



IAAAM 2009
40th Annual Conference of the
International Association for Aquatic Animal Medicine
2 – 7 May 2009
Hosted By
SeaWorld San Antonio
San Antonio, Texas, USA



INTERNATIONAL ASSOCIATION FOR AQUATIC ANIMAL MEDICINE 2009

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Immunology

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Ruth Ewing

Pam Govett

Epidemiology

Suzanne Kennedy-Stoskopf

Case Reports

Stephanie Venn-Watson

Imaging

Beth Nolan

Infectious & Parasitic Diseases

Cynthia Smith

Ophthalmology

Stéphane Lair

Carmen Colitz

WORKSHOPS

C.L. Davis Aquatic Animal Pathology Workshop

Judy St. Leger

ACZM Ultrashort Board Preparation Course

Jodie Sherrill and Greg Lewbart

Problem Solving Workshop

Mike Walsh

Conundrums Session

Mike Briggs

Student Workshop

Sarah Poynton and Ashley Linton

Ophthalmology Workshop

Carmen Colitz

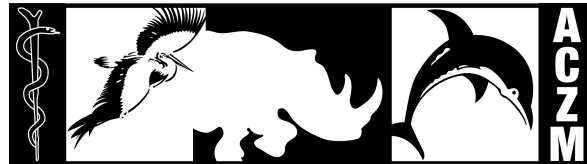
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40th Annual IAAAM Conference Agenda
Hilton San Antonio Hill Country Hotel & Spa, San Antonio, Texas

Saturday, May 2, 2009

07:00 – 09:00	Registration Desk Open (Hotel Lobby)
08:00 – 17:00	Board Meeting (Senna Boardroom)
08:00 – 17:00	Pathology Workshop – Dr. Judy St. Leger (Monterey/Red Oak Ballroom)
08:30 – 16:30	ACZM Preparation Course – Dr. Greg Lewbart, Dr. Jodie Sherrill (Live Oak Ballroom)
15:00 – 19:00	Registration Desk Open (Hotel Lobby)
18:00 – 22:00	Icebreaker at hotel (Grand Oaks & Patio)

Sunday, May 3, 2009

07:00 – 08:00	Continental Breakfast (Foyer/Hill Country Bar)
07:30 – 17:00	Registration Desk Open (Hotel Lobby)
08:00 – 09:40	Welcome and Plenary Session (Oak Ballroom)
09:40 – 10:00	Break (Foyer)
10:00 – 11:40	Scientific Session I—Applied Research I (Oak Ballroom)
11:40 – 13:00	Lunch Break (on own)
From 12:00	Set up Posters
13:00 – 14:40	Scientific Session II—Applied Research II; Therapeutics & Toxicology I (Oak Ballroom)
14:40 – 15:00	Break (Foyer)
15:00 – 16:40	Scientific Session III—Therapeutics & Toxicology II (Oak Ballroom)
16:40 – 18:00	General Business Meeting (Oak Ballroom)
18:30 – 20:00	Problem Solving Workshop – Dr. Mike Walsh (Oak Ballroom)
20:00 – 21:30	Conundrums Session – Dr. Mike Briggs (Oak Ballroom)
20:00 – 21:30	Student Workshop (Pizza furnished) (Nandina Meeting Room)

Monday, May 4, 2009

07:00 – 08:00	Continental Breakfast (Foyer/Hill Country Bar)
07:30 – 18:00	Registration Desk Open (Hotel Lobby)
08:00 – 09:40	Scientific Session IV—Management (Oak Ballroom)
09:40 – 10:00	Break (Foyer)
10:00 – 11:40	Scientific Session V—Immunology (Oak Ballroom)
11:40 – 13:00	Lunch Break (on own)
13:00 – 14:40	Scientific Session VI—Poster Session (Afternoon Break in the poster area) (Grand Oaks)
15:00	Buses depart for San Antonio Riverwalk, dinner on your own
21:30	Buses depart Riverwalk for hotel

Tuesday, May 5, 2009

07:00 – 08:00	Continental Breakfast (Foyer/Hill Country Bar)
07:30 – 09:00	Registration Desk Open (Hotel Lobby)
08:00 – 09:40	Scientific Session VII—Epidemiology I (Oak Ballroom)
09:40 – 10:00	Break (Foyer)
10:00 – 11:40	Scientific Session VIII—Epidemiology II; Case Reports I (Oak Ballroom)
11:40 – 13:00	Lunch Break (on own)
12:00 – 13:00	Second Board Meeting (Senna Boardroom)
13:00 – 14:40	Scientific Session IX—Case Reports II (Oak Ballroom)
15:00	Depart to SeaWorld Tours
19:00	Dinner at SeaWorld Live and Silent Auctions
23:00	Return to hotel

