UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

VOLKSWAGEN GROUP OF AMERICA, INC.,
Petitioner

v.

NEO WIRELESS, LLC,
Patent Owner

Case IPR2023-00086
U.S. Patent No. 10,833,908

DECLARATION OF SYLVIA HALL-ELLIS, PH.D.

I, Sylvia D. Hall-Ellis, Ph.D., declare as follows:

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert by Volkswagen Group of America, Inc. ("Petitioner"), who I am informed is Petitioner to this *inter partes* review (IPR) proceeding.

2. I have written this declaration at the request of the Petitioner to provide my expert opinion regarding the authenticity and public availability of several publications identified in Section V below. My declaration sets forth my opinions in detail and provides the basis for my opinions regarding the authenticity and public availability of these publications. If called to testify in the above-captioned matter, I will testify with regard to the opinions and bases set forth below.

3. I reserve the right to supplement or amend my opinions, and bases for them, in response to any additional evidence, testimony, discovery, argument, and/or other additional information that may be provided to me after the date of this declaration.

4. I am being compensated for my time spent working on this matter at my normal consulting rate of $325 per hour, plus reimbursement for any additional reasonable expenses. My compensation is not in any way tied to the content of this report, the substance of my opinions, or the outcome of this proceeding. I have no

other interests in this proceeding or with any of the parties.

5. All of the materials that I considered and relied upon are discussed explicitly in this declaration.

II. QUALIFICATIONS

6. I am currently an Adjunct Professor in the School of Information at San José State University in San José, California. I obtained a Master of Library Science from the University of North Texas in 1972 and a Ph.D. in Library and Information Science from the University of Pittsburgh in 1985. Over the last fifty years, I have held various positions in the field of library and information resources. I was first employed as a librarian in 1966 and have been involved in the field of library sciences since, holding numerous positions.

7. I am a member of the American Library Association (ALA) and its Association for Library Collections & Technical Services (ALCTS) Division, and I served on the Committee on Cataloging: Resource and Description (which wrote the new cataloging rules) and as the chair of the Committee for Education and Training of Catalogers and the Competencies and Education for a Career in Cataloging Interest Group. I also served as the Chair of the ALCTS Division's Task Force on Competencies and Education for a Career in Cataloging. Additionally, I have served as the Chair for the ALA Office of Diversity's Committee on Diversity, as a member of the REFORMA National Board of

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Directors, as a member of the Editorial Board for the ALCTS premier cataloging journal, *Library Resources and Technical Services,* and as a Co-Chair of the Membership Committee for the Library Research Round Table (LRRT). Currently, I serve as a member of the LRRT Nominating Committee.

8. I have also given over one hundred presentations in the field, including several on library-cataloging systems and Machine-Readable Cataloging ("MARC") standards. My current research interests include library cataloging systems, metadata, and organization of electronic resources.

9. I have been deposed twenty-five times: (1) *Symantec Corp. vs. Finjan, Inc.,* Petition for *Inter Partes Review* of U.S. Patent No. 7,613,926, May 26, 2016, on behalf of Symantec Corp.; (2) *Symantec Corp. vs. Finjan, Inc.,* 4:14-cv-2998-HSG (N.D. Cal.), on behalf of Symantec Corp., September 14, 2017; (3) one deposition for ten matters: *Intellectual Ventures I LLC vs. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 12-193 (LPS); *Intellectual Ventures II LLC vs. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 13-1631 (LPS); *Intellectual Ventures I LLC vs. T-Mobile USA, Inc. and T-Mobile US, Inc.,* C.A. No. 13-1632 (LPS); *Intellectual Ventures II LLC vs. T-Mobile USA, Inc. and T-*

