Management Systems (EMS) at the North Carolina Zoological Park	(P)	Purnell
Investigating the Seroprevalence of Q Fever in White-Tailed Deer ( <i>Odocoileus virginianus</i> )	(A)	Elder
Investing in Your Volunteers: A Training Program at the Monterey Bay Aquarium	(P)	Viens
It's Not What it Looks Like: How Post-Mortem Changes Can be Mistaken for Lesions at Necropsy	(P)	Walsh
Malignant Histiocytic Sarcoma in a Female Southern Sea Otter ( <i>Enhydra lutris nereis</i> )	(A)	Viens
Management of Inflammatory Bowel Disease in a Siamang ( <i>Hylobates syndactylus</i> )	(A)	Peterson
Medical Management of a Giant Anteater ( <i>Myrmecophaga trydactyla</i> ) Neonate After Severe Con-Specific Trauma	(P)	Lydick
Recapture of an Escaped Western Lowland Gorilla ( <i>Gorilla gorilla gorilla</i> ) at the Franklin Park Zoo	(P)	O'Keefe
Ruminant Nutrition: Techniques for Evaluating Changes in Diet	(A)	Oliva
Southern Stingray ( <i>Dasyatis americana</i> ) Diagnostics in the Field	(A)	Sweet
There is No "I" in "TEAM": Hospital Management for the Veterinary Technician	(P)	Runnells
They're Retro, Campy, Foamy and Runny: Getting to Know Your Primate Zoonoses	(P)	Murphy
Treatment and Supportive Care of Amphibians	(A)	Baker
Treatment of a Louse ( <i>Haematomyzus elephantis</i> ) in a Captive Heard of African Elephants ( <i>Loxodonta africana</i> )	(A)	Galvanek

Use of Digital Infrared Thermography to Assess Thermal Gradients and Abnormalities of the Elephant Foot, and Thermal Responses to Changes in Environmental Conditions	(A)	Willard & Chromiak
Yippee-Ki-Yay: Prairie Dog Wrangling for the Solo Technician	(A)	Koocher

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

Hand-Rearing a Channel Island Fox Kit ( <i>Urocyon littoralis clementae</i> )	(A)	Kaufman
Medical Management of the Vancouver Island Marmot ( <i>Marmota vancouverensis</i> ) in Captivity	(A)	Angermeyer
Red Blood Cells: The Good, the Bad, and the Ugly	(A)	Ackerman
Removal of Branchiuran from Orange-Bellied Piranha ( <i>Pygocentrus piraya</i> )	(A)	Wone
Seek and Ye Shall Find: Novel Regional Findings of Leptospirosis in Northeast, U.S. Phocids	(A)	Patchett
The Little Zoo That Could: Training for Medical Management in a Small Zoo	(A)	DeMedeiros, Kaeterle, & Silvia

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## WET LABS

Fish Biology and Examination for Technicians	Gibson
Scientific Writing	Poynton
Thermography of Elephants	Willard & Chromiak

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## ROUND TABLE DISCUSSIONS

Group Dynamics in the Veterinary Hospital	Purnell
Math Practice Table	Leahy
Quality Control in the Lab	Ackerman
Zoo Technician Evolution: So You're a Supervisor Now	Buice

