



Schedule of Events

WEDNESDAY

- Noon – Nite Final **Presentation Checks** (Grosvenor Auditorium) *Graham Wilhelm: x.7559 (970-443-2944 c)*
- 4:00-5:30pm **Check-in/Registration** (Dining Hall)
- 5:30-6:00pm **Preliminary Briefing and Symposium Logistics for Presenters** (Grosvenor Auditorium)
- 6:00-8:00pm **Welcome Reception** (Critttercam Exhibit, Explorers Hall)

THURSDAY – Science Sessions

All Lectures in Grosvenor Auditorium

- 8:00-8:15am **Terry Garcia, John Francis, and Greg Marshall**, *Opening Remarks*
- 8:15-8:45am **Jerry Kooyman**, *Animal-borne Instrumentation Systems and the Animals that Bear Them: Then (1939) and Now (2007)*
- 8:45-9:00am **John Francis**, *Juan Fernandez Fur Seals: First Critttercam Deployment on Pinnipeds*
- 9:00-9:15am **Torre Stockard**, *Penguins: Deep Flight*
- 9:15-9:30am **Bud Antonelis and Charles Littnan**, *Monk Seal Research and Recovery Effort: How Critttercam Revolutionized Our Understanding of Monk Seal Ecology*
- 9:30-9:45am **Frank Parrish**, *Foraging Competition Between Monk Seals and Other Apex Predators in the NW Hawaiian Islands*
- 9:45-10:00am **Mike Heithaus**, *Integrating Animal-borne Imaging into Ecological Studies in a Pristine Sea Grass Ecosystem*
- 15 Minute Break
- 10:15-10:30am **Elia Herman**, *Critttercam Deployments on Humpback Whales in Competitive Groups off Hawaii*
- 10:30-10:45am **Karen Arthur and Judy O'Neil**, *Green Turtle Foraging Behavior in Morton Bay Australia Using Critttercam*
- 10:45-11:00am **John Calambokidis**, *Insights into the Underwater Behavior of Blue Whales from Suction Cup Attached Tags Including Critttercams*
- 11:00-11:15am **Lee Fuiman and Mark Meekan**, *Whale Sharks as Animal-Borne Imaging Platforms*
- 11:15-11:30am **LaVern Beier**, *First Deployment of a Terrestrial Critttercam on a Coastal Brown Bear*
- 45 Minute LUNCH
- 12:15-12:30pm **Stewart Breck**, *Human-Black Bear Conflict in Urban Environments: Understanding the Bear Necessities and Developments of Carrots and Sticks*
- 12:30-12:45pm **Adam Pack**, *The Social Ecology of Female Humpback Whales in Hawaiian Waters: Implications for Use of Critttercam*
- 12:45-1:00pm **Daryl Boness**, *Investigating the Aquatic Mating System of Harbor Seals Using Critttercam*

- 1:00-1:15pm **Don Bowen**, *Testing Optimal Diving Theory with Harbor Seal Crittercam Data*
- 1:15-1:30pm **Rich Reina**, *Leatherbacks - Shallow Intimacy*
- 1:30-1:45pm **Fred Sharpe**, *Using Animal-borne Imaging to Elucidate the Underwater World of Cooperative Foraging Humpback Whales*

15 Minute Break

- 2:00-2:15pm **Ingrid Visser**, *Close Encounters of the Killer Kind: Unique Deployment Prospects with New Zealand Killer Whales*
- 2:15-2:30pm **Tony Tucker**, *Evaluating Hazards of Boat Impacts on Loggerhead Turtles during the Internesting Period.*
- 2:30-2:45pm **Greg Skomal**, *Use of Crittercam to Assess Post-release Behavior/Physiological Effects of Capture Stress in Grey Reef Sharks*
- 2:45-3:00pm **Katsufumi Sato**, *Foraging Strategy of European Shags Investigated Using Integrated Information on Behavior and Habitat*
- 3:00-3:15pm **Jan Straley**, *Ringing the Dinner Bell: Sperm Whales and Fishermen Butting Heads in the North Pacific*
- 3:15-3:30pm **Alison Kock**, *Studying the Hunting Strategy of White Sharks Using Crittercam*
- 3:30-3:45pm **Phil Lobel**, *Behavioral Ecology of Gray Reef Sharks on Coral Reefs*
- 3:45-4:00pm **Jeff Carrier**, *Nurse Sharks: Wildly Sexy*
- 4:00-4:15pm **Yasuhiko Naito**, *Contribution of the Animal-borne Digital Still Camera (DSL) to the Progress of Marine Animal Science Underwater*

