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Wound Healing Panel

Russel Andrews

Turtle Health & Medicine

Heather Harris

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Health Assessments

Rosalind Rolland

Climate Change Panel

Andy Stamper

Stranding I

Jenny Meegan

Stranding II

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Immunology & Toxicology I

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Partners

The Marine Mammal Center is a proud partner of the Golden Gate National Parks, and on our behalf, and that of the IAAAM, we express our great appreciation to the staff and volunteers of the Golden Gate National Parks for their tremendous and above-and-beyond support of this conference.



cavallopoint
the lodge at the golden gate

Workshop Hosts

Thank you to the individuals and organizations hosting four fantastic workshops.

Oil Spill Preparedness

Oiled Wildlife Care Network
Michael Ziccardi
Christine Fiorello

Diagnostic Imaging of Marine Mammals

Sophie Dennison
Marina Ivancic
Andy Fu (Vet Rocket)
Gail Orzechowshi (Canon)

Detection of Anthropogenic Trauma in Marine Mammals at Necropsy

Michael Moore
Martha Delaney

8th Annual C.L. Davis Marine Species Histopathology

Judy St. Leger

Icebreaker Reception

Thank you to:

Iron Horse Vineyards
in Northern California for providing a special, limited edition Ocean Reserve Sparkling Wine created in partnership with National Geographic. A portion of the proceeds from each bottle goes towards establishing marine protected areas and reducing overfishing around the world.

Poster Session

Wine and beer tasting generously provided by:

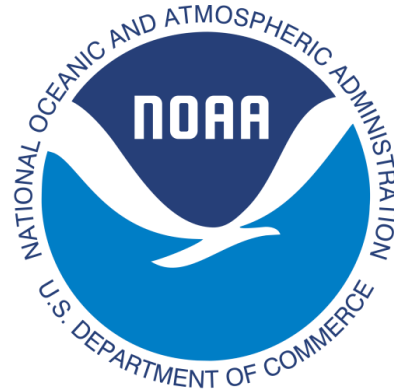
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All of which are based in Northern California.

Thank You To Our Sponsors

The planning team for the 44th Annual Conference of the IAAAM has been overwhelmed by the generosity of individuals, small businesses, zoos, aquariums, federal agencies, and corporations who have provided significant financial donations to make this conference a great success! With this terrific support, we have been able to encourage and attract greater international participation in this conference and, hopefully, encourage broader international collaboration while expanding the global IAAAM network. We thank these donors for their tremendous support and strongly encourage you to share your appreciation, as well.

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If you recognize an error or omission, please contact Marissa Kalashian at TMMC (kalashianm@tmmc.org) and we will reconcile the error in any subsequent electronic or printed listings of sponsors. We ask that you please accept our sincerest apologies.

PREFACE

On behalf of the 2013 planning committee, I'd like to welcome you to the 44th annual conference of the International Association for Aquatic Animal Medicine, hosted by The Marine Mammal Center, Sausalito, CA. The theme of this year's conference is "Aquatic Animal Health in a Changing World". Our world is indeed changing and with these changes impacts on aquatic animal health are on the rise. Shipping, overfishing, oil and gas exploration and drilling as well as harvesting of other natural resources, pollutants, changes in climate, prey and pathogen distribution impact and threaten the health of aquatic animals globally. Over the next few days we will focus on the threats and impacts to aquatic animal health with integration of individual health assessments and the status of aquatic animal populations worldwide. What is our role as a clinician and/or researcher in assessing and mitigating impacts that threaten aquatic animals? How does the research we do make a difference? What is our role in conservation? We hope you will all contemplate and discuss these topics and more; resulting in "making a difference" for the field of aquatic animal health and for the conservation of aquatic species worldwide.

We would like to pay special tribute to the founding members of IAAAM, our honorary life members and our past Presidents and all those that have served on the board and/or leadership of our organization. With participants from over 25 countries this year's conference has more international presence than ever. To help in stimulating discussion, panel presentations have been integrated throughout the program and experts of many disciplinary fields asked to contribute to the presentations and discussion. We welcome all those attending their first IAAAM conference and especially all the new and returning students of the IAAAM.

We hope you enjoy our conference venue, the lodge at Golden Gate located in the heart of Golden Gate National park. We are proud to hold our meeting in a venue that is LEED gold certified and prioritizes sustainability and green practices at the forefront. We hope you take advantage and enjoy all that is here and all that the local area has to offer.

As President-Elect I personally thank all those on the planning committee at the Marine Mammal Center who worked tirelessly to organize and host the conference. First and foremost this conference was the vision of Dr. Frances Gulland who began talking up the conference over a year in advance, resulting in the largest volume of abstracts submitted to date-202! None of the ideas and logistics would have become reality without the host team at The Marine Mammal Center: Jeff Boehm, Frances Gulland, Sophie Guarasci, Shawn Johnson, Shelbi Stoudt, Tenaya Norris, Michelle Barbieri, Scott Buhl, Marissa Kalashian, and Kate Harle. THANK YOU!

We acknowledge and are grateful for all the sponsors listed in the program book, the workshop organizers and our Board members (listed in the program) and Committee Chairs (Sam Dover, Site Selection Committee; Craig Harms, Judy St. Leger, Lisa Mazzaro, Nominations and Awards Committee; Kathleen Colgrove, Student Liaison Committee; and Lisa Murphy, Student Endowment Oversight Committee) and participants. A special thank you goes to the IAAAM Board for hiring Event Ready to host the registration site for the conference this year! Special recognition goes to John Jones who only until now did I realize how much work and dedication goes into all he does for our organization. Many thanks to Ilze Berzins for her guidance and assistance and to Pam Tuomi for trouble shooting all the financial and "difficult" issues that came up. Thank you to Allison Tuttle and Paul Anderson for assistance with the initial review of

abstracts and to Stephanie Oliveras for assistance with the abstracts. A special thank you goes to Ron Katz for all of his help with the proceedings for the conference. Thank you to all the session chairs who provided further review and editing on the abstracts in addition to contributing to the conference itself. A special thank you goes to Genny Dumonceaux for still being willing to chair the poster session after finding out we have 67 posters! Thank you to all who contributed to the scientific program and THANK YOU for participating in the conference and for being a part of IAAAM. I wish you a wonderful conference!

