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U.S. Department of Energy  
Chernobyl Accident Bibliography

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DISTRICT OF COLUMBIA

*JK*  
**MASTER**

## SUMMARY

This bibliography has been prepared by Pacific Northwest Laboratory (PNL) for the U.S. Department of Energy (DOE) Office of Health and Environmental Research to provide bibliographic information in a usable format for research studies relating to the Chernobyl nuclear accident that occurred in the Ukrainian Republic, USSR in 1986. This report is a product of the Chernobyl Database Management project. The purpose of this project is to produce and maintain an information system that is the official United States repository for information related to the accident.

Two related products prepared for this project are the Chernobyl Bibliographic Search System (*ChernoLit*<sup>™</sup>) and the Chernobyl Radiological Measurements Information System (*ChernoDat*).

*ChernoLit*<sup>™</sup> (Carr, Kennedy, and Mahaffey, 1992) is a personal-computer-based software package that allows the user to interactively search the bibliographic information presented in this report as well as abstracts. The user may view references interactively or direct references reports to a

printer or file. *ChernoLit*<sup>™</sup> provides a cost-effective alternative to multiple, independent literature searches. It is available to United States Government agencies and Government contractors under a limited Government license and to non-Government organizations through license agreements with Battelle Memorial Institute.

The Chernobyl Radiological Measurements Information System (*ChernoDat*) will soon be available. Data in *ChernoDat* are organized into a central database, containing data in a standardized record format, with multiple satellite databases containing the data in their original record formats. *ChernoDat* allows the user to browse, query, and export the radiological data from both the central and satellite databases.

This report supersedes the original release of *Chernobyl Bibliography* (Carr and Mahaffey, 1989). The original report included about 2200 references. Over 4500 references and an index of authors and editors are included in this report.

## ACKNOWLEDGMENTS

The authors wish to thank contributors from organizations throughout the world for providing information for the U.S. Department of Energy Chernobyl Database. Information has been received from organization and/or individuals in Algeria, Austria, Australia, Belgium, Brazil, Bulgaria, Canada, Czechoslovakia, Denmark, Finland, France, Federal Republic of Germany, Guatemala, Hungary, Ireland, Italy, Japan, Mali, Netherlands, Norway, Panama, People's Republic of China, Portugal, Romania, Scotland, Spain, Sweden, Switzerland, Syria, Turkey, United Kingdom, United States, USSR, Uruguay, Yugoslavia, and Zimbabwe.

We also wish to thank Chuck Watson for peer reviewing this report and Nick Carter for assisting with the DIALOG® literature searches and providing useful information.

Although the contributions of these individuals and organizations are much appreciated, the authors

take sole responsibility for the accuracy and quality of this report.

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## INTRODUCTION

On April 26, 1986, an accident at the Chernobyl nuclear power plant in the former Ukrainian Republic of the USSR resulted in emissions of various radionuclides into the atmosphere. The accident gained immediate world-wide attention because of its magnitude and possible health and environmental consequences.

Initial studies of the accident were conducted under emergency conditions with primary attention directed toward characterizing the immediate potential hazard to the human population in various parts of the world. After the emergency passed, efforts have been redirected toward long-term research to investigate health and environmental consequences of the accident. Use of data collected during and after the emergency present a resource for evaluating historical risk, transport, and deposition models using extensive real-world data. Previously, these models were based on laboratory experiments, theoretical calculations, simulated accidents, and limited real data.

Thus, PNL was designed by the U.S. DOE as the official U.S. repository for information related to the Chernobyl accident and was chartered to generate products that facilitate research. This work has been funded by the U.S. DOE Office of Health and Environmental Research as the Chernobyl Database project. This bibliography is a product of that project. Related products are the Chernobyl Bibliographic Search System (*ChernoLit*<sup>™</sup>) (Carr, Kennedy, and Mahaffey, 1992) and the Chernobyl Radiological Measurements Information System (*ChernoDat*).