Wednesday, May 6, 2009

07:00 – 08:00	Continental Breakfast (Foyer/Hill Country Bar)
07:30 – 09:00	Registration Desk Open (Hotel Lobby)
08:00 – 09:40	Scientific Session X—Imaging I (Oak Ballroom)
09:40 – 10:00	Break (Foyer)
10:00 – 11:40	Scientific Session XI—Imaging II; Infectious & Parasitic Diseases I (Oak Ballroom)
11:40 – 13:00	Lunch Break (on own)
By 13:00	Break down Posters
13:00 – 14:40	Scientific Session XII—Infectious & Parasitic Diseases II (Oak Ballroom)
14:40 – 15:00	Break (Foyer)
15:00 – 16:40	Scientific Session XIII—Ophthalmology (Oak Ballroom)
18:00 – 19:00	Cocktail Reception (Foyer/Patio)
19:00 – 23:00	Awards Banquet (Oak Ballroom)

Thursday, May 7, 2009

09:00 – 12:00	Aquatic Animal Ophthalmology Workshop/Wet Lab (to be held at SeaWorld) (Great White Training Room)
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2009 IAAAM Scientific Program

STUDENT PRESENTERS ARE MARKED WITH A PLUS SIGN (+).

SUNDAY, 3 MAY 2009

WELCOME AND PLENARY SESSION: 08:00 – 09:40

SCIENTIFIC SESSION I: 10:00 – 11:40

SCIENTIFIC SESSION II: 13:00 – 14:40

SCIENTIFIC SESSION III: 15:00 – 16:40

GENERAL BUSINESS MEETING: 16:40 – 18:00

WELCOME AND PLENARY SESSION

Hosts: Leslie M. Dalton, Steven D. Osborn

Program Chair: Craig A. Harms

**WELCOME ADDRESS: DANIEL DECKER, EXECUTIVE VICE
PRESIDENT AND GENERAL MANAGER, SEAWORLD SAN
ANTONIO**

**PLENARY ADDRESS: VIRGINIA M. BUSCH, PRESIDENT,
SEAWORLD & BUSCH GARDENS CONSERVATION FUND:**
Conservation. It's in our Nature – How SEAWORLD & BUSCH
GARDENS is working for wildlife.

Introduction to the Scientific Sessions: Craig A. Harms

State of the Art Speaker: Michael T. Walsh

DEVELOPMENT OF A SEDATION TECHNIQUE FOR SEVERELY
ENTANGLED NORTH ATLANTIC RIGHT WHALES (*EUBALAENA
GLACIALIS*) Michael T. Walsh

APPLIED RESEARCH—SCIENTIFIC SESSIONS I & II

Session Chair: Eric D. Jensen

HEALTH ASSESSMENTS IN WILD MANATEES, (*TRICHECHUS MANATUS
LATIROSTRIS*): INDIVIDUAL HEALTH AND RESTRAINT MONITORING,
INTERVENTION, AND POPULATION HEALTH PARAMETERS OF
CONCERN Michael T. Walsh

BLOOD GAS ANALYSIS OF THE FLORIDA MANATEE (*TRICHECHUS
MANATUS LATIROSTRIS*) AS AN AID TO IMPROVE MONITORING AND
RESPIRATORY SUPPORT DURING HEALTH ASSESSMENTS Jenny Meegan+

DISCOVERING NOVEL ANIMAL VIRUSES USING VIRAL
METAGENOMICS Terry Fei Fan Ng+

SEASONAL CHANGES IN BODY CONDITION AND COMPONENTS OF THE SOMATOTROPIC AXIS IN CAPTIVE BELUGA WHALES (*DELPHINAPTERUS LEUCAS*) Julie P. Richmond+

ALTERNATIVE METHODS OF BODY TEMPERATURE ASSESSEMENT IN BOTTLENOSE DOLPHINS: RECTAL TEMPERAUTRE VS. IMPLANTABLE R.F.I.D. (RADIO FREQUENCY IDENTIFICATION) MICROCHIPS..... Betsy Lutmerding

MEASUREMENT OF CORTISOL IN THE BLOOD, SALIVA AND FECES OF BELUGA WHALES (*DELPHINAPTERUS LEUCAS*) AS A POTENTIAL INDICATOR OF ACUTE VS. CHRONIC STRESS B. Biancani+

GROSS AND HISTOLOGICAL EVALUATION OF FIVE SUTURE MATERIALS IN THE SKIN AND SUBCUTANEOUS TISSUE OF THE CALIFORNIA SEA HARE (*APLYSIA CALIFORNICA*) Eric T. Anderson+

INVESTIGATING ANNUAL REPRODUCTIVE HORMONE PATTERNS IN FEMALE AND MALE COWNOSE RAYS Matt Allender+

THERAPEUTICS AND TOXICOLOGY—SCIENTIFIC SESSIONS II &

III

Session Chair: Michael K. Stoskopf

A PRELIMINARY STUDY ON THE TRANSPOSITON OF MERIDIANS AND ACUPUNCTURE POINTS FROM THE CANINE AND EQUINE SPECIES TO THE ATLANTIC BOTTLENOSE DOLPHIN (*TURSIOPS TRUNCATUS*)..... Connie L. Clemons-Chevis

