

## 2020 Symposium Agenda

Saturday, March 28		
8:00 am to 4:00 pm	OSHA Part 1	
8:00 am to 4:00 pm	CPO Course	
9:00 am to 12:00 pm	Marine Fish Taxon Advisory Group Steering Committee - Closed	
9:00 am to 5:00 pm	BAWL Setup and Commissioning Workshop	
1:00 pm to 4:00 pm	Freshwater Fish Taxon Advisory Group Steering Committee - Closed	
4:00 pm to 7:00 pm	Aquatic Invert Taxon Advisory Group Steering Committee - Closed	
· · ·	Sunday, March 29	
8:00 am to 4:00 pm	OSHA Part 2	
8:00 am to 6:00 pm	Attendee, Vendor & Guest Registration	
9:00 am to 2:00 pm	BAWL Setup and Commissioning Workshop	
10:00 am to 12:00 pm	Marine Fish Taxon Advisory Group - Public	
10:00 am to 12:00 pm	LSS 3 and WQ 1&2 Exam Review Sessions	
1:00 pm to 3:00 pm	Freshwater Fish Taxon Advisory Group - Public	
1:00 pm to 3:00 pm	WQ 3 and LSS 1&2 Exam Review Sessions	
3:00 pm to 5:00 pm	Aquatic Invert Taxon Advisory Group - Public	
5:00 pm to 8:00 pm	Ice Breaker/Vendor Interaction - Felts Vendor Hall	
(6:30 pm to 7:30 pm)	Poster Session	
	Monday, March 30	
7:00 am to 8:00 am	Registration and Breakfast	
7:30 am to 8:00 am	Vendor Meeting - Vendor Hall	
8:00 am to 8:30 am	Opening Ceremonies	
8:30 am to 8:50 am	Host Facility Spotlight	
8:50 am to 9:25 am	Exhibiting Vendor Introductions	
9:25 am to 09:40 am	First Time Attendee Presentation	
9:25 am to 10:10 am	Break / Vendor Interaction - Felts Vendor Hall	
10:10 am to 11:50am	Workshops	
10:10 am to 12:00pm	Lecture 1 - Water Quality, Life Support & Facility Operations (1)	
(10:10 am - 10:25am)	Centrifugal Pump Bench Testing: the Benefits of Conducting Mechanical and	
	Hydraulic Performance Assessments - Jordan Depenbrock, New England	
	Aquarium	
(10:25 am - 10:40am)	Fighting Carbon with Carbon: Reducing Emissions Through Transcritical CO2	
	Heat Pumps - Chris Emmet, Alaska SeaLife Center	
(10:40 am - 10:55am)	"The Aquarist Flu" - A Very Real Danger - <i>Nick Zarlinga, Cleveland Metroparks</i>	
(10:55 am - 11:10am)	The Design and Build Process of Moon Bay: A Jelly Touch Experience at the	
(11,10,25,20)	Florida Aquarium - Libby Nickels, Florida Aquarium	
(11:10am - 11:25am)	Creating Tropical Seas from the Puget Sound - Kaela Wuesthoff, Seattle Aquarium	
(11:25am - 11:40am)	Building and Running a Fully Interactive Aquarium from the Ground Up - Ben	
(11.250111 11.100111)	Daughtry, Florida Keys Aquarium Encounters	
(11:40am - 11:55pm)	Sustainable Design of Aquarium Life Support Systems - Marie Collins, SEA	
()	LIFE Europe & Mike Causer, Dryden-Aqua	
(11:55am - 12:00pm)	Q&A	
12:00 pm to 1:00 pm	Lunch / Vendor Interaction - Felts Vendor Hall	
1:00 pm to 2:30pm	Lecture 2 - Animal Welfare	
(1:00pm - 1:15pm)	Aquatic Animal Welfare AssessmentsDon't Freak Out! - Albert Chang,	
	California Science Center	
(1:15pm - 1:30pm)	The Five Domains in an Aquatic World - Rob Jones, The Aquarium Vet	
(1:30pm - 1:45pm)	A Facility Wide Approach to Animal Welfare Assessment Training - Dannel	
(1.45 2.00 )	Isaac, Downtown Aquarium Denver	
(1:45pm - 2:00pm)	Measuring Animal Wellness at the Texas State Aquarium Using a Continuous,	
	Reactive, and Proactive Monitoring Tool - Catherine Razal, Texas State	
(2:00pm - 2:15pm)	Aquarium Development and Implementation of a Comprehensive Welfare Monitoring	