This report supersedes the original release of the PNL report titled *Chernobyl Bibliography* (Carr and Mahaffey, 1989). The original report included about 2200 references. Over 4500 references are included in this report. In addition, an author and editor index has been added to this revision. The information contained in this report was obtained from electronic literature searches and from

requested donations from individuals and organizations. This information was then entered into a database under the FoxPro<sup>™</sup> Relational Database Management System for maintenance and control. This bibliography has been extracted from that database.

The literature searches interrogated the *Energy Science and Technology* database (formerly *DOE Energy*) of the DIALOG Information Retrieval Service. *Energy Science and Technology*, provided by the U.S. DOE, Washington, D.C., is a multidisciplinary database containing references to the world's scientific and technical literature on energy. All unclassified information processed at the Technical Information Center of the U.S. DOE is included in *Energy Science and Technology* which corresponds in part to several abstract journals such as *Atomindex*, *Energy Research Abstracts*, *Energy Abstracts for Policy Analysis*, *Fusion Energy Update*, and *Radioactive Waste Update*. Approximately 50% of the records in *Energy Science and Technology* are not announced in these secondary source publications. Also, the Technical Information Center abstracts and indexes reports, journal literature, conferences, patents, books, theses, and engineering materials for inclusion into *Energy Science and Technology*.

In addition, information on many documents has been manually added to the FoxPro<sup>™</sup> database. Most of this information was obtained in response to requests for data sent to people and/or organization throughout the world. These individuals and organizations were identified and contacted under another task of the Chernobyl Database Management project. These requests were often answered with published reports. Replies have been received from Algeria, Austria, Australia, Belgium, Brazil, Bulgaria, Canada, Czechoslovakia, Denmark, Finland, France, Federal Republic of Germany, Guatemala, Hungary, Ireland, Italy, Japan, Mali, Netherlands, Norway, Panama, People's Republic of China, Portugal, Romania, Scotland, Spain, Sweden,

Switzerland, Syria, Turkey, United Kingdom, United States, USSR, Uruguay, Yugoslavia, and Zimbabwe.

Table 1 summarizes the distribution of references by source type. Table 2 shows the distribution of references by language. Some references are available in more than one language. All reference titles and abstracts are in English. The data contained in the database was obtained from electronic literature searches and from requested donations from individuals and organizations.

This bibliography is arranged alphabetically by lead author's name. When authors were not listed, editors are listed identified by (ed.) or (eds.) following the names. If neither authors or editors were listed in the author field of the database, the reference is listed under Anon. If provided, author affiliation is shown in parentheses immediately following the author names. The publication year of the reference is given next; followed by the name of the article, paper, or chapter; followed by the name of the journal, proceedings, or report. Additional information on the publisher or sponsoring organization may be included. Finally, the language of the reference, the *ChernoLit*<sup>™</sup> serial number, and the *Energy Science and Technology* accession number are shown in parentheses. See Figure 1 for example citation formats.

A significant effort was undertaken to increase the readability of the bibliographic references by the standardization of radionuclide specification. All

**Table 1. Distribution of References by Source Type**

Chapter	906
Book	343
Conference Literature	147
Dissertation	2
Abstract of Journal Article	16
Journal Article	1863
Chapter	410
Report	797
Miscellaneous	17

**Table 2. Distribution of References by Language**

Afrikaans	1
Arabic	1
Bulgarian	5
Chinese	49
Czech	40
Danish	9
Dutch	88
English	2726
Finnish	3
French	181
German	881
Greek	3
Hebrew	1
Hungarian	11
Italian	122
Japanese	101
Norwegian	24
Polish	6
Portuguese	6
Romanian	3
Russian	204
Serbo-Croat	18
Slovak	30
Spanish	6
Swedish	54
Ukrainian	1

references were changed to conform to either of the following specifications:

- The element name, followed by a hyphen (-), followed by the atomic number, (e.g., cesium-137).
- The element symbol, followed by a hyphen, followed by the atomic number, (e.g., Cs-137).

