

March 12, 2001

## Present Status of Preparation for the International Conference on Nuclear Data for Science and Technology (ND2001)

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1. Conference Name: International Conference on Nuclear Data for Science and Technology
2. Abbreviation: ND2001
3. Date: October 7 – 12, 2001 (1Week)
4. Place: Tsukuba International Convention Center (Epochal Tsukuba)  
Tsukuba, IBARAKI, JAPAN
5. Participants: 350 persons (150 foreign attendants included, only estimation)
6. Sponsorship
  - Sponsored and Organized by  
Japan Atomic Energy Research Institute (JAERI)
  - Co-sponsored by  
OECD/NEA NSC  
Atomic Energy Society of JAPAN (AESJ)
  - • • Co-operating Organizations:  
International Atomic Energy Agency (IAEA)  
Japan Nuclear Cycle Development Institute (JNC)  
Central Research Institute of Electric Power Industry (CRIEPI)  
Research Organization for Information Science and Technology (RIST)  
The JAPAN Electric Manufacturers Association (JEMA)
  - Supporting Organizations:  
JAPAN Atomic Industrial Forum (JAIF)  
Science Council of Japan (SCJ)  
The Physics Society of Japan (JPS)
  - • • • The Institute of Physical and Chemical Research (RIKEN)  
National Institute of Radiological Sciences (NIRS)  
High Energy Accelerator Research Organization (KEK)  
KOREAN Nuclear Society (KNS)  
CHINESE Nuclear Society (CNS)
7. Structure of Conference Organizations:
  - Organizing Committee (OC):  
General Chairman: Dr. Shinzo SAITO (JAERI Vice President)  
Top board of conference operation
  - Planning and Coordination Committee (PCC):  
Coordination of sections in JAERI and outside of JAERI (university/industry)  
Chair: Dr. Masaaki OCHIAI (JAERI, Department Head of Nuclear Energy System)
  - Local Technical Program Committee (LPC):  
Chair: Prof. Masayuki IGASHIRA (TAITEC, JAPAN)  
Making up conference program and selection of papers
  - International Advisory Committee: (IAC) Chair: Dr. Shinzo SAITO  
Making advices to the conference board on the direction and operation  
of the conference
  - International Technical Program Committee: (IPC) Chair: Prof. Masayuki IGASHIRA

Making up conference program and selection of papers with the cooperation of Local Technical Program Committee

- Conference Secretariat  
JAERI Nuclear Data Center (Dr. A. Hasegawa)
  
- Correspondence (Contact):  
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Home Page: <http://wwwndc.tokai.jaeri.go.jp/nd2001/>

## 8. Conference Topics

1. Nuclear Reaction Data and Evaluated Data Libraries
  - - Neutron and charged particle reaction cross sections, photonuclear cross sections, thermal scattering law, covariance data, fission yields, measurements, evaluation, evaluation methodology, status of major libraries, etc.
2. Nuclear Structure and Decay Data
  - Nuclear levels, masses, deformations, giant resonances, decay data, measurements, evaluated data libraries
3. Nuclear Data relevant to Astrophysics and Frontier Nuclear Physics
  - - Data for understanding of nucleosynthesis and star evolutions, neutrino reaction rates, EOS of hadronic and quark matter, cosmic rays, radioisotope beams, hypernuclei, neutron-rich nuclei, super-heavy nuclei, QGP, symmetry violation, etc.
4. Experimental Facilities and Methods
  - New facilities, future plans, equipment, measurements, techniques, requests for measurements
5. Basic Nuclear Theories relevant to Data Evaluation
  - Nuclear reaction and structure theories, model input parameters code developments
6. Processing, Testing and Verification & Validation of Evaluated Data
  - Processing, methodology, processed libraries, application codes (transport codes, Monte-Carlo codes, deterministic codes), benchmarks, integral tests, sensitivity analysis, verification & validation, quality assurance
7. Applications to Fission Technology
8. Applications to Fusion Technology
9. Applications to Accelerator Technology including Accelerator-Driven Systems
  - In Topics 7-9, included are impacts for the performances in each technology and data needs for design, shielding, high burnup, burnup credit, waste management and disposal, innovative recycling systems, transmutation technology, dosimetry, irradiation analysis,

- nuclear data adjustment, cold neutrons, etc.
- 10. Medical, Environmental, Industrial, Space Technology and Other Applications
  - Diagnosis, therapeutics, radio pharmaceuticals, radioisotope production, radiation damage in semiconductors, radiation dose in space craft and air craft, single event up-set for semiconductors, activation analysis, surveillance, inspection, well logging, desulfurization, biotechnology, X- and gamma-ray lasers, bulk media assay, etc.
- 11. Standards and Dosimetry
  - Standard cross sections, dosimetry cross sections, X-ray standard, gamma-ray standard, etc.
- 12. Nuclear Safety and Nuclear Data
  - Regulation, safety guides, standards, non-proliferation, handbook, etc.
- 13. Data Dissemination and International Collaborations
  - User friendly data supply, PC-based codes, CD-ROM, WWW-sites, nuclear charts, data center activities, etc.