(2.00pm - 2.13pm)	Program at Mote Marine Laboratory & Aquarium - Rachel Ayala, Mote Marine	
	Laboratory & Aquarium	
(2:15pm - 2:30pm)	Implications of Nociceptive Changes During Senescence on the Welfare of	
(=-==p =100p)	Giant Pacific Octopus, Enteroctopus dofleini - Megan Holst, Aquarium of the	
	Bay	
1:00 pm to 2:30pm	Workshops	
1:00 pm to 2:30 pm	Certification Test WQ 3 & LSS Levels 1 & 2	
(1:00-2:30)	WQ Level 3	
(1:30-2:30)	LSS Levels 1 & 2	
2:30 pm to 3:15 pm	Break / Vendor Interaction - Felts Vendor Hall	

3:15pm - 4:15pm	Lecture 3 - Behavior Management
(3:15pm - 3:30pm)	Moon Mysteries: The Guide to a Moon Jelly Touch Exhibit - Valerie
	Burkholder, Aquarium of the Pacific
(3:30pm - 3:45pm)	Dizzy Izzy Gets a Lift: Turning Obstacles into Enrichment - <i>Erika Pinney,</i> <i>Wonders of Wildlife</i>
(3:45pm - 4:00pm)	Animal Behavior and Conditioning of Great Hammerhead Sharks - Sarah
(J. 100pm)	Peake & Melissa Paynter, Georgia Aquarium
(4:00pm - 4:15pm)	8000lb Black and White Enrichment for a Collection of California Coastal
(1000)	Marine Fishes and Invertebrates; Creating Dynamic Habitats for a Multi-taxon
	Display at SeaWorld San Diego - Mike Price, SeaWorld San Diego
3:15pm to 4:45pm	Workshops
3:15 pm to 4:45 pm	Certification Test LSS 3 & WQ Levels 1 & 2
(3:15-4:45)	LSS Level 3
(3:45-4:45)	WQ Levels 1 & 2
6:30 pm to 10:00 pm	Evening Event at Wonders of Wildlife
	Busses depart hotel at 6:15
	Tuesday, March 31
7:00 am to 8:00 am	Breakfast - Felts Vendor Hall
8:00 am to 9:30 am	Lecture 4 - Water Quality, Life Support & Facility Operations (2)
(8:00am - 8:15am)	Progress Toward a Cyanide Detection Test for Marine Aquarium Fish -
(8:15am - 8:30am)	Andrew Rhyne, Roger Williams University Optimizing Removal of Nitrate Through Sulfur Denitrification - Olivia Markham,
(0.13011 - 0.30011)	Roger Williams University
(8:30am - 8:45am)	The Efficacy of Various Filter Media in Removing Copper from Treated
(0.000)	Seawater - Keshia Naidoo, South African Association of Marine Biological
	Research, UShaka Sea World
(8:45am - 9:00am)	A Cost Effective Autonomous and Wireless Water Quality Monitoring System:
	Set in a Small Marine Science Center - Cody Dawson, Pennington Marine
	Center Camp Emerald Bay
(9:00am - 9:15am)	A Different Take on Ozone - Kenny Alexopoulos, Oklahoma Aquarium & Frank
(0.15m  0.20m)	Young, Dynasty Marine Associates
(9:15am - 9:30am)	"Low and Slow": Energy Efficient and Nature-Based LSS Design - <i>Michael Mancini, Neptune Benson &amp; Jeffrey Keaffaber, SeaWorld Orlando</i>
8:00 am to 9:30am	Workshops
9:20 am to 10:00 am	Break / Vendor Interaction - Felts Vendor Hall
10:00 am to 10:45 am	Lecture 5 - Dirty and Clean Laundry
(10:00am - 10:15am)	Emergency Planning: Losing Potable Water for an Extended Period of Time -
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(10:15am - 10:30am)	From "Eeew" to "Ahhhh!" – Mimicking Nature to Create a Biodiverse
	Wetland Habitat at the Houston Zoo - Mike Fannin & Karen Sprague, Houston
	700
(10.00 10.15 )	
(10:30am - 10:45am)	Consulting Abroad to Open a Public Aquarium: The Good, the Bad, the Gray
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(9:00am - 9:15am)	A Brief Analysis of the Medical Challenges, Successes, and Deficiencies of
