

Brief information on upcoming workshop

Site: Hong Kong University of Science and Technology, Clear Water Bay,
Hong Kong, HKSAR

Duration: November 8 -21, 2015

Theme: Deep-sea Mollusca and Arthropods: Taxonomy, Biology, Ecology,
Sampling Methods

Workshop Instructors:

Professor Greg Rouse, UCSD, USA;

Dr. Janet Voight, Field Museum of Natural History, USA;

Prof. Alan Jamieson, University of Aberdeen, UK

COMAR advanced training workshops on deep-sea benthos

2nd workshop: Systematics (Mollusca and Crustacea) and Sampling Methods

Nov 9 to Nov 20, 2015, HKUST, HONG KONG

Instructors: Drs Greg Rouse, Alan Jamieson and Janet Voight

Nov 8 Welcome gathering, 6pm

Nov 9 (Monday) Instructor Greg Rouse

9:00 -10:30 Introduction to workshop

Lecture 1

Introduction to systematics, tree-thinking, basic terminology. Parsimony, tree searching, multiple equally parsimonious trees & consensus. Character coding.

10:45 -12:15 Lecture 2

Molecular sequence data. Alignment.

12:15- 14:00 Lunch

14:00- 17:30 Computer Exercises

Nov 10 (Tuesday) Instructor Greg Rouse

9:00 - 10:30 Lecture 3

Alternatives to Parsimony: Distance methods, Models and Maximum Likelihood,
Bayesian

10:45 – 12:15 Lecture 4

Combining Data, Hypothesis testing

12:15 – 14:00 Lunch

14:00 – 17:30 Computer Exercises

Molecular data 1. Basic Alignment and Parsimony Analysis. GenBank. Using
Clustal and MUSCLE in Mesquite.

Nov 11(Wednesday) Instructor Greg Rouse

9:00 - 10:30 Lecture 5

Current Nomenclature; Biodiversity measurement; taxonomic surrogacy

10:45 – 12:15 Lecture 6

Historical biogeography, Phylogeography, Key innovations and diversification
rates, Fossils, molecular clocks and dating on trees

12:15 – 14:00 Lunch

14:00 – 17:30 Computer Exercises

Species exercise. Taxonomy exercise; Linnean and Phylocode. Integrating
geography & DNA

Nov 12(Thursday) Instructor Janet Voight

9:00 -10:30 Lecture 7

Mollusca 1 Bivalves?

10:45 -12:15Lecture 8

Mollusca II Gastropods?

12:15- 14:00Lunch

14:00- 17:30Field trip to collect specimens from local habitats

Nov 13(Friday) Instructor Janet Voight

9:00 -10:30 Lecture 8

Mollusca III Cephalopods?

10:45 -12:15Lecture 9

Mollusca IV Habitats and Patterns?

12:15- 14:00Lunch

14:00- 17:30Identification/Discussions

Nov 14(Saturday)

9:00 -17:30 Trainees to work on group/individual mini-projects, molecular/ morphological data. Course Leaders to come up with some deep-sea questions to be assessed in the time frame available.

Nov 15(Sunday)

9:00 -12:15 Trainee's group project

12:15- 14:00Lunch

14:00- 17:30 Presentation and discussion of group mini-projects

18:00 – 21:00 Social gathering to Stanley market

Nov 16 Day off

Nov 17 Instructors Greg Rouse/ Alan Jamieson

9:00 -10:30 Lecture 10

Crustacea (Greg)

Overview of Crustacea

10:45 -12:15 Lecture 11 Alan Jamieson

Deep Sea Amphipods

12:15- 14:00 Lunch

14:00- 17:30 Exercises/Discussions

Nov 18

9:00 - 10:30 Lecture 12: Alan Jamieson

Benthic megafauna in the abyssal/hadal zones...

10:45 – 12:15 Lecture 13: Alan Jamieson

Bioluminescence

12:15 – 14:00 Lunch

14:00 – 17:30 Exercises/Discussions

Nov 19

9:00 - 10:30 Lecture 14: Alan Jamieson

Technology for biological research at depth I

10:45 – 12:15 Lecture 15: Alan Jamieson

Technology for biological research at depth II

12:15 – 14:00 Lunch

14:00 – 20:30 Second field trip with dinner gathering

Nov 20

Wrap up workshop

9:00 – 12:00 Round-table discussion on future collaboration

12:00 - 15:00 Lunch

15:00 – 17:00 Concluding workshop

18:00 – 21:00 Closing gathering

Nov 21 Departure