PHARMACOKINETICS OF CLINDAMYCIN IN LOGGERHEAD SEA TURTLES FROM A SINGLE IV, IM OR ORAL DOSE E.A. Cranston+

PHARMACOKINETICS OF CEFTAZIDIME IN KOI (*CYPRINUS CARPIO*) AFTER SINGLE DOSE INTRAMUSCULAR OR INTRACOELOMIC ADMINISTRATION Pamela D. Govett

POSACONAZOLE FOR THE TREATMENT OF ZYGOMYCOSIS IN CETACEANS..... Lydia Staggs

USE OF TRICAINA METHANESULFONATE (MS222) IN A MODEL OF MINIMUM ANESTHETIC CONCENTRATION DETERMINATION IN GOLDFISH (*CARASSIUS AURATUS*) Jessica Ward+

TRACE METAL BASELINE LEVELS IN THE FLORIDA MANATEE (*TRICHECHUS MANATUS LATIROSTRIS*) FROM FOUR DIFFERENT LOCATIONS WITH COMPARISON TO OTHER AQUATIC ANIMALS IN FLORIDA WATERS Noel Y. Takeuchi+

EFFECTS OF MERCURY ON HEPATIC, THYROID, RENAL, AND
ENDOCRINE FUNCTION IN ATLANTIC BOTTLENOSE DOLPHINS
(*TURSIOPS TRUNCATUS*) ALONG THE EASTERN COAST OF FLORIDA
AND SOUTH CAROLINAAdam M Schaefer

ANALYSIS OF THE EFFECTS OF LEAD AND/OR MERCURY TOXICITY
IN WILD AVIAN SPECIES IN THE MID-ATLANTIC TRI-STATE REGION.....
..... Amanda N. McCullough+

BREVETOXIN-INDUCED DNA DAMAGE IN RESPIRATORY EPITHELIAL
CELLS Ayanna C. Phillips+

MULTISPECIES MORTALITIES ASSOCIATED WITH SAXITOXIN
INTOXICATION RESULTING FROM A HARMFUL ALGAL BLOOM OF
ALEXANDRIUM TAMARENSE IN THE ST. LAWRENCE ESTUARY,
QUEBEC, CANADAStéphane Lair

GENERAL BUSINESS MEETING: 16:40 – 18:00

President Thomas H. Reidarson Presiding

- Call to Order
- Reading of the Minutes
- Unfinished Business
- Board and Committee Reports
- New Business
- Nominations
- Elections
- Introduction of Officers
- Adjournment

MONDAY, 4 MAY 2009

SCIENTIFIC SESSION IV: 08:00 – 09:40

SCIENTIFIC SESSION V: 10:00 – 11:40

SCIENTIFIC SESSION VI: 13:00 – 14:40

MANAGEMENT – SCIENTIFIC SESSION IV

Session Chair: Stephen A. Smith

DEVELOPING A NATIONAL MARINE MAMMAL STRANDING NETWORK IN THE PHILIPPINES..... Gail E. Laule

ASSESSING BOTTLENESE DOLPHIN NEONATAL AND CALF HEALTH AT THE U.S. NAVY MARINE MAMMAL PROGRAM: 1978-2008.....Eric D. Jensen

REPORT ON *TURSIOPS* NEONATE SURVIVABILITY WORKSHOP Jay Sweeney

PEDIATRIC VETERINARY CONDITIONS OF CAPTIVE RAISED LEATHERBACK TURTLES (*DERMOCHELYS CORIACEA*) Chris Harvey-Clark

FISH QUARANTINE: CURRENT PRACTICES IN PUBLIC ZOOS AND AQUARIA..... Catherine A. Hadfield

A DIETARY COMPARISON OF ORNAMENTAL CYPRINUS CARPIO COMMERCIAL DIETS Maria E. Serrano+

KOI DEALER BEST HEALTH PRACTICES CERTIFICATION PROGRAM (BHP)..... Spike Cover

PARASITES OF THE NORTHERN RIVER OTTER (*LONTRA CANADENSIS*) IN VIRGINIA, USA.....Stephen A. Smith

IMMUNOLOGY – SCIENTIFIC SESSION V

Session Chairs: Rhonda A. Patterson and Ruth Ewing

INTRACELLULAR CYTOPATHIC EFFECTS OF MARINE *BRUCELLA* ON BELUGA AND HUMAN MONOCYTES Cara L. Field+

USE OF TRANSFER FACTOR AS COMPLEMENT FOR MEDICAL TREATMENTS IN BOTTLENOSE DOLPHIN CALVES (*TURSIOPS TRUNCATUS*) WITH HEALTH PROBLEMS AT PLAYA DEL CARMEN, MÉXICO Claudia Guerrero+