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**27th Annual Meeting -- 7–10 September, 2007  
Honolulu Zoo -- Honolulu, Hawaii**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Blood Cell Morphology: Can We Standardize What We Report?	(A)	Keener
Can a Single Sample Serum Progesterone Value Diagnose Pregnancy in White Rhinoceros ( <i>Ceratotherium simum simum</i> )?	(A)	Oliva
<i>Cephenemyia spp.</i> The Deer Throat Bot	(P)	Oresjo
Chelicerates Health Study	(A)	Castro
Chemical Analysis of Pure Lymph and Venous Blood in Chelonians	(P)	Bratthauer
Cyanobacteria <i>Lyngbya</i> – A New Concern for Manatees ( <i>Trichechus manatus</i> )	(P)	King
Cytology as a Diagnostic Tool During Gross Necropsy Examinations	(A)	Walsh
Eastern Equine Encephalitis in a Captive Harbor Seal ( <i>Phoca vitulina</i> )	(P)	DeMedeiros
Fungal Endometritis in a Pelagic Stingray ( <i>Dasyatis violacea</i> )	(A)	Steinert
Growing Pains: One Hospital's Quest to Build an Addition	(P)	Eidlin
Health Assessment of Free-Ranging Ricord's ( <i>Cyclura ricordii</i> ) and Rhinoceros ( <i>Cyclura cornuta cornuta</i> ) Iguanas on Isla Cabritos and Pedernales, Dominican Republic [2006 AZVT Grant Recipient]	(A)	Niederlander
Hematology of the Manatee ( <i>Trichechus manatus</i> )	(P)	King
Life After Death: The Role Museums Can Play	(A)	Bruner
Maybe I Shouldn't Have Eaten That: Case Study of a Male African Lion ( <i>Panthera leo</i> )	(P)	Rooker
Medical and Surgical Management of Dystocia and Vestibulotomy for Removal of a Retained Fetus in an African Elephant ( <i>Loxodonta africana</i> )	(A)	Wheeler
Method Validation Study for Total White Blood Cell Counts: Natt-Herrick Versus Eosinophil Unopette Methods	(A)	Arnold
Monitoring of the Oestrous Cycle of Malay Tapirs ( <i>Tapirus indicus</i> ) as a Tool in Reproduction Management Using a Chemiluminescent Immunoassay, Immulite®, to Measure Blood Progesterone	(P)	de Boer
Naughty Mosquitoes and a Flamboyance of Flamingoes: A Closer Look at a West Nile Virus Program	(A)	Culver
Pathological Fractures: Contributing Factors and Treatments for 1.1 Black and Gold Howlers ( <i>Alouatta caraya</i> )	(P)	Gordon

PAWWS to Heal: Animal Assisted Therapy	(A)	Shriver
Pharmacokinetics of Meloxicam in Loggerhead Sea Turtles ( <i>Caretta caretta</i> ) After Single Dose Intravenous Administration	(P)	Coy
Primate Surrogacy Program at the Columbus Zoo and Aquarium	(P)	King
Professional Exchange for Hospital Management; White Oak Conservation Center, USA and Kenya Wildlife Service, Kenya, Africa	(P)	Teare
Radial and Ulnar Fracture Repair in an Adult Male Polar Bear ( <i>Ursus maritimus</i> )	(P)	Peterson
Restraint and Anesthesia of the Electric Eel ( <i>Electrophorus electricus</i> )	(P)	Hana & Homeier
Salmonellosis in Wildlife: Diagnosis, Prevention and Treatment Options for the Zoo Veterinary Technician and Wildlife Rehabilitator <b>[2007 LPP Scholarship Winner]</b>	(P)	Brown
Stranding Response and Husbandry Care for Stranded Sea Otter Pups ( <i>Enhydra lutris nereis</i> )	(A)	Young
Surgical Management of Angular Limb Deformities in American Flamingoes ( <i>Phoenicopterus ruber</i> ) at the Riverbanks Zoo	(P)	Norris
The Red Baron Crashes: Intensive Treatment for Aspergillosis in a Red-Tailed Hawk ( <i>Buteo jamaicensis</i> )	(A)	Pollard & Prom
The Inconceivable Truth About Contraception	(A)	Boutelle
The 'Interesting' Fauna of Japan's Lake Biwa	Notes only	Rossiter
Treatment of Urinary Disease in a Female Southern Koala ( <i>Phascolarctos cinereus victor</i> ), Including Placement of a Percutaneous Gastrostomy Tube	(P)	Dragoo
Using C-Reactive Protein to Monitor a Lung Abscess in an Atlantic Bottlenose Dolphin ( <i>Tursiops truncatus</i> )	(P)	Vander Wagen
When Hope Takes Flight and Tragedy Strikes	(P)	Rogers