Mobile US, Inc., C.A. No. 13-1633 (LPS); *Intellectual Ventures I LLC, vs. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.,* C.A. No. 13-1634 (LPS); *Intellectual Ventures II LLC vs. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.,* C.A. No. 13-1635 (LPS); *Intellectual Ventures I LLC, vs. United States Cellular Corporation*, C.A. No. 13-1636 (LPS); *Intellectual Ventures I LLC vs. United States Cellular Corporation*, C.A. No. 13-1637 (LPS); *Intellectual Ventures II LLC vs. AT&T Mobility LLC*, *AT&T Mobility II LLC, New Cingular Wireless Services, Inc.,* C.A. No. 15-799 (LPS); *Intellectual Ventures I LLC vs. T-Mobile USA, Inc. and T-Mobile US, Inc.,* C.A. No. 15-800 (LPS), on behalf of AT&T Mobility LLC; AT&T Mobility II LLC, Boost Mobile, LLC Cricket Wireless LLC, Nextel Operations, Inc., New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Sprint Spectrum L.P., T-Mobile USA, Inc., T-Mobile US, Inc., United States Cellular Corporation Virgin Mobile USA, L.P., and Wayport, Inc., November 15, 2016; (4) *Hitachi Maxell, LTD., v. Top Victory Electronics (Taiwan) Co. Ltd., et al.,* 2:14-cv-1121 JRG-RSP (E.D. Tex.), on behalf of Top Victory Electronics (Taiwan) Co. Ltd*., et. al.,* January 20, 2016; (5) *Sprint Spectrum, L.P. vs. General Access Solutions, Ltd*., Petition for *Inter Partes Review* of U.S. Patent No. 7,173,916, IPR2017-01885, on behalf of Sprint Spectrum L.P., July 13, 2018; (6) *Nichia Corporation vs. Vizio, Inc*., 8:16-cv-00545, on

behalf of Vizio, Inc., October 12, 2018; (7) *Intellectual Ventures I LLC, vs. T-Mobile USA, Inc., T-Mobile US, Inc., Ericsson Inc., and Telefonaktiebolaget LM Ericsson*, 2:17-cv-00577 (JRG) (E.D. Tex), on behalf of T-Mobile USA, Inc., T-Mobile US, Inc., Ericsson Inc., and Telefonaktiebolaget LM Ericsson, October 19, 2018; (8) *Pfizer, Inc. vs. Biogen, Inc.*, Petition for *Inter Partes Review* of U.S. Patent No. 8,821,873, IPR2017-01168, on behalf of Pfizer, November 3, 2018; (9) Finjan, Inc. vs. ESET, LLC and ESET SPOL. S.R.O., 3:17-cv-00183-CAB-BGS (S.D. Cal), on behalf of ESET, January 15, 2019; (10) *Finjan, Inc. vs. Cisco Systems, Inc.,* 5:17-cv-00072-BLF-SVK (N.D. Cal), on behalf of Cisco Systems, Inc., September 6, 2019; (11) *Facebook, Inc., Instagram, LLC and Whatsapp Inc. vs. Blackberry Limited*, Petition for *Inter Partes Review* of U.S. Patent No. 9,349,120 B2, IPR2019-00706, on behalf of Facebook, Inc., Instagram, LLC and Whatsapp Inc. December 20, 2019; (12) *3Shape A/S and 3Shape Inc. v. Align Technology, Inc.,* Petition for *Inter Partes Review* of U.S. Patent No. 7,156,661, IPR2020-00222 and IPR2020-00223, August 10, 2020, on behalf of 3Shape A/S and 3Shape Inc.; (13) *Finjan Inc. v. Rapid7, Inc. and Rapid7 LLC*, 1:18-cv-01519-MN (D. Del.), September 15, 2020, on behalf of Rapid7 Inc. and Rapid7 LLC; (14) *VLSI Technology LLC v. Intel Corporation*, 6:19-cv-00254, 6:19-cv-00255, 6:19-cv-00256, (W.D. Tex.) September 23, 2020, on behalf of the Intel Corporation; (15) *Finjan Inc. v. SonicWall, Inc.*, 5:17-cv-04467-

