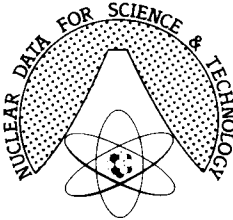


核データセンターだより(そのⅢ)



May 30 - June 3, 1988

MITO
JAPAN

SECOND ANNOUNCEMENT

**INTERNATIONAL CONFERENCE
ON
NUCLEAR DATA FOR SCIENCE AND TECHNOLOGY**

1. The Aim of the Conference

The International Conference on Nuclear Data for Science and Technology will be held in Mito, Ibaraki-ken, Japan on May 30 - June 3, 1988. This Conference is intended to continue in the path of its successful predecessors in Harwell (1978), Knoxville (1979), Antwerp (1982) and Santa Fe (1985). The Conference is expected to cover a wide range of basic and applied research on nuclear data: measurements, calculations and evaluations of nuclear data for fission and fusion energy programs, theoretical researches, biomedical application, industrial uses, etc.

2. Conference Topics

- 1) Differential and Integral Data for Fission Reactors
- 2) Differential and Integral Data for Fusion Reactors
- 3) Facilities, Instruments and Methods for Nuclear Data Measurements
- 4) Nuclear Data Analysis and Evaluation
- 5) Nuclear Theory and Experiments
- 6) Nuclear Structure and Decay Data, and their Applications
- 7) Nuclear Data for Nuclear Fuel Cycle and Waste Management, and their Applications
- 8) Nuclear Data for Dosimetry and Radiation Damage Studies, and their Applications
- 9) Nuclear Data for Biomedical and Industrial Applications
- 10) General Interest

3. Categories for the Contribution (Conference Format)

- a) Invited Papers
About 39 papers are foreseen in this category. The allotted presentation times for invited papers are 30 min. (9 papers) and 20 min. (30 papers).
- b) Oral Presentation of Contributed Papers
Presentation time is 12 min. in length. The time allocated for oral presentations includes time for discussion.
- c) Posters
Posters will be displayed for viewing the entire week of the conference. There will be 3 lecture free hours available during the conference which will be dedicated to the poster presentations and discussion. Because of the limited time available for oral presentations, it may be necessary to reassign some of the oral presentations to the poster sessions.

4. Official Language

The conference language will be English. Simultaneous translation will not be provided.

5. Call for Papers

If you are interested in presenting a paper, please fill in the enclosed form and send it to the Secretariat at your earliest convenience, but not later than September 15, 1987.

Abstracts of contributed papers (oral or poster) and invited papers are due no later than November 5, 1987.

Abstracts for all contributed and invited papers must fit into a single page in 15.5 cm wide by 22.5 cm long. Abstracts must be in English and received in camera-ready form for distribution at the Conference. Each abstract should include a title, author(s) and institution with address indicated by the attached example.

The authors of the accepted contributions will receive special paper for photographic reproduction together with instructions on the format of the text for the proceedings. The manuscript must be made available to the Conference Secretariat at the latest at the beginning of the Conference. All accepted contributions, also those with poster presentation, will be published in the proceedings.

6. Conference Location

a) The Conference will be held at Mito Plaza Hotel in Mito City, Ibaraki Prefecture, 100 km north from Tokyo.

b) Transportation

The nearest air terminal to Mito is the New Tokyo International Airport (Narita). The most convenient way to reach Mito is via Tokyo by trains. It takes about 4 hours from Narita to Mito (Fare: about ¥5,500).

c) Accommodations

Although a sufficient number of hotels are available in the Mito area, early provisional booking is highly advised. The average room charge may be about ¥8,000 (Single w/bath).

Necessary information such as Conference location, route description, a list of hotels and a city map will be provided in the Third Announcement.

