Microcomputing In Libraries: An Annotated Bibliography

Denise P. Dempsey

This bibliography was prepared to provide librarians with sources for obtaining information of a conceptual and practical nature about microcomputers. The organization of the citations reflects this intent. The first section includes sources which deal primarily with conceptual literature. The second section includes sources of information on general library applications with additional sources on microcomputers by types of library environments.

Computer Literacy

Glossaries, Dictionaries, and Handbooks

Lists some home and business applications for personal computers and explains the internal components of microcomputers as well as software considerations. Buyer’s guides to micros and their peripherals, appendices on stores, companies, and clubs, and a glossary are included.

Includes such features as see references, the ASCII code, tables of the powers of two, sixteen, and ten, and addition and multiplication tables of hexadecimal arithmetic.

Has both see and see also cross-references.

Although not limited to microcomputer terms, this glossary is intended for use by library professionals and staff.

This is a beginner’s guide to the microcomputer. Time and resource sharing, service and maintenance, special applications, and lists of resources are included.

Explains how computers work, describes the basic components of microcomputer systems, and discusses possible applications. Evaluative criteria for the purchase of a system and a glossary of over 200 terms are included.

1982 Fall/Winter—225

Covers the mechanics, applications, and selection of microcomputers. Chapters on specific manufacturers' systems, glossaries of terms and acronyms, and appendices of programming languages and computer companies are included.

**Serial Literature**


An illustrated coverage of the basic aspects of microcomputer use including why a library should use a micro, where it can be purchased, and its impact on library staff routines. Also discussed are the components of a microcomputer system and how data is processed on a micro.


A description of the small computer system and evaluative questions to consider before purchase.


The authors give some examples of microcomputer applications, describe the basic microcomputer system, point out some problems, and offer some suggestions for automation.


Outlines the characteristics of microcomputers and discusses the use of micros in library automation and as media.


An overview of the components, costs, functions, and acquisition of small computers, including a cost-benefit analysis, case study, and guidelines for determining the micro capacity needed.


An illustrated article describing the components of microcomputer systems, their programming, and their applications in libraries.
Library Applications

General


Some problems in library automation which are not resolved or are worsened by microcomputer technology are described.


A presentation of the prototype reference system REFLES. The data retrieval system stores factual information in an online microcomputer-based mode. Also included are speculations on future developments of the system.


The California Library Authority for Systems and Services announces a Radio Shack TRS-80 Model II based serials control system, CHECKMATE.


The pilot NEPHIS printed index simulator and its possible applications are discussed.


A survey of the current microcomputer technology and a prediction of its impact on library automation.


The authors list thirty-three applications of microcomputers and discuss the minimum system requirements and costs.


The impact of the microcomputer technology on the library community and possible library applications are presented.

The reasons for purchasing a microcomputer and some features to consider when choosing a micro are discussed.

A discussion of the technological advances in microprocessing, storage, and transmission and their impacts on library applications.

Bibliographic Retrieval Services announces the PDS/1 microcomputer system for building private data bases.

Top executives in information companies were asked to reply to the question of which new technology will have the greatest impact on libraries and to describe the library of 1985.

The events of the Ninth Midyear Meeting of the American Society for Information Science are related including presentations on microcomputers in the library and for the public.

The Pacific Northwest Bibliographic Center describes the various uses of the Apple II and Apple II Plus microcomputers in the Northwest.

Some areas in which potential microcomputer users will probably need guidance are explored.

A survey of the current microcomputer technology and a discussion of the various library functions that are open to automation. A list of abbreviations, a glossary, and a list of vendors are included.

Describes a computer program written for an APPLE PASCAL system which emulates a CRT terminal with additional features which enables the user to store search profiles or diskettes; permits automatic dial-up, automatic logon, printing search results, and saving search results on diskette.

A discussion of the use of microcomputers in libraries and information systems in light of the reduced costs and the new technology of microcomputers.

College and University Libraries

A description of the use of the Commodore PET microcomputer at Leith Nautical College in teaching students to program and in creating a periodicals database and an acquisitions file.

The University of Houston’s Physics Learning Center houses six microcomputers that are available to assist and to quiz students.

A description of the microcomputer-based book indexing system at the Children’s Media Data Bank, University of North Carolina at Greensboro.

The authors describe the use of a microcomputer in preparing a list of periodicals that are indexed by the Wilson indexes at the Children’s Media Data Bank, University of North Carolina at Greensboro.

Describes the implementation of an Apple II microcomputer circulation backup system at Emory University.

A Radio Shack TRS-80 III microcomputer has been placed in the Center for the Study of Rural Librarianship of the School of Library Science at Clarion State College to study microcomputer potential for small rural libraries.

