

Diving Physiology Workshop Schedule

Thursday September 18th

Kjell Johansen Lecture

Location: AIAS Auditorium, Aarhus Institute of Advanced Study, Building 1632

14:00 Gerald Kooyman Trends in the study of marine mammal and birds (abstract below)

Day 1 – Friday, September 19th

Location: AIAS Auditorium

9:30 Welcome
9:40-10:20 Mike Fedak Ecological perspectives on diving physiology; retrospection, reflection and projections.
10:20-10:40 Tobias Wang Cardiorespiratory responses to breath-hold and diving in reptiles
10:40-11:00 Frank Bo Jensen NO during and after anoxic dives in the turtle, *Trachemys scripta*
11:00 Coffee Break
11:20-11:40 Cassandra Williams Heart rate and blood oxygen depletion in loggerhead turtles
11:40-12:00 Daniel Garcia Decompression sickness in sea turtles
12:00-12:20 Christian Malte CO₂ model
12:20 LUNCH break
13:30-14:20 Paul Ponganis Breathe Deep to Dive Deep: Penguin Lung and Air Sac Volumes
14:20-14:40 Mike Tift Elevated carbon monoxide in marine mammals
14:40-15:00 Peter Madsen Metabolic rate of large whales
15:00 Coffee Break
15:20-15:40 Julie van der Hoop Cetacean lung mechanics & metabolics from a portable pneumotachometer
15:40-16:00 Danuta Wisniewska Porpoise diving behavior
16:00-16:20 Gitte McDonald Diving heart rate of porpoises
16:30 Beer, hotdogs and posters at Zoophysiology

Day 2 – Saturday, September 20th

Location: AIAS Auditorium

9:30 – 10:00 Michael Berenbrink Convergent evolution of myoglobin in avian and mammalian breath-hold divers'
10:00 – 10:20 Angela Fago Myoglobin, nitric oxide, and metabolic suppression
10:20 – 10:40 Natacha Aguilar de Soto A myoglobin tell-tale of diving ontogeny in deep diving pilot and beaked whales
10:40 – 11:00 Mike Weise ONR perspective
11:00 Coffee Break
11:20 – 11:40 Mark Johnson Lucia Martin Lopez Gait switches and fast twitches: inferring the stroking patterns and energetics of deep divers with fast sampling tags
11:40 – 12:00 Kasper Hansen TBD
12:00 – 12:30 Discussion/Wrap up
12:30 Break for lunch