"Such things and deeds as are not written down are covered with darkness, and given over to the sepulchre of oblivion." ... Ivan Bunin

CURRENT WORK AND PROBLEMS

The matter of tabulation of cross sections in language and detail appropriate for shielding cross sections has been a matter of some pre-occupation with portions of the shielding community for several months. The shielding subcommittee of the CSEWG met February 6 in Oak Ridge (see March newsletter) and again on April 7 in San Francisco. Out of these meetings has come a draft of an amplified ENDF/B format to accommodate additional reactions having special interest for shielding. These include secondary gamma ray production, gamma ray interaction, and several charged particle interaction cross sections. Other recommendations were made concerning materials priorities and service routines. It was strongly urged that steps be taken to make data transfer between the ENDF/B and the Aldermaston formats simple. It was further urged that every effort be made to insure cooperation between the CSEWG and other groups engaged in acquisition of data of this sort.

During the same period a DASA committee has been considering DOD cross section data needs (the committee met March 1 and May 3 in New York City). Notable accomplishments of this group include (1) recommendation that DASA avail itself of the cross section library services of the BNL/ENDF group for its contractors, (2) review of recent General Atomic tabulation of cross section data for five nuclides, (3) undertaking to determine cross section measurement needs (for DASA Shielding calculations) and availability of facilities which might meet these needs.

QAD SEMINAR-WORKSHOP

Fifty participants from 25 separate installations were in attendance at the QAD Seminar-Workshop held at the Oak Ridge National Laboratory April 17-19. QAD TV and QAD P-5 were presented by Richard Malenfant, QAD B was presented by Donald Peterson, and QAD V by Robert Streetman, all of the N-2 Division, Los Alamos Scientific Laboratory. Gerald Lehti of the NASA Lewis Research Center presented QAD HD. All of these versions of the QAD codes were placed in the RSIC Computer Codes Collection and will soon be available for distribution.
Following the formal code presentations special applications of QAD were
discussed by L. S. Burns, Jr. of NMPO, General Electric, Cincinnati, Ohio, by
Lester Clemmons, NASA Lewis Research Center, Cleveland, Ohio, by A. D. Wilcox,
Aerojet General Corporation, Sacramento, California, and by Milo Solomito of
ORNL. A Panel Discussion on "Kernel Integration as a Method To Do Shielding
Calculations" completed the three day meeting. Moderated by Clyde Claiborne
of Neutron Physics Division, ORNL, the Panel consisted of John MacDonald of
GE, Knolls Atomic Power Laboratory, Schenectady, New York, Richard Malenfant, LASI,
Leonard Soffer, NASA Lewis Research Center, and D. K. Trubey of RSIC, ORNL.

A special feature of the meeting was an evening presentation of "Quick and
Dirt Cheap: Projects from Peaceful Nuclear Explosives" by J. W. Landry of the
Chemical Technology Division, ORNL.

SEND US YOUR REPRINTS

It is a great help to us when authors send us their reports and reprints
of their published work. We are very grateful to those who do this. This
procedure will not only assure that the work comes to our attention but saves
us the often considerable effort of obtaining documents when we encounter titles
in abstract journals, accession lists, and bibliographies. It is particularly
helpful if we are placed on routine distribution lists so we receive copies
automatically.

We would also welcome brief contributions to the "Current Work and
Problems" section. Tell us what you are working on.

RSIC TRAVELS

Betty F. Maskewitz and Henrietta R. Hendrickson displayed the RSIC Exhibit
and participated in informal discussions on nuclear codes with attendees at the
International Conference on the Utilization of Research Reactors and Reactor
Mathematics and Computation held May 2-4 in Mexico City. The Conference was
arranged jointly by the Reactor Group of the Centro Nuclear de Mexico and the
Mathematics and Computation Division of the American Nuclear Society and
sponsored by the Comision Nacional de Energia Nuclear de Mexico.

A meeting of the information center operators associated with the National
Standard Reference Data System at the National Bureau of Standards (April 6-7)
was attended by D. K. Trubey. Although RSIC is not a member of this system,
our interests are closely related.

Francis H. Clark met with the ENDF CSEWG shielding subcommittee at USNRDL
(San Francisco) April 7 and the DASA committee on neutron cross sections in
New York May 3.

APRIL ACCESSION LIST OF LITERATURE

The RSIC is now aware of the literature cited in the following list. This
literature has either been obtained by RSIC or has been placed on order. When
received, this material will be examined and assigned to various files if suitable
for our information system. The accession list is divided into three fields of (1) reactor and weapons shielding, (2) space and accelerator shielding, and (3) shielding computer codes. These titles are announced before processing and indexing so that there will be no delay and can serve as a prompt announcement of current literature.

RSIC is not a documentation center. Copies of the literature cited must generally be obtained from the author or from a documentation center such as the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

RSIC maintains a microfiche file of literature entered into its information system. Computer searches of this system (which produces a special bibliography) and duplicate microfiche copies of literature in our file are available upon request. Naturally we cannot supply copies of literature which is copyrighted (such as books or journal articles) or whose distribution is restricted. Neither service is yet available for the codes literature.

Reactor and Weapons Shielding

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