Tracy A. Romano
Program Chair & President Elect IAAAM

44th Annual IAAAM Conference Agenda

Registration/Information Desk, *Foyer behind Hotel Registration*
Breakfast & Lunch, *Surfbird and Tidewater*
VIN, *601 Patio*

Exhibitors, *Callippe, Silverspot, Surfbird, Tidewater and Verbena Foyers*



Sunday, April 21, 2013

07:00-18:00 Registration/Information

07:00-08:30 Breakfast

09:00-16:00 IAAAM Board Meeting (Lunch), *La Mariposa*

09:00-16:00 C.L. Davis Histopathology Workshop (Lunch), *Verbena*

09:00-14:00 Diagnostic Imaging of Marine Mammals (2 sessions), *The Marine Mammal Center (TMMC)*

09:00-13:00 Detection of Anthropogenic Trauma in Marine Mammals at Necropsy, *TMMC*

09:00-16:00 Oil Spill Preparedness, *TMCC*

18:00-22:00 Icebreaker, *Surfbird and Tidewater*

Monday, April 22, 2013

07:00-18:00 Registration/Information

07:00-08:30 Breakfast

08:30-09:00 Opening Remarks, *Callippe*

09:00-10:00 Plenary Session, *Callippe*

10:00-10:30 Break

10:30-12:00 Regional Overviews, *Callippe*

12:00-13:00 Lunch

13:30-14:45 Insights from Unusual Mortality Events, *Callippe*

14:45-15:15 Break

15:15-16:30 Scientific Session I: Anthropogenic Impacts, *Callippe*

16:30-17:15 Business Meeting, *Callippe*

17:45-22:00 Buses to and from Sausalito – Dinner on Own

18:00-19:30 Student Meet and Greet, *Wellington's Wine Bar, Sausalito*

19:30-21:00 Conundrums Session, *Wellington's Wine Bar, Sausalito*

Tuesday, April 23, 2013

07:00-13:00 Registration/Information

07:00-08:30 Breakfast

08:00-10:00 Scientific Concurrent Sessions:

II. Research, *Callippe*

III. Case Reports, *Verbena*

10:00-10:30 Break, *Callippe*

10:30-12:00 Scientific Concurrent Sessions:

IV. Wound Healing Panel, *Callippe*

V. Turtle Health & Medicine, *Verbena*

12:00-13:00 Lunch

13:00-17:00 Southern Right Whale Die-Off Review, *La Mariposa*

13:30-16:30 Buses from Cavallo to The Marine Mammal Center – Fun run, Tours TMMC and Sustainable Seafood Cooking Class, *Cavallo Lodge*

18:00-22:00 Poster Sessions and Wine Tasting, *Mission Blue and Verbena*
19:00-21:00 Founding and Honorary Life Members, Past Presidents' Dinner, *La Mariposa*
19:00-21:00 Dinner, *Surfbird and Tidewater*

Wednesday, April 24, 2013

07:00-17:00 Registration/Information
07:00-07:30 Polar Bear Swim
07:00-08:30 Breakfast
08:00-08:30 "Harbor Porpoises of the Golden Gate" by William Keener, *Callippe*
08:30-10:00 Scientific Session VI: Health Assessments, *Callippe*
10:00-10:30 Break
10:30-12:00 Climate Change Panel, *Callippe*
12:00-13:00 Lunch
12:00-13:30 Board Lunch Meeting, *La Mariposa*
13:30-14:45 Scientific Concurrent Sessions:
 VII. Stranding I, *Callippe*
 VIII. Immunology & Toxicology I, *Verbena*
14:45-15:00 Break, *Callippe*
15:00-16:15 Concurrent Sessions:
 IX. Stranding II, *Callippe*
 X. Immunology & Toxicology II, *Verbena*
16:15-17:15 Concurrent Sessions:
 XI. Medicine & Surgery, *Callippe*
 XII. Management & Education, *Verbena*
17:15-20:00 Bay Cruise from Cavallo, Dinner & Student Auction

Thursday, April 25, 2013

07:00-17:00 Registration/Information
07:00-08:30 Breakfast
08:30-10:00 Concurrent Sessions:
 XIII. Research Techniques, *Callippe*
 XIV. Clinical Techniques, *Verbena*
10:00-10:30 Break, *Callippe*
10:30-12:00 Concurrent Sessions:
 XV. Emerging Pathogens, *Callippe*
 XVI. Anesthesia, *Verbena*
12:00-13:00 Lunch
13:00-14:30 Concurrent Sessions:
 XVII. Infectious Disease I, *Callippe*
 XVIII. Parasitology & Pathology, *Verbena*
14:30-15:00 Break, *Callippe*
15:00-16:30 Concurrent Sessions:
 XIX. Infectious Disease II, *Callippe*
 XX. Avian Health & Medicine, *Verbena*
18:00-20:30 Dinner, *Surfbird and Tidewater*
20:30-23:00 Dessert, Awards, Dancing, *Mission Blue*

2013 IAAAM SCIENTIFIC PROGRAM

(Student presenters are marked with a +)

Monday, April 22, 2013, Callippe

Plenary Session	09:00 – 10:00
Regional Overviews	10:30 – 12:00
Insights from Unusual Mortality Events	13:30 – 14:45
Scientific Session I:	15:15 – 16:30
Anthropogenic Impacts	

Plenary Session, Callippe

Session Chair: Tracy Romano

Aquatic Animal Health in a Changing World: What is a Health Professional To Do?
..... John E. Reynolds, III