(0.000000000000000000000000000000000000	the Husbandry of Japanese Spider Crabs, Macrocheira kaempferi - Trevor
	Erdmann, Oregon Coast Aquarium
(9:15am - 9:30am)	Help! I'm Floating and I Can't Get Down! The Novel Use of a Pressure
	Chamber to Treat the Formation of Gas Bubbles in Syngnathids - Lindsey
	Williamson, Cabrillo Marine Aquarium
8:00 am to 9:30am	Workshops
9:40 am to 10:30 am	Break / Vendor Interaction - Felts Vendor Hall
10:30 am to 12:00 pm	Lecture 9 - Reproduction, Rearing and Culture
(10:30am - 10:45am)	The Little Pups That Could: Raising Cownose Ray Pups - Ashley Neumeier,
	Audubon Aquarium of the Americas
(10:45am - 11:00am)	Culturing Live <u>Americamysis bahia</u> in an Existing System: Saving Money One
(11:00	Shrimp at a Time - Morgan Lindemayer, New England Aquarium
(11:00am - 11:15am)	Culturing the Flower Hat Jelly - Matt Wade, National Aquarium
(11:15am - 11:30am)	Captive Spawning and Larval Rearing of Copper Sweepers, <u>Pempheris</u>
(11:30am - 11:45am)	<u>schomburgki</u> - <i>Andrew L. Rhyne, Roger Williams University</i> Be Careful What You Wish For: The Highs and Lows of Raising 1100 Giant
(11.50alli - 11.45alli)	Sea Bass <u>Stereolepis gigas</u> Larvae - <i>Chris Okamoto, Cabrillo Marine</i>
	Aquarium
(11:45am - 12:00pm)	The Pupdate: The Ups and Downs of Raising Yellow Stingray (Urobatis
	jamaicensis) Pups - Kathryn King, Audubon Aquarium of the Americas
10:30 am to 12:00 pm	Workshops
12:00 pm to 1:00 pm	Lunch / Vendor Interaction - Felts Vendor Hall
1:00 pm to 2:30 pm	Workshops
1:00 pm to 2:00 pm	Lecture 10 - Animal Care & Population Management (1)
(1:00pm - 1:15pm)	Population Management & Introduction Techniques of Aquacultured Fishes in
	New England Aquarium's Giant Ocean Tank - Lindsay Phenix, New England
	Aquarium
(1:15pm - 1:30pm)	Bagging Sharks: Observations and Utilization at Public Aquariums, Clem
	Kouijzer, 1-2-1 Animal Handling Products & Eric Hovland, Florida Aquarium
(1:30pm - 1:45pm)	Hammering Out Hammerhead Husbandry: Lessons Learned in the Husbandry
	of <u>Sphryna lewini</u> , and Designing a New Exhibit to Specifically Meet Their
(1.45 2.00 )	Unique Requirements - Melissa Bishop, Point Defiance Zoo & Aquarium
(1:45pm - 2:00pm)	Protecting Sharks and Beachgoers Using Electromagnetic Fields - Andrea
1,00 pm to 2,40 pm	Gann, Oklahoma Aquarium Vendor Breakdown
1:00 pm to 3:40 pm 2:00 pm to 2:45 pm	Break
2:45 pm to 4:00 pm	Lecture 11 - Animal Care & Population Management (2)
(2:45 pm - 3:00pm)	Putting Our Toe in the Water: How Can the Reproductive Management Center
(2.15 pm 5.00pm)	Help You? - Monica McDonald, Reproductive Management Center at the St.
	Louis Zoo
(3:00pm - 3:15pm)	Husbandry Techniques for Leafy Seadragons with Improperly Formed Swim
(0.000p 0.100p)	Bladders - Shawn O. Garner, Florida Aquarium
(3:15pm - 3:30pm)	"I Caught you a Delicious Bass": Improvements in Safety, Training, and
	Husbandry Working with Our Growing Giant Sea Bass, Stereolepis gigas at
	Monterey Bay Aquarium - Ann Greening, Monterey Bay Aquarium
(3:30pm - 3:45pm)	Exhibiting Atlantic Temperate Corals: Husbandry of Astrangia poculata - Alicia
	Schickle, Roger Williams University
(3:45pm - 4:00pm)	#ChondroCensus 2020: Building and Streamlining Collaborative Capacity -
	Jennie Janssen, National Aquarium
6:30 pm to 9:30 pm	Certification Banquet