

§1. NIFS Fusion Science Archives Database and Studies on the Problems Related to Its Disclosure

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NIFS Fusion Science Archives Database

Archival activities were continued during FY 2005. Much effort was made on registering the stored materials into NIFS Fusion Science Archives Database. By the end of FY 2005 the total number of registered materials amounted to more than 15,000. Table I shows the tags (fields) of the database.

Table I. Fields of Database

| No. | Item | Description |
|-----|-----------------------------------|---|
| 1 | Date registered | Date the material is registered in the database |
| 2 | Date checked | Date the material in the box is identified |
| 3 | ID number | 5-digit number for each item; first three figures for the box-number and the rest for item identification |
| 4 | Date arranged | Date the material is put in the box |
| 5 | Document source | Person who offered the material |
| 6 | Title of the document | As remained on original material |
| 7 | Subtitle | As necessary |
| 8 | Year | 19xx, 19xx-19xx |
| 9 | Brief description of the contents | Materials in detail |
| 10 | Author or organization | Document writer, letter sender, publisher |
| 11 | Date of issue | Date the material is issued, written |
| 12 | Appearance or form | Book, pamphlet, envelope, file, notebook, album |
| 13 | Box number | Box number in three figures: Bxxx |
| 14 | Reference ID No. | As necessary |
| 15 | Keyword 1 Organization | Author, publisher |
| 16 | Keyword 2 Classification | Scientific paper, meeting record, comment, news comment, letter, proposal, recommendation |
| 17 | Keyword 3 Committee | Name of committee, conference, study group |
| 18 | Keyword 4 Field or purpose | Research system, international collaboration, education, administration |
| 19 | Keyword 5 Research field | Plasma physics, reactor engineering, heating etc. |
| 20 | Keyword 6 Other information | As necessary |
| 21 | Remarks | |

Features of the database:

- Each ID number, 033-03-01, for example, corresponds to the document stored in an envelope.
- Several documents are kept in a cardboard box; each box has its own box number: B033, for example.

- FileMaker Pro is used as database management system.
- Catalogue of registered documents will be available through INTERNET in the near future. Preparatory work to make the documents open to the public was performed and a preliminary version is now available from NIFS Homepage.
- In order to provide us with more convenient electronic finding aid, *Encoded Archives Description* (EAD) that is an international standard will be adopted. For this purpose, intensive collaboration with Sokendai, National Institute of Japanese Literature and KEK is now under way. It has been recognized that the database constructed on the basis of FileMaker Pro is easy to convert to EAD and is available online in XML data format.

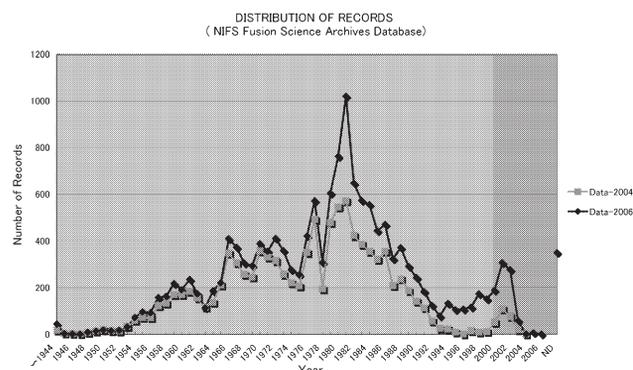


Fig. 1. Temporal distribution of registered documents

Some features of the registered documents:

- Temporal fluctuations are observed, being coincident with establishment of institutions or initiation of big projects. The reason why the number of the records around 1980 is at its maximum is that there have been a lot of events, such as deliberation on R-project, JT-60 operation and SCJ (Science Council of Japan) reformation (Fig. 1).
- Decrease in the number of recent records, especially after 1995.
- Sources are localized, being highly dependent on the contribution from individuals.
- Documents obtained through INTERNET are gradually increasing.

Problems related to information disclosure

We are planning to offer the documents and records collected and registered in NIFS Fusion Science Archives for public perusal. However some of them are inappropriate for disclosure to the public from the view point of protection of the personal data. An appropriate guideline for information disclosure is required. To establish the guideline we have surveyed the regulations for information disclosure at other organizations, such as National Archives of Japan and some universities. Those will be useful to establish the disclosure criteria on NIFS Fusion Science Archives.