ANNUAL TREND OF PHAGOCYTOSIS IN CAPTIVE HARBOR SEALS (*PHOCA VITULINA*)..... Ilka Hasselmeier

TRANSCRIPTIONAL GENE SIGNATURES IN *TURSIOPS TRUNCATUS*: AN AID IN DIFFERENTIAL DIAGNOSTICS? Chia-Shan Lee+

TEAR FILM ANALYSIS AND LOCALIZATION OF IMMUNOGLOBULIN G
WITHIN THE TEAR PRODUCING APPARATUSES IN THE FLORIDA
MANATEE, *TRICHECHUS MANATUS LATIROSTRIS*.....Jennifer L. McGee+

THE POTENTIAL PROGNOSTIC VALUE OF CERULOPLASMIN
TESTING IN RELATION TO THE RESPONSE TO INITIAL
ANTIMICROBIAL THERAPY IN BOTTLENOSE DOLPHINS (*TURSIOPS
TRUNCATUS*) WITH INFECTED BITE WOUNDSOlga V. Russkova

IN VITRO PROCESSING EFFECTS ON THE VIABILITY OF HEMOCYTES
OF FRESHWATER MUSSELS (*QUADRULA* SPP.) Hope Valentine+

POSTERS – SCIENTIFIC SESSION VI

Session Chairs: Pamela D. Govett and Suzanne Kennedy-Stoskopf

NUTRITIONAL CAUSES OF PALE LIVER SYNDROME IN FINGERLING
FLORIDA LARGEMOUTH BASS *MICROPTERUS SALMOIDES
FLORIDANUS* Paul Cardeilhac

A COMPARISON OF TWO COMMONLY FED DIETS USED FOR HAND-
REARING HARBOUR SEALS (*PHOCA VITULINA*) A.M. MacRae

FATTY ACID MILK COMPOSITION OF A WILD ANTILLEAN MANATEE
(*TRICHECHUS MANATUS MANATUS*) IN CEARÁ STATE, NORTHEAST OF
BRAZIL..... Gisele A. Montano

THE USE OF PROBIOTICS IN PREGNANT FEMALES OF *TURSIOPS
TRUNCATUS* AND THE EFFECT ON CALVES DEVELOPMENTJulia Abarca+

DIAGNOSIS AND TREATMENT OF ABNORMAL FOOD REGURGITATION
IN A CALIFORNIA SEA LION (*ZALOPHUS CALIFORNIANUS*)..... Yvonne Chen

DIETARY AND SURGICAL MANAGEMENT OF LIPID KERATOPATHY
AND SYSTEMIC HYPERLIPIDEMIA IN CAPTIVE MORAY EELS..... Craig Harms

TREATMENT OF CORNEAL OPACITIES IN A NORTHERN FUR SEAL
(*CALLORHINUS URSINUS*) Tatyana G. Romanova

DESCRIPTION OF UNIQUELY DEvised EXTRINSIC OCULAR
MUSCULATURE IN THE FLORIDA MANATEEDon A. Samuelson

PROTEIN COMPOSITION OF THE TEAR FILM OF MARINE MAMMALS
..... Robin Kelleher Davis

A TECHNIQUE FOR UNDERWATER ANESTHESIA OF SEA TURTLES..... Craig Harms

THE DESIGN AND CONSTRUCTION OF A FISH ANAESTHETIC MACHINE WITH DIVIDED DIVIDED RECIRCULATION SYSTEMS	Nimal Fernando
THE FLORIDA MANATEE, <i>TRICHECHUS MANATUS LATIROSTRIS</i> , CHEMOSENSORY SYSTEM: HISTOLOGICAL EXAMINATION OF THE GUSTATORY AND OLFATORY REGIONS	Meghan L. Bills
IMMUNOHISTOCHEMICAL AND SPECIAL STAINING TECHNIQUES FOR THE INVESTIGATION OF INFLAMMATORY AND DEGENERATIVE CHANGES IN THE EAR OF THE HARBOR PORPOISE (<i>PHOCOENA PHOCOENA</i>)	Henrike Seibel+
ANALYSIS OF THE MICROSCOPIC ANATOMY AND RATE OF INVOLUTION IN THE THYMUS OF THE FLORIDA MANATEE (<i>TRICHECHUS MANATUS LATIROSTRIS</i>)	Kimberly Goldbach+
EXOTIC <i>PERKINSUS</i> SP. PROTOZOA IN AN IMPORTED VIETNAMESE ORNAMENTAL CLAM (<i>TRIDACNA CROCEA</i>) MAINTAINED IN A HOME AQUARIUM	Barbara J. Sheppard
HIGH MORTALITY IN A COLLECTION OF GIANT CLAMS (<i>TRIDACNA CROCEA</i> AND <i>TRIDACNA GIGAS</i>) DUE TO AN INFECTION WITH <i>PERKINSUS</i> SP.	Drury Reavill
VORICONAZOLE-CLINDAMYCIN AS FIRST-LINE TREATMENT FOR SUSPECTED PULMONARY ASPERGILLOSIS IN <i>TURSIOPS TRUNCATUS</i>	Natalia Deveaux+
HEPATOPATHY IN A CAPTIVE BLACK SEA BOTTLENOSE DOLPHIN WITH MIXED BACTERIAL AND FUNGAL INFECTION: CASE REPORT	Maria B. Chelysheva
SUSCEPTIBILITY OF EARLY LIFE STAGES OF THE FOWLER'S TOAD (<i>BUFO FOWLERI</i>) TO THE TADPOLE EDEMA VIRUS	Christine L. Densmore
THE MARYLAND DEPARTMENT OF NATURAL RESOURCES STRANDING SUMMARY 1990-2009	Cindy P. Driscoll
ECOSYSTEM-BASED FISHERIES MANAGEMENT AND CERTIFICATION: EXTENDING CERTIFICATION PRINCIPLES BEYOND SINGLE SPECIES	Johanna Sherrill
POST-MORTEM FINDINGS IN SEVENTEEN NEONATE BOTTLENOSE DOLPHINS (<i>TURSIOPS TRUNCATUS</i>) STRANDED ALONG THE TEXAS COAST	Errol Ronje