15 Minute Break

- 4:30-4:45pm **Tracey Rogers**, *Using Animal-borne Imaging to Predict Future Changes*
- 4:45-5:00pm **Josh Millsbaugh**, *Stress Assessment as Related to Instrument Deployment*
- 5:00-5:15pm **Brendan Kelly**, *Ringed Seal: An Instrumentation Challenge*
- 5:15-5:30pm **Terrie Williams**, *Stroking and Steeping into Extinction: A Physio-Video Perspective*
- 5:30-5:45pm **Kiersten Madden**, *Individual Variability in the Foraging Tactics of Free-Ranging Weddell Seals*
- 5:45-6:00pm **Randy Davis**, *Ethology of Diving Vertebrates at Sea: New Advances with Video Recorded Behavior, 3-D Dive Analysis and Habitat Association*

60 Minute Break

- 6:00-7:00pm **VIP reception** in the Crittercam exhibit at Explorer's Hall (Presenters only)
- 7:00-8:15pm NG Live! Film: *Surviving Paradise: The Hawaiian Monk Seal*, followed by Q&A with **Bud Antonelis**, **Charles Littnan**, and **Frank Parrish**

FRIDAY: Science, Technical and Public Sessions

All Morning Lectures in Dining Hall, Afternoon Lectures in Grosvenor Auditorium

- 8:00-8:15am **Kyler Abernathy**, *Crittercam 5.7*
- 8:15-8:30am **Corey Jaskolski**, *Crittercam 3D Dive Profiling*
- 8:30-8:45am **Bill Hagey**, *SealCam Systems*
- 8:45-9:00am **Sascha Hooker**, *Wild Insights Ltd. Venus Camera Systems*
- 9:00-9:15am **Gordon B. Stenhouse**, *Animal Pathfinder - Tracing the Life of a Grizzly Bear with Images and Sensors*
- 9:15-9:30am **Roland Kays**, *Remote Cameras as a Tool for Broad Scale Wildlife Surveys*
- 9:30-9:45am **Greg Marshall**, *Terrestrial Crittercam and NGWorldWideLive!*

- 9:45-10:00am **Thomas Hayden**, *Getting Immersed in the Crittercam Deployment Experience*
15 Minute Break
- 10:15-10:30am **James Taggart**, *A Mobile Sonic Tracking System for Determining 3-D Movements of Marine Animals: Potential Animal-borne Imaging Synergy*
- 10:30-10:45am **Yasuhiko Naito**, *Perspectives of a New Animal-borne Digital Still Camera (DSL); Role and Application for Developing New Insight into Marine Mammal Science*
- 10:45-11:00am **Zhihai (Henry) He**, *Integrated Camera and Sensor System for Wildlife Behavior Monitoring*
- 11:00-11:15am **Nicole Adimey**, *The Manatee Challenge*
- 11:15-11:30am **Russ Andrews**, *Cameras and Other Methods for Measuring Prey Ingestion in Pinnipeds*
45 Minute LUNCH
- 12:15-12:30pm **Christian Rutz**, *Video Cameras on Wild Birds*
- 12:30-12:45pm **Sascha Hooker**, *Data Sampling Protocols in Predator-attached Video Cameras: Considerations Based on Deployments with Antarctic Fur Seals*
- 12:45-1:00pm **Jeff Seminoff**, *New Tools and Novel Insights: Linking Turtle-borne Video, Stable Isotopes, and Dietary Data to Study Sea Turtle Foraging Ecology*

