Proceedings of the Summer Institute in Recent Advances on the Study of Marine Fish Eggs and Larvae

14 JUNE to 3 JULY, 1989

ICAR

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

Dr. SALIM ALI ROAD

COCHIN - 682 031.

DRAWING OF LIVE AND PRESERVED FISH EGGS AND LARVAE

By

P. Bensam, K.C. George, M. Kumaran
Principal Scientists

and

S.G. Vincent
Technical Officer

(Central Marine Fisheries Research Institute, Cochin)

(A) Aim: To familiarise with the microscopic drawing of
fish eggs and larvae.

(B) Materials: In addition to the materials listed
in Practicals No.VII, the following:

(i) Camera lucida and their attachments.

(ii) Good quality white paper.

(iii) A good pencil, eraser and pencil sharpener.

(C) Methods:

(i) Isolate the particular specimen for drawing
with the aid of needles or brushes or
pipettes.

(ii) While dealing with live eggs, ensure that
the glassware used are free from formalin.

(iii) Mount the eggs/larva in the live/preserved
condition in a cavity slide in the required
Position.

(iv) Ensure that no air bubble(s) are locked up
anywhere under the cover slip.

(v) Fix the camera lucida in position.

(vi) Place the white paper alongside the microscope on the table, below the mirror, determine the extent of the figure on the paper and sketch the outline of the various characters including the overall profile of the specimen and pigmentation.

(vii) Record the magnification of the specimen in the drawing sheet by checking up the magnification of each MMD under the particular combination of eye piece and objective used, vide Practicals No.VII, (B), (i) to (vi).

(viii) After fully drawing the specimen take out an Indian Ink tracing of it at the time required.

(ix) For drawing specimens which are very much longer (larger) than the viewing area of the microscope under the particular combination, use eye pieces or objectives of lesser magnifications.

(x) If the size of the specimen is only slightly longer than the viewing area of the microscope, draw the figure in two parts and join them to get the whole figure.