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BLF-HRL (N.D. Cal.), October 27, 2020, on behalf of SonicWall, Inc.; (16) *VLSI Technology, LLC v. Intel Corporation*, 1:18-cv-00966-CFC-CJB (D. Del.), February 5, 2021, on behalf of the Intel Corporation; (17) *Unified Patents, LLC v. 2BCom, LLC*, Petition for *Inter Partes Review* of U. S. Patent 7,127,210, IPR2020-00996, February 11, 2021, on behalf of Unified Patents; (18) *Finjan, Inc. v. Qualsys Inc.*, 4:18-cv-07229-YGR (N.D. Cal.), March 1, 2021, on behalf of Qualsys, Inc.; (19) *Qualcomm, Inc. v. Monterey Research LLC*, Petition for *Inter Partes Review* of U. S. Patent 6,534,805, IPR2020-01491, May 6, 2021, on behalf of Qualcomm, Inc.; (20) *Hulu, LLC v. Sound View Innovations, LLC*, Petition for *Inter Partes Review* of U. S. Patent 5,806,062, IPR2018-01039, May 14, 2021, on behalf of Hulu, LLC; (21) *VLSI Technology LLC v. Intel Corporation*, 6:19-cv-00254, 6:19-cv-00255 and 6:19-cv-00256, (W.D. Tex.) August 3, 2021, on behalf of Intel Corporation; (22) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes Review* of U. S. Patent 10,716,793 B2, IPR2021-00406, October 20, 2021, on behalf of Liquidia Technologies, Inc.; (23) *EcoFactor, Inc. v. Google, Inc.*, 6:20-cv-00075 (ADA), 6:20-0078-ADA, and 6:20-cv-00080 ADA, (W.D. Tex.), October 27, 2021, on behalf of Google, Inc.; (24) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes Review* of U. S. Patent 10,716,793 B2, IPR2021-00406, March 11, 2022, on behalf of Liquidia Technologies, Inc.; and

(25) *Juniper Networks, Inc. v. Swarm Technology LLC*, Petition for *Inter Partes Review* of U. S. Patent 9,852,004, IPR2021-01445, May 5, 2022, on behalf of Juniper Networks, Inc.

10. My full curriculum vitae is attached hereto as Attachment 10.

III. PRELIMINARIES

A. Scope of Declaration and Legal Standards

11. I am not an attorney and will not offer opinions on the law. I am, however, rendering my expert opinion on the authenticity of the documents referenced herein, and on when and how each of these documents was disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising reasonable diligence, could have located the documents before the dates discussed below with respect to the specific documents.

12. I am informed by counsel that a printed publication qualifies as publicly accessible as of the date it was disseminated or otherwise made available such that a person interested in and ordinarily skilled in the relevant subject matter could locate it through the exercise of ordinary diligence.

13. While I understand that the determination of public accessibility under the foregoing standard rests on a case-by-case analysis of the facts particular to an individual publication, I also understand that a printed publication is rendered

"publicly accessible" if it is cataloged and indexed by a library such that a person interested in the relevant subject matter could locate it (i.e., I understand that cataloging and indexing by a library is sufficient, though there are other ways that a printed publication may qualify as publicly accessible). One manner of sufficient indexing is indexing according to subject matter category. I understand that the cataloging and indexing by a single library of a single instance of a particular printed publication is sufficient, even if the single library is in a foreign country. I understand that, even if access to a library is restricted, a printed publication that has been cataloged and indexed therein is publicly accessible so long as a presumption is raised that the portion of the public concerned with the relevant subject matter would know of the printed publication. I also understand that the cataloging and indexing of information that would guide a person interested in the relevant subject matter to the printed publication, such as the cataloging and indexing of an abstract for the printed publication, is sufficient to render the printed publication publicly accessible.

14. I understand that routine business practices, such as general library cataloging and indexing practices, can be used to establish an approximate date on which a printed publication became publicly accessible.

B. Persons of Ordinary Skill in the Art

15. I am told by counsel that the subject matter of this proceeding

generally relates to cellular communications.

16. I have been informed by counsel that a person of ordinary skill in the art at the time of the invention ("POSA") is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the inventions. This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles applicable to the pertinent field.

17. I am told by counsel that a person of ordinary skill in this subject matter or art would have had a bachelor's degree in electrical engineering, computer engineering, computer science, or an equivalent field, or an advanced degree in those fields, as well as at least 3-5 years of academic or industry experience in mobile wireless communications, or comparable industry experience. I have also been told that experience could take the place of some formal training, as domain knowledge may be learned on the job. I am told by counsel that this description is approximate, and a higher level of education or skill might make up for less experience, and vice versa. I have been further informed by counsel that a person of ordinary skill in the art would have been familiar with and able to understand the information known in the art relating to these fields, including the publications discussed in this declaration.

C. Use of Authoritative Databases

18. In preparing this report, I used authoritative databases, such as the

OCLC bibliographic database, the Library of Congress Online Catalog, the U.S. Copyright Office, and the *IEEE Xplore* database to confirm citation details of the publications discussed. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for the publications discussed in Section V below.