POTENTIAL COFACTORS IN THE RECRUDESCENCE OF
FIBROPAPILLOMAS IN REHABILITATING GREEN TURTLES (*CHELONIA
MYDAS*)..... Danielle O’Neil

EVALUATION OF AN ELECTRICAL GRADIENT TO DETER SEAL
PREDATION ON SALMON CAUGHT IN GILLNET TEST FISHERIES.....Martin Haulena

TUESDAY, 5 MAY 2009

SCIENTIFIC SESSION VII: 08:00 – 09:40

SCIENTIFIC SESSION VIII: 10:00 – 11:40

SCIENTIFIC SESSION IX: 13:00 – 14:40

EPIDEMIOLOGY – SCIENTIFIC SESSIONS VII & VIII

Session Chair: Stephanie Venn-Watson

SURVEILLANCE OF AVIAN INFLUENZA, *CAMPYLOBACTER* SPP., AND
SALMONELLA SPP. IN CANADA GEESE (*BRANTA CANADENSIS*) IN
GREENSBORO, NORTH CAROLINA, USA E. Gebhard+

DETECTION, DIVERSITY AND EPIDEMIOLOGY OF MARINE MAMMAL
ASTROVIRUSES Rebecca Rivera

NOVEL REGIONAL FINDINGS OF LEPTOSPIROSIS IN NORTHEAST, U.S.
PHOCIDS Kristen Patchett

MOLECULAR MARKERS, MAT AND MODELING: NEW EVIDENCE FOR
LEPTOSPIROSIS BEING ENDEMIC IN CALIFORNIA SEA LIONS, WITH
PERIODIC EPIZOOTICS DEFIES THE HOST-ADAPTED STRAIN
PARADIGM Frances M.D. Gulland

HEMATOLOGY AND SERUM CHEMISTRY IN STRANDED AND WILD
CAUGHT HARBOR SEALS IN CENTRAL CALIFORNIA: REFERENCE
RANGES, PROGNOSIS AND EXPLANATORY FACTORS Denise J. Greig

CLINICOPATHOLOGIC FINDINGS FROM ATLANTIC BOTTLENOSE
DOLPHINS (*TURSIOPS TRUNCATUS*) EXHIBITING CYTOLOGIC
EVIDENCE OF GASTRIC INFLAMMATION Juli D. Goldstein

RISK FACTORS FOR COLONIZATION OF ANTIBIOTIC RESISTANT *E.*
COLI IN ATLANTIC BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATUS*)
IN THE INDIAN RIVER LAGOON, FLORIDA Adam M. Schaefer

A 10 YEAR RETROSPECTIVE STUDY OF DISEASES IN CAPTIVE
SYNGNATHIDS Véronique LePage+

DEMISTIFYING THE MYSTERY OF CHRONIC LIVER DISEASE IN
BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATUS*) Stephanie Venn-Watson

ASSESSING THE HEALTH OF THE DOLPHIN POPULATION AT THE U.S.
NAVY MARINE MAMMAL PROGRAM: 1987-2007 Sam Ridgway

CASE REPORTS – SCIENTIFIC SESSIONS VIII & IX

Session Chair: Elizabeth C. Nolan

WHATSA MATTER MATA MATA? William Van Bonn

A CASE OF DEGENERATIVE JOINT DISEASE AND MYCOBACTERIOSIS
IN A KEMP’S RIDLEY SEA TURTLE (*LEPIDOCHELYS KEMPII*) Keiko Hirokawa

NOVEL USE OF SELAMECTIN TO ELIMINATE NASAL MITES
(*HALARACHNE MIROUNGAE*) IN SEA OTTERS (*ENHYDRA LUTRIS*) Steven R. Brown