NG Live! Public Talks (Grosvenor Auditorium)

- 1:15-1:45pm **John Calambokidis**, *Blue Whales... A Crittercam Perspective*
15 Minute break
- 2:00-2:30pm **Mike Heithaus**, *Crittercam Down Under*
- 2:30-3:00pm **Terrie Williams**, *Holes in the Planet Landscape: The Challenge of Global Water Changes on Large Animals*
15 Minute break
- 3:15-3:45pm **Fred Sharpe**, *Humpback whales -- Bubble Net Feeding Strategy*
- 3:45-4:15pm **Frank Parrish and Charles Littnan**, *Changing Perspectives in Hawaiian Monk Seal Research*
15 Minute break
- 4:30-5:00pm **Rich Reina**, *Hold Your Breath! Sex and Violence in the Leatherback Turtle World*
- 5:00-6:00pm Panel: *Science & Production, A Marriage Made In...*
John Bredar, Steve Reverand, Greg Skomal, Bud Antonelis, Jeff Carrier, John Francis, with Moderator **Chris Palmer**
- 6:00-7:00pm **Kegger** on the Dining Hall Patio
- 7:00-8:15pm NG Live! Film: *Bear Island*, followed by Q&A featuring **LaVern Beier** and **Greg Marshall**

FRIDAY: Student and Teacher Events

- 10:00-11:00am NG Live! Student Matinee, followed by Q&A with **Birgit Buhleier** and **Frank Parrish** (Grosvenor Auditorium)
- 12:00-4:00pm National Geographic Education and Children Programs Teachers' Workshop (Staff Auditorium)

SATURDAY: Science Sessions

All Morning Events in Hubbard Hall

- 8:00-8:30am Continental Breakfast with National Geographic Historical Presentation
- 8:30-9:00am **Joe Guerci**, *An Overview of Automated Image Analysis: Research, Trends and Applications*
- 9:00-10:00am Round Table Discussion: Animal-Borne Imaging Data Reduction and Analysis
- 10:00-10:30am **Peter Tyack**, *The Importance of Audio in Animal-Borne Instrumentation*
- 10:30-11:00am Round Table Discussion: Integrating audio in Animal-Borne Imaging Systems
- 11:00-12:00am Round Table Wrap Discussion: The Future of Animal-Borne Imaging
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- 6:00-8:00pm Banquet Cocktails and Farewell Dinner (Dining Hall)

SATURDAY: Public Festival Events

- 10:00-10:45am Wild Detectives, Hosted by Crittercam Researcher **Birgit Buhleier** and creator/writer **Gayle Young** (Dining Hall)
- 15 Minute Break
- 11:00-11:45am Wild Chronicles – Life on the Wild Side with Series Host **Boyd Matson** (Dining Hall)
- 15 Minute Break
- 12:00-12:30pm **Busch Gardens** Saving the Wild Program (Grosvenor Auditorium)
- 12:30-12:45pm **Busch Gardens** Meet the Animals (Dining Hall)
- 15 Minute Break
- 1:00-1:30pm Panel Discussion: Research Exploration for Conservation with **John Francis, Rich Reina, Greg Skomal, and John Calambokidis** (Grosvenor Auditorium)
- 1:30-2:00pm Panel Discussion: Animals & Instruments with **Greg Marshall, Jeff Seminoff, Tracey Rogers, and Jeff Carrier** (Grosvenor Auditorium)
- 15 Minute Break
- 2:15-2:45pm Panel Discussion: Global Warming and Wildlife with **Jerry Kooyman, Brendan Kelly, Tracey Rogers, and Phil Lobel** (Grosvenor Auditorium)
- 15 Minute Break
- 3:00-3:30pm **Busch Gardens** Saving the Wild Program (Grosvenor Auditorium)
- 3:30-3:45pm **Busch Gardens** Meet the Animals (Dining Hall)
- 15 Minute Break
- 4:00-5:15pm NG Live! Film: *Emperors of the Ice*, followed by Q&A with **Jerry Kooyman** and **Greg Marshall** (Grosvenor Auditorium)

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