



2009 Symposium

Agenda for the 15th Annual Aquatic Animal Life Support Operators Symposium, Seattle, WA

Sunday, April 19

1:00 - 5:00 pm Pool Tournament. Check w/ Sheraton Concierge

3:00 - 6:00 pm Registration. Convention Center Level 6 West Lobby

6:00 - 9:00 pm Ice Breaker / Vendor Interaction - Hosted by the AALSO Officers & Board of Directors. Convention Center 6E Vendor Hall

Monday, April 20

8:00 - 9:00 am Registration / Breakfast.

9:00 - 9:30 am *Welcome & 2009 Host Facility Spotlight* - Robert Anderson, Seattle Aquarium.

9:30 - 10:30 am *Vendor Introductions* - Jack Felts, Harrington Industrial Plastics, LLC & Vendors.

10:30 - 11:00 am Break / Vendor Interaction.

11:00 - 11:30 am *Applying Ultrasound Technology to Control Algae and Biofilm* - George W. Hutchinson, AlgaeControl.US.

11:30 am - 12:00 *Water Treatment Methods for Control and Management of Algae* - Everett J. Nichols, PhD, HaloSource.

12:00 - 1:00 pm Lunch / Vendor Interaction.

1:00 - 2:00 pm *Algae Control and Algal Research*, Panel Discussion. George Hutchinson, AlgaeControl.US; Frank Kneib, HaloSource.

2:00 - 2:30 pm *Aquatic Life Support Systems (LSS) and Control of Diseases* - Dennis Thoney, PhD, Vancouver Aquarium.

2:30 - 3:00 pm *Pilot Testing for Inactivation of Non-Indigenous Seawater Organisms by Ozonation and Ultraviolet Sterilization* - Joel Johnson, TJP, Inc.

2:00 - 3:00 pm Workshop -- *PVC Solvent Cementing [ASTM D-2855]* - Newell Rollins, Harrington Industrial Plastics, LLC (advanced sign-up; concurrent with sessions above).

3:00 - 3:30 pm Break / Vendor Interaction.

3:30 - 4:00 pm *Current Perspectives on Ozone Chemistry in Marine Life Support Systems* - Jeffrey Keaffaber, PhD, University of Florida.

4:00 - 5:00 pm *Disinfection and Water Chemistry*, Panel Discussion. Dr. Dennis Thoney, Vancouver Aquarium; Joel Johnson, TJP, Inc.; Dr. Jeffrey Keaffaber, University of Florida.

5:30 - 7:30 pm Vendor Interaction - Hosted by Asahi/America and Fybroc/Dean Pump/Sethco - Met-Pro Corporation.

Tuesday, April 21

7:30 - 8:30 am Breakfast.

8:30 - 9:00 am *Optimizing Life Support Procedures to Achieve Optimal Water Quality while Preserving Water Resources in a Large Freshwater Exhibit, Using Nitrate Level as the Indicator* - Carly Pastore, National Aquarium in Baltimore.

9:00 - 9:30 am *SBIR Funded Denitrification Research/Technology Using Biodegradable Biopolymer at Low Nitrate Concentrations* - James Ebeling, PhD, Aquaculture Systems Technologies, LLC.

9:30 - 10:00 am *Advanced High Surface Area Ceramic Biological Filtration Media (ReefreshH2O)* - Richard Helferich, NanoDynamics, Inc.

10:00 - 10:30 am *Biofiltration*, Panel Discussion. Carly Pastore, National Aquarium in Baltimore; Dr. James Ebeling & Douglas Drennan, Aquaculture Systems Technologies, LLC; Richard Helferich, NanoDynamics, Inc.

10:30 - 11:00 am Break / Vendor Interaction.

11:00 - 11:30 am *GreenBuilding Assessments: Integrating Sustainability into your Capital Plan* - Susan Haifleigh, VFA, Inc.

11:30 am - 12:00 *Sustainable Life Support Design Principles* - Paul Cooley, MWH Americas.

12:00 - 1:00 pm Lunch / Vendor Interaction.

1:00 - 2:00 pm *Business Meeting & Elections*.

2:00 - 2:30 pm *Commercial Diving Safety: The Regulatory Environment* - Neil Hansen, Divers Institute of Technology.

2:30 - 3:00 pm *Certification Preparation Levels 1, 2 & 3* - Richard Davis, Walt Disney World.

3:00 - 3:30 pm Break / Vendor Interaction.

3:30 - 4:00 pm *Basics of Filtration* - Jonathan Pierce, Miami Filter, George Tenhagen, Busch Gardens & Stewart McDaniel, Waterlife Design Group.

4:00 - 4:30 pm *Improving Single Pass Solids Removal in Bead Bioclarifiers by Optimizing Media Size and Shape* - James Ebeling, PhD, Aquaculture Systems Technologies, LLC.

4:30 - 5:00 pm *Filtration Problems and Remedies*, Panel Discussion. Jonathan Pierce, Miami Filter; Dr. James Ebeling & Douglas Drennan, Aquaculture Systems Technologies, LLC; George Tenhagen, Busch Gardens; Stewart McDaniel, Waterlife Design Group.

6:00 - 10:00 pm Reception and Tour at the Seattle Aquarium.

Wednesday, April 22

7:30 - 9:00 am Breakfast for Vendors (*Vendors only*).

8:00 - 9:00 am Breakfast.

9:00 - 9:30 am *2010 Host Facility Spotlight* - Moody Gardens.

9:30 - 10:00 am *An Impeller's View of Pump Performance* - William Parry & Gennaro D'Alterio, Fybroc/Dean Pump/Sethco - Met-Pro Corporation.

10:00- 10:30 am *Ultrasonic Flow Measurement Technology* - Bill McDowell, Blue-White Industries.

10:30 - 11:00 am Break / Vendor Interaction.

11:00 - 11:30 am *Designing a Mechanically Adjustable Speed Drive for AC Motor Applications to Eliminate Vibrations without Additional Harmonics* - Philip Corbin III, Flux Drive, Inc.

11:30 am - 12:00 *Mechanical Seals* - Michael Dell, Advanced Sealing International.

12:00 - 1:00 pm Lunch.

1:00 - 1:30 pm *Thermoplastic Pipes and Ozone Applications* - Joe Poniatowski, Asahi/America.

1:30 - 2:00 pm *Recap any topics.*

2:00 - 2:30 pm *Closing Remarks.*

2:30 - 3:00 pm Break.

3:00 - 4:00 pm *Managerial Open Forum Discussion*, Moderator TBA (concurrent with sessions below).

3:00 - 4:00 pm *Technical Open Forum Discussion*, Moderator TBA (concurrent with sessions above & below).

3:00 - 4:00 pm Workshop -- *PVC Solvent Cementing [ASTM D-2855]* - Newell Rollins, Harrington Industrial Plastics, LLC (advanced sign-up; concurrent with sessions above).

3:00 - 4:30 pm *Certification Testing Levels 1, 2 & 3* - Richard Davis, Walt Disney World.

6:00 - 9:00 pm AALSO Certification Banquet.



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