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.

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 (*Rhinoptera bonasus*) (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 (*Puma concolor coryi*) at ZooTampa at Lowry Park (A) Henry

Clinical Indications for Caesarean Section: A Case Study in an Allen’s Swamp Monkey (*Allenopithecus nigroviridis*) at the Kansas City Zoo (P) Flippin

[2018 Recipient, Laurie Page-Peck Scholarship]


Conservation Medicine/One Health—Gorilla Doctors and The Wilds (A) Ramer

Diagnosis and Management of Exocrine Pancreatic Insufficiency in a Slender-Tailed Meerkat (*Suricata suricatta*) (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 (*Addax nasomaculatus*): The Case of an Opportunistic Infection (P) Aubuchon
Medical Management and Acclimation of Former Research Baboons into Troops in a Sanctuary Setting

Preventative Health Program for Monitoring Monogenean Parasite Infections in Leopard Sharks (Triakis semifasciata) at Monterey Bay Aquarium

Rehabilitating a Juvenile Bald Eagle (Haliaeetus leucocephalus) with Nerve Damage

Same Enclosure, Different Approach: How to Modify Your Technique to be Successful

The Maryland Zoo in Baltimore’s Avian Malaria Monitoring and Treatment Program in African Penguins (Spheniscus demersus)

Tissue Healing: Understanding the Process is Critical to Effective Wound Management

Treatment of Soft-Tissue Sarcoma in a Jaguar (Panthera onca) Using Stereotactic Radiation

Two Diseases, One Corner, and Loads of Potential for Cross-Contamination: Featuring Ophidiomyces ophiodiicola and Cryptosporidium serpentis

Use of Fentanyl Transdermal Systems as a Method of Pain Management in a Black Mamba (Dendroaspis polylepis)

You Help Me, I Help You: Data Collection for Informed Use of Contraception

POSTERS

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

The Animal Care Center at Monterey Bay Aquarium: Justifying the Need for More Space

The ZRA Training Certificate Program and How it Benefits You in the Zoological Registrar Role

WET LABS

Cytology Basics: Inflammation Versus Neoplasia

Darting Lab

Fish and Elasmobranch Blood Cell Morphology

ROUND TABLE DISCUSSIONS

AZA Reproductive Management Center Round Table
Chasing the Elusive Mountain Tapir (*Tapirus pinchaque*): 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 (*Panthera leo krugeri*) (A) Corbus

Fish Diseases (A) Haulena

Good Vibrations: Vibration Therapy in a Sand Impacted Desert Tortoise (*Gopherus agassizii*) (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 (*Uncia uncia*) (A) Freudenthal

Management and Diagnosis of Ventricular Adenocarcinoma in a Humbolt Penguin (*Spheniscus humboldti*) (A) Aemmer

Management Challenges Using Open Water Systems: Case Studies on Smooth Lumpsuckers (*Aptocyclus ventricosus*) and the Alaska Blackfish (*Dallia pectoralis*) (A) Belovarac

Marine Mammal Anesthesia (A) Haulena

Monitoring Controlled Substance in a Busy Zoo Setting (A) Castro

Oronasal Fistula Management in the Victoria Koala (*Phascolarctos cinereus victor*) (A) Rice

Rehabilitative Care and Hand-Rearing in a Colony of Spectacled Flying Foxes (*Pteropus conspicillatus*) Seasonally Affected by Paralysis Ticks (*Ixodes holocyclus*) in Australia (P) Eidlin

Saving Endangered East African Grey Crowned Cranes (*Balearica regulorum gibbericeps*) (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 (*Macropus rufogriseus*) (A) Rooker

Transitional Cell Carcinoma in a Linne’s Two-Toed Sloth (*Choloepus didactylus*) (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 (*Stegostoma fasciatum*) (A) Cochran

**POSTERS**

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

Who Knew You Could Train a Kudu: The Use of Operant Conditioning to Manage Hoof Health in a Lesser Kudu (*Tragelaphus imberbis*) (A) Brubaker

**WET LABS**

How to Thrive (Not Just Survive) as a Zoo Medicine Technician Holowaychuk

Incorporating Veterinary Services into Behavioral Training for Medical Procedures Castor

---

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

**Tulsa Zoo -- Tulsa, Oklahoma**

**PRESENTATIONS**

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

Bilateral Cataract Removal via Phacoemulsification with the Use of Endolaser and Implanted Custom Made Lenses on a Jaguar (*Panthera onca*) (A) McNally

Care and Medical Management of a Chronic Foot Lesion in a Southern Isabela Tortoise (*Chelonoidis nigra vicina*) 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 (*Callosciurus prevostii*) (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 *Dirofilaria immitis* in American Black Bears (*Ursus americanus*) in Mississippi (P) Hoskinson