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## POSTERS

*Note: (P) denotes full paper; (A) denotes abstract only*

Bronchoscopy of Bottlenose Dolphins ( <i>Tursiops truncatus</i> )	(A)	Jones
Malignant Melanoma in a Rockhopper Penguin ( <i>Eudyptes chrysocome</i> )	(A)	Crossett
Muddy Dragons: A Conservation Effort in the Far East	(A)	Ingerman



Radiographic Positioning and Techniques for the Elephant Foot Using Protected Contact	(P)	Maloy
Tongue Amputation in a 29-Year-Old Reticulated Giraffe ( <i>Giraffa camelopardalis reticulata</i> )	(A)	Dragoo

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**13th Annual Meeting -- 6–10 October, 1993  
St. Louis, Missouri**

**PRESENTATIONS**

*Note: (P) denotes full paper; (A) denotes abstract only*

Assisted Reproduction in a Cheetah	(P)	Thurman, Blumer, & Howard
Caesarian Section in an Asian Elephant, <i>Elephas maximus indicus</i>	(P)	Kurtz
Evaluation of Two Commercial Test Systems for the Identification of Gram Negative Isolates from Aquatic Animals	(A)	Arnold
Exotic Animal Microbiology: A Brief Overview with Application to Four Case Studies	(P)	Brugger
Familial Periarticular Hyperostosis Associated with Renal Disease in Black Lemurs ( <i>Eulemur macaco macaco</i> )	(P)	Junge, Mehren, Meehan, & Whyte
Mycobacterial Disease in Reptiles and Amphibians	(A)	Michaels
Nutritional Support in a Hand-Reared Bongo	(P)	Kolbach
Radiographic Technique Charts and Beyond	(P)	Wilmoth
Reptile and Amphibian Quarantine Protocols	(P)	Freed
The American Association of Zoological Parks and Aquariums' Contraception Program: Progress and Prospects	(P)	Asa
The Joy of Oral Presentations	(P)	Bielitzki
The Marine Mammal Stranding Program: How Veterinary Technicians Can Have an Impact on Conservation	(A)	Jenkins
The Role of Veterinary Medicine in Captive Conservation Programs	(P)	Miller
Zoo Veterinarian/Zoo Veterinary Technician Working Relationships	(P)	Wallace &

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## 12th Annual Meeting -- 30 September – 2 October, 1992 San Diego, California

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Descriptive Analysis of Parturition and Nursing in a Captive Born Beluga Whale ( <i>Delphinapterus leucas</i> )	(P)	Palma
An Encephalomyocarditis (EMC) Virus Outbreak at the Dallas Zoo	(P)	Alvarado
Applied Immunology: A Practical Understanding of Vaccines, Titers, and the Immune Response	(P)	Edge
Basic Electrocardiology for Anesthetic Monitoring	(P)	Morris
Cryopreservation of Germplasm	(P)	Patton & Durrant
Cytogenic Techniques and Their Application to Conservation Biology	(P)	Houck
Diarrhea in Neonatal Hoofstock: What's the Poop	(P)	Sutherland- Smith
Hand-rearing of Geoffroy's Marmosets at the Philadelphia Zoological Garden		Mahan & Giambro
Hematology and Plasma Chemistry Values in Humboldt Penguins: A Preliminary Report	(P)	Michaels
Histopathology	(P)	Wempren
Microchips: Positive Identification	(P)	Jenness
Morphological Standards for Identification of Avian Leukocytes Evaluation of a Worksheet	(P)	Mayer, Dein, & Pond
Myasthenia Gravis in a Siberian Tiger	(P)	Faust
National Fish & Wildlife Forensic Laboratory	(P)	Ralston
Neonatal Hoofstock Examinations at the San Diego Zoo	(P)	Bressler
Results of Microscopic Examination for Gastrointestinal Parasites in Seven Adult Hoofstock from the San Diego Wild Animal Park	(P)	Sawyers

