

Conclusions and Actions of the 2005 NRDC Meeting

Conclusions

- C1 The **next NRDC meeting** will be a full meeting (centre heads and technical staff) and will be held in Vienna during 4 days in September or October 2006. *(Note added by editor: after the meeting, the date was set to 25 – 28 September 2006).*

CINDA

- C2 NDS will maintain also a **common CINDA master file**
- C3 NDS will from now on **convert** all received EXFOR TRANS file to a **CINDA** file and update CINDA with it and send it to the originating centre
- C4 The revised **CINDA Manual**, as submitted by NEA-DB and revised at this meeting, is approved.

Common EXFOR/CINDA dictionaries

- C5 The **reformed dictionaries** as described in memos CP-D/438-440 are accepted.
- C6 On request, the **dictionaries** are available from NDS also in **database** form.

EXFOR, general

- C7 **Compilation scope:** Data measured in **inverse kinematics**, which would be in the category of obligatory compilation if target and projectile were exchanged, must be compiled also (i.e. are added to the list of obligatory compilation, category “A”).
- C8 **Compilation responsibilities:** **ATOMKI** will also be in charge of experiments in cooperation with **Free Univ. Brussels**, Cyclotron Department (EXFOR code 2BLGVUB)
- C9 **Compilation responsibilities:** Add “**Photonuclear Data** under coordination of CDFE” to UkrNDC and NNDC

- C10 The clarification of **compilation responsibilities** as given in WP 2005-10 is adopted
- C11 For all compilations of new literature, an **author proof** copy should be sent, and the approval, or “no reply to author proof”, should be included under STATUS.
- C12 The meeting took note of the release of the **common EXFOR master file** as of 1 July 2005. Any special operations on the master file, outside the normal TRANS operations, if at all necessary, must be communicated to the NRDC via memos.

EXFOR, technical

- C13 The coding of **isotopic abundances** (proposed at the 2004 NRDC meeting) is **not** followed up for the time being, until the need is demonstrated.
- C14 **Wildcards in SF7 for Dict. 236** are now acceptable to all. Details of implementation will be agreed (see Action A27)
- C15 Extension of **multiple reactions** is accepted as proposed in WP 2005-26: *Components of a vector or tensor polarization quantity* will be added to the list of allowed cases in LEXFOR.
- C16 The **new headings and units** proposed in WP 2005-27 are approved: POL-BM-MIN, POL-MB-MAX, +ERR-SYS, -ERR-SYS (Dictionary 24); PB (picobarn), FB (femtobarn) (Dictionary 25)
- C17 **Neutron multiplicity** from fission will be coded with NU for **all** projectiles
- C18 **Total kinetic energy distribution** will be coded with connecting the particles in SF7 with +, e.g. ,DE,LF+HF
- C19 Quantities PR,NU/DE,FF and PR,NU/DE,A should have dimension FY because they are not differential by energy (they are dependent on secondary energy but not differential). Also the units in the affected entries (PT/FIS/MEV) must be corrected.
- C20 The proposal on storage of **covariance files** is accepted (WP 2005-25). Retrieval interfaces at the centres will be developed as need arises.

Software

- C21 V. Zerkin is encouraged to proceed with the concept of “**Projects**” in CINDA (WP 2005-21). This item will be reconsidered at the next meeting. (*See also Action A31.*)
- C22 The meeting notes that all **digitizing software packages** recently compared by the centres (WP 2005-24) give satisfactory results, and that the major source of discrepancies is the “human factor”. (*See also Action A32.*)
- C23 The meeting encourages steps to improve **cooperation in software development**, beginning with the Exfor editor (Sarov + NDS). Centres are encouraged to inform each other about software developments where cooperation is possible and/or desirable.

Recommendation

Compilations with serious formal and/or physics mistakes are increasingly being transmitted to the network coordinator. As a consequence of this increasing number of errors over the previous 12 months, further considerable time and effort has to be spent by the coordinating centre, and other network centres, checking these entries, pointing out mistakes, and requesting corrections before these compilations can be added to the EXFOR database.

Therefore, the meeting recommends that all centres ensure that their EXFOR compilers are able to spend the necessary time to understand both the essentials of the article and the relevant EXFOR procedures, so that they are able to produce good quality initial compilations for the EXFOR database.