Development of Portable Molecular Diagnostic Technology for Canine Distemper Virus Detection in Endangered Carnivores (A) Tomaszewicz
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnosis and Management of Renal Disease and Osteoarthritis in a Geriatric North American Cougar (<em>Puma concolor</em>)</td>
<td>Ortiz</td>
</tr>
<tr>
<td>Eastern Equine Encephalomyelitis Virus in Southern Cassowary (<em>Casuarius casuarius johnsonii</em>) at the Virginia Zoo</td>
<td>Rooker</td>
</tr>
<tr>
<td>Fintastic! Teleost Nursing Techniques</td>
<td>Fleming Jones</td>
</tr>
<tr>
<td>In-House Techniques to Detect Iron Deposits on Tissue Cytology in Avian Species Prone to Iron Overload Disorder</td>
<td>Walsh</td>
</tr>
<tr>
<td>[2016 Recipient, Laurie Page-Peck Scholarship]</td>
<td></td>
</tr>
<tr>
<td>Innovations in Gas Anesthesia in a Remote Field Setting</td>
<td>Runnells</td>
</tr>
<tr>
<td>Knowing Your Platelets: The Role of Platelets in Elephant Endotheliotropic Herpesvirus and Routine Monitoring Method to Aid in Early Detection in Asian Elephants (<em>Elephus maximus</em>)</td>
<td>Pich</td>
</tr>
<tr>
<td>Management of Amphibian Cloacal Tissue Prolapse with an Overview of Anesthesia, Surgery, and Patient Care</td>
<td>Woods</td>
</tr>
<tr>
<td>Medical Management of a Suspected Viral Thyroiditis in a Female Western Lowland Gorilla (<em>Gorilla gorilla gorilla</em>)</td>
<td>McCrae</td>
</tr>
<tr>
<td>Multimodal Therapies to Treat Chronic Arthritis in the Fetlock of a Reticulated Giraffe (<em>Giraffa camelopardalis reticulata</em>)</td>
<td>Mott</td>
</tr>
<tr>
<td>Nursing Care of the Koala (<em>Phasuckerctos cinereous</em>)</td>
<td>Turnage</td>
</tr>
<tr>
<td>Ocean Plastic: A Deadly Diet</td>
<td>Montgomery</td>
</tr>
<tr>
<td>Persistent Right Aortic Arch in a Giraffe (<em>Giraffa camelopardalis</em>)</td>
<td>McCrae</td>
</tr>
<tr>
<td>Physical Rehabilitation of an Acutely Paretic Maleo (<em>Macrocephalon maleo</em>)</td>
<td>Chin</td>
</tr>
<tr>
<td>Principles and Best Practices for a Zoo Animal Neonatal Care Unit</td>
<td>Hedberg</td>
</tr>
<tr>
<td>Real Time Global Resources Changing Zoological Medicine</td>
<td>Teare</td>
</tr>
<tr>
<td>Surveillance for Viral and Parasitic Pathogens in a Vulnerable African Lion Population in the Northern Tuli Game Reserve, Botswana</td>
<td>McDermid</td>
</tr>
<tr>
<td>The Case of the Three Bears: Continued Learning and Experience in Hand-Rearing Neonatal Polar Bears (<em>Ursus maritimus</em>) at the Toronto Zoo</td>
<td>Mihailovic</td>
</tr>
<tr>
<td>The Role of the Zoological Veterinary Technician in a Conservation Success Story</td>
<td>Zietz</td>
</tr>
<tr>
<td>Wild Wednesday - How to Shine the Spotlight on Your Zoo</td>
<td>Taylor</td>
</tr>
</tbody>
</table>


POSTERS

(C) denotes full paper; (A) denotes abstract only

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

WET LABS

A Comparative Analysis of Elephant Hematology Sohl
(in collaboration with University of Miami Comparative Pathology Lab)
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
1. Introduction to ZIMS for Medical Teare
2. ZIMS Tests and Results in Depth

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

PRESENTATIONS

(C) denotes full paper; (A) denotes abstract only

A True Trooper: Successful Treatment of Capture Myopathy in a Lesser Flamingo (Phoeniconaias minor) Through Multi-Modal Drug Therapy and Physical Rehabilitation (A) Quataert
Diagnosis and Medical Management of Autoimmune Disease in a Juvenile African Elephant (Loxodonta africana) (A) Galvanek
Diagnosis of Mycobacterium tuberculosis in 1.0 Eastern Black Rhinoceros (Diceros bicornis michaeli), 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 (Tursiops truncatus) 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 (Canis rufus): An Emerging Concern (A) Wolf

Inhalant Anesthesia in an Adult Reticulated Giraffe (Giraffa camelopardalis reticulate) (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 (Panthera onca) (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 (Chelonia mydas) (A) Coy

Release of a Snowy Owl (Bubo scandiacus) 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 (Macropus rufus) 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 (Lontra canadensis) (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 (Myrmecophaga tridactyla) [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 (Pan paniscus) 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 (*Acinonyx jubatus*) and Maned Wolves (*Chryscocyon brachyurus*)

Voluntary Venipuncture in Great Apes

**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 (*Hippopotamus amphibious*)

Class III Laser Application in a Zoo Setting

Clinical Use of GV-26 Acupuncture Point for Reduction of Anesthetic Recovery Time in Reptiles

**WET LABS**

Advanced Digital Radiographic Techniques and Image Processing

Gross Necropsy Technique for Zoo Veterinary Technicians

Low Velocity, Short Range Darting in the Zoological Setting

ZIMS for Medical Workshop: Tips, Tricks, Pitfalls, and Pathology

---

**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

California Sea Lion (*Zalophus californianus*) Anesthesia Techniques for the Veterinary Technician

Chelonid Fibropapilloma-Associated Herpesvirus Infection In Symptomatic and Asymptomatic Infected Green Sea Turtles (*Chelonia mydas*)

Collecting and Trimming Tissues for Histopathology: How to Get the Most Information from Necropsies and Biopsies

Comparative Cytology of Respiratory Samples of Atlantic Bottlenose Dolphins (*Tursiops truncatus*) in Rotan, Honduras

[Student Presentation]
Cryosurgical Application as an Adjunctive Therapy inTreating Reactive Hyperplastic Pododermatitis in a White Rhinoceros (*Ceratotherium simum*)

Diagnosis and Treatment of Cardiac Arrhythmia in a Kori Bustard (*Ardeotis kori*)

Diagnosis of Blastomycosis in a Wild Caught Polar Bear (*Ursus maritimus*)

Diagnostic Sample Handling and Processing and Hematology of Exotic Animal Species: Tips and Tricks

In-House Production of Antimicrobial-Impregnated Polymethyl Methacrylate (AIPMMA) Beads and Their Use in a Nayala (*Tragelophus angasii*) with Recurring Facial and Cervical Abscessation

Lead Toxicity in Argentine Water Fowl Caused by Spent Ammunition, and its Effects on the Ecosystem of Santa Fe Province, Argentina

*2012 AZVT Grant Recipient*

Lions (*Panthera leo*) as a Model System for Investigating Reversibility Following Suprelorin® Treatment

Listeriosis (*Listeria monocytogenes*) in Coquerel’s Sifaka (*Propithecus coquereli*) at the Wildlife Conservation Society’s Bronx Zoo

