

AQUAVET®



*A Program in Aquatic Veterinary Medicine*  
[www.aquavet.info](http://www.aquavet.info)

## 2008 Schedule for AQUAVET® I – Introduction to Aquatic Animal Medicine

### Sunday May 18

- 3:00pm Introduction and orientation to AQUAVET®  
Dr. Bowser – Associate Director  
Dr. Landeau – Associate Director  
Dr. Stremme – Interim Director
- 16:00 History of Woods Hole  
Dr. Abt – University of Pennsylvania
- 18:30 Aquatic toxicology  
Dr. McElroy – SUNY

### Monday May 19

#### 1<sup>st</sup> half of class:

- 8:00 NMFS Aquarium Tour 1.5 hours (start: 8:00 and 10:00)  
Mr. Lilles, Ms. Metz  
then  
MBL Library – 30 minutes (start: 9:30 and 11:30)  
Mr. Furfey – Marine Biological Laboratory

#### 2<sup>nd</sup> half of class:

- 8:00 MBL Marine Resource Center – 2 hours  
– (start: 8:00 and 10:00)  
Mr. Enos – Marine Biological Laboratory

(Class will divide into two ; half will visit the aquarium and library for the first 2 hours with the other half visiting the MRC and switch over during the second 2 hours)

- 13:00 Fish Histology  
Dr. Bowser
- 15:00 Water Quality  
Dr. Landeau
- 18:30 IACUC (with AQUAVET II ) **Loeb 208**  
Dr. Smolowitz

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**Tuesday May 20** (low tide 6:13)

- 8:00 Aquatic Immunology  
Dr. Sunyer – University of Pennsylvania
- 13:00 Aquatic Immunology (LAB – Loeb 208)  
Dr. Sunyer
- 16:00 Tides – 1 hr  
Dr. Abt
- 18:30 Fish Anatomy: Structure and function  
Dr. Bezuidenhout - Cornell University

**Wednesday May 21** (low tide 6:52)

- 8:00 Fish Anatomy: Structure and function  
Dr. Bezuidenhout
- 13:00 Fish Anatomy: Structure and function  
Dr. Bezuidenhout
- 14:00 Fish Anatomy: Structure and function  
LAB (Loeb 208) – 3 hr  
Dr. Bezuidenhout
- 18:30 Marine Invertebrates  
Dr. Maze

**Thursday May 22** (low tide 7:32)

- 6:45 Cape Cod Canal (low tide 7:32am)  
30 minute drive each way – need to be there 7:15am
- 10:00 Living invertebrates Laboratory  
LAB – Loeb 208  
Dr. Maze
- 13:00 Aquaculture systems  
Dr. Bowser
- 18:30 OPEN

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### Friday May 23

- 8:00 Diagnostic Methods for Aquatic Animal Diseases  
**LAB – Loeb 208**  
Dr. Bowser
- 13:00 Resource assessment  
Population dynamics and natural  
Dr. Rago – Northeast Fisheries Science Center
- 15:00 Tall Ships (optional)  
Dr. Abt
- 18:30 Large display aquaria  
Dr. Al Dove – Georgia Aquarium

### Saturday May 24

- 8:00 Fish Surgery Lecture
- 9:00 Fish Surgery demonstration – half of the class  
Drs. Weisse and Matzkin – University of Pennsylvania
- 9:00 Water Quality **LAB** – half of the class  
Dr. Landeau
- 10:30 Fish Surgery demonstration – other half of the class  
Drs. Weisse and Matzkin – University of Pennsylvania
- 10:30 Water Quality **LAB** – other half of the class  
Dr. Landeau
- 17:00 AQUAVET picnic Tobey Lane

### Sunday May 25

- 6:30 leave for Provincetown
- 10:00 Whale watching trip – optional  
Dolphin fleet – departure 10:00am  
self funded @ \$21.00 per person

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**Monday May 26**

- 8:00 Fish Physiology  
Dr. Birks – University of Pennsylvania
- 13:00 Viral diseases of coldwater fishes  
Dr. Densmore – US Geological Survey
- 15:00 Parasitic diseases of coldwater fishes  
Dr. Densmore
- 18:30 Fungal diseases of coldwater fishes  
Dr. Densmore
- 19:30 Environmental/Nutritional disease of coldwater fishes  
Dr. Densmore

**Tuesday May 27**

- 8:00 Fish Physiology  
Dr. Birks – University of Pennsylvania
- 13:00 Diseases of Warmwater fishes – infectious diseases  
Dr. Jack – Mississippi State University
- 15:00 Diseases of Warmwater fish – non-infectious  
Dr. Jack
- 18:30 Culture & health concerns of baitfish and hybrid striped bass  
Where do we go from here? What do you want to know?  
Dr. Jack
- 20:30 Logo Contest

**Wednesday May 28**

- 8:00 Field trip Sandwich State fish hatchery  
Mr. Lodowsky – Sandwich State fish hatchery
- 13:00 Pathology and Histopathology of Fish  
Dr. Renate Reimschuessel – US FDA
- 18:30 Pathology and Histopathology of fish  
**(LAB) Loeb 208**  
Dr. Reimschuessel