Increasing Ocean Noise John A. Hildebrand

Regional Overviews, Callippe

Session Chair: Nina Young

“Aquatic Animal Health in a Changing World”, Issues Relevant to (Parts of) Asia
..... Paolo R. Martelli

Overview of Recent Marine Mammal Health Studies in Southern Africa Stephanie Plön

Where Have All The Killer Whales (*Orcinus orca*) Gone? Paul D. Jepson

Animal Health Concerns in a Changing Arctic: Marine Vertebrates Focus Todd M. O’Hara

Threats to Aquatic Animal Health in South America Marcela M. Uhart

Global Trends in Marine Mammal Health: Oceania Region Pádraig J. Duignan

Insights from Unusual Mortality Events, Callippe

Session Chair: Teri Rowles

Update on the Northern Gulf of Mexico Cetacean Unusual Mortality Event,
2010-2013: Bottlenose Dolphins (*Tursiops truncatus*) Stephanie Venn-Watson

The Alaska Northern Pinniped Unusual Mortality Event: 2011-2012 Raphaela Stimmelmayer

2011 Northeast Region Pinniped Unusual Mortality Event Investigation Update
..... Denise McAloose

Investigating Disease Outbreaks in Coral Reef Ecosystems: Challenges and Opportunities Thierry M. Work

Remote Response Logistics: Marine Mammal Stranding Response, Antsohihy Madagascar, 2008 Kathleen M. Moore

Logistics and Lessons Learned from Performing Global Wildlife Surveillance and Outbreak Response Jonna A.K. Mazet

Scientific Session I: Anthropogenic Impacts, Callippe
Session Chair: David Jessup

Changing Patterns of Worldwide Mass Strandings of Beaked Whales and their Probable Causes Robert L. Brownell, Jr.

Investigations on the Impact of Underwater Noise on Harbor Porpoises in German Waters Ursula Siebert

Sixty Tons in Six Years: Reducing Threats to California Marine Wildlife Through Lost Fishing Gear Recovery..... Kirsten V.K. Gilardi

Survival and Movements of Magellanic Penguins (*Spheniscus magellanicus*) Rehabilitated from Oil Fouling Along the Coast of South Africa from 2000 – 2010: An Update Valeria Ruoppolo

Southern Sea Otters (*Enhydra lutris nereis*) Are Stuck in Recovery: And What Can Be Done About It?..... David A. Jessup

Tuesday, April 23, 2013

Scientific Concurrent Sessions: 08:00 – 10:00

II. Research

III. Case Reports

Scientific Concurrent Sessions: 10:30 – 12:00

IV. Wound Healing Panel

V. Turtle Health & Medicine

Poster Session 18:00 – 22:00

Scientific Session II: Research, Callippe

Session Chair: Niels van Elk

Pharmacokinetics of Single Dose Oral Meloxicam in Bottlenose Dolphins
(*Tursiops truncatus*) Claire A. Simeone+

Genotype Effects on Blood Parameters of Stranded California Sea Lions
(*Zalophus californianus*): Evidence for Heterosis? Anai Del Llano-Gilio+

Hormonal Assessments in Blue Whales (*Balaenoptera musculus*) from the
Gulf of California Marcia Valenzuela+

Pharmacokinetic Study of Orally Administered Tramadol in California Sea
Lions (*Zalophus californianus*) Jennifer L. Boonstra

Comparison of the Red Blood Cell Fatty Acid Profile in Bottlenose Dolphins
(*Tursiops truncatus*) and Humans William S. Harris

Examining Corneal Vascularization Ability in Pinnipeds in Response to
Ocular Injury Barbara K. Linnehan+

Effects of Disease Treatments on Captive Coral Health Ilze K. Berzins

Scientific Session III: Case Reports, Verbena

Session Chair: Allison Tuttle

Disco-spondylitis in an Indopacific Bottlenose Dolphin (*Tursiops aduncus*) Ana Salbany

The Use of Subconjunctival Cyclosporine Implants in a California Sea Lion
(*Zalophus californianus*) Prior to Cataract Surgery Lydia A. Staggs

Partial Mastectomy on a California Sea Lion (*Zalophus californianus*) Diagnosed
with Complex Mammary Adenocarcinoma Rebecca L. Wells

Two Suspected Cases of Tuberculosis in Captive Patagonian Sea Lions
(*Otaria flavescens*) in Italy Barbara Biancani

Diagnosis and Treatment of Severe *Staphylococcus aureus* Pneumonia with Pulmonary Abscessation in an Atlantic Bottlenose Dolphin (*Tursiops truncatus*) Lara S. Cotte

Oxytocin-induced Ovoposition in an Anorexic and Injured Chicken Turtle (*Deirochelys reticularia*) Carolyn M. Collier+

Case Series of Treatment of Subcutaneous Nocardiosis in a Beluga (*Delphinapterus leucas*) with Trimethoprim Sulfadiazine (1:2) Formulation and Observed Side Effects ... Todd L. Schmitt

Out of Body Experiences: A Case Series of Reptile and Amphibian Cloacal Prolapses in a Student Wildlife Rescue Organization Anna L. Wepprich+

Aphakic Phacoemulsification and Automated Anterior Vitrectomy for the Treatment of Juvenile Cataracts in a Wild Harbor Seal (*Phoca vitulina*) Douglas W. Esson

Nocardia paucivorans in a Juvenile Beluga Whale (*Delphinapterus leucas*) Erica A. Gehring

Successful Surrogating of a Newborn Bottlenose Dolphin Calf (*Tursiops truncatus*) Thomas H. Reidarson

Scientific Session IV: Wound Healing Panel, Callippe

Session Chair: Russel Andrews

Cetacean Epidermis: More than Skin Deep Joseph R. Geraci

Management of High Energy, Lower Extremity War Wounds in Humans: Lessons Learned from Afghanistan Eric Venn-Watson

The Limpet Tag and its Use on Small to Medium-sized Cetaceans Russel D. Andrews

Assessing Effects of Implantable Satellite Tags in Large Whales: A Case Study with Humpback Whales Alexandre N. Zerbini