Serpentes: Anatomy, Physiology and Hospital Care	(P)	Hill & Freed
Shock: Concepts and Thoughts on the Rude Unhinging of The Machinery of Life	(P)	Zuba
Technical Aspects of Post-Mortem EMC Diagnosis	(P)	Buice
Trips in the Field-Technicians in Conservation	(P)	Bressler, Williams & Easton
Video Microscopy	(P)	Lancaster

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## 11th Annual Meeting -- 24–27 October, 1991 Dallas, Texas

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Technical Approach to Reptilian Hematology	(P)	Wilmoth
A Tracheostomy in an Eland Calf	(P)	Thurman
A.H.T. Raptor Research Projects at the Calgary Zoo	(P)	Dwelle
An Overview of the Dental Program at Milwaukee County Zoo	(P)	Michaels
Atypical Mycobacterial Pneumonia in a Western Lowland Gorilla Caused by <i>Mycobacterium kansasii</i>	(P)	Alvarado
Avian Yolk Sac Infections at the Denver Zoological Gardens	(P)	Williams
Comparison of Stains in Avian Hematology	(P)	Mayer
Control of Internal Parasites in Addax ( <i>Addax nasomaculatus</i> ) with Pyrantel Tartrate in the Form of Strongid C	(P)	Jenness & Knobbe
Estrus Determination in Black-Footed Ferrets at the Louisville Zoo	(P)	Crossett
Hematology, Blood Cell Morphology, and Selected Plasma Chemistry of Clinically Normal Goliath Frogs ( <i>Conraua goliath</i> ) at the Lincoln Park Zoo	(P)	Pond, Letcher, & Meehan
Recovery of Urine from Soil for Hormonal Analysis	(P)	Fitzgerald & Hnida
The Black Footed Ferret Breeding Program at the Cheyenne Mountain Zoo	(P)	Lancaster
The Partnership of Yerkes Regional Primate Research Center and Zoo Atlanta	(P)	Webb
The Use of Diament Fuschin Stain in Detecting Cryptosporidia in Feces	(P)	Purnell

The Use of Pulse Oximetry in Zoo Animals	(P)	Kurtz
The Veterinary Technicians' Role in a Zoological Park Or Aquarium	(P)	Pond
Zoo Conservation Outreach: One Veterinary Technician's Experience	(P)	Swanson & Smith

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## **10th Annual Meeting -- 17–20 October, 1990 Radisson Resort, South Padre Island, Texas**

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Black Bellied Pangolin at the Metro Toronto Zoo	(P)	Roberts
A Dentigerous Cyst in a Female Drill	(A)	Hughes
A Successful Procedure for Freezing and Thawing Small Aliquots of Avian Blood While Preserving Viability of Malarial Parasites	(P)	Skjoldager
Anemia in a Black-necked Swan	(P)	Hughes & McManamon
Antibiotic Sensitivity Testing for the Small Lab	(P)	Williams
Cytology	(P)	Pond
Follow-Up Case Study on a Sumatran Orangutan	(P)	Jenkins
Microbiology in Aquariums	(P)	Arnold
Normal Hematology Values for a Madoqua Species at the Dallas Zoo	(P)	Maloy
Root Canal in a Twenty-Three Year-Old Polar Bear	(P)	McCarthy
Status of Zoos in Central America	(P)	Calvo
The Zoo Conservation Outreach Group- A Low Budget, High Impact Approach to International Conservation and How the American Association Of Zoo Veterinary Technicians Can Get Involved	(P)	Skrei
Venomous Snake Bite	(P)	Keyler