19. *Indexing*. A researcher may discover material relevant to his or her topic in a variety of ways. One common means of discovery is to search for relevant information in an index of periodical and other publications. Having found relevant material, the researcher will then normally obtain it online, look for it in libraries, or purchase it from the publisher, a bookstore, a document delivery service, or other provider. Sometimes, the date of a document's public accessibility will involve both indexing and library date information.

20. Indexing services use a wide variety of controlled vocabularies to provide subject access and other means of discovering the content of documents. The formats in which these access terms are presented vary from service to service.

21. Online indexing services and digital repositories commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and

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in use by researchers no later than the publication date of the citing document.

IV. LIBRARY CATALOGING PRACTICES

A. MARC Records and OCLC

22. I am fully familiar with the library cataloging standard known as the MARC standard, which is an industry-wide standard method of storing and organizing library catalog information. MARC was first developed in the 1960s by the Library of Congress. A MARC-compatible library is one that has a catalog consisting of individual MARC records for works made available at that library.

23. Since at least the early 1970s and continuing to the present day, MARC has been the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.[1] Almost every major library in the world is MARC-compatible. *See, e.g.*, Attachment 6, *MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS, 0002 ("MARC is the acronym for MAchine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began nearly [fifty] years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs

[1] A complete history of the development of MARC can be found in *MARC: Its History and Implications* by Henrietta D. Avram (Washington, DC: Library of Congress, 1975) and is available online from the Hathi Trust.

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used today.”). MARC is the ANSI/NISO Z39.2-1994 standard (reaffirmed in 2016) for Information Interchange Format. The full text of the standard is available from the Library of Congress.

24. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follow. For example, a work’s title is recorded in field 245, the primary author of the work is recorded in field 100, a work’s International Standard Book Number (“ISBN”) is recorded in field 020, a work’s International Standard Serial Number (“ISSN”) is recorded in field 022, and the publication date is recorded in field 260 under the subfield “c.” In some MARC records, field 264 is used rather than field 260 to record publication information. Information in field 264 is similar to information in field 260 (Publication, Distribution, etc. (Imprint)). Field 264 is useful for cases where the content standard or institutional policies make a distinction between functions. If a work is a periodical, then its publication frequency is recorded in field 310, and the publication dates (e.g., the first and last publication) are recorded in field 362, which is also referred to as the enumeration/chronology field.

25. The library that initially created the MARC record is reflected in field 040 in subfield “a” with that library’s unique library code. Once a MARC record for a particular work is originally created by one library, other libraries can

use that original MARC record to then create their own MARC records for their own copies of the same work. These other libraries may modify or add to the original MARC record as necessary to reflect data specific to their own copies of the work. However, the library that created the original MARC record would still be reflected in these modified MARC records (corresponding to other copies of the same work at other libraries) in field 040, subfield "a." The modifying library (or libraries) is reflected in field 040, subfield "d."

26. I consulted the Directory of OCLC Libraries in order to identify the institution that created or modified the MARC record. Moreover, when viewing the MARC record online via Online Computer Library Center's ("OCLC") bibliographic database, which I discuss further below, hovering over a library code in field 040 with the mouse reveals the full name of the library. I also used this method of "mousing over" the library codes in the OCLC database to identify the originating and modifying libraries for the MARC records discussed in this report.

27. MARC records also include one or more fields that show information regarding subject matter classification. For example, 6XX fields are termed "Subject Access Fields." Among these, for example, is the 650 field; this is the "Subject Added Entry – Topical Term" field. The 650 field is a "[s]ubject added entry in which the entry element is a topical term." Attachment 7, 0001. These entries "are assigned to a bibliographic record to provide access according to

generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH))." Attachment 7, 0001.

28. Further, MARC records can include call numbers, which themselves contain a classification number. For example, a MARC record may identify a 050 field, which is the "Library of Congress Call Number." A defined portion of the Library of Congress Call Number is the classification number, and the "source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*." Attachment 8, 0001. Thus, the 050 field may be used to show information regarding subject matter classification. Further, the 082 field is the "Dewey Decimal Call Number." A defined portion of the Dewey Decimal Call (DDC) Number is the classification number, which is included in the 082 field and determined through use of the *Dewey Decimal Classification and Relative Index*.

