

ORGANIZATION OF SEMINAR/WORKSHOP

AGENDA

Theme

The Production and Use of Low-Cost Science Teaching Equipment.

Objectives

- (a) To consider methods by which school science equipment is most effectively developed through greater involvement with curriculum innovators and school teachers, in order to fulfil curriculum objectives;
- (b) to examine the role of teachers, instructors, technicians and the community in the development and production of low-cost science equipment;
- (c) to consider the implications for teacher education if teachers are to participate meaningfully and effectively in innovative strategies of teaching using low-cost science teaching equipment;
- (d) to provide workshop experience in designing, developing and evaluating locally constructed low-cost science teaching equipment;
- (e) to determine ways of improving Commonwealth co-operation in the interchange of ideas and experience in the development and production of school science equipment.

Agenda Item 1 : Strategies for Local Production of Low-Cost Science Teaching Equipment

- (a) Organization of production units.
- (b) Design of equipment.
- (c) Teacher involvement in production.
- (d) Production units and its links with teacher training and other institutions.
- (e) Kits and/or apparatus.
- (f) Support materials.

Agenda Item 2 : Strategies for Use of Low-Cost Science Teaching Equipment

- (a) Why practical work in science ?
- (b) Selection of equipment for science teaching at the national level and for specific classroom situation .

- (c) Problems associated with the use of equipment.
- (d) Training techniques on the use of equipment.
- (e) Mechanisms for encouraging the effective and efficient use of equipment.

Agenda Item 3 : Commonwealth Co-operation in the
Production and Use of School Science Teaching Equipment

- (a) Activities of the Commonwealth Secretariat and the Commonwealth Fund for Technical Co-operation.
- (b) Commonwealth Associations.
- (c) Areas for Commonwealth Regional Co-operation in science education in Africa.

Agenda Item 4 : Practical Laboratory Sessions

- (a) Development of equipment for science teaching and related learning materials.
- (b) Evaluating equipment for science teaching and related learning materials.