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## **9th Annual Meeting -- 22–24 September, 1989 Calgary, Alberta**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Technique for the Microscopic Examination of Animal Hair	(P)	McCarthy
Avian Necropsy	(P)	Lancaster
Energetics in Captive Lowland Gorillas	(P)	Buice & Baer
Lyme Disease: Animal Overview	(A)	Nette
Raptor Rehabilitation & Handling	(P)	Halmazna
Research at the Calgary Zoo Animal Health Centre	(A)	Mainka
Serum Banking at the Milwaukee County Zoo- The Computerized Version	(P)	Mayer
Setting Up a Pathology Program for a Zoological Park	(P)	Black
The Animal Welfare Movement and Zoos	(P)	Cooper
The Employee Health Program at the Baltimore Zoo	(P)	Johnson
The MedARKS Treatment and Vaccination Module: How to Make it Work for You	(P)	Crossett
The Medical Management of a Baringo Giraffe at the Lincoln Park Zoo	(P)	Pond
The Role of the Animal Health Technician in Private Exotic Pet Practice	(P)	Korber
Water Quality Testing at the Central Park Zoo	(P)	Moretti

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## **8th Annual Meeting -- 4–6 November, 1988 Toronto, Ontario**

## PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

An Evaluation of Chemistry Analyzers for the Small Laboratory	(P)	Williams
Behavior Modification in an Adult Male Orangutan	(P)	Gallagher-

		Mahan
Halothane Anesthesia in Abdominal Surgery of Tamarins and Marmosets	(P)	Pond, Wolff, & Meehan
Making MedARKs Work for You	(P)	Mayer
Musk Ox on the Prairies	(P)	McCarthy
Pregnancy Diagnosis in Exotic Species	(P)	Balke
Reptiles: Examination, Anesthesia, Diagnostic Techniques, and Surgery	(P)	Jacobson
Strategic Approaches for Studies of Reproductive Biology in Wildlife Species	(P)	Goodrowe
Technical Management of Avian Tuberculosis	(P)	Geidans
The Use of Albumin to Improve Blood Smears of Fish Blood	(P)	Arnold & Nevy
Veterinary Aspects of a Reptile Hibernation Program	(P)	Buice & Roberts

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## 7th Annual Meeting -- 2-4 October, 1987 Denver, Colorado

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Avian Clinical Pathology of Tuberculosis, Psittacosis, And Lead Poisoning	(P)	Orme
Demonstration and Evaluation of the CITE-FeLV Test Kit for use in Exotic Felidae	(P)	Nachel
Detection and Treatment of Malaria ( <i>Plasmodium elongatum</i> , <i>Plasmodium relictum</i> ) in Blackfooted Penguins ( <i>Spheniscus demersus</i> )	(P)	Neely
Evaluation of Orangutan Palpebral Tuberculin Reactors	(P)	Calle & Roskop
Halothane Anesthesia for Abdominal Surgery in Tamarins and Marmosets	(P)	Pond, Wolf, & Meehan
The Birth of an Asian Elephant at the Calgary Zoo	(P)	Rogers
The Management of Diabetic Primates at the Houston Zoo	(P)	Lancaster
The Microbiology of Lumpy Jaw in Red Kangaroos at the Denver Zoo	(P)	Kenny

Treatment and Management of Chronic Foot Problems in an Indian Rhinoceros (P) Mayer & Saksefski

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**6th Annual Meeting -- 31 October – 2 November, 1986  
Chicago, Illinois & Milwaukee, Wisconsin**

**PRESENTATIONS**

*Note: (P) denotes full paper; (A) denotes abstract only*

A Practical Guide for the Novice Aquarium Vet Tech (P) Nevy

A Survey of Intestinal Parasites in Wild, Ex-Captive and Captive Orangutans (*Pongo pygmaeus*): An American Association of Zoo Keepers Research Project, Parts One and Two (P) Frazier-Taylor, Galdikas, & Karesh

Artifacts, Pseudoparasites, Spurious Organisms, and Unusual Objects Found During Parasitological Examination of Exotic Animal Feces (P) Pond

