

ORGANIZATION OF THE SEMINAR/WORKSHOP

AGENDA

Theme

Low-Cost Science Teaching Equipment

Objectives

The workshop was held to:

- (a) consider methods by which school science equipment is most effectively developed and the implication for teacher education, of effective teacher participation in innovative strategies of teaching through the use of low-cost science equipment;
- (b) provide workshop experience in designing, developing and evaluating locally-constructed low-cost science teaching equipment;
- (c) examine ways of improving Commonwealth co-operation in the development and production of school science equipment.

Agenda Item I: Training for Production of Low-Cost

Science Teaching Equipment

- (a) Existing sources of equipment and alternatives
- (b) National and regional production units
- (c) The role of the teacher in production
- (d) Training of personnel for production
- (e) The role of the educational administrator
- (f) Relationship between local production units and commercial supplies

Agenda Item II: Training for Use of Low-Cost

Science Teaching Equipment

- (a) Why practical work in science?

- (b) Equipment as a tool in understanding science
- (c) Problems associated with the use of equipment
- (d) Stages in the training of teachers in handling and using of equipment
- (e) Pre-service teacher training
- (f) In-Service teacher training
- (g) The role of science education organizations

Agenda Item III: Commonwealth Co-operation in Education with Special reference to Science Education

- (a) Information
- (b) Meetings
- (c) Training
- (d) Teaching about the Commonwealth
- (e) Bilateral co-operation
- (f) Pan-Commonwealth and regional co-operation in science education

Agenda Item IV: Practical Laboratory Sessions

- (a) Examining low-cost materials developed in some member countries
- (b) Recognizing and assessing equipment from manufacturers catalogues
- (c) Basic workshop techniques and economics
- (d) Safety in science laboratories
- (e) Design, developing and producing prototype equipment and related learning materials for science teaching
- (f) Evaluating equipment and related learning materials for science teaching