7. Conference Fee

Conference fee

For registration up to April 20, 1988:

¥25,000 for regular participant

¥10,000 for student

For registration after April 20, 1988:

¥30,000 for regular participant

¥15,000 for student

The Conference fee will cover for the book of abstract, a copy of the proceedings and some of the social events. The fee for student participants will not include a copy of the proceedings. The payment procedure will be indicated in the Third Announcement.

8. Social Program and Technical Tour

The Social Program and Technical Tour will include Reception, Banquet, Companion Program and visit to JAERI et al.

Complete information on the social program and tours will be sent in the Third Announcement.

9. Other Information

a) Weather

The weather in Mito in early June is usually moderate and comfortable with average temperature of 18°C (64°F). The average maximum and minimum temperatures in this season are 22°C and 14°C, respectively.

b) Passport and Visa

All foreign visitors entering Japan must possess valid passports. Participants requiring visas should apply to Japanese consular offices or diplomatic missions in their countries prior to departure. For details, participants are advised to contact their local travel agents or carriers.

10. Further Information

If you are interested in participating in this Conference, please fill in the Preliminary Registration and Paper Information Form and send it to the Secretariat.

Important Time Schedule	
Preliminary registration and paper information	September 15, 1987
Third Announcement	October, 1987
Abstract due for contributed papers and invited papers	November 5, 1987
Pre-registration and Accommodation due	February 15, 1988
Fourth Announcement	March, 1988
Conference fee	April 20, 1988
CONFERENCE	May 30 - June 3, 1988

For any inquiries, please contact:

Address

Sin-iti Igarasi
Conference Secretariat
Nuclear Data Center, JAERI
Tokai-mura, Naka-gun
Ibaraki-ken 319-11, Japan

Phone: 0292-82-5480
Telex: J24596
Facsimile: 0292-82-0528

Sponsorship

Sponsor : Japan Atomic Energy Research Institute

Cosponsors : Power Reactor and Nuclear Fuel Development Corporation
The Institute of Physical and Chemical Research
Federation of Electric Power Companies of Japan
The Japan Electrical Manufacturers' Association
Japan Atomic Industrial Forum, Inc.

Cooperation : Science and Technology Agency
OECD/Nuclear Energy Agency
International Atomic Energy Agency
Atomic Energy Society of Japan
Physical Society of Japan

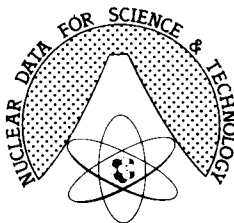
Organization

International Program Committee

K.H. Böckhoff	CBNM, Geel	C.E.C.
S. Cierjacks	KFK, Karlsruhe	F.R.Germany
C. Coceva	ENEA, Bologna	Italy
H. Condé	FOA, Stockholm	Sweden
T. Fuketa (Chairman)	JAERI, Tokai	Japan
H. Gruppelaar	ECN, Petten	Netherlands
S. Igarasi	JAERI, Tokai	Japan
J.E. Lynn	AERE, Harwell	U.K.
A. Michaudon	ILL, Grenoble	France
J. Rosén	NEA Data Bank, Saclay	OECD/NEA
J.L. Rowlands	AEE, Winfrith	U.K.
M. Salvatores	CEA, Cadarache	France
J.J. Schmidt	IAEA/NDS, Vienna	IAEA
A.B. Smith	ANL, Argonne	U.S.A.
M.G. Sowerby	AERE, Harwell	U.K.
P.G. Young	LANL, Los Alamos	U.S.A.