LOW-DOSE OROMUCOSAL INTERFERON-A TREATMENT FOR
BOTTLENOSE DOLPHIN (*TURSIOPUS TRUNCATUS*) Hiroyoshi Saito

PULMONARY BRUCELLOSIS IN AN ATLANTIC BOTTLENOSE DOLPHIN
(*TURSIOP TRUNCATUS*) Stephen Cassle

DIAGNOSIS AND MANAGEMENT OF A PULMONARY ABSCESS IN A
BOTTLENOSED DOLPHIN (*TURSIOPS TRUNCATUS*) Jennifer Langan

MANAGEMENT OF POSTPARTUM INFECTION IN AN ATLANTIC
BOTTLENOSE DOLPHIN (*TURSIOPS TRUNCATUS*) Michael S. Renner

NOVEL METHODS TO PROVIDE NOURISHMENT TO AN ADULT MALE
CALIFORNIA SEA LION (*ZALOPHUS CALIFORNIANUS*) WITH
DYSPHAGIA Michael S. Renner

A MANATEE (*TRICHECHUS MANATUS LATIROSTRUS*) RECOVERS
SWALLOW REFLEX LOST FROM A WATERCRAFT HEAD INJURY: TO
CHEW OR NOT TO CHEW? Johanna C. Mejia+

SUSPECTED CHRONIC LYMPHOCYTIC LEUKEMIA (CLL) IN THREE
ATLANTIC BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATUS*) Charles A. Manire

MANAGEMENT OF ORAL CARCINOMA IN AN ADULT MALE STELLER
SEA LION (*EUMETOPIAS JUBATUS*) USING CHEMOTHERAPY AND
LASER SURGERY Martin Haulena

WEDNESDAY, 6 MAY 2009

SCIENTIFIC SESSION X: 08:00 – 09:40

SCIENTIFIC SESSION XI: 10:00 – 11:40

SCIENTIFIC SESSION XII: 13:00 – 14:40

SCIENTIFIC SESSION XIII: 15:00 – 16:40

IMAGING – SCIENTIFIC SESSION X

Session Chair: Cynthia R. Smith

- VON ECONOMO NEURONS IN THE BRAIN OF CETACEANS:
DISTRIBUTION AND QUANTIFICATION Camilla Butti+
- APPLICATION OF ADVANCED DIAGNOSTIC IMAGING MODALITIES IN
MARINE MAMMAL MEDICINE AND PATHOLOGY: THREE
INTERESTING CASES..... Sophie Dennison+
- NEUROANATOMY AND BRAIN STRUCTURE VOLUMES OF A LIVE
CALIFORNIA SEA LION (*ZALOPHUS CALIFORNIANUS*) FROM
MAGNETIC RESONANCE IMAGES: UTILITY IN DETERMINING EFFECTS
OF DOMOIC ACID Eric W. Montie
- ULTRASONOGRAPHY AS A TOOL IN DEFINING AND MANAGING THE
REPRODUCTIVE CYCLE OF *DASYATIS AMERICANA* AND *AETOBATUS*
NARINARI IN CAPTIVITY Robert H. George
- ULTRASONOGRAPHIC EVALUATION OF THYROID SIZE AND
MORPHOLOGY IN CAPTIVE BELUGA WHALES, *DELPHINAPTERUS*
LEUCAS AND PACIFIC WHITE-SIDED DOLPHINS, *LAGENORHYNCHUS*
OBLIQUIDENS Brian C.W. Kot+
- VARIATION OF THYROID VOLUME DURING THE NORMAL ESTRUS
CYCLE IN THE INDO-PACIFIC BOTTLENOSE DOLPHIN, *TURSIOPS*
ADUNCUS Brian C.W. Kot+
- ULTRASOUND DIAGNOSIS OF A FETAL OMPHALOCELE IN AN
ATLANTIC BOTTLENOSE DOLPHIN (*TURSIOPS TRUNCATUS*) Cynthia Smith
- ULTRASONIC IDENTIFICATION AND LAPAROSCOPIC APPROACH OF
AN ABDOMINAL MASS IN A PATAGONIAN SEA LION (*OTARIA*
FLAVESCENS)..... Geraldine Lacave

**INFECTIOUS & PARASITIC DISEASES – SCIENTIFIC SESSIONS XI &
XII**

Session Chair: Stéphane Lair

ATYPICAL CASE OF MYCOBACTERIUM PINNIPEDII IN A PATAGONIAN
SEA LION (*OTARIA FLAVESCENS*) AND TUBERCULOSIS CASES
HISTORY REVIEW IN CAPTIVE PINNIPEDS.....Geraldine Lacave

THE ABILITY OF *STREPTOCOCCUS INFANTARIUS* SUBSPECIES *COLI*
ISOLATES FROM SEA OTTERS WITH VALVULAR ENDOCARDITIS TO
ADHERE/INVADE HOST CELLSKatrina Counihan Edgar+

CHARACTERIZATION OF A RETROVIRUS OF BOTTLENOSE DOLPHINS
(*TURSIOPS TRUNCATUS*).....James F. X. Wellehan Jr.