Experimental Tests of Small Electronic Tags for Dolphins Randall S. Wells

Additional Panel Participants:

Michael Moore and Eric Jensen

Scientific Session V: Turtle Health & Medicine, Verbena

Session Chair: Heather Harris

Domoic Acid in the Leatherback Turtle Food Web on Critical Foraging Grounds in Central California Heather S. Harris

Medical Management and Post-Release Monitoring of a Stranded Leatherback Turtle (*Dermochelys coriacea*) Julie M. Cavin

Repair of an Open Comminuted Calvarial Compression Fracture in a Juvenile
Green Sea Turtle (*Chelonia mydas*) Maria E. Serrano

The Use of Triazinones for the Treatment of Coccidia Morphologically Resembling
Caryospora cheloniae in Green Sea Turtles (*Chelonia mydas*) Craig A. Pelton

A Retrospective Clinicopathologic Study of Fibropapillomatosis in Rehabilitating
Sea Turtles Annie Page-Karjian+

Diagnosis and Treatment of *Enterococcus* sp. Infections during Rehabilitation
of Cold-stunned Kemp's Ridley Turtles (*Lepidochelys kempii*): 50 Cases,
2006-2011 Hillary Braverman+

Systemic Gas Embolism in Dead and Live Loggerhead Sea Turtles (*Caretta caretta*)
Due to Bycatch Daniel García-Párraga

Poster Session

Session Chair: Genevieve Dumonceaux

M = Mission Blue, V = Verbena

Research

M-1: Alfaxalone Anesthesia in Bullfrogs (*Rana catesbeiana*) by Injection or Immersion
..... Lysa P. Posner

M-2: Metagenomics to Discover Unknown Neurotropic Viruses in a Harbor Porpoise
(*Phocoena phocoena*) Stranded Along the Oregon Coast Stephanie M. Rosales

M-3: Development of Culture-Based Fisheries Enhancements in Bangladesh and Social and
Economic Impacts Baidya Haragobinda

M-4: UV Radiation – A Source of Cellular and Genetic Stress in Large Whales: What
We Know and Where to Go Next Blanca Morales-Guerrero

M-5: Preliminary Investigation into Antibiotic Resistance Patterns of Bacteria from Nasal
and Rectal Cultures from Florida Manatees (*Trichechus manatus*) Kyle A. Donnelly+

M-6: Research Trends in Aquatic Mammal Health and Disease Mónica Izquierdo Suzán+

M-7: Developing an Ethogram to Assess the Social Behaviors of Recovering Captive
California Sea Lions (*Zalophus californianus*) Hadley L. Pearce

Health Assessment

- M-8: Body Condition of the Península Valdés Right Whale Calves: A Preliminary Study
..... Carina F. Marón
- M-9: What's in a Number? Reference Ranges for Critical Measurements of Stress in Bottlenose Dolphins (*Tursiops truncatus*) from the Southeastern United States Leslie B. Hart
- M-10: Health and Nutritional Assessment of Southern Stingrays in Grand Cayman, Cayman Islands Lisa A. Hoopes
- M-11: Age- and Sex-Related Comparisons of Hearing Impairment in Bottlenose Dolphins (*Tursiops truncatus*) Kevin P. Carlin
- M-12: Immune Parameters and Function in Beluga (*Delphinapterus leucas*) Sampled from Bristol Bay, Alaska Mandy J. Keogh
- M-13: Blubber Cortisol Levels in a Baleen Whale (*Megaptera novaeangliae*) and a Phocid Seal (*Phoca vitulina*) Ailsa Hall

Immunology

- M-14: Immunoglobulin G in West Indian Manatee Calves Jennifer L. McGee+
- M-15: Carbohydrate Profiles in Ocular Secretions from Cetaceans and Pinnipeds
..... Robin Kelleher Davis
- M-16: Selection of Reference Genes for Quantitative RT-PCR Studies in Beluga Whale (*Delphinapterus leucas*) Blood I-Hua Chen+
- M-17: Does MHC Polymorphism Explain Phytohaemagglutinin-Induced Skin Inflammation in the California Sea Lion? Jorge Montano-Frias+

Infectious Disease

- M-18: Morbillivirus Prevalence among Marine and Terrestrial Carnivores from the Peninsula of Baja California, Mexico Liliana Suárez-Ramírez
- M-19: Epidemiology and Potential Risk of *Brucella* spp. in Pups of Galapagos Sea Lions, (*Zalophus wollebaeki*) Yara Suhan Juárez Campusano
- M-20: Quantifying Differences in Species Susceptibility to Phocine Distemper Virus in Northeast U.S. Seals Andrea L. Bogomolni+
- M-21: Presence of *Brucella* spp. in Sea Lions (*Zalophus californianus*) in the Gulf of California, México Avalos Téllez Rosalía

Medicine & Surgery

M-22: Hemochromatosis in a Pacific White-Sided Dolphin (*Lagenorhynchus obliquidens*)
..... Alice M. Bugman+

M-23: A Case-Control Study to Identify Risk Factors For Ammonium Urate Nephrolithiasis
in Bottlenose Dolphins (*Tursiops truncatus*) Cynthia R. Smith

M-24: Catheter Fixation and Isolation in Bottlenose Dolphins (*Tursiops truncatus*) Eric Jensen

M-25: Emergency and Critical Care Management of a River Cooter (*Pseudemys concinna*)
By the Turtle Rescue Team Joanne M. Fernandez-Lopez

M-26: Diagnostic Performance of Plasma Uric Acid, Magnesium and Other Biochemical
Parameters in the Diagnosis of Renal Insufficiency in Sea Turtles Charlotte E. Jones

M-27: Pre-Anal Gland Abscess in a Male Atlantic Bottlenose Dolphin (*Tursiops truncatus*)
..... John Traversi