*2014 Recipients, LPP Scholarship*

Making Your Pharmacy Work for You

Medical and Surgical Management of a Fungal and Bacterial Infection in the Toes of a White Crested Laughing Thrush (*Garrulax leucolophus*)

National Marine Mammal Foundation: Our Mission to Improve Life for All Marine Mammals

Observations Between White Blood Cell Morphology and Disease Severity During a Ranavirus-Herpes Virus Coinfection in a Group of Captive Eastern Box Turtles (*Terrapene carolina carolina*)

Operant Conditioning of American Alligators (*Alligator mississippiensis*) at the North Carolina Zoological Park

Overview of Pain Management in Reptiles and Pharmacokinetics of Tramadol and O-Desmethyltramadol in Loggerhead Sea Turtles (*Caretta caretta*)

Plasma Corticosterone Levels as a Predictor of Stress, Reproductive Success, and Health Status in Free-Ranging Nesting Loggerhead Sea Turtles (*Caretta caretta*)

Sea Turtle Health Programs of the St. Kitts Sea Turtle Monitoring Network

*Program Overview*

Sea Turtle Neurology

(P) Deiter

(A) Balfour

(A) Huber

(A) Stacy

(P) Smoot

(A) Marchese

(A) Agnew

(P) DeMeo & Gilewski

(A) Towson

(A) Rooker

(A) Longenecker

(A) Sohl

(A) Scott-Shaub

(A) Norton

(A) Flower

Stewart

(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 (Gorilla gorilla) with a Fractured Mandible  
(A) Norris

The Georgia Sea Turtle Center, Past, Present, and Future—A Model for Conservation of Wildlife  
[Keynote Address] (Institution Overview)  
Norton

The Logistics of Anaesthetising an Aldabra Giant Tortoise (Aldabrachelys gigantea) for Phallic Amputation  
(A) Ryan

The Medical and Surgical Intervention of Intestinal Ileus and Obstruction in Juvenile Black-Footed Penguins (Spheniscus demersus)  
(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 (Panthera leo krugeri)  
(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 Cryptobranchus alleganiensis alleganiensis Field and In-House Research  
(P) Skeba

You Had Me at Trocar: Acute Gastric Ileus with Secondary Gas Distention in the South American Lungfish (Lepidosiren paradoxa)  
(A) Jones

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 (Gopherus flavomarginatus)  
(A) Smith

Long Term Activity of Loggerhead Sea Turtles (Caretta caretta) 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 (*Budorcas taxicolor tibetana*) 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 (*Alligator mississippiensis*) (A) Skupien

**WET LABS**

Sea Turtle Necropsy and Anatomy Lab

Venomous Snake Capture/Restraint & Anesthetic Techniques

Wound Vacuum-Assisted Therapy-Advanced Healing Techniques

ZIMS for Medical - New Software Orientation

---

**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 (*Chelonoidis nigra*) (P) Oresjo

Comparison of the iSTAT® Portable Chemistry Analyzer with the VetScan® for Field Use in South American Fur Seals (*Arctocephalus australis*) at Punta San Juan (PSJ), Peru  

[Recipient, AZVT Grant]

Complete Blood Cell Counts in Southern Stingrays (*Dasyatis americana*) (A) Burns

Diagnosis and Treatment of a Spinal Abscess in an Amur Tiger Cub (*Panthera tigris altaica*) (A) Trotta

Effects of Transmitter Attachment on the Behavior of Captive Long-Tailed Ducks (*Clangula hyemalis*) and Common Eiders (*Somateria mollissima*) (A) Ulman

Examining Maternal Investment in Steller Sea Lions (*Eumetopias jubatus*) 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 (*Aegypius monachus*) 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 (*Zalophus californianus*) (A) Halach

Monitoring Reproductive Hormones in Captive Adult Female Steller Sea Lions (*Eumetopias jubatus*) During a Breeding Program (A) Polasek

Obtaining Voluntary End Tidal Carbon Dioxide (EtCO$_2$) Levels in California Sea Lions (*Zalophus californianus*) (A) Ortiz & Ostek

Pacific Walrus (*Odobenus rosmarus*) 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 (*Trichoglossus 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 (*Hystrix afericaeaustralis*) 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

**POSTERS**

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

Analysis of Testosterone and Estrogen Levels of 1.0 Grey Seal (*Halichoerus grypus*) Following Administration of Leuprolide Acetate (A) Flowers

Comparison of Asian Elephant (*Elphas maximus*) 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 (*Trichoglossus haematodus*) *(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 (*Elephas maximus*) Feet *(A)* Ryan

**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

**ROUND TABLE DISCUSSIONS**

Q&A with the Contraception Center Agnew

---

**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 (*Capra hircus hircus*) Does and Kids *(P)* Huber

Cetacean Anesthesia *Notes only* Bailey

Clinical Case Study: Exophthalmia, Fungal Infection, Turbellarians, and Distended Abdomen in a Lemon Butterflyfish (*Chaetodon miliaris*) *(A)* Boucha

Creative Management of a Red Kangaroo (*Macropus rufus*) 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 (*Hippopotamus amphibius*) *(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 \( Notes only \) Bailey

Preliminary Evaluation and Overview of Blood Nutrient Parameters and Prey Item Analysis of Free-Ranging and Rehabilitated Loggerhead Sea Turtles \( (Caretta caretta) \) 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 \( (Hydrochaeris hydrochaeris) \) \( (P) \) Chancey

The Diagnosis and Treatment of a Tooth Root Abscess in a California Sea Lion \( (Zalophus californianus) \) \( (A) \) 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 \( (Ursus maritimus) \) From Birth at the Toronto Zoo \( (P) \) Mihailovic

The Use of Medical Grade Honey and Clindamycin to Treat Facial Abscesses in Pronghorn \( (Antilocapra americana) \) \( (A) \) 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 \( (Panthera leo krugeri) \) \( (P) \) McDermid

