

## Final Daily Program

\* Lectures to be recorded and available to all in-person and web-based registered delegates

**Friday, November 9, 2018**

General Session I: "Welcome & Keynote Presentations"				
Location: Marriott Conference Center Antigua Meeting Room				
Time	Speaker	Presentation / Moderator [Scarfe]		
8:00	Dean Sean Callanan	Welcome		
8:30	Arni Mathiesen*	<i>Keynote:</i> FAO, One Health, Environmental Stewardship & Veterinary Medicine		
9:00				
9:30	Richmond Loh*	<i>Keynote:</i> "Fishnostics" – Perspectives of a Field and Laboratory Veterinarian		
10:00				
10:30-11:00 Coffee/Tea Break				
Session II: "Meeting Aquatic Veterinary Education Needs"			Session III: "Diseases, Diagnostics & Clinical Medicine"	
Location: Marriott Conference Center Antigua Meeting Room			Location: Marriott Conference Center Nevis Meeting Room	
Time	Speaker	Presentation / Moderator [Scarfe]	Speaker	Presentation / Moderator [Bergfelt]
11:00	David Scarfe*	Existing & Future Global Aquatic Veterinary Education, Training & Competency Recognition	Hugh Cai*	Fish Pathogen ID Using Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry (MALDI-TOF)
11:30	Tim Miller-Morgan*	A Unique Approach for Determining & Evaluating Aquatic Vet Education Competency	Robert Durborow*	Developing a Mobile App, Clinical Database and Learning Games for Fish Diagnostics
12:00	Jessica Koppien-Fox*	Finding Your Fins! Training Opportunities in Aquatic Animal Medicine	Jessie Sanders*	Pet Fish Surgery, Anesthesia & Pain Management
12:30-13:30 Lunch			12:30-13:00 Lunch	
13:30	Pat Gaunt*	Using What You Learned in Vet School to Practice Aquatic Veterinary Medicine	Monica Criollo*	Design & Evaluation of DNA Vaccines against TiLV in <i>Oreochromis niloticus</i> from Peru
14:00	Jessie Sanders*	Development & Evolution of a Private Aquatic Veterinary Practice	Antonio Mignucci-Giannoni*	Antillean Manatee <i>Trichechus manatus</i> Health Assessment & Radiotelemetry in Puerto Rico
14:30	Dušan Palić*	Aquatic Vet Board Certification in Europe	David Marancik*	Providing Veterinary Support for a National Aquaponics Program in Grenada
15:00-15:30 Coffee/Tea Break			15:00-15:30 Coffee/Tea Break	
15:30	Richmond Loh*	Australia/New Zealand Process for Recognizing Specialization in Aquatic Veterinary Medicine	Jessica Koppien-Fox*	Shrimp 101: What Every Veterinarian Need to Know
16:00	Michelle Davis*	American College of Zoological Veterinarian's Board Certification Program	Tim Miller-Morgan*	Developing a supply-chain health management training program for a wild-caught aquarium fishery in Brazil – A case study.
16:30	Speaker Panel Discussion/Q&A*	Identifying Strengths & Weakness in Aquatic Veterinary Education Programs	Jonnel Edwards*	<i>Salmonella enterica</i> in Grenada Marine Turtles – a One Health Approach
17:00-18:30 FREE			17:00-18:30 FREE	
18:30-22:00 WAVMA Student/Chapter "Get together" Location TBD				

November 1, 2018

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**Saturday, November 10, 2018**