M-28: Pharmacokinetics of Cefovecin (Convenia®) In White Bamboo Sharks (*Chiloscyllium
plagiosum*) and Atlantic Horseshoe Crabs (*Limulus polyphemus*) James Steeil+

Toxicology

M-29: Mercury Speciation in Nearshore Seawater at Año Nuevo State Reserve: An Assessment
of Mercury Concentrations Due to Northern Elephant Seal Site Colonization
..... Jennifer M. Cossaboon

M-30: Toxicity of Chemical Dispersants, Oil and Chemically Dispersed Oil in Sperm Whale
Skin Cells (*Physeter macrocephalus*) Catherine F. Wise+

M-31: Is Biotxin Exposure from Harmful Algae a Reason for the Decline in Harbor
Seal (*Phoca vitulina*) Populations in Scotland? Silje-Kristin Jensen+

M-32: Suspected Oleander Toxicity in a Southern Stingray Species (*Dasyatis americana*)
..... Danielle O'Neil

M-33: Is Genotoxic Metal Exposure Part of the Toxic Legacy of the Deepwater Horizon
Oil Crisis? John Pierce Wise, Jr.+

M-34: Dioxin Levels in Stranded Marine Mammals of Central Puget Sound, Washington
..... Stephanie A. Norman

Stranding

- M-35: Behavioral Diagnostics in Domoic Acid Toxicosis Involving *Zalophus californianus*: A Possible Innovative Approach Christiana S. Wittmaack+
- M-36: Partial Glossectomy and Rehabilitation of an Endangered Hawaiian Monk Seal (*Monachus shaunslandi*) with Severe Lingual Trauma Michelle M. Barbieri
- M-37: Cetacean Fibrinogen Levels: Comparing In-House and Reference Laboratory Results in Stranded Short-Finned Pilot Whales (*Globicephala macrorhynchus*) Emily R. Langille+
- M-38: Dolphin Morbillivirus in a Captive Harbor Seal (*Phoca vitulina*) Sandro Mazzariol
- M-39: Marine Wildlife Health Surveillance in the Galapagos Islands: Steps Towards a Rapid Response Network Carolina García Parra
- M-40: Stranding Evaluation of Southern Resident Killer Whale L-112, by the Northwest Marine Mammal Stranding Network Joseph K. Gaydos

Anthropogenic Impacts

- V-41: Behavior of Bottlenose Dolphins (*Tursiops truncatus*) Relative to Boat Traffic in the Galveston Ship Channel, Texas Anna M. Pennacchi+
- V-42: Mercury Bioaccumulation and Tissue Correlations in Deep-Diving Northern Elephant Seals (*Mirounga angustirostris*) Sarah Peterson+
- V-43: The Results of a Questionnaire Survey on the Ladoga Ringed Seal (*Pusa hispida ladogensis*) and Fisheries Conflict in 2007 and 2011 Vyacheslav A. Alekseev
- V-44: *Staphylococcus aureus* in Marine Mammals: Introduced or Host Species-Specific? Cornelis E. van Elk
- V-45: The First Experience of Rehabilitating Ladoga Ringed Seal (*Phoca hispida ladogensis*) Pups Vyacheslav A. Alekseev

Techniques

- V-46: Long Term Observation on Successful Reproduction and Rearing Calves in Walrus (*Odobenus rosmarus*) Etsuko Katsumata
- V-47: Thyroid and Steroid Hormone Levels in California Sea Lions (*Zalophus californianus*) – Chemical Analysis by LC-ID-MS/MS Methodology Martin Hansen
- V-48: Development of a Quantitative PCR Assay for Measurement of Trichechid Herpes Virus 1 (TrHV1) Load in the Florida Manatee (*Trichechus manatus latirostris*) Jason A. Ferrante+

V-49: Laparoscopic Gastropexy for Repair of a Hiatal Hernia in a Northern Elephant Seal (*Mirounga angustirostris*) Rebecca K. Greene

V-50: Fish Health Management Using Husbandry Training Takaomi Ito

V-51: Using Pulmonary Mechanics to Assess Lung Function in Cetaceans: Case Study of *Cryptococcus gatti* Marina A. Piscitelli+

V-52: Minimally Invasive Molecular Gender Determination in Belugas (*Delphinapterus leucas*) from a Single-Exhale Blow Sample..... Justin T. Richard+

V-53: The Efficacy of Alfaxalone as an Intramuscular Injectable Anesthetic in Koi Carp (*Cyprinus carpio*) Lysa P. Posner

Pathology

V-54: Disseminated Lymphoma and Lymphocytic Leukemia in a Steller's Eider (*Polysticta stelleri*) Pam Tuomi

V-55: An Investigation of *Helicobacter cetorum* and its Role in the Development of Gastritis in Atlantic Bottlenose Dolphins (*Tursiops truncatus*) in the Southeastern U.S.
..... Christie M. Gonzalez-Bergner+

V-56: Thyroid Carcinoma in a Yellowbar Angelfish (*Pomacanthus maculosus*)
..... Claire A. Simeone+

V-57: Supratentorial Primitive Neuroectodermal Tumor (PNET) in a Striped Dolphin (*Stenella coeruleoalba*) Mark P. Dagleish

V-58: Investigating a Genetic Basis of Urogenital Cancer in California Sea Lions (*Zalophus californianus*) Helen M. Browning+

V-59: Investigation of Hind Limb Paralysis in a California Sea Lion (*Zalophus californianus*)
..... Michelle Rivard+

V-60: Serum Progesterone Concentration in Female South American Fur Seals (*Arctocephalus australis*) During the Breeding Season Helena Katz

V-61: Uterine Adenocarcinoma with Secondary Carcinomatosis in a 46 Year Old Beluga
..... Martin Haylen

V-62: Gestational Choriocarcinoma in a California Sea Lion (*Zalophus californianus*)
..... Vanessa A. Fravel