#### 9. Session Structure (Tentative)

The session arrangement is considered assuming there will be 600 presentations including about 180 oral presentations (invited:50, contributed:130, and Poster:420). One large hall(Opening & Closing Sessions), two large meeting room (Poster sessions) and three medium ones (Parallel sessions) have been reserved. Initially we estimated total of 300 presentations including invited talks.

#### Tentative Schedule

Plenary Session: Opening (Monday morning) and Closing (Friday afternoon) Sessions  
 Number of parallel sessions: up to three  
 Poster Sessions: 4 Poster sessions (90 min. session) are considered.  
 An oral presentation: 20 min. including discussion time.  
 An invited talk: 30 min. including discussion time.

Oct. 7 (Sun): Late afternoon and evening, Registration and welcome cocktail.

First day(Mon.): Opening Plenary Session: Morning

Welcome address (10min.)

Honorary talk (20min.)

Keynote talk for historical and prospective issues

Special invited talks for major area, reviewing current research activities and their future

Oral sessions: Afternoon (assuming three parallel sessions) (x12)

Poster Session: Afternoon (x100)

Reception: Evening (Evening: Every body invited)

Second day(Tu.): Oral Session: Morning (x24)

Poster Session: Afternoon (x100)

Oral Session: Afternoon (x21)

Third day(Wed.): Oral Session: Morning (x24)

Poster Session: Afternoon (x100)

Oral Session: Afternoon (x21)

Technical Tour for Tsukuba Region: Afternoon (Cancelled)

Fourth day(Th.): Oral Session: Morning (x24)

Poster Session: Afternoon (x100)  
Oral Session: Afternoon (x21)  
Banquet (Evening: Pre-registration required)

Fifth day(Fri.): Oral Session: Morning (x24)  
Closing Plenary Session: Afternoon

In the morning of each day before starting sessions, we will have a meeting for chairpersons over breakfast.

Total oral sessions: 36

27 (90/100min. (I1+C3)/(I2+C2) )  
9 (160/170min. (I2+C5)/(I3+C4))

Total Poster sessions 4 (90min. C100)

where I: Invited C: Contributed Number: number of presentations

#### 10. Technical Tour

Initially we planned a technical tour in one afternoon of the middle of the conference. For a tentative visiting candidate we are expecting High Energy Accelerator Research Center(KEK). **We had huge number of abstracts, however, we had to cancel the original plan to save the time. We decided the saved time is assigned to oral presentations and one additional poster session.**

#### 11. Satellite Meeting

As there will be several small rooms available for satellite meeting if anybody wishes, please inform the secretary in advance to the conference.

#### 12. Submission of Paper

Abstracts with 3-500 words (within one page of A4 size) was requested to be sent by the 20th of December, 2000. This dead line was extended to 10<sup>th</sup> January 2001 officially. The acceptance of paper shall be notified by the end of March 2001. A full paper of 4 pages (for invited papers 6 pages) should be sent to Program Secretary by the end of August 2001. Manuscripts of both abstract and paper should be sent via WWW of our conference homepage or an electric form with attached text files so that all procedures followed could be smooth and efficient.

**We had received more than 600 abstracts of contributed papers.**

#### 13. Paper Review

The International Technical Program Committee and Local Technical Program Committee are responsible to review submitted paper and provide its decision for acceptance of the paper.

Paper review was made using the full advantage of WWW home page mechanism.

**We held a paper selection meeting of LPC for ND2001 on 8<sup>th</sup> March 2001 in Tokyo Japan; this meeting was also opened for IAC & IPC members (One members is joined from USA.). Total of 46 members were gathered and they decided papers to be selected as oral or poster sessions for the conference based on the review results submitted from each reviewers. Total of 105 reviewers are worked for 600 contributed papers. Three persons including different country reviewers are assigned for each paper, therefore total of 1800 papers are read by reviewers The review was made based on the guideline set by IPC and LPC.**

**As a result, we selected out of 601 contributed papers;**

**oral presentation 118**

**poster presentation 391**

**rejected (mainly out of scope) 43**

merge the papers 47.  
i.e., total number of accepted contributed papers are 509 out of 601 submitted. About 15% papers are dropped/merged.

14. Proceedings

At the conference, participants will receive a booklet of abstracts of the presentations. Also, a publication of the proceedings as a **supplement** of the Journal of **Nuclear Science and Technology (JNST)** is made. After peer review of papers, the procedure of which will be fixed within International Technical Program Committee, all papers could be issued.

15. Registration, Social Activities

All information including procedures for registration, paper submission, etc. are to be available in the conference official WWW homepage (<http://www.ndc.tokai.jaeri.go.jp/nd2001/>) Detailed information is to be announced in the Third Circular around April 2000. Registration fee will be 50,000 yen (45,000yen for early registration, 20,000yen for students). Bank accounts for ND2001 will be prepared and it is to be informed in the third circular. Several optional tours including ladies program are planned during the conference period.