Session IV: "Koi Prax: Koi Diseases, Diagnostics & Health"		
Location: Marriott Conference Center Antigua Meeting Room		
Time	Speaker	Presentation / Moderator [Sanders/Tepper]
8:00	Julius Tepper*	Introductions, Koi Prax Concept, Archiving data
8:30	Richmond Loh*	Koi Health Status - Australia
9:00	Jessie Sanders*	Koi Health Status - Western U.S.
9:30	Julius Tepper*	Koi Health Status – Eastern U.S.
<b>10:00-10:30 Coffee/Tea Break</b>		
10:30	Tim Miller-Morgan*	Koi Health Status - Europe
11:00	Tim Miller-Morgan*	Koi Health Status - Asia
11:30	Julius Tepper*	Feed, Feeding Behavior & Body Condition of Koi
<b>12:00-13:00 Lunch</b>		
13:00	Julius Tepper*	A Koi Practitioner's Practical Practice Tips
13:30	Jessie Sanders*	Hikui Disease Diagnosis & Treatment
14:00	Julius Tepper*	Koi Sleepy Disease / Carp Edema Virus Disease
14:30	Richmond Loh*	Koi Ulcer Disease - Advances in Koi Ulcer Treatment
<b>15:00-15:30 Coffee/Tea Break</b>		
15:30	Tim Miller-Morgan*	Koi Herpes Virus
16:00	Jessie Sanders*	Ocular Neoplasm in Koi
16:30	Speaker Panel Discussion/Q&A*	Clinical Considerations in Koi Practice
<b>17:00-18:30 FREE</b>		
<b>18:30-22:00 WAVMA AGM, Banquet &amp; Awards Location: Conference Center Grand Ballroom</b>		

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### Sunday (November 11, 2018 – Morning)

Wetlab Option 1: “Finfish Clinical Exam, Anesthesia, Euthanasia & Necropsy”		
Location: Ross University, School of Veterinary Medicine		
Time	Instructor/s	Presentation/Activity
08:00-08:30 <i>Delegates transported to Ross University</i>		
08:30-11:30	Richmond Loh Jessie Sanders Mark Freeman Assistants TBD	<ul style="list-style-type: none"> <li>• An introduction to performing finfish clinical diagnostic exams, anesthesia, euthanasia &amp; necropsy (lecture or demonstration)</li> <li>• Supervised anesthesia, clinical exam, phlebotomy, skin scrapes, gill clips and microscopic examination by groups (3-4) participants</li> <li>• Supervised euthanasia, necropsy, identification of internal organs, necropsy and correct tissue sampling for diagnostic laboratory submission by groups (3-4) participants</li> <li>• Q&amp;A &amp; Wrap up</li> </ul>
11:30-12:00 <i>Delegates transported to Marriott Hotel</i>		

### Sunday (November 11, 2018 – Morning)

Wetlab Option 2: “Dolphin Clinical Exam”		
Location: Dolphin Discovery		
Time	Instructor/s	Presentation/Activity
08:00-08:30 <i>Delegates transported to Dolphin Discovery</i>		
08:30-11:30	Maria Teresa Vences Fernández	<ul style="list-style-type: none"> <li>• Introduction to dolphin anatomy, husbandry, physical examination, preventive medicine program, nutrition, and sample collection (lecture).</li> <li>• Hands on daily physical examination and gastric sample collection.</li> <li>• Demonstration of voluntary medical behaviors and blood sample collection.</li> <li>• Q&amp;A &amp; Wrap up</li> </ul>
11:30-12:00 <i>Delegates transported to Marriott Hotel</i>		

### Sunday (November 11, 2018 – Afternoon)

Biosecurity Workshop I: “Principles of Aquaculture Biosecurity”		
Location: Marriott Conference Center Antigua Meeting Room		
Time	Speaker	Presentation
13:00	David Scarfe*	Implementing Practical Biosecurity that Meet OIE Standards and National Regulations for Contagious Diseases Prevention, Control & Eradication
14:00	Dušan Palić*	Identifying Disease Hazards and Determining Risks & Impacts of Disease on an Aquaculture Operation
14:30	David Scarfe*	Identifying and Rectifying Critical Points for Disease Entry/Exit, and Developing Contingency Plans
15:00-15:30 <b>Break</b>		
15:30	Tim Miller-Morgan*	Clinical Evaluation, Diagnostic Sampling & Laboratory Submission
16:00	Richmond Loh*	Interpreting Diagnostic Reports & Determining Disease Absence/Presence
16:30	Dušan Palić*	Auditing & Certifying Disease Freedom

