NMT AV Reviews

Reviewers: Joanne Barnier, Naples Community Hospital, Naples, Fla.; Louis M. Izzo, University of Vermont, Burlington, Vt.; L. David Wells, University of Kansas Medical Center, Kansas City, Kans.; Robert LaDue, University of Iowa Hospitals, Iowa City, Iowa; and James J. Kellner, Stanford University Hospital, Stanford, Calif.

PRINCIPLES OF GAMMA COUNTING

D.L. Horrocks, Ph.D., Beckman Instruments, Inc., Fullerton, Calif., 1974, $125.00 (2 x 2 color slides, cassette tape, booklet).

This audiovisual program consists of 52 slides, a 51-minute tape, and an accompanying booklet. It is designed as a self-instructional experience in which the viewer becomes an active participant by following the booklet as well as the slide tape sequence.

Slides 1 to 22 deal effectively with basic radiation physics. Colorful slides and clear basic explanations introduce the viewer to such topics as the uses of radionuclides, positrons, negatrons, keV, MeV, alpha, beta, and gamma decay. In the same stimulating manner, the photoelectric, Compton and pair production processes are covered.

After the groundwork has been laid, slides 23 to 52 explore the mechanics of gamma detection. Both organic and inorganic crystals are covered in terms of their respective advantages and types of decay they are most suited for. The complete detection process and various nuclide decay schemes are also included in the presentation. All subject material is explained concisely and clearly.

Principles of Gamma Counting is an enjoyable learning experience. It is recommended for educational programs as well as for practicing technolgists seeking to refresh their knowledge.

FOCUSED COLLIMATORS

Richard Witcofski, National Audiovisual Center, Washington, D.C., 1973, $17.00 (2 x 2 color slides, cassette tape, booklet).

This audiovisual unit is an excellent example of a self-instructional module. It consists of 76 slides, a 27-minute cassette tape, and a booklet. The student actively participates in the learning process by choosing to either listen to the description of the slides on cassette tape or to read the slide description in the booklet. The booklet also lists the objectives of the module and ends with a post-test for self evaluation.

The slides are colorful, clearly illustrated, and are, in most cases, "eye captivators." Multiple-choice questions are spaced throughout the unit to permit the viewer to test his grasp of the material.

It is assumed that the viewer of the module is near completion of his educational program. Topics covered are isoresponse lines, resolution, sensitivity, focal point, focal plane, focal distance, information density, depth of field, lead septa, line source response, and full width at half maximum. The topics are dealt with in a logical order with a precise and complete explanation of each.

Focused Collimators has the ingredients for producing an enjoyable and valuable learning experience and should be an asset to educational programs and to practicing technologists seeking to refresh their knowledge.

ASPECTS OF LIQUID SCINTILLATION COUNTING

C.H. Frasier, Beckman Instruments, Inc., Fullerton, Calif., 1973, $93.50 (2 x 2 color slides, cassette tape, booklet).

This is an audiovisual program designed to provide an understanding of liquid scintillation detection. It consists of 32 slides, a 25-minute tape, and a booklet. The learner can utilize all three components of the program or any combination of them.

The slides are both colorful and explicit. The corresponding narration is clear and concise. At times a great deal of information is provided with each slide. When that occurs, there is a danger of