Zoo Contraception: Updates and New Research \( (P) \) Agnew

---

**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 \( (Ursus arctos horribilis) \) \( (A) \) Freudenthal
WET LABS

<table>
<thead>
<tr>
<th>Subject and Author(s)</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avian and Reptile Hematology Review</td>
<td>Jenkins-Perez, Pond, &amp; Oliva</td>
</tr>
<tr>
<td>Cardiology and Echocardiography Techniques</td>
<td>Wiley</td>
</tr>
<tr>
<td>The Manatee: Natural History, Research, and Clinical Techniques</td>
<td>Gerlach</td>
</tr>
</tbody>
</table>

ROUND TABLE DISCUSSIONS

<table>
<thead>
<tr>
<th>Topic and Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Association of Zoo Veterinary Technicians Elected Positions and Responsibilities</td>
</tr>
<tr>
<td>Standardization of Laboratory Techniques: The Pros and Cons</td>
</tr>
<tr>
<td>The Technician’s Role in Medical Training</td>
</tr>
</tbody>
</table>

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

PRESENTATIONS

- **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 (Gorilla gorilla gorilla)**
  - (A) Runnells

- **Biological Sampling Protocols for Research and Archive Purposes at Monterey Bay Aquarium**
  - (A) Viens

- **Case Management of Pyometra in a Southern Stingray (Dasyatis americana)**
  - (P) Lydick and Prom
  - Note: This paper was published in 2010 but was not presented

- **Clinical Pathology Training of Veterinary and Field Biology Team Associated with the Southern Right Whale (Eubalaena australis) 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 (Dendrobates tinctorius) - [2011 Recipient, Laurie Page-Peck Scholarship]**
  - (P) Deignan

- **Diagnosing Cryptosporidium sp. 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 (Llama glama) Secondary to Posthistis
(P) Freudenthal

PZP Immunocontraception: Advantages and Disadvantages
(P) Frank

Sarcocystosis in a California Sea Lion (Zalophus californianus californianus)
(A) O’Brien

Serum Protein Reference Intervals from Clinically Healthy Cheetahs (Acinonyx jubatus jubatus) Determined by Agarose Gel Electrophoresis
(A) Ackerman

TB or Not TB in a Malayan Tapir (Tapirus indicus), That is the Question
(A) Lydick

The Diagnosis and Treatment of Acute Diabetic Ketoacidosis in an African Hunting Dog (Lycaon pictus)
(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 Gongylonema sp. in a White-Faced Saki Monkey (Pithecia pithecia)
(P) Tarwater

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

Medical Management of a Fennec Fox (Vulpes zerda) with Cystinuria
(A) Wone

Whitespotted Bamboo Shark (Chiloscyllium plagiosum) Hematology: Red Blood Cell Cytoplasmic Inclusions in a Captive Juvenile Animal
(A) Halach
### WET LABS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting and Preparing Reproductive Tissues for Submission to the Contraception Center</td>
<td>Moresco</td>
</tr>
<tr>
<td>Laboratory Stain Comparisons</td>
<td>Oliva &amp; Jenkins-Perez</td>
</tr>
</tbody>
</table>

### ROUND TABLE DISCUSSIONS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Challenges Faced by Senior/Supervisory Technicians</td>
<td>Crossett</td>
</tr>
<tr>
<td>How Can AZA Help Your Institution Lower Costs?</td>
<td>Merkel</td>
</tr>
<tr>
<td>ZIMS: An Update</td>
<td>Moses</td>
</tr>
</tbody>
</table>

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

### PRESENTATIONS

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Update on the Academy of Veterinary Zoological Medicine Technicians</td>
<td>Maurer</td>
</tr>
<tr>
<td>Anaplasmosis in Captive Przewalski’s Horses (Equus ferus przewalskii) and Maned Wolves (Chrysocyon brachyurus) at the Smithsonian Conservation Institute (SCBI) of the National Zoo</td>
<td>Acosta</td>
</tr>
<tr>
<td>Anesthesia for Tusk Repair and Subsequent Removal in an African Elephant (Loxodonta africana)</td>
<td>Scott Schaub</td>
</tr>
<tr>
<td>Avian Anesthesia and Analgesia</td>
<td>Pye</td>
</tr>
<tr>
<td>Case Management of Pyometra in a Southern Stingray (Dasyatis americana)</td>
<td>Prom</td>
</tr>
<tr>
<td>Collection and Identification of Respiratory Mites in Great Apes</td>
<td>Chancey</td>
</tr>
<tr>
<td>Conservation Efforts and Satellite Tagging of Nesting Leatherback Sea Turtles (Dermochelys coriacea) in Costa Rica</td>
<td>Steinert</td>
</tr>
<tr>
<td>Guidelines for Managing Cases Diagnosed With a Zoonotic Disease Agent</td>
<td>Janssen</td>
</tr>
<tr>
<td>Hand-Raising Orphaned African Painted Dogs (Lycaon pictus pictus) Using a Domestic Canine (Canis lupis familiaris) Surrogate</td>
<td>Galvenek</td>
</tr>
<tr>
<td>Health Assessments of a North American Raccoon (Procyon lotor) Population in Central Park, New York City, as Part of Rabies Epizootic Control Efforts</td>
<td>Marchese</td>
</tr>
</tbody>
</table>
### Influenza A Virus Strains Found to Infect Wild Felids: A Review of H5N1 and H1N1

- [2010 Recipient, Laurie Paige-Peck Scholarship]