Ethmoiditis in an Infant Orangutan (P) Cambre

Evaluation of Urinary LH in Gorillas (P) Buice

Exotic Animal—Zoo—Denistry, Potentials of Dentistry Contributing To Zoo Animal Health Care (P) Scheels

Giraffe Restraint Devices (P) Roskop, Davis, Blaisdell, Storm, & Frazier-Taylor

Intensive Care in a Young Gorilla (P) Karesh, Burton, & VanAllen

Medical Records and Computers in Zoos (P) Teare

Primate Amoeba Identification Differential Diagnosis of Intestinal Protozoa (P) Goodman

Stress Management (P) Wilkinson

The Euthanasia of an Asian Elephant (P) Jenness

The Honolulu Zoo Animal Health Center—A New Hospital Starting Up (P) Jenness

Use of Ivermectin for the Treatment of Gizzard Worms in Passeriformes (P) Kimball

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## 5th Annual Meeting -- 4–5 October, 1985 Scottsdale, Arizona

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

Avian Hematology Blood Cell Counting Procedures	(P)	Arnold
Avian Hematozoa	(P)	Neely
Embryo Transfer at the Louisville Zoo	(P)	Morton
Histoplasmosis in a Flat-Headed Cat	(P)	Pond
Laboratory Diagnosis of <i>Chlamydia psittaci</i> Infections	(P)	Baumeister
Leukocyte Identification in Peripheral Blood from <i>Elephas maximus</i>	(P)	Williams, Hurwitz, Wilson, & Cambre
Necropsy Techniques in Snakes	(P)	Buice
Rapid Dimethyl Sulfoxide-Modified Acid-Fast Stain of Cryptosporidium Oocysts in Stool Specimen	(P)	Neely
Serum Banking at the Milwaukee County Zoo	(P)	Mayer
The Results of Microbiological Culture of a Commercial Frozen Meat Based Animal Food and Whole Frozen Chicken Thawed by Various Methods	(P)	Pond

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## 4th Annual Meeting -- 13–14 October, 1984 Louisville, Kentucky

### PRESENTATIONS

*Note: (P) denotes full paper; (A) denotes abstract only*

A Case Report of a Black Howler Monkey with Amebiasis: The Use Of Computerized Tomography and Nuclear Medicine	(P)	Pond
Aspergillus Immunodiffusion Testing	(P)	Duffelmeyer
Basic Concepts of Embryo Transfer Technology	(P)	Dahlhausen
Basic Concepts of Preimplantation Developmental Morphology and Embryo Assessment for the Embryo Transfer Technician	(P)	Dahlhausen
Current Application of Embryo Transfer in the Zoo World	(P)	Loskutoff &



		Kraemer
Dental Radiography	(P)	Watts
Detection of Cryptosporidia and Other Coccidia in Fecal Smears and Other Specimens by Auramine Staining	(P)	Heuschele, Payne, Olson, Schoefield, Oosterhuis, Janssen, & Benirschke
Etiology and Prevention of Neonatal Diarrhea in Hand-Raised Exotic Ruminants	(A)	Heuschele, Janssen, Oosterhui, Schofield, & Halligan
Future Technologies in Embryo Transfer	(P)	Loskutoff & Kraemer
Handraising Wooling Monkeys ( <i>Lagothrix lagotricha</i> ) at the Louisville Zoo	(P)	Stearns
Malignant Catarrhal Fever	(P)	Heuschele
Preparation for Embryo Collection in Large Animals	(P)	Sehlhorst
Pterygodermatites Nycticebi (Nematoda: Spirudia) in Golden Lion Tamarins	(P)	Montali, Bardiner, Evans, & Bush
Radioimmunoassay Techniques	(P)	Arnold
Rehabilitation of Red Kangaroo with Downeroo Syndrome	(P)	Schuchard
Semen Assessment in Non-domestic Species	(P)	Howard
Semen Freezing	(P)	Schaeffer
Tularemia in a Lowland Gorilla	(P)	Baumeister, & Ramsay

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