1978 Harwell Conference

The aim of the Conference is to bring together scientists who are interested in the use, measurement, calculation and evaluation of neutron and nuclear data for applied purposes.

The greater part of the conference will be related to the needs of the fission reactor programme - the design, operation, safety and shielding of such reactors, the processing of fuel and the storage or disposal of nuclear waste - but a large fraction of time will be devoted to the data related to fusion reactors, to bio-medical needs, and to other applied purposes.

There will be about 30 invited speakers and time for 50 contributed papers.

The conference will complement the multiennial conferences at Washington on nuclear Cross Sections and Technology and at Kiev on Neutron Physics and will provide a more readily accessible forum for scientists in western Europe. It is hoped that future meetings in this series initiated at Harwell will form a triennial cyclic pattern with the "Washington" and "Kiev" series.

For reasons of space the number of participants is limited to 230.

The Conference languages will be English and French for oral presentation and publication. Simultaneous interpretation will be available.

The acceptance of contributed papers will be the responsibility of the organising committee. One page summaries will be required by 23 June 1978 and the full text by 25 September 1978.
The accepted summaries will be published and issued to participants by the first day of the conference. The Conference Proceedings will be published and sold by the NEA.

Accommodation
Will be available in student rooms at St. Catherine's College, Oxford.

Conference Fee
A conference fee designed to cover direct costs will be charged to participants. The exact fee, expected to be in the region of £50, will be announced in the second circular in the autumn of 1977.

Social Activities
Delegates will be invited to a reception and a concert. At optional extra cost there will be an afternoon excursion to an historic site, a Conference Dinner and, for a limited number, on Friday evening, a visit to the Shakespeare Memorial Theatre at Stratford-upon-Avon.

Further information
A second circular will be sent in late 1977 to those who return the attached form by 25 September 1977. Enquiries should be addressed to Dr. G.D. James, Conference Secretary, Nuclear Physics Division 7.21, AEHE, Harwell, Oxfordshire OX11 ORA, England.

Organising Committee
J-Y. Barré (France), K.H. Bückhoff (Belgium), C.G. Campbell (U.K.), C. Coceva (Italy), H. Condé (Sweden), S.W. Clerjacks (Germany), U. Farinelli (Italy), A.T.G. Ferguson (U.K.), J. Hirota (Japan), G.D. James (U.K.) Conference Secretary, J.E. Lynn (U.K.) Deputy Chairman, A. Michaudon (France), S.M. Qaim (Germany), B. Rose (U.K.) Conference Chairman, J. Rosen (NEA), W.G. Sowerby (U.K.), J.S. Story (U.K.) and K. Tsukada (Japan).

International Advisory Committee

Local Committee
A.T.G. Ferguson, G.D. James, B. Rose and J.E. Lynn.

Administration
C.J.A. Preuveneers (U.K.) and E. Silvra (NEA).

Provisional Programme
Registration at St. Catherine’s College Saturday evening
Oxford.
Registration at Harwell Sunday morning

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Provisional programme

Opening Session

Nuclear Data for Fission Reactors
- Design, operation and safety requirements
- Shielding requirements
- Correlated uncertainties in nuclear data

Neutron Cross Sections
- Fission cross sections
- Neutron inelastic scattering
- Photon production by neutrons

Reception

Neutron Cross Sections
- U-238 resonance structure
- Structural materials
- Capture calculations

Nuclear Models and Theoretical Methods
- Level density models
- Optical model calculations
- Hartree-Fock methods

Concert

Nuclear Data for Fuel Management
- Fuel handling, reprocessing and waste management
- Fission product and actinide data
- Fission yield data

Excursion

Neutrons and Data for Biomedicine and Analysis
- Biomedical neutrons
- Biomedical data needs
- Neutron interrogation analysis

Facilities and techniques
- Neutron sources
- Counter techniques

Conference Dinner

Monday afternoon

Monday evening

Tuesday morning

Tuesday afternoon

Tuesday evening

Wednesday morning

Wednesday afternoon

Thursday morning

Thursday afternoon

Thursday evening
| Provisional programme | \begin{itemize} \item Nuclear Data for Safeguards and Trans- \item actinium cross sections \item Safeguards requirements \item Cross section measurements \item Nuclear Data for Fusion Reactors \item Fusion data requirements \item Neutron threshold reactions \item Fast neutron reaction mechanisms \item Shakespeare Memorial Theatre Play \end{itemize} | \begin{itemize} \item Friday morning \item Friday afternoon \item Friday evening \end{itemize} |