29. Each item in a library has a single classification number. A library selects a classification scheme (e.g., the Library of Congress Classification scheme just described or a similar scheme such as the Dewey Decimal Classification scheme) and uses it consistently. When the Library of Congress assigns the classification number, it appears as part of the 050 field, as discussed above. For MARC records created by libraries other than the Library of Congress (e.g., a university library or a local public library), the classification number may appear in

a 09X (e.g., 090) field.

30. When a MARC-compatible library acquires a work, it creates a MARC record for its copy of the work in its computer catalog system in the ordinary course of its business. This MARC record (for the copy of a work available at the particular library) may be later accessed by researchers in a number of ways. For example, many libraries, including the Library of Congress, make their MARC records available through their website. One could, of course, always physically visit the library at which the work is available, and request to see that library's MARC record for the work. Moreover, members of the Online Computer Library Center ("OCLC") can access the MARC records of other member institutions through OCLC's online bibliographic database, as I explain further below.

B. OCLC

31. The OCLC was created to establish, maintain, and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific,

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literary, and educational knowledge and information. Among other services, OCLC and its members are responsible for maintaining the WorldCat® database, used by independent and institutional libraries throughout the world. All libraries that are members of OCLC are MARC-compatible. Like the two superseded OCLC documents, this revised set of guidelines is intended to assist catalogers in creating records for electronic resources in WorldCat, the OCLC Online Union Catalog. These guidelines pertain to OCLC-MARC tagging (that is, content designation). Bibliographic data are transcribed into the MARC content format according to internationally developed rules and practices that are included in manuals (such as the *Anglo-American Cataloging Rules*, 2nd revision (AACR2), and *Resource Description and Access* (RDA).

32. When an OCLC member institution acquires a publication, like the other MARC-compatible libraries discussed above, it creates a MARC record for this publication in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress were tape-loaded into the OCLC database through a subscription to MARC Distribution Services daily or weekly. Once the MARC record is created by a cataloger at an OCLC member library or may be tape-loaded from the Library of Congress, the MARC record is then made available to any other OCLC members online, and thereby made available to the public. Accordingly, once the MARC record is created by a

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cataloger at an OCLC member library or is tape-loaded from the Library of Congress, any publication corresponding to the MARC record has been cataloged and indexed according to its subject matter such that a person interested in that subject matter could, with reasonable diligence, locate and access the publication through any library with access to the OCLC bibliographic database or through the Library of Congress.

33. When a MARC-compatible library creates an original MARC record for a work, the library records the date of creation of that MARC record in field 008, characters 00 through 05, in the ordinary course of its business. For OCLC member institutions that use OCLC software to create original MARC records, the date of creation in field 008 is automatically supplied by the OCLC software. The MARC record creation date in field 008 thus reflects the date on which, or shortly after which, a work was first acquired and cataloged by the library that created the original MARC record.

34. When other MARC-compatible libraries subsequently acquire their own copies of the same work, as mentioned, they create MARC records in their own computer catalog systems for their copies in the ordinary course of business. They may use a MARC record previously created for that work (by another MARC-compatible library) to create their own MARC records for their own copies of that same work. The previously created MARC record used by subsequently-

acquiring libraries to create MARC records for their own copies may be obtained through the OCLC bibliographic database, as described above. If, when creating a MARC record to represent its own copy of the work, the subsequently-acquiring library uses the master MARC record in its original form, the subsequently-acquiring library cannot reenter data into the 008 field; therefore, the date in the 008 field will continue to reflect the date the MARC record was initially created by the originating library. On the other hand, if the subsequently-acquiring library modifies the previously created MARC record when creating its own MARC record for its own copy of the work, the subsequently-acquiring library may enter into the 008 field of its own MARC record the date its own MARC record was created.[2] But the library that created the original MARC record used by the subsequently-acquiring library would still be reflected in the MARC record of the subsequently-acquiring library in field 040, subfield "a." Thus, the work identified by any MARC record possessed by any MARC-compatible library would have been accessible to the public at least as of the date shown in the 008 field, or

[2] This practice is not required by, but is nevertheless consistent with, the MARC standard. Many MARC records exist today whose 008 fields indicate when the first original MARC record for a work was created, rather than when a derivative record was created based on the original MARC record by a subsequently-acquiring library for its own computer catalog system.

shortly thereafter, either from the library that possesses the MARC record itself, or from the originating library indicated in field 040, subfield "a." As discussed, a MARC-compatible library in the ordinary course of its business creates a MARC record in its own catalog system for a work when it acquires a copy of that work.