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Reproductive Ultrasonography for the Veterinary Technician</td>
<td>Julien</td>
</tr>
<tr>
<td>Koala Anesthesia and Analgesia</td>
<td>Pye</td>
</tr>
<tr>
<td>Managing an Epileptic Sea Otter Pup <em>(Enhydra lutris)</em></td>
<td>Belovarac</td>
</tr>
<tr>
<td>Out of the Clinic and Into the Field</td>
<td>Liebermann</td>
</tr>
<tr>
<td>Peaks of Interest: The Concept of Protein Electrophoresis</td>
<td>Otto</td>
</tr>
<tr>
<td>Reptile Anesthesia and Analgesia</td>
<td>Pye</td>
</tr>
<tr>
<td>Special Nutritional Needs of Reptiles</td>
<td>Edwards</td>
</tr>
<tr>
<td>Special Nutritional Needs of Ruminants</td>
<td>Edwards</td>
</tr>
<tr>
<td>Team-Based Approach in the Treatment of Cataracts in a California Sea Lion <em>(Zalophus californianus)</em></td>
<td>LaVictoire</td>
</tr>
<tr>
<td>The Design, Transportation, and Operation of a Mobile Endocrinology Laboratory in Kruger National Park, South Africa</td>
<td>Peterson</td>
</tr>
<tr>
<td>The Grand Cayman Blue Iguana <em>(Cyclura lewisi)</em> Recovery Project</td>
<td>Maurer</td>
</tr>
<tr>
<td>The Role of the Frozen Zoo® in the Preservation of Endangered Species Through Genetic Research</td>
<td>Houck</td>
</tr>
<tr>
<td>The Treatment, Rehabilitation, and Release of a Loggerhead Sea Turtle <em>(Caretta caretta)</em> With Severe Shell Disease</td>
<td>Steinert</td>
</tr>
<tr>
<td>Wildlife Contraception Center – Health Surveillance Program <em>(WCC-HSP)</em></td>
<td>Moresco</td>
</tr>
<tr>
<td>Updates and New Projects for the AZA Wildlife Contraception Center</td>
<td>Boutelle</td>
</tr>
</tbody>
</table>

### POSTERS

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avian Anesthesia Using a Ventilator for Intermittent Positive Pressure Ventilation</td>
<td>Meadows</td>
</tr>
<tr>
<td>Hematology of Amazon Freshwater Rays: A Comparison of Newly Acquired to Long Term Captive Animals</td>
<td>Maciol</td>
</tr>
<tr>
<td>Saint Louis Zoo’s Hellbender <em>(Cryptobranchus alleganiensis)</em> Anesthesia Protocol</td>
<td>O’Brien</td>
</tr>
</tbody>
</table>

### WET LABS

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dart Making and Target Practice</td>
<td>Rocca</td>
</tr>
</tbody>
</table>
Digital Radiography

ROUND TABLE DISCUSSIONS


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

---

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 *Haemonchus contortus* Populations in Captive Giraffe (*Giraffa camelopardalis*)  Clabbers

An Introduction to Female Hormonal Contraceptives in Zoos  Aplasca

[2009 Recipient, Laurie Page-Peck Scholarship]

Basic Cytology: Inflammation vs. Neoplasia  Pond

Cardiac Disease in Captive Gorillas (*Gorilla gorilla gorilla*)  King-Gallogly

Diagnosis and Treatment of Endometriosis in Two Macaque Species (*Macaca nigra* and *Macaca silenus*)  Clabbers

Experimental Treatment Protocol for Acanthocephalan Peritonitis in the Southern Sea Otter (*Enhydra lutris nereis*)  Viens

Foreign Body Removal in an African Spurred Tortoise (*Geochelone sulcata*) and the Role of the Critical Care Veterinary Technician  Darbo

Hawai’ian Endangered Bird Conservation Program: The Challenges of Long Distance Veterinary Care  Williams

Managing a Critically Ill Snow Leopard (*Uncia uncia*)  Stringer

Monitoring Bone Growth of Asian Elephant Calves (*Elephas maximus*) Through Monthly Radiographs  O’Brien

Polar Bear Express: Coordinating an Off-Site Dangerous Animal Transport for a Medical Procedure  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 (Mustela nigripes) Recovery Program: An Update (A) Branvold

The Effects of Anticoagulant Choice and Sample Processing Time on Hematologic Values of Juvenile Whooping Cranes (Grus americana) (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 (Loxodonta africana) (P) Galvanek & Sohl

Urinalysis Review Notes only Pond

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

WET LABS

Making MedARKS Work for You: Basic and Advanced Workshops
1. Basic MedARKS
2. Advanced MedARKS

ROUND TABLE DISCUSSIONS

Anesthesia Monitoring and Maintenance of Normal Vitals Korman

Contraception Topics: Answering Your Questions on Methods, Product Updates and Reversibility Boutelle
# PRESENTATIONS