16. Transportation, Access, Hotel Accommodation

There is a direct limousine bus service available from Narita International Airport to Tsukuba. There are many direct bus connections between Tokyo and Tsukuba. Combination of Railroad trains and bus-connections are also available from Tokyo to Tsukuba.

The conference place is near by the center of Tsukuba city, just walking distance. There are many hotels around the conference place with various categories. Further information will be distributed in the third announcement. There are many spots to visit for sightseeing, and entertainment around Tsukuba area.

17. Calendar of Conference & Deadlines

First Announcement: Notification of Conference	Mar. 2000
International Advisory Committee Meeting:	June 19, 2000
Second Announcement: Call For Papers	July 2000
Deadline for abstracts submission:	December 20, 2000
Notification to authors:	March 31, 2001
Third Announcement: Registration of Conference	April. 2001
Full Paper Due (Camera-ready):	August 31, 2001
Conference	October 7-12, 2001

18. Keynote and Invited talks

Since April 2000 we are calling for the nomination of Keynote and invited talks over IAC, IPC and LPC members. Rough structure was decided at the IAC + IPC meeting held last June in Tokai. Key note speakers are mostly fixed at that meeting. We made a tentative list for invited talks gathered and assembled all nominations sent to the secretariat at that moment and distributed it to all Committee Members of ND2001 to collect the comments. In middle of November, subgroup of each topics category in LPC are set up and draft making work for invited talks based on the comments are started. The tentative list thus decided is distributed for the review in IPC at the middle of December 2000. Some adjustment was made after that and final list is fixed. After sending invitation letter for the keynote and invited talk, 4 key note and 54 invited talks are decided.

Keynote Talk

Dr. M. Salvatores (CEA France; New Energy Systems)  
Dr. M. Smith (ORNL U.S.A.; Astrophysics)  
Dr. Y. Ikeda (JAERI Japan; Accelerator-Driven Systems)  
Dr. T. Fuketa (Japan, Nuclear Data and Human Society)

## International Advisory Committee

S. Saito(Chair)	JAERI,Japan
A. dos Santos	IPEN, Brazil
J.W. Boldman	Lucas Height, Australia
H.Vonach	IRK Vienna, Austria
H.Weigmann	IRMM Geel, Belgium
Liu Tinjin	CNDC, China
M.Salvatores	CEA Cadarache, France
S.M.Qaim	KFA Jülich, Germany
G.L. Molnar	CRC Budapest, Hungary
A. Ventura	ENEA Bologna, Italy
A. Hasegawa	JAERI Tokai, Japan
M. Nakazawa	U. of Tokyo, Japan
T.Yoshida	Musashi IT, Japan
J. Chang	KAERI, Korea
A.Ignatyuk	IPPE Obninsk, Russia
W. Furman	JINR, Dubuna, Russia
A. Cowley	Stellenbosh Univ., Cape town, South Africa
H. Condé	Univ. Uppsala, Sweden
K. Bhadrakom	OAEP, Thailand
P.E.Hodgson	Oxford University, UK
C.L.Dunford	NNDC, USA
P.G.Young	LANL Las Alamos, USA
R.A. Meyer	DOE, USA
V.H. Tan	Vetnam Atomic Energy Commission, Vietnam
D.W.Muir	IAEA/NDS, Austria
C.Nordborg	NEA Databank, France

## International Technical Program Committee

M.Igashira(Chair)	TIT, Japan
G. Audi	AMDC, France
O. Bersillon	CEA, France
A. D. Carlson	NIST, USA
M. B. Chadwick	LANL, USA
E.T. Cheng	TSI Research Inc, USA
J. Csikai	Univ. of Debrecen, Hungary
P.M. DeLuca	Wisconsin Univ., USA
F. S. Dietrich	LLNL, USA
A. Fasso	SLAC, USA
P. J. Finck	ANL, USA
F. Fröhner	Karlsruhe, Germany
B. V. Fursov	IPPE, Russia
W. Gudowski	RIT, Sweden
R. C. Haight	LANL, USA
R. Jacqmin	CEA, France
F. Käppeler	Karlsruhe, Germany
A. J. Koning	ECN, The Netherland
L. C. Leal	ORNL, USA
D. G. Madland	LANL, USA
V.N. Manokhin	IPPE, Russia
R. D. McKnight	ANL, USA
E. Menapace	ENEA, Italy
R. Michel	Univ. Hanover, Germany
E. Norman	LBNL, USA
A. Nouri	OECD/NEA,France
P. Oblozinsky	IAEA, Austria
N. Olsson	Uppsala, Sweden
P.N. Pavlopoulos	CERN, Switzerland
Y. P. Popov	Dubna, Russia
S. Raman	ORNL, USA
E. Sartori	NEA, France
H. Schuhmacher	PTB, Germany
Y. N. Shubin	IPPE, Russia
D.L. Smith	ANL, USA
G. R. Stevenson	CERN, Switzerland
H. Weigmann	IRMM, Belgium
B. Yu	CNDC, China
Y. Ikeda	JAERI, Japan
M. Kawai	KEK, Japan
H. Takano	JAERI, Japan
S. Chiba	JAERI, Japan
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