Actions

General

- A1 All (Continuing) All recognized **policy papers** for consideration by the NRDC members need to be prepared and distributed four weeks before the Annual NRDC meeting. This will ensure adequate thought and discussion prior to the meeting.
- A2 All (Continuing) Review the **Citation Guidelines** (2004 version from NRDC internal webpage) and send updates to NDS.
- A3 All Update **CP memo distribution** with A.Mengoni@iaea.org (new), yolee@kaeri.re.kr (Lee Young-Ouk, new), katakura.junichi@jaea.go.jp

CINDA

- A4 CNDC (Continuing) Compile **all Chinese experimental works** (journals and conference proceedings) for CINDA and send to NDS in Reader format.
- A5 CINDA centers (Continuing) When coming across **report codes in dictionary 6** which differ significantly from what is shown on the cover, submit additional explanation to NDS for inclusion in dictionary 6
- A6 NNDC, NEA-DB, CJD (Continuing) Check and confirm/clarify report codes given in WP 2003-8, Sections 4 and 5, by end of 2005
- A7 CINDA centers (Continuing) Correct **errors in report coding**, as listed in Sections 6 and 7 of WP 2003-8
- A8 CINDA centers except NNDC (Continuing) Search for **illegal experimental entries for MANY** and replace them with individual entries, and for the many illegal entries for **FPROD** which may be used only for lumped fission products. (MANY is allowed only for evaluated and theoretical data)
- A9 Henriksson, Zerkin Clarify differences in the converted **area 2 CINDA file** by 14 November

- A10 Henriksson Communicate to other centres the information needed for the **introductory pages** for the CINDA book
- A11 all reply to above Action A10
- A12 Henriksson keep others informed about developments on **CINDA book**

Common EXFOR/CINDA dictionaries

- A13 Zerkin Prepare the **dictionary** system for distribution in form of **relational database**

EXFOR, general

- A14 NDS Develop an **external flagging** system to indicate which data sets were **adopted by evaluators**
- A15 CNDC Provide to NDS list of 10 **most important Chinese journals** relevant to nuclear data, emphasizing in particular journals published in Chinese language
- A16 All (Continuing) Check/retransmit those entries from the list of **pending retransmissions** (distributed by McLane at the 2001 NRDC meeting) which still need correction
- A17 NDS Redistribute this list
- A18 All (Continuing) All centers should give high priority to compiling **new publications**
- A19 Nichols (Continuing) Communicate with **major journals** concerning **data transfer** to the network for inclusion in EXFOR.
- A20 All Follow the procedures described in WP 2005-30 for **journal coverage**. Instead of the reaction code, it is sufficient to give data type (neutron, charged particle, photonuclear) and priority (A = obligatory, B = voluntary)
- A21 All Follow the procedures described in WP 2005-31 for compilation of **new publications** (but without including the e-mail address, para. 4)

- A22 Schwerer (Continuing) Review the EXFOR **Basics Manual** and submit revision when time permits. Also include the “C4” computational format.
- A23 All On the proposal of WP 2005-14: store locally pdf versions of **EXFOR relevant articles** and discuss within the centers what part of it can be shared with a central archive kept at NDS
- A24 All Go through WP 2005-15 and retransmit the **corrections** asap

EXFOR, technical

- A25 Otsuka Research the usage of quantity codes **AKE** and **KE** in EXFOR and come up with a proposal for consistent dictionary entries.
- A26 Otsuka Submit summary on **tensor polarization data** as a memo to remove inconsistencies in dictionary expansions
- A27 NDS Formulate detailed proposal for introducing **wild cards** in Dict.236 for SF7
- A28 NDS (Continuing) Check whether there is a LEXFOR entry on the process code FUS (**total fusion**, Dictionary 30); if not, provide such an entry.

Software

- A29 Sarov, NDS Distribute beta-version of **EXFOR editor** to interested centers for review, and continue development in cooperation with Zerkin/NDS.
- A30 Zerkin + NNDC Look into possibility of using the “human readable EXFOR” format (being developed) also for a **data uploading facility** for authors.
- A31 All Give feedback to NDS on the proposal of WP 2005-21 (concept of **Project** in CINDA)
- A32 All centres producing digitizing software Consider making the **digitizing software** (including documentation) available to the network

Services

- A33 All Consider the proposal of NNDC (WP 2005-7) to publish the **state of knowledge on 1-2 nuclides** and express opinions and proposals on it to NNDC and NDS by the end of 2005.