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Review of Biomaterial Shipping Procedures Through Courier Services in the United States</td>
<td>Huff</td>
</tr>
<tr>
<td>A Successful Veterinary Technician Extern and Volunteer Program at the Wildlife Center of Virginia</td>
<td>Horne</td>
</tr>
<tr>
<td>Anesthesia and Tusk Removal in a Male Asian Elephant (<em>Elephas maximus</em>)</td>
<td>Monti</td>
</tr>
<tr>
<td>Appropriate Vitamin E Supplementation for Black Rhinoceros (<em>Diceros bicornis</em>)</td>
<td>Cravens</td>
</tr>
<tr>
<td>Beyond the Blue Line: Creative Quarantine Adaptations and Procedures</td>
<td>Lemon</td>
</tr>
<tr>
<td>Camel Medicine: Spit Happens</td>
<td>Michaels</td>
</tr>
<tr>
<td>Chinese Alligator (<em>Alligator sinensis</em>), A Conservation Effort in the Far East: An AZVT Grant Supported Project Trip Report</td>
<td>Ingerman</td>
</tr>
<tr>
<td>[AZVT Grant Recipient]</td>
<td></td>
</tr>
<tr>
<td>Chronic Anorexia With Probable Pseudobupthalmia in a Male Burmese Python (<em>Python molurus bivittatus</em>)</td>
<td>tarwater</td>
</tr>
<tr>
<td>Clinical Assessment of a Cranial Tumor in a Rothchild’s Giraffe (<em>Giraffa camelopardalis rothschildi</em>)</td>
<td>Acosta</td>
</tr>
<tr>
<td>Development of an <em>Aspergillus</em> Vaccine</td>
<td>Cravens</td>
</tr>
<tr>
<td>Development of the Gorilla Health Project</td>
<td>Murphy</td>
</tr>
<tr>
<td>Effects of Climate Change on North Atlantic Right Whales (<em>Eubalaena glacialis</em>) and Other Marine Mammals</td>
<td>Kenney</td>
</tr>
<tr>
<td>Embrace Your Inner Abacus: A Review of the Everyday Math in Our Tech Lives</td>
<td>Leahy</td>
</tr>
<tr>
<td>Hand Raiding Three African Lion Cubs (<em>Panthera leo krugeri</em>)</td>
<td>Cooper</td>
</tr>
<tr>
<td>Ileo-Colic Intussusception in a Captive Mountain Lion (<em>Puma concolor</em>)</td>
<td>Sims</td>
</tr>
<tr>
<td>International Organization of Standardization (ISO) 14001 Environmental Management Systems (EMS) at the North Carolina Zoological Park</td>
<td>Purnell</td>
</tr>
<tr>
<td>Investigating the Seroprevalence of Q Fever in White-Tailed Deer (<em>Odocoileus virginianus</em>)</td>
<td>Elder</td>
</tr>
<tr>
<td>Investing in Your Volunteers: A Training Program at the Monterey Bay Aquarium</td>
<td>Viens</td>
</tr>
<tr>
<td>Title</td>
<td>Format</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>It’s Not What it Looks Like: How Post-Mortem Changes Can be Mistaken for Lesions at Necropsy</td>
<td>(P)</td>
</tr>
<tr>
<td>Malignant Histiocytic Sarcoma in a Female Southern Sea Otter (<em>Enhydra lutris nereis</em>)</td>
<td>(A)</td>
</tr>
<tr>
<td>Management of Inflammatory Bowel Disease in a Siamang (<em>Hylobates syndactylus</em>)</td>
<td>(A)</td>
</tr>
<tr>
<td>Medical Management of a Giant Anteater (<em>Myrmecophaga trydactyla</em>) Neonate After Severe Con-Specific Trauma</td>
<td>(P)</td>
</tr>
<tr>
<td>Recapture of an Escaped Western Lowland Gorilla (<em>Gorilla gorilla gorilla</em>) at the Franklin Park Zoo</td>
<td>(P)</td>
</tr>
<tr>
<td>Ruminant Nutrition: Techniques for Evaluating Changes in Diet</td>
<td>(A)</td>
</tr>
<tr>
<td>Southern Stingray (<em>Dasyatis americana</em>) Diagnostics in the Field</td>
<td>(A)</td>
</tr>
<tr>
<td>There is No “I” in “TEAM”: Hospital Management for the Veterinary Technician</td>
<td>(P)</td>
</tr>
<tr>
<td>They’re Retro, Campy, Foamy and Runny: Getting to Know Your Primate Zoonoses</td>
<td>(P)</td>
</tr>
<tr>
<td>Treatment and Supportive Care of Amphibians</td>
<td>(A)</td>
</tr>
<tr>
<td>Treatment of a Louse (<em>Haematomyzus elephantis</em>) in a Captive Heard of African Elephants (<em>Loxodonta africana</em>)</td>
<td>(A)</td>
</tr>
<tr>
<td>Use of Digital Infared Thermography to Assess Thermal Gradients and Abnormalities of the Elephant Foot, and Thermal Responses to Changes in Environmental Conditions</td>
<td>(A)</td>
</tr>
<tr>
<td>Yippee-Ki-Yay: Prairie Dog Wrangling for the Solo Technician</td>
<td>(A)</td>
</tr>
</tbody>
</table>

**POSTERS**

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

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

Fish Biology and Examination for Technicians
Scientific Writing
Thermography of Elephants

Gibson
Poynton
Willard & Chromiak

ROUND TABLE DISCUSSIONS

Group Dynamics in the Veterinary Hospital
Math Practice Table
Quality Control in the Lab
Zoo Technician Evolution: So You’re a Supervisor Now

Purnell
Leahy
Ackerman
Buice

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 (Ceratotherium simum simum)? (A) Oliva
Cephenemyia spp. The Deer Throat Bot (P) Oresjo
Chelicerates Health Study (A) Castro
Chemical Analysis of Pure Lymph and Venous Blood in Chelonians (P) Bratthauer
Cyanobacteria Lyngbya – A New Concern for Manatees (Trichechus manatus) (P) King
Cytology as a Diagnostic Tool During Gross Necropsy Examinations (A) Walsh
Eastern Equine Encephalitis in a Captive Harbor Seal (Phoca vitulina) (P) DeMedeiros
Fungal Endometritis in a Pelagic Stingray (Dasyatis violacea) (A) Steinert
Growing Pains: One Hospital’s Quest to Build an Addition (P) Eidlin
Health Assessment of Free-Ranging Ricord’s (Cyclura ricordii) and Rhinoceros (Cyclura cornuta cornuta) Iguanas on Isla Cabritos and Pedernales, Dominican Republic

[2006 AZVT Grant Recipient]

Hematology of the Manatee (Trichechus manatus) (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 (Panthera leo) (P) Rooker

Medical and Surgical Management of Dystocia and Vestibulotomy for Removal of a Retained Fetus in an African Elephant (Loxodonta africana) (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 (Tapirus indicus) 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 (Alouatta caraya) (P) Gordon

PAWWS to Heal: Animal Assisted Therapy (A) Shriver

Pharmacokinetics of Meloxicam in Loggerhead Sea Turtles (Caretta caretta) 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 (Ursus maritimus) (P) Peterson

Restraint and Anesthesia of the Electric Eel (Electrophorus electricus) (P) Hana & Homeier

Salmonellosis in Wildlife: Diagnosis, Prevention and Treatment Options for the Zoo Veterinary Technician and Wildlife Rehabilitator (P) Brown

[2007 LPP Scholarship Winner]

