

Information Network System

Yuji ISHIHARA

The following Network System has been developed during the year 1996:

1. · Improvement and maintenance of the SPring-8 Computer Network,
· Support of other research divisions by providing computing information and relevant software.

(These can be defined as the SPring-8 Information Network System in a narrow sense).

2. · Establishment of a SPring-8 Library

Both activities are described below.

1. SPring-8 Information Network System

i) Establishment of a prototype data base system, SPring-8 Data Search System, of publications:

Following examination of a basic structure of the data base for retrieving the various materials such as academic papers, progress reports and the operations manual, the prototype data base system, has been established.

In the data base system, literature will be roughly categorized into two categories, REPORTs such as scholarly papers and MEMOs such as the operations manual. DTD files were installed, in order to convert into HTML in the future.

At present the data base system is a preliminary version, access to this database system is limited to SPring-8 site users. After installation of necessary improvement systems such as the high-speed retrieval engine, it will be open to outside users.

ii) The SPring-8 Homepage on the WWW. (<http://www.spring8.or.jp/>):

Introduction of Beamlines and various components of the accelerator, location of the

SPring-8 site and maps were newly added to the SPring-8 home page. More information on SPring-8 will be displayed on the Homepage in the near future.

iii) Information Support Center:

Nowadays, information networks have been developed and the computerization of research environments also evolves rapidly. Digital libraries and various open data base systems become essential for effective research activities, and scientists reference to these materials is increasing. In the flow of such computerization and fulfillment of the mission of SPring-8 as one of the worlds most advanced research facilities, SPring-8 encourages the provision of valuable information and research results to domestic and overseas individuals or groups through the SPring-8 Information Network System. The Building of the Information Support Center is currently being planned to meet numerous needs, and its basic concept has been designed.

iv) Others:

Software necessary for SPring-8 users such as the conference room reservation system in SPring-8, was written. Users can access it through the SPring-8 Network System.

2. SPring-8 Library

The SPring-8 Library is currently under development. The following publications were issued in 1996.

- 1) SPring-8 Information (vol.1, No.1- No.4)
- 2) SPring-8 Users Guide
(SPring-8 OPSRR 1996-0001)
- 3) SPring-8 Beamline HandBook
(SPring-8 OPSRR 1996-0002)
- 4) SPring-8 Insertion Device HandBook
(SPring-8 OPSRR 1996-0003)
- 5) SPring-8 Annual Report 1995

(1)~(4) have been published in Japanese and the English editions of (3) and (4) are being prepared at present.