Parasitology

V-63: Structural Morphology, Genes and Virulence Factors of *Uncinaria* spp. Isolated from Galapagos Sea Lions (*Zalophus wollebaecki*) Alejandra Herbert-Mainero+

V-64: Association between Positive Canine Heartworm (*Dirofilaria immitis*) Testing in California Sea Lions (*Zalophus californianus*) and Nematode (*Acanthocheilonema odendhali*) Infection David D.R. Krucik+

V-65: *Pelodera strongyloides* Infection in Harbor Seals (*Phoca vitulina*) from Central California: Another Example of Land-Sea Connections for Marine Mammal Disease? Elizabeth A. McHuron+

V-66: Branchitis and Gill Nematodiasis in Whitetip Reef Sharks (*Triaenodon obesus*) Catherine A. Hadfield

V-67: *Toxoplasma gondii* Infected Tissues from Hunter Harvested Beluga (*Delphinapterus leucas*) in the Western Canadian Arctic Katherine H. Haman+

Wednesday, April 24, 2013

“Harbor Porpoises of the Golden Gate” by William Keener, <i>Callippe</i>	08:00 – 8:30
Scientific Session VI: Health Assessments	08:30 – 10:00
Climate Change Panel	10:30 – 12:00
Scientific Concurrent Sessions: VII: Stranding I	13:30 – 14:45
VIII: Immunology & Toxicology I	
Scientific Concurrent Sessions: IX: Stranding II	15:00 – 16:15
X: Immunology & Toxicology II	
Scientific Concurrent Sessions: XI: Medicine & Surgery	16:15 – 17:15
XII: Management & Education	

Harbor Porpoises of the Golden Gate

..... William Keener

Scientific Session VI: Health Assessments, *Callippe*
Session Chair: Rosalind Rolland

Recent Developments in Assessment of Health and Disease in Freshwater Mussels

..... Ieva Roznere

After Capture and Handling, Behavioral Assessment of Bull (*Carcharhinus leucas*) and Bonnethead (*Sphyrna tiburo*) Sharks at Release is a Poor Indicator of Physiological Stress

Michael W. Hyatt

Enhancing Methods for Early Detection of Health Concerns and Improved Population Monitoring in Florida Manatees (*Trichechus manatus latirostris*) via Live Capture Health Assessments

Martine de Wit

Comparison of Pulmonary Ultrasound Findings in Two Populations of Wild Bottlenose Dolphins (*Tursiops truncatus*)

Cynthia R. Smith

Linking Individual Whale Health with Population Biology and Conservation

..... Rosalind M. Rolland

Individual Health Assessment of Live Interventions and Post Mortem Cetacean Specimens: Diagnostics, Investigations and Field Support Pros and Cons

Michael T. Walsh

MRI, CT Imaging and Morbillivirus Culture, Sequencing and Electronmicroscopy in a Bottlenose Dolphin (*Tursiops truncatus*) with CNS and Pulmonary *Aspergillus fumigatus*

Stephen E. Cassle+

Climate Change Panel, Callippe
Session Chair: Andrew Stamper

Sick Corals Need Good Medicine Thierry M. Work

The “New” Arctic and Marine Mammal Health: The North Slope Perspective
..... Raphaela Stimmelmayer

Vibrio parahaemolyticus, an Indicator of Climate Change in Alaskan Marine Mammals
..... Caroline E.C. Goertz

Feeling the Burn: How Global Climate Change Impacts Marine Wildlife.....M. Andrew Stamper

Additional Panel Participant:
Todd O’Hara

Scientific Session VII: Stranding I, Callippe
Session Chair: Jenny Meegan

Coccidioidomycosis and Other Systemic Fungal Mycoses of Marine Mammals
from Central California: 1998-2012 Sara Huckabone+

Thromboembolic Disease as a Component of Health Issues in the Florida Manatee
(*Trichechus manatus latirostris*) Ray L. Ball

Does Heterozygosity Determine Duration and Success of Clinical Rehabilitation of
Stranded California Sea Lions (*Zalophus californianus*)? Adriana E. Flores-Morán+

Hematological, Biochemical and Morphological Parameters as Prognostic Indicators in Stranded
Common Dolphins (*Delphinus delphis*) from Cape Cod, MA, USA Sarah M. Sharp+

Thermoregulation in Rehabilitating Pacific Harbor Seal (*Phoca vitulina richardii*) Pups: How
Core Body Temperature and Surface Temperature are Associated with Size Metrics
and the Management Practice of Bathing Karisa N. Tang+

Scientific Session VIII: Immunology & Toxicology I, Verbena
Session Chair: Milton Levin

Assessing the Inflammatory Response of California Sea Lions (*Zalophus californianus*) Through
Early Development: An Ecoimmunological Approach Camila A. Vera-Massieu+

East Greenland Polar Bear and Ringed Seal Immune Functions: Effects upon *in vivo*
and *in vitro* Toxicant Exposure Erika Gebhard+

Validation of a Commercial Cytokine Assay to Help Measure the Health of
Stranded Pinnipeds Milton Levin

Results of a 20-Year Erysipelas Vaccination Program in a Dolphin (*Tursiops truncatus*)
Population Through Analysis of the Antibody Response in a Dolphin Specific ELISA
..... Geraldine Lacave

Serologic Evaluation of a 10-Year Erysipelas Vaccination Program for Cetaceans
..... Hendrik H. Nollens

Scientific Session IX: Stranding II, Callippe
Session Chair: Natalie Noll

Severe Progressive Meningoencephalitis Due to *Cryptococcus* sp. in a Live-Stranded
Harbor Porpoise (*Phocoena phocoena*) Undergoing Rehabilitation Martin Haulena

Collaborative Development of Recommendations for Euthanasia of Stranded Cetaceans
..... Craig A. Harms

Increase in the Occurrence of Dystocia, Post-Partum Complications and Peri-Natal Calf
Mortalities in St. Lawrence Beluga Whales (*Delphinapterus leucas*) Stéphane Lair