MOLECULAR CHARACTERIZATION OF A NOVEL ENDOGENOUS
GAMMARETROVIRUS IN KILLER WHALES (*ORCINUS ORCA*) Sarah A. LaMere

NOVEL PRESENTATION OF SAN MIGUEL SEA LION VIRUS EPIZOOTIC
IN ADULT CAPTIVE CALIFORNIA SEA LIONS (*ZALOPHUS*
CALIFORNIANUS)Todd L. Schmitt

HOST-PARASITE INTERACTION, ULTRASTRUCTURE, AND
MOLECULAR TAXONOMY OF A PATHOGENIC *ICHTHYOBODO* SP.
(KINETOPLASTIDA: ICHTHYOBODONIDAE): INFECTION IN CAPTIVE
GIANT PACIFIC OCTOPI, *OCTOPUS (ENTEROCTOPUS) DOFLEINI* Sarah L. Poynton

SURVEY OF ORNAMENTAL REEF CLAMS, *TRIDACNA CROCEA*,
PURCHASED FROM INTERNET SITES FOR EXOTIC *PERKINSUS* SP.
INCLUDING *PERKINSUS OLSENI*Barbara J. Sheppard

SPIRORCHIID TREMATODE INFECTIONS IN STRANDED LOGGERHEAD
(*CARETTA CARETTA*) AND GREEN TURTLES (*CHELONIA MYDAS*) IN
FLORIDA: ASSOCIATED PATHOLOGICAL FINDINGS AND
SIGNIFICANCE Brian Stacy

GIARDIA AND *CRYPTOSPORIDIUM* IN NORTH AND SOUTH ATLANTIC
RIGHT WHALES (*EUBALAENA* SPP.) Rosalind M. Rolland

OPHTHALMOLOGY – SCIENTIFIC SESSION XIII

Session Chair: Carmen M.H. Colitz

APPEARANCE OF LUTEIN IN PLASMA OF MARINE MAMMALS IS
SOURCE AND SPECIES SPECIFIC E.A. Koutsos

USE OF REBOUND TONOMETRY AS A DIAGNOSTIC TOOL TO
DIAGNOSE GLAUCOMA IN THE CAPTIVE CALIFORNIA SEA LION .. Johanna C. Mejia+

BASELINE OPHTHALMIC PARAMETERS AND HIGH RESOLUTION
ULTRASONOGRAPHIC OPHTHALMIC ANATOMY OF THE ATLANTIC
BOTTLENOSE DOLPHIN (*TURSIOPS TRUNCATUS*) UTILIZING A
VOLUNTARY BEHAVIORAL APPROACH Gregg Levine

IDIOPATHIC CORNEAL EDEMA IN A MONK SEAL PUP HAND REARED
FROM BIRTH Gregg Levine

OVERVIEW OF KNOWN AND SUSPECTED CAUSES OF CAPTIVE
PINNIPED EYE PROBLEMS Laurie J. Gage

BY-PRODUCTS OF DISINFECTION OF WATER AND POTENTIAL
MECHANISMS OF OCULAR INJURY IN MARINE MAMMALS. WHAT
YOU CAN'T SEE MIGHT HURT THEM Ed Latson