The *ChernoLit*<sup>™</sup> serial number may be used to access the corresponding reference in the *Chernobyl Bibliographic System (ChernoLit*<sup>™</sup>). *ChernoLit*<sup>™</sup> is a personal-computer-based software package that allows the user to interactively search the bibliographic information, including abstracts, as well as view and print references. *ChernoLit*<sup>™</sup> provides a cost-effective alternative to multiple, independent

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### **JOURNAL ARTICLE**

Author(s) (author affiliation). Date of publication. "Title of article." *Journal (abbreviated)*. Volume number (series or supplement number); page numbers. (Language, *ChernoLit*<sup>™</sup> serial number, *Energy, Science and Technology* accession number).

### **REPORT**

Author(s) (author affiliation). Date of publication. *Title*. Report number. Name of issuing organization, location of issuing organization. (Language, *ChernoLit*<sup>™</sup> serial number, *Energy, Science and Technology* accession number).

### **BOOK**

Author(s) (author affiliation). Date of publication. *Title*. Publisher (abbreviated), Place of publication. (Language, *ChernoLit*<sup>™</sup> serial number, *Energy, Science and Technology* accession number).

### **CHAPTER OF A BOOK**

Author(s) (author affiliation). Date of publication. "Chapter title" *Book title*, page numbers. Publisher (abbreviated), Place of publication. (Language, *ChernoLit*<sup>™</sup> serial number, *Energy, Science and Technology* accession number).

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Figure 1. Example Citation Formats

words, and phrases of interest. These search criteria may be logically compounded. The user may also specify which database fields are to be searched. The user may interactively view the references or may generate a report. Reports may be directed to the screen, to the default printer, or accumulated in a folder that is written to a disk file.

*ChernoLit*<sup>™</sup> will run on an IBM PS/2, AT, or fully-IBM-compatible computer configured with either a 5-1/4-inch or 3-1/2-inch high-density floppy disk drive and with 8 megabytes of free disk space. An operating system of DOS 3.3 or higher is required. A minimum of 425 kilobytes of available random access memory is necessary to run *ChernoLit*<sup>™</sup>. For

best performance, use of a mouse is recommended. If printed reports are desired, a printer must be available to the computer.

*ChernoLit*<sup>™</sup> has been implemented as a FoxPro<sup>™</sup> 2.0 run-time application consisting of pull-down menus, shortcut keys, text buttons, and dialog boxes as well as the bibliographic database. This stand-alone system is provided in compressed format on floppy disks. An automatic install procedure loads the application onto the user's computer. A version that executes on the Macintosh<sup>®</sup> computer will be available in the future.

*ChernoLit*<sup>™</sup> is available to United States Government agencies and Government contractors under a limited Government license. The Government contact is: Energy Science and Technology Software Center, P.O. Box 1020, Oak Ridge, TN 37831, FTS 626-2606 or (615) 576-2606.

*ChernoLit*<sup>™</sup> is available to non-Government organizations through license agreements with Battelle Memorial Institute. The non-Government contact is: Battelle Development Corporation, K7-02, Battelle, Pacific Northwest Laboratories, P.O. Box 999, Richland, WA 99352, (509) 375-6787.

A companion software package will soon be available that allows browsing of the radiological measurements collected in response to PNL requests subsequent to the Chernobyl accident. Data in *ChernoDat* are organized into a central database, containing data in a standardized record format, with multiple satellite databases containing the data in their original record formats. *ChernoDat* allows the user to browse, query, and export the radiological data from both the central and satellite databases. The browsing feature allows the user to toggle between data in the original record and a standardized record. The query feature allows the user to obtain a data subset and then export the subset to an ASCII file for analysis. This package provides the user with the option of viewing the original databases, the central repository, or summary statistics on the database content.



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