Spinal Segmental Isolation and Rotation Physiotherapy Techniques in an Adult Stranded
Atlantic Bottle Dolphin with Severe Scoliosis (*Tursiops truncatus*) Natalie E. Noll

A Review of the Stranding Survey in Japan Yuko Tajima

Scientific Session X: Immunology & Toxicology II, Verbena
Session Chair: Jennifer McGee

Persistent Organic Pollutants in the Endangered Hawaiian Monk Seal (*Monachus*
schauinslandi) from the Main Hawaiian Islands Jessica U. Lopez

Marine Biotoxin Exposure in an Endangered Fish: A Shortnose Sturgeon Mortality
Event Coincident with a New England Red Tide Spencer E. Fire

Selenium and Mercury in Harbor Seals from Central California: Implications for Harbor Seal
Health in an Urbanized Estuary Elizabeth A. McHuron+

Detection of Microcystin Associated with a 2012 Mass Mortality Event at the Paul S.
Sarbanes Ecosystem Restoration Project at Poplar Island, Maryland Lisa A. Murphy

Increasing Evidence for a Novel Marine Harmful Algal Bloom and Putative Anthropogenic
Pollutant: Update on Cyanotoxin (Microcystin) Transfer from Land to Sea Otters
..... Melissa A. Miller

Scientific Session XI: Medicine & Surgery, Callippe
Session Chair: Todd Schmitt

Ovariectomy of Sub-Adult Southern Rays (*Dasyatis americana*) to Prevent Future Reproductive Problems Robert H. George

Osteoarthritis in the Hind Flipper of Young Harbor Seals (*Phoca vitulina*): Surgical Treatment in a Series of Four Cases Ana Rubio García

The Progestin Megestrol Acetate Suppresses the HPA Axis in the Bottlenose Dolphin, (*Tursiops truncatus*) Cory Champagne

Medical and Surgical Management of Cloacal Prolapses in Cownose Rays (*Rhinoptera bonasus*) Undergoing Treatment for *Eimeria southwelli* Infection Alexa McDermott+

Scientific Session XII: Management & Education, Verbena
Session Chair: Elsa Haubold

“If Only I Could Breathe Water”: Bioethical Challenges for a Veterinarian of Aquatic Animals Claudia Gili

Aquatic Animal Health Education in a Changing World Heather T.D. Maness

Overview of Water Quality Regulations for USDA and NMFS Regulated Facilities Laurie J. Gage

Online Teaching Tools for Marine Animal Science: Using Web Based Technology to Improve Care, Research, and Human Safety Robin C. Dunkin

Thursday, April 25, 2013

Scientific Concurrent Sessions:	08:30 – 10:00
XIII: Research Techniques	
XIV: Clinical Techniques	
Scientific Concurrent Sessions:	10:30 – 12:00
XV: Emerging Pathogens	
XVI: Anesthesia	
Scientific Concurrent Sessions:	13:00 – 14:30
XVII: Infectious Disease I	
XVIII: Parasitology & Pathology	
Scientific Concurrent Sessions:	15:00 – 16:30
XIX: Infectious Disease II	
XX: Avian Health & Medicine	

Scientific Session XIII: Research Techniques, Callippe

Session Chair: Annalaura Mancía

Dolphin Auditory Pathways Illuminated with Positron Emission Tomography
Following Acoustic Stimulation to the Lower Jaw Sam Ridgway

Transcriptomes: A Signature for Common Bottlenose Dolphin Exposure and
Health Annalaura Mancía

Decompression Bubbles in Bycaught Seals and Dolphins: Gas Chromatographic
Discrimination from Decomposition Yara Bernaldo De Quirós+

Investigations of Acute and Chronic Stress in Aquarium-Housed White Spotted
Bamboo Sharks (*Chiloscyllium pliosum*) Using Blood Gas and Plasma Chemistry
Values Allyson L. McNaughton+

Non-Invasive Techniques for Measuring Stress in Belugas (*Delphinapterus leucas*)
..... Laura A. Thompson+

Scientific Session XIV: Clinical Techniques, Verbena

Session Chair: Cynthia Smith

Use of the Powertome® Periosteal Tome in Exodontia in a Southern Sea Lion..... Steven E. Holmstrom

Update and Review of Vascular Access in Select Pinnipeds Michael Renner

Normal Computed Tomography of the Thorax of the Live Bottlenose Dolphin
(*Tursiops truncatus*) Marina Ivančić

Artificial Insemination in the Pacific Walrus (*Odobenus rosmarus divergens*)... Holley S. Muraco

Looking Through the Portal: Laparoscopy in Small Cetaceans James G. Coisman

Nebulizer Therapy in Captive Pacific Bottlenose Dolphin (*Tursiops truncatus gilli*) Utilizing Two Novel Equipment Designs Chien Kuo-Chieh

Scientific Session XV: Emerging Pathogens, Callippe

Session Chair: Stephanie Norman

Cellular Abnormalities and Prevalence of OTHV-1 and Beta-Hemolytic Streptococci in Genital Tissue Collected from California Sea Lions in the Gulf of California..... Cecilia Barragán-Vargas

Are We Collecting Cerebro-Spinal Fluid for *Brucella* spp. Diagnosis in Stranded Cetaceans and Other Species? Gabriela Hernández-Mora

Novel *Sarcocystis* spp. Associated with Mortality in Pinnipeds of the North Atlantic and Pacific Oceans Katherine H. Haman+

Assessing the Pandemic Potential of Ocean-Borne Pathogens Rebecca Rivera

A Novel Genotype is Associated with Increased Disease Severity in *Sarcocystis neurona*-Infected Marine Mammals along the Northwestern United States and British Columbia Coasts Lorraine Barbosa+

Investigation of a Pinniped Skin Disease Outbreak in the Arctic and Bering Sea Regions Tristan L. Burgess+

Scientific Session XVI: Anesthesia, Verbena

Session Chair: Martin Haulena

Physiologic and Biochemical Assessments of Koi Carp (*Cyprinus carpio*) Following Immersion with Propofol Lysa P. Posner