Stranding Response and Husbandry Care for Stranded Sea Otter Pups (Enhydra lutris nereis) (A) Young
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical Management of Angular Limb Deformities in American Flamingoes (Phoenicopterus ruber) at the Riverbanks Zoo</td>
<td>Norris</td>
<td>(P)</td>
</tr>
<tr>
<td>The Red Baron Crashes: Intensive Treatment for Aspergillosis in a Red-Tailed Hawk (Buteo jamaicensis)</td>
<td>Pollard &amp; Prom</td>
<td>(A)</td>
</tr>
<tr>
<td>The Inconceivable Truth About Contraception</td>
<td>Boutelle</td>
<td>(A)</td>
</tr>
<tr>
<td>The ‘Interesting’ Fauna of Japan’s Lake Biwa</td>
<td>Rossiter</td>
<td>Notes only</td>
</tr>
<tr>
<td>Treatment of Urinary Disease in a Female Southern Koala (Phascolarctos cinereus victor), Including Placement of a Percutaneous Gastrostomy Tube</td>
<td>Dragoo</td>
<td>(P)</td>
</tr>
<tr>
<td>Using C-Reactive Protein to Monitor a Lung Abscess in an Atlantic Bottlenose Dolphin (Tursiops truncatus)</td>
<td>Vander Wagen</td>
<td>(P)</td>
</tr>
<tr>
<td>When Hope Takes Flight and Tragedy Strikes</td>
<td>Rogers</td>
<td>(P)</td>
</tr>
</tbody>
</table>

**POSTERS**

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronchoscopy of Bottlenose Dolphins (Tursiops truncatus)</td>
<td>Jones</td>
</tr>
<tr>
<td>Malignant Melanoma in a Rockhopper Penguin (Eudyptes chrysocome)</td>
<td>Crossett</td>
</tr>
<tr>
<td>Muddy Dragons: A Conservation Effort in the Far East</td>
<td>Ingerman</td>
</tr>
<tr>
<td>Radiographic Positioning and Techniques for the Elephant Foot Using Protected Contact</td>
<td>Maloy</td>
</tr>
<tr>
<td>Tongue Amputation in a 29-Year-Old Reticulated Giraffe (Giraffa camelopardalis reticulata)</td>
<td>Dragoo</td>
</tr>
</tbody>
</table>

**13th Annual Meeting -- 6–10 October, 1993**

**St. Louis, Missouri**

**PRESENTATIONS**

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

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

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

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Descriptive Analysis of Parturition and Nursing in a Captive Born Beluga Whale (Delphinapterus leucas)</td>
<td>Palma</td>
<td>(P)</td>
</tr>
<tr>
<td>An Encephalomyocarditis (EMC) Virus Outbreak at the Dallas Zoo</td>
<td>Alvarado</td>
<td>(P)</td>
</tr>
<tr>
<td>Applied Immunology: A Practical Understanding of Vaccines, Titers, and the Immune Response</td>
<td>Edge</td>
<td>(P)</td>
</tr>
<tr>
<td>Basic Electrocardiology for Anesthetic Monitoring</td>
<td>Morris</td>
<td>(P)</td>
</tr>
<tr>
<td>Cryopreservation of Germplasm</td>
<td>Patton &amp; Durrant</td>
<td>(P)</td>
</tr>
<tr>
<td>Cytogenic Techniques and Their Application to Conservation Biology</td>
<td>Houck</td>
<td>(P)</td>
</tr>
</tbody>
</table>
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

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 Mycobacterium kansasii (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 (Addax nasomaculatus) 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 (Conraua goliath) 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

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  
(\textit{P})  Williams

Cytology  
(\textit{P})  Pond

Follow-Up Case Study on a Sumatran Orangutan  
(\textit{P})  Jenkins

Microbiology in Aquariums  
(\textit{P})  Arnold

Normal Hematology Values for a Madoqua Species at the Dallas Zoo  
(\textit{P})  Maloy

Root Canal in a Twenty-Three Year-Old Polar Bear  
(\textit{P})  McCarthy

Status of Zoos in Central America  
(\textit{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  
(\textit{P})  Skrei

Venomous Snake Bite  
(\textit{P})  Keyler

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

PRESENTATIONS  
\textit{Note: (P) denotes full paper; (A) denotes abstract only}

A Technique for the Microscopic Examination of Animal Hair  
(\textit{P})  McCarthy

Avian Necropsy  
(\textit{P})  Lancaster

Energetics in Captive Lowland Gorillas  
(\textit{P})  Buice & Baer

Lyme Disease: Animal Overview  
(\textit{A})  Nette

Raptor Rehabilitation & Handling  
(\textit{P})  Halmazna

Research at the Calgary Zoo Animal Health Centre  
(\textit{A})  Mainka

Serum Banking at the Milwaukee County Zoo- The Computerized Version  
(\textit{P})  Mayer

Setting Up a Pathology Program for a Zoological Park  
(\textit{P})  Black

The Animal Welfare Movement and Zoos  
(\textit{P})  Cooper

The Employee Health Program at the Baltimore Zoo  
(\textit{P})  Johnson

The MedAR KS Treatment and Vaccination Module: How to Make it Work for You  
(\textit{P})  Crossett
### 8th Annual Meeting -- 4–6 November, 1988
**Toronto, Ontario**

#### PRESENTATIONS

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Medical Management of a Baringo Giraffe at the Lincoln Park Zoo</td>
<td>Pond</td>
</tr>
<tr>
<td>The Role of the Animal Health Technician in Private Exotic Pet Practice</td>
<td>Korber</td>
</tr>
<tr>
<td>Water Quality Testing at the Central Park Zoo</td>
<td>Moretti</td>
</tr>
<tr>
<td>An Evaluation of Chemistry Analyzers for the Small Laboratory</td>
<td>Williams</td>
</tr>
<tr>
<td>Behavior Modification in an Adult Male Orangutan</td>
<td>Gallagher-Mahan</td>
</tr>
<tr>
<td>Halothane Anesthesia in Abdominal Surgery of Tamarins and Marmosets</td>
<td>Pond, Wolff, &amp; Meehan</td>
</tr>
<tr>
<td>Making MedARKs Work for You</td>
<td>Mayer</td>
</tr>
<tr>
<td>Musk Ox on the Prairies</td>
<td>McCarthy</td>
</tr>
<tr>
<td>Pregnancy Diagnosis in Exotic Species</td>
<td>Balke</td>
</tr>
<tr>
<td>Reptiles: Examination, Anesthesia, Diagnostic Techniques, and Surgery</td>
<td>Jacobson</td>
</tr>
<tr>
<td>Strategic Approaches for Studies of Reproductive Biology in Wildlife Species</td>
<td>Goodrowe</td>
</tr>
<tr>
<td>Technical Management of Avian Tuberculosis</td>
<td>Geidans</td>
</tr>
<tr>
<td>The Use of Albumin to Improve Blood Smears of Fish Blood</td>
<td>Arnold &amp; Nevy</td>
</tr>
<tr>
<td>Veterinary Aspects of a Reptile Hibernation Program</td>
<td>Buice &amp; Roberts</td>
</tr>
</tbody>
</table>