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**Thursday May 29**

8:00 Student seminars

1 –

2 –

3 –

4 –

5 –

6 –

7 –

8 –

13:00 Fish Nutrition

Dr. Steve Hughes – Cheyney University

18:30 Regulations in aquaculture

Dr. Jill Roland – USDA

**Friday May 30**

8:00 Ecology, Natural history, physiology, anatomy and diseases  
of shellfish and arthropods

Dr. Smolowitz – Marine Biological Laboratory

13:00 Mollusk crustaceans, and echinoderm **LAB (Loeb 208)**

Dr. Smolowitz

18:30 OPEN

**Saturday May 31**

8:00 Turtle aquaculture, biology and medicine

Dr. Craig Harms – NC State University

13:00 Turtle necropsy **LAB (Loeb 208)**

Drs. Dunnigan, Harms, and Williams

**Sunday June 1**

OPEN

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**Monday June 2**

- 8:00 Student seminars  
9 –  
10 –  
11 –  
12 –  
13 –  
14 –  
15 –  
16 –
- 13:00 Shrimp industry  
Dr. Bullis – Advance
- 18:30 Selected bacterial and viral pathogens of coldwater fishes  
Dr. Rocco Cipriano – US Geologic Survey –  
National Fish Health Research Laboratory

**Tuesday June 3**

- 8:00 Student seminars  
17 –  
18 –
- 9:00 Aquatic Birds  
Dr. Driscoll – Maryland Department of Natural Resources
- 13:00 Aquatic Birds **LAB – Loeb 208**  
Dr. Driscoll
- 15:00 Seafood Safety  
Dr. Abt
- 18:30 PCBs in New Bedford harbor – biochemical studies on  
shellfish  
Dr. McDowell – Woods Hole Oceanographic Institute

**Wednesday June 4**

- 8:00 Bacterial disease of coldwater fishes  
Dr. Cipriano
- 13:00 Selected bacterial and viral pathogens of coldwater fishes  
Dr. Cipriano

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18:30 Selected bacterial and viral pathogens of coldwater fishes  
Dr. Cipriano

**Thursday June 5**

6:00 leave Woods Hole

7:00ish New Bedford Seafood Processing Plant

12:30 ish Mystic Aquarium and Institute of Exploration  
Drs. Dunn and Tuttle

6:30pm OPEN

**Friday June 6**

8:00 Student Seminars  
19 –  
20 –

10:00 Computer tomography – sent e-mail 3-15-08  
Dr. Darlene Ketten – WHOI

13:00 Student seminars  
21 –  
22 –

14:00 Algal culture  
Dr. Wikfors – NMFS

18:30 Economic considerations in the development of aquaculture  
operations  
Dr. Landeau

**Saturday June 7**

8:00 OPEN

**Sunday June 8**

OPEN

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### Monday June 9

- 8:00 Marine mammals – life history anatomy physiology  
Drs. Dunn and Tuttle – Mystic Aquarium  
Dr. DeGuise – University of Connecticut  
Dr. Frasca – University of Connecticut  
Mr. Greg Early – Mote Marine Laboratory
- 11:00 Marine mammal husbandry – captive environment  
Drs. Dunn, Tuttle, Deguise and Frasca; Mr. Greg Early
- 13:00 Marine mammal husbandry – nutrition hand-rearing, clinical techniques  
Drs. Dunn, Tuttle, Deguise and Frasca; Mr. Greg Early
- 15:00 Marine mammals health and disease – strandings  
Drs. Dunn, Tuttle, Deguise and Frasca; Mr. Greg Early
- 18:30 Marine mammals health and disease strandings (continued)  
Drs. Dunn, DeGuise and Frasca ; Mr. Greg Early

### Tuesday June 10

- 8:00 Marine mammals **LAB – Marine Research Facility**  
Drs. Dunn, Tuttle, Deguise and Frasca; Mr. Greg Early
- 13:00 Marine mammals marine mammal potpourri including interchanges on ethics, careers, governmental policies, etc. (Part 1)  
Drs. Dunn, Tuttle, Deguise and Frasca; Mr. Greg Early
- 18:30 Student seminars  
23 –  
24 –

### Wednesday June 11

- 8:00 Tropical fish culture – use of recirculating systems  
Dr. Lewbart – NC State University
- 13:00 Diagnostic and treatment techniques for aquarium fish –  
Interactive Discussion of Previous Tank Experiments  
Drs. Landeau and Lewbart

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18:30 Closed aquaria systems – health and maintenance of life support systems  
Dr. Lewbart

**Thursday June 12**

8:00 Reptile medicine  
Dr. Lewbart

10:00 Oyster Culture, Environment, Disease and Nutrition  
Dr. Robert Maze

13:15 Ferry – Island Home  
to Martha’s Vineyard Shellfish Group Facility  
Mr. Rick Karney

18:30 OPEN

**Friday June 13**

6:45 leave Woods Hole

8:00 New England Aquarium  
Dr. Smolowitz – New England Aquarium

17:00 Alternative Careers in Veterinary Medicine  
Dr. Linnehan – NASA

18:00 AQUAVET® I – Clam bake – Tobey Lane

**Saturday June 14**

Prepare to leave

10:00 CHECK OUT

Back to reality