Evaluation of Alfaxalone (Alfaxan®) for Sedation of South American Fur Seals (*Arctocephalus australis*) Jenny M. Meegan

Use of Midazolam and Butorphanol to Sedate Harbor Seal (*Phoca vitulina*) Pups Undergoing Rehabilitation Chelsea E. Anderson+

Effects of Propofol Anesthesia on Bonnethead (*Sphyrna tiburo*) and Sandtiger (*Carcharias taurus*) Shark Cardiorespiratory and Blood Gas Parameters Cara Field

Arterial Blood Pressure Monitoring of Select Pinnipeds: Multi-Case Presentation James E. Bailey

Clinical Observations during Chemical Restraint of Captive Steller Sea Lions (*Eumetopias jubatus*) Pam Tuomi

Scientific Session XVII: Infectious Disease I, Callippe
Session Chair: Mandy Keogh

Prevalence of *Salmonella enterica* and *Campylobacter* spp. in Wild Caught and Stranded Neonatal and Juvenile Grey Seals (*Halichoerus grypus*) in Scotland Johanna Bailly+

Understanding Methicillin-Resistant *Staphylococcus aureus* in Free-Ranging and Managed Populations of Bottlenose Dolphins (*Tursiops truncatus*): Proper Identification, *spa* Typing and Future Considerations Stephen E. Cassle+

Screening and Characterization of Morbillivirus in Hawaiian Cetaceans Jessica, M. Jacob+

Exploring the Indian River Bottlenose Dolphin Virome Thomas B. Waltzek

The Genome of California Sea Lion Adenovirus 1 and Diagnostic Testing of Pinnipeds Using Quantitative PCR Galaxia Cortés-Hinojosa+

Identification of a Novel Herpesvirus of Northern Fur Seals (*Callorhinus ursinus*) Related To the Carcinoma-Associated Otarine HV1, Phylogenetic Analysis, and Quantitative PCR Surveillance James F.X. Wellehan, Jr.

Scientific Session XVIII: Parasitology & Pathology, Verbena
Session Chair: Ashley McGrew

Vertical Transmission of Internal Parasites in Harbor Seal (*Phoca vitulina richardsi*) Pups in San Juan County, WA Christine A. Parker+

Pathology of Acute Capture Stress in South American Fur Seal Pups (*Arctocephalus australis*) Mauricio Seguel+

Small Intestine Pathology Associated with Trematode Infection in the Florida Manatee, *Trichechus manatus latirostris* Elizabeth R. Arnett+

Morbidity and Mortality in Aquarium-Maintained Purple Mouth and Green Morays Bryan S. Vorbach+

Epidemiological Survey Identifying Risk Factors for Corneal Disease in Pinnipeds Carmen M.H. Colitz

Scientific Session XIX: Infectious Disease II, Callippe
Session Chair: Johanna Sherrill

Pandemic H1N1 Influenza Isolated in 2010 from Free-Ranging Northern Elephant Seals
off the Central California Coast Tracey Goldstein

Experimental *Edwardsiella ictaluri* Infection in Nile Tilapia, *Oreochromis niloticus* (L):
Determination of Bacterial Distribution and Tissue Targets by Histopathology and
Real-Time PCR Esteban Soto

From Sources to Sea Otters: What Animals Can Teach Us about Water Quality
and Fecal Pathogen Pollution Woutrina A. Miller

Toxoplasmosis And Other Infectious Diseases in Hector's And Maui's Dolphins
(*Cephaloryhynchus hectori*) Wendi D. Roe

Antibiotic Treatment of Leptospirosis in California Sea Lions (*Zalophus californianus*)
..... Katherine Prager

Investigation of Animal Care Workers Exposed To Marine Mammal *Brucella* Species
..... Deborah A. Fauquier

Scientific Session XX: Avian Health & Medicine, Verbena
Session Chair: Cara Field

Evaluation of Ante-Mortem Body Condition Scoring Techniques in the Herring
Gull (*Larus argentatus*) Emily F. Christiansen+

Northern Fulmar (*Fulmarus glacialis*) Rehabilitation during "Wrecks" in California
..... Rebecca S. Duerr

Aspergillosis in African Penguins (*Spheniscus demersus*): Understanding Diagnostic
Criteria, Treatment, and Prophylaxis Rachel Thompson

Interagency Response to a 2012 Avian Mortality Event in Maryland Cindy P. Driscoll

Successful Transmitter Implantation Requires More Than Just a Safe Surgery:
The Story of the Western Grebe (*Aechmophorus occidentalis*) Joseph K. Gaydos

Understanding Risks to Humboldt Penguins: A Health Assessment of the Guanay
Cormorant (*Phalacrocorax bougainvillii*) and Peruvian Pelican (*Pelecanus thagus*)
Populations in the Punta San Juan Ecosystem Jennifer N. Langan

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- 2000 New Orleans, Louisiana, USA: Larry Dunn
- 2001 Tampa, Florida, USA: Robert Osgood
- 2002 Albuferia, Portugal: Claudia Gilli
- 2003 Waikoloa, Hawaii, USA: Stephen Smith (for the business meeting!!)
- 2004 Galveston, Texas, USA: Jeff Stott
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- 2006 Nassau, Bahamas: NAVY in general (Eric Jensen on R.U. Dunn guard duty)
- 2007 Orlando, Florida, USA: Mike Walsh (this time for himself!)

- 2008 Rome, Italy: Tom Reidarson
- 2009 San Antonio, Texas, USA: Francis Gulland and Bill Van Bonn (shared)
- 2010 Vancouver, BC, Canada: Marty Haulena
- 2011 Las Vegas, Nevada, USA: Niels van Elk
- 2012 Atlanta, Georgia, USA: Craig Harms

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- 2014 SeaWorld - Gold Coast, Queensland, Australia
- 2015 TBD

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