Describes two experimental library microcomputer projects.

The authors describe the Videodisc Innovative Projects of the Center for Instructional Project Development of the Department of Instructional Media at Utah State University.
Public Libraries

A report on the circulation desk use of an Ohio Scientific C2-8PDF microcomputer in an Oregon Public library.

An outline of the Chicago Public Library's development of the Native American Directory for its Native American Information/Referral Center (NAIRC).

Four Radio Shack microcomputers have been placed in the Norman Public Library for public use.

Two Apple microcomputers have been placed in the Forsyth County Public Library in Winston-Salem for public use.

A description of the ComputerTown, USA computer literacy project at the Menlo Park Public Library, California.

Two Apple II microcomputers are being used at the Starkville Public Library in Mississippi to introduce children to computers.

The Clinton-Essex-Franklin Library System has purchased an Apple II for use by children and adults.

The Plattsburgh Public Library in the Clinton-Essex-Franklin Library System has acquired an Apple II Plus system in order to promote computer literacy among rural New York children.

School Libraries


230—North Carolina Libraries
A description of a library of teacher-developed and commercial computerized lessons located at the California School for the Deaf in Berkeley. Preservice and inservice teachers have access to the library, which serves as a regional center in a network of schools.


A listing of some educational applications for microcomputers in several different areas, including resource centers. A tabulation of the memory sizes and prices of some microcomputers that are currently available to education professionals is included.


A description of the Apple II microcomputer catalog in the Adams County school district, Denver, Colorado.


The successes and failures of receiving Apple II software for previewing for use in the Pontiac Township High School’s media center.


Raises some basic questions concerning microcomputers in education and touches on some social issues brought about by the new technology.


Examines the potential of microcomputers and videodiscs to improve educational materials and to achieve the ultimate goal of supplying the user with the information needed when it is needed.


A report on the meeting of the American Association of School Librarians that dealt with use of microcomputers and videodiscs in school media centers. Also included are guidelines for the selection of software and recommendations for the use of microcomputers.


Identifies several currently available microcomputer systems, sources of educational software, and future uses of microcomputers in libraries.


A discussion of the application, hardware, software, costs, and management of microcomputers in education.

1982 Fall/Winter—231

Discusses the use of microcomputers as instructional systems and as management tools.


The Mountain View Elementary School in Broomfield, Colorado uses an Apple II microcomputer and a Corvus 10 hard disc as its catalog.


The students of Coloma High School are taught to operate and program several different computer systems and to operate various types of peripherals.

**Special Libraries/Information Systems**


Examines some of the possible effects and applications of microcomputer technology in governmental libraries.


Discusses the use of microcomputers in and the requirements of researchers' personal information systems. A twenty-term glossary is also included.

A number of microcomputer applications has been described in the literature of librarianship that may be beneficial to all librarians. School librarians appear to be heavily involved in the use of microcomputers as tools that are supportive of the teaching-learning process. There appears to be more microcomputer systems and software available in the school library environments, also.

In summary, there appears to be a viable and sustained interest in the role that microcomputers can play in helping librarians in all types of library environments meet their respective service and operational objectives.
'Every day we receive compliments on the accessibility of serials in our libraries.'

What do Ruth Leinhoff of San Diego State University, Peter Williams, Gregoire of San Jacinto Junior College, Bill Manson of Calgary Public Library and Joyce Russell of E.R. Squibb & Sons have in common? All of their libraries successfully manage serials collections in a way that earns compliments from patrons—students, faculty and researchers.

Their secret? The most efficient way to keep periodicals immediately available without the problems caused by long absences of materials at binderies, torn pages or missing issues. The Microform Serials Management System from University Microfilms International.

UMI supplies both current and backfile periodicals in 35mm and 16mm microfilm, and microfiche. We can also help to design your microform reading room complete with lighting recommendations and a full line of quality microform equipment and accessories. We can profile your serials growth plan for the future, too. In short, everything you need to provide a comprehensive periodical collection that is easily accessible and a pleasure to use is available through UMI. But, the System doesn't end there. We also supply promotional posters and other support materials to help your patrons the benefits of your Serials Management System to patrons.

For complete information on how these and other librarians manage their serials and how you can get started on a Serials Management System of your own, please send in this coupon today or call toll free 1-800-521-3044.

University Microfilms International
University Microfilms International
300 North Zeeb Road
Ann Arbor, Michigan 48106

Please send me more information on the Microform Serials Management System.

NAME ________________________
TITLE ________________________
INSTITUTION/COMPANY ________________________
ADDRESS ________________________
CITY ________________________ ZIP CODE ______
TELEPHONE (area code) ______

NCL-4