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

#### PRESENTATIONS

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avian Clinical Pathology of Tuberculosis, Psittacosis, And Lead Poisoning</td>
<td>Orme</td>
</tr>
<tr>
<td>Title</td>
<td>Author(s)</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Demonstration and Evaluation of the CITE-FeLV Test Kit for use in Exotic Felidae</td>
<td>Nachel</td>
</tr>
<tr>
<td>Detection and Treatment of Malaria (<em>Plasmodium elongatum, Plasmodium relictum</em>) in Blackfooted Penguins (<em>Spheniscus demersus</em>)</td>
<td>Neely</td>
</tr>
<tr>
<td>Evaluation of Orangutan Palpebral Tuberculin Reactors</td>
<td>Calle &amp; Roskop</td>
</tr>
<tr>
<td>Halothane Anesthesia for Abdominal Surgery in Tamarins and Marmosets</td>
<td>Pond, Wolf, &amp; Meehan</td>
</tr>
<tr>
<td>The Birth of an Asian Elephant at the Calgary Zoo</td>
<td>Rogers</td>
</tr>
<tr>
<td>The Management of Diabetic Primates at the Houston Zoo</td>
<td>Lancaster</td>
</tr>
<tr>
<td>The Microbiology of Lumpy Jaw in Red Kangaroos at the Denver Zoo</td>
<td>Kenny</td>
</tr>
<tr>
<td>Treatment and Management of Chronic Foot Problems in an Indian Rhinoceros</td>
<td>Mayer &amp; Saksefski</td>
</tr>
</tbody>
</table>

---

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

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Practical Guide for the Novice Aquarium Vet Tech</td>
<td>Nevy</td>
</tr>
<tr>
<td>A Survey of Intestinal Parasites in Wild, Ex-Captive and Captive Orangutans (<em>Pongo pygmaeus</em>): An American Association of Zoo Keepers Research Project, Parts One and Two</td>
<td>Frazier-Taylor, Galdikas, &amp; Karesh</td>
</tr>
<tr>
<td>Artifacts, Pseudoparasites, Spurious Organisms, and Unusual Objects Found During Parasitological Examination of Exotic Animal Feces</td>
<td>Pond</td>
</tr>
<tr>
<td>Ethmoiditis in an Infant Orangutan</td>
<td>Cambre</td>
</tr>
<tr>
<td>Evaluation of Urinary LH in Gorillas</td>
<td>Buice</td>
</tr>
<tr>
<td>Exotic Animal—Zoo—Denistry, Potentials of Dentistry Contributing To Zoo Animal Health Care</td>
<td>Scheels</td>
</tr>
<tr>
<td>Giraffe Restraint Devices</td>
<td>Roskop, Davis, Blaisdell, Storm, &amp; Frazier-Taylor</td>
</tr>
</tbody>
</table>
Intensive Care in a Young Gorilla \textit{(P)} Karesh, Burton, & VanAllen

Medical Records and Computers in Zoos \textit{(P)} Teare

Primate Amoeba Identification Differential Diagnosis of Intestinal Protozoa \textit{(P)} Goodman

Stress Management \textit{(P)} Wilkinson

The Euthanasia of an Asian Elephant \textit{(P)} Jenness

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

Use of Ivermectin for the Treatment of Gizzard Worms in Passeriformes \textit{(P)} Kimball

\textbf{5th Annual Meeting -- 4–5 October, 1985}
Scottsdale, Arizona

\textbf{PRESENTATIONS}
\textit{Note: (P) denotes full paper; (A) denotes abstract only}

Avian Hematology Blood Cell Counting Procedures \textit{(P)} Arnold

Avian Hematozoa \textit{(P)} Neely

Embryo Transfer at the Louisville Zoo \textit{(P)} Morton

Histoplasmosis in a Flat-Headed Cat \textit{(P)} Pond

Laboratory Diagnosis of \textit{Chlamydia psittaci} Infections \textit{(P)} Baumeister

Leukocyte Identification in Peripheral Blood from \textit{Elephas maximus} \textit{(P)} Williams, Hurwitz, Wilson, & Cambre

Necropsy Techniques in Snakes \textit{(P)} Buice

Rapid Dimethyl Sulfoxide-Modified Acid-Fast Stain of Cryptosporidium Oocysts in Stool Specimen \textit{(P)} Neely

Serum Banking at the Milwaukee County Zoo \textit{(P)} Mayer

The Results of Microbiological Culture of a Commercial Frozen Meat Based Animal Food and Whole Frozen Chicken Thawed by Various Methods \textit{(P)} Pond
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, Oosterhuis, Schofield, & Halligan

Future Technologies in Embryo Transfer (P) Loskutoff & Kraemer

Handraising Wooling Monkeys (Lagothrix lagotricha) 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
<table>
<thead>
<tr>
<th>Topic</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semen Assessment in Non-domestic Species</td>
<td>(P) Howard</td>
</tr>
<tr>
<td>Semen Freezing</td>
<td>(P) Schaeffer</td>
</tr>
<tr>
<td>Tularemia in a Lowland Gorilla</td>
<td>(P) Baumeister, &amp; Ramsay</td>
</tr>
</tbody>
</table>