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### Monday (November 12, 2018 – Morning)

Biosecurity Workshop II: “Developing Aquaculture Biosecurity Plans” (table-top exercises)		
Location: Marriott Conference Center Antigua Meeting Room		
Time	Facilitators	Exercises (workbooks, literature & software provided)
8:00-10:00	David Scarfe Richmond Loh Tim Miller-Morgan Barrington Brown	<p><b>Introduction to table-top exercises:</b></p> <ul style="list-style-type: none"> <li>Creating biosecurity teams to evaluate given scenarios for developing &amp; implementing biosecurity plans</li> </ul> <p><b>Developing/Implementing biosecurity plans:</b></p> <ul style="list-style-type: none"> <li>Identifying/prioritizing disease hazards &amp; determining risks &amp; impacts</li> <li>Identifying &amp; fixing critical control points for disease entry/exit</li> <li>Developing contingency plans possible disease outbreaks on farm</li> </ul> <p><b>Select group summary presentation:</b></p> <ul style="list-style-type: none"> <li>Identified &amp; prioritized hazardous diseases, identified risks &amp; impacts, farm critical control points &amp; remediation, contingency plans if a disease is found)</li> </ul>
10:00-10:30 Break		
10:30-12:00	David Scarfe Richmond Loh Tim Miller-Morgan Barrington Brown	<p><b>Determining disease absence/presence:</b></p> <ul style="list-style-type: none"> <li>Farm evaluation, mortality monitoring, clinical evaluations, necropsy &amp; diagnostic sample submission</li> <li>Population sampling, disease surveillance &amp; monitoring, interpreting diagnostic lab results</li> <li>Auditing &amp; certifying biosecurity levels &amp; disease freedom</li> </ul> <p><b>Select group summary presentation:</b></p> <ul style="list-style-type: none"> <li>Disease sampling, testing and surveillance on the scenario farm, and approaches for auditing biosecurity procedures and certifying disease freedom</li> </ul> <p><b>Open Discussion:</b></p> <ul style="list-style-type: none"> <li>Optimal approaches for efficient, effective and practical implement on a working aquaculture operation</li> </ul>
12:00 Lunch		

### Monday (November 12, 2018 – Afternoon)

Biosecurity Workshop III: “Implementing & Auditing Aquaculture Biosecurity Programs” (on-farm exercises)		
Location: Snapper Tilapia Farm		
Time	Facilitators	Exercises (workbooks, literature & software provided)
13:00	Travel to Snapper Tilapia Farm	
13:30-15:00	David Scarfe Richmond Loh Tim Miller-Morgan Barrington Brown	<p><b>Introduction to on-farm evaluation:</b></p> <ul style="list-style-type: none"> <li>Owner interview; Farm disease history &amp; signalment</li> </ul> <p><b>Group Exercises:</b></p> <ul style="list-style-type: none"> <li>Determine farm disease hazards, risks &amp; impacts</li> <li>Identify critical control points for disease entry/exit &amp; how to rectifying, &amp; developing contingency plans</li> <li>Farm management evaluation, fish clinical exams, optimal diagnostic sampling</li> <li>Disease surveillance &amp; monitoring, diagnostic testing, auditing &amp; certifying disease freedom for this farm</li> </ul>
15:00-15:30 Break		
15:30-16:30	David Scarfe Richmond Loh Tim Miller-Morgan Barrington Brown	<p><b>Select group summary presentation:</b></p> <ul style="list-style-type: none"> <li>Optimal sampling, testing and surveillance, auditing &amp; certifying biosecurity &amp; disease freedom</li> </ul> <p><b>Open Discussion:</b></p> <ul style="list-style-type: none"> <li>Optimal approaches for implementing biosecurity on this farm implementing a biosecurity program for this farm</li> </ul>
17:00	Return to Marriott Hotel	