International Advisors

J.W. Boldeman	AAEC, Lucas Heights	Australia
W.G. Cross	AECL, Chalk River	Canada
A.T.G. Ferguson	AERE, Harwell	U.K.
E. Fort	CEA, Cadarache	France
F. Fröhner	KFK, Karlsruhe	F.R. Germany
P.E. Hodgson	Univ.Oxford, Oxford	U.K.
Huang Shengnian	IAE, Beijing	P.R. China
S.S. Kapoor	BARC, Bombay	India
V.A. Konshin	IAEA/NDS, Vienna	IAEA
H. Küsters	KFK, Karlsruhe	F.R. Germany
L.G. LeSage	ANL, Argonne	U.S.A.
H. Liskien	CBNM, Geel	C.E.C.
M.V. Pasechnik	UAS, Kiev	U.S.S.R.
F.G. Perey	ORNL, Oak Ridge	U.S.A.
S.M. Qaim	KFA, Jülich	F.R. Germany
G. Reffo	ENEA, Bologna	Italy
G. Rudstam	Studsvik, Nyköping	Sweden
J. Salvý	CEA, Bruyères-le-Châtel	France
D. Seeliger	Tech. Univ., Dresden	German D.R.
G. Vanpraet	RUCA, Antwerp	Belgium
H. Vonach	IRK, Vienna	Austria
R.L. Walter	TUNL, Durham	U.S.A.
H. Weigmann	CBNM, Geel	C.E.C.
S.L. Whetstone	US DOE, Washington, DC	U.S.A.
Zhou Delin	IAE, Beijing	P.R. China



Preliminary Registration and Paper Information Form

If you are interested in participating in the Conference, please fill in this form. Further information will be sent to you.

Name: _____

Affiliation: _____

Address: ☐ Home ☐ Office _____

Phone: _____ Telex: _____

Facsimile: _____ Other media: _____

Attendance:

- ☐ Will certainly attend
- ☐ Will probably attend
- ☐ Will probably not attend

Paper:

- ☐ Will present a paper
- ☐ Will not present a paper

If "yes", then indicate tentative title(s) and author(s).

Title(s): _____

Author(s): _____

Specify the name of topics if possible: _____

Presentation preference
☐ Oral or ☐ Poster

Please return this form at your earliest convenience but not later than September 15, 1987.

Sin-iti Igarasi
Conference Secretariat
Nuclear Data Center, JAERI
Tokai-mura, Naka-gun
Ibaraki-ken 319-11, Japan

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Facsimile: 0292-82-0528
Telex: J24596

Example of Abstract

JNDC FP Nuclear Data File Version 9 and its Assessment

K. Kasata, H. Harai, J. Kurakata

Japan Atomic Energy Research Institute, Tokai-Mura, Ibaraki-ken, Japan

M. Haruyama

Nuclear Engineering Research Laboratory

University of Tokyo, Tokai-Mura, Ibaraki-ken, Japan

The ninth version of the JNDC (Japanese Nuclear Data Committee) FP Nuclear Data File has been completed and assessment of the file has been carried out for the decay heat calculation. The new data file is inclusive of evaluated decay, yield and neutron cross-section data, for more than 1000 FP nuclides, needed in the summation calculation of decay heat.

The first version, completed at the beginning of the 1980's, made it possible to reproduce quite well the decay heat measurement at University of Tokyo and that at Oak Ridge for variety of fissiles from Th-232 to Pu-241. There remained, however, a few problems to be solved. The most significant one was a discrepancy between calculation and measurement around 500 second cooling. One of the incentives to the new version of the JNDC File was to resolve this discrepancy by identifying its origin and revising the nuclear data by making full use of the new microscopic data which became available after the completion of the first version. The theoretical and the experimental values of the average energies, $\bar{E}\beta$ and $\bar{E}\alpha$, have been thoroughly reexamined for each nuclide, and the best values or most reliable ones have been chosen for inclusion into the new version. The number of the fission-yield data sets has been increased from 10 to 20 to include Pu-240, -242 and also higher actinides.

The comparison of the measured data and the decay heat curves calculated with the new version shows clear improvement in agreement especially around 500 seconds and also after 3000 seconds. An apparent inconsistency still remains unsolved between our new calculation result and the Los Alamos measurement in 1977, though the former being supported by the measurements at University of Tokyo and at Oak Ridge as well as the German calculation based on a microscopic theory of beta-decay.

15.5cm

22.5cm