



IAEA Conference on Nuclear Data in 1966.

The Scientific Advisory Committee to the IAEA has approved that a conference on "Nuclear Data - Microscopic Cross Sections and Other Data Basic for Reactors" be held in Paris in July 1966.

Negotiations have been held with the French authorities, and they have informally agreed to act as hosts for the Conference, which we understood will be held in the Maison de la Chimie, although it seems that a formal invitation will not be available until certain points have been settled.

Although the Neutron Conference in Antwerp in July 1965 dealt with largely the same scientific field, this was done from a quite different point of view. It therefore seems that there should be no difficulty in avoiding repeating the technical content of the Antwerp Conference.

In choosing topics for the various sessions of the Conference it is proposed that mainly experimental work will be accepted, but works of interpretation and evaluation of measured data, to make them suitable as "Data Basic for Reactors", will naturally also be included.

The following topics are proposed as basis for discussions:

1. Introductory session.

- (a) Opening of Conference.
- (b) Introduction, not necessarily technical; perhaps dealing with modern principles for data handling or international data exchange.
- (c) One or two invited papers, e.g., on the needs for data for thermal and for fast reactors.

2. Cross sections in the resonance energy region (non-fissile materials).

Techniques, interpretation, evaluation, statistical aspects on resonance parameters.

3. Cross sections and related constants (σ , η , α) for fissile nuclides.

At 2200 m/s, in the resonance region, and from the fast reactor point of view.

4. Elastic and inelastic neutron scattering.

Resonance region scattering
Fast region scattering
Moderator scattering law (near thermal energies)
 γ 's from inelastic scattering.

5. Neutron capture reactions.

Capture γ 's
Photoneutrons (inverse reaction).

000091

6. Special topics.

Shielding

Perhaps also papers on evaluation, data handling,
group constants, etc.

Participants are requested to consider whether the rapporteur system should be used at this Conference. This worked very well at Antwerp, and we are inclined to recommend it for our Conference also. This point should be discussed in Tokyo.

Participants are also requested to consider topics and possible authors for invited papers, as well as rapporteurs, in case this system is adopted.

IAEA, Vienna,
5 August 1965