CHARACTERIZATION OF CORNEAL LESIONS IN CAPTIVE
CALIFORNIA SEA LIONS Carmen M.H. Colitz

Annual Conference Meeting Sites and Presiding Presidents

1968-1969	Founding	Menlo Park, California, USA
1969-1970	Dr. Sam H. Ridgway	Kissimmee & Boca Raton, Florida, USA
1970-1971	Dr. Sam H. Ridgway	Guelph, Ontario, CANADA
1971-1972	Dr. J. R. Geraci	Honolulu, Hawaii, USA
1972-1973	Dr. Mark Keyes	Victoria, British Columbia, CANADA
1973-1974	Dr. Lanny Cornell	Orlando, Florida, USA
1974-1975	Dr. William Medway	Amsterdam, NETHERLANDS
1975-1976	Dr. Jesse White	Seattle, Washington, USA
1976-1977	Dr. J. D. Hyman	Boston, Massachusetts, USA
1977-1978	Dr. Jay C. Sweeney	San Diego, California, USA
1978-1979	Dr. John Gratzek	St. Augustine, Florida, USA
1979-1980	Dr. Richard K. Stroud	Vancouver, British Columbia, CANADA
1980-1981	Dr. T. A. Gornall	Mystic, Connecticut, USA
1981-1982	Dr. J. Lawrence Dunn	Baltimore, Maryland, USA
1982-1983	Dr. Tom Bell	Long Beach, California, USA
1983-1984	Dr. Murray Dailey	Tampa, Florida, USA
1984-1985	Dr. Paul Cardeilhac	Tacoma, Washington, USA
1985-1986	Dr. Neylan Vedros	Gulfport, Mississippi, USA
1986-1987	Dr. Leslie Dierauf	Monterey, California, USA
1987-1988	Dr. Tom Williams	Orlando, Florida, USA
1988-1989	Dr. Michael Stoskopf	San Antonio, Texas, USA
1989-1990	Dr. Pete Schroeder	Vancouver, British Columbia, CANADA
1990-1991	Dr. Ruth Francis-Floyd	St. Augustine, Florida, USA
1991-1992	Dr. Ray Sis Hong Kong	HONG KONG
1992-1993	Dr. Joseph W. Alexander	Chicago, Illinois, USA
1993-1994	Mr. Brad F. Andrews	Vallejo, California, USA
1994-1995	Dr. Brad Fenwick	Mystic, Connecticut, USA
1995-1996	Dr. Jim McBain	Chattanooga, Tennessee, USA
1996-1997	Dr. Donald A. Abt	Harderwijk, NETHERLANDS
1997-1998	Dr. Greg Lewbart	San Diego, California, USA
1998-1999	Dr. Michael Walsh	Boston, Massachusetts, USA
1999-2000	Dr. Kristen Arkush	New Orleans, Louisiana, USA
2000-2001	Dr. Suzanne Kennedy-Stoskopf	Tampa, Florida, USA
2001-2002	Dr. Frances M.D. Gulland	Albufeira, Algarve, PORTUGAL
2002-2003	Dr. Stephen A. Smith	Waikaloa, Hawaii, USA
2003-2004	Ms. Nina Young	Galveston, Texas, USA
2004-2005	Dr. Laurie Gage	Seward, Alaska, USA
2005-2006	Dr. Rhonda A. Patterson	Nassau, BAHAMAS
2006-2007	Dr. William Van Bonn	Lake Buena Vista, Florida, USA
2007-2008	Dr. Donald W. Stremme	Pomezia, ITALY
2008-2009	Dr. Thomas H. Reidarson	San Antonio, Texas, USA

IAAAM Founding Members (1968-1969)

L.H. Cornell	D.W. Kenney	J.G. Simpson
J.R. Geraci	M.C. Keyes	D.H. Spechler
T.S. Grafton	G.W. Klonitz	A.K. Takayama
T. Hammond	W. Medway	D.C. Taylor
R.C. Hubbard	E.J. Ogorosolka	A.C. Van Goethem
J.D. Hyman	N.E. Palumbo	J.R. White
R.F. Jackson	S.H. Ridgway	

Past Secretary-Treasurers (1969 - 2003)

1969 - 1973	Dr. William Medway
1973 - 1977	Dr. Robert Temple
1977 - 1981	Dr. Murray Dailey
1981 - 1982	Mr. James Antrim
1982 - 1985	Mr. Robert L. Jenkins
1985 - 1989	Dr. Mobashir Solangi
1989 - 1992	Dr. Beverly Dixon
1992 - 1996	Dr. Sarah L. Poynton
1996 - 1998	Dr. Larisa Ford
1998 - 2001	Dr. Donald A. Abt
2001 - 2003	Dr. Donald W. Stremme

Past Secretaries (since 2003)

2003 - present	Dr. Lisa Mazzaro
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Past Treasurers (since 2003)

2003 - 2006	Dr. Donald W. Stremme
2006 - present	Dr. Julius M. Tepper

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Don Abt	Joe Geraci	William Medway†
Deke Beusse†	Jack Gratzek	Sam Ridgway
Lanny Cornell	Ted Hammond	Jesse White†
Larry Dunn	Jay Hyman	Bob Wright

†deceased

IAAAM Awards For Excellence Recipients

- 1993 Dr. John B. Gratzek
Christensen Award for Excellence in Fish Health
- 1994 Dr. Joseph R. Geraci
Excellence in Aquatic Animal Medicine
- 1995 Dr. Jon Lien and the Whale Research Group
Mark Keyes Award for Marine Mammal Conservation
- 1996 National Biological Survey and National Fish Health Research Laboratory
Christensen Award for Excellence in Fish Health
- 1997 Dr Harry Ross
Excellence in Aquatic Animal Medicine
- 1998 Dr. Ken Norris
The Mark Keyes Award for Marine Mammal Conservation
- 1999 Dr. Don Abt
William Medway Award for Excellence in Teaching
- 2000 Dr. Deke Beusse
Excellence in Aquatic Animal Medicine
- 2001 Dr. Michael Stoskopf
Christensen Award for Excellence in Fish Health
- 2002 Dr. Jay Sweeney
Excellence in Aquatic Animal Medicine
- 2003 Dr. David St. Aubin
William Medway Award for Excellence in Teaching
- 2005 Dr. Jim McBain
Excellence in Aquatic Animal Medicine
- 2007 Dr. Dan Odell
Mark Keyes Award for Marine Mammal Conservation
- 2008 Ruth Francis Floyd
William Medway Award for Excellence in Teaching

Next IAAAM Meeting

8 – 12 May 2010, Vancouver, Canada