35. Moreover, when a MARC record is created by a library for its own copy of a work, field 005 is automatically populated with the date that MARC record was created in year, month, day format (YYYYMMDD). Thereafter, the library's computer system may automatically update the date in field 005 every time the library updates the MARC record (e.g., to reflect that an item has been moved to a different shelving location within the library). Attachment 9, 0001. Thus, the work identified by any MARC record possessed by any MARC-compatible library would have been accessible to the public at least as of the date shown in the 005 field, or shortly thereafter, from the library that possesses the MARC record itself. As noted, because the 005 field may be updated each time the library updates its MARC record, the work identified by the MARC record may, in fact, have been accessible to the public from that library much earlier than the date indicated in the 005 field.

36. Based on my personal experience as a professional librarian using the MARC and OCLC resources, it has been my experience that both resources were continuously operational and available since at least 1992. Indeed, in the

course of my work, I have extensively used both resources over the past 30+ years, and I have consistently found the information contained within these resources to be complete and reliable. I have never found the date of accessibility as indicated in fields 008, 005, or 955 to be incorrect. And in only a minute number of cases have I found any errors at all in these records – none of which affected my ability to render an accurate opinion as to accessibility, indexing, or subject headings.

V. PUBLICATIONS IN THIS PROCEEDING

A. Publication 1 – Exhibit 1007: "A Flexible Spread-Spectrum Multi-Carrier Multiple-Access System for Multi-Media Applications" by Stefan Kaiser and Khaled Fazel ("Kaiser")

37. Attached hereto is Exhibit 1007, which I understand was downloaded from the IEEE *Xplore* database and is being submitted along with my declaration. Exhibit 1007 is a copy of a conference paper published in the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor and Mobile Radio Communications*, which I found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The 8th International Symposium on Personal, Indoor and Mobile Radio Communications was held on September 1-4, 1997, in Helsinki, Finland. *See* Exhibit 1011, 0001. The conference paper titled "A Flexible Spread-Spectrum Multi-Carrier Multiple-Access System for Multi-Media Applications," by Stefan Kaiser and Khaled Fazel (hereafter "Kaiser"), appears beginning on page 100 in

volume 1. EX1011, 0004 (article "C5.1").

38. Exhibit 1007 is a true and correct copy of the Kaiser conference paper (volume 1, pages 100-104). *See* EX1011, 0004. I obtained a copy of the Kaiser conference paper from the Linda Hall Library of Science, Engineering & Technology, and compared it to Exhibit 1007. The text of Exhibit 1007 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. I found the Kaiser conference paper within the custody of a library – a place where, if authentic, a copy of this conference proceedings three-volume set would likely be. Based on locating a copy of the Kaiser conference paper in the library and comparing that copy to Exhibit 1007, it is my opinion that Exhibit 1007 is a true and correct copy of the Kaiser conference paper in a condition that creates no suspicion about authenticity.

39. As I mentioned, the Kaiser conference paper is also available in the IEEE *Xplore* database. *See* Exhibit 1012. Metadata from the IEEE *Xplore* database confirms that the Kaiser conference paper was published in the "Proceedings of 8th International Symposium on Personal, Indoor and Mobile Radio Communications - PIMRC '97," which was a conference that took place between "01-04 September 1997" in "Helsinki, Finland." EX1012, 0001-0002. The metadata also indicate that the Kaiser conference paper was added to the IEEE *Xplore* database on "06 August

2002." EX1012, 0001.

40. Attached hereto as Attachment 1a is a true and correct copy of the MARC record for this conference proceedings three-volume set from the Linda Hall Library of Science, Engineering & Technology online catalog. The library ownership is indicated by the presence of the library's code (LHL) in the 049 field. I personally identified and retrieved the library catalog record which is Attachment 1a.

41. Based on finding a print copy of the Kaiser conference paper in the Linda Hall Library of Science, Engineering & Technology and the MARC record in its online library catalog attached as Attachment 1a, it is my opinion that the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor and Mobile Radio Communications* was publicly available at the Linda Hall Library of Science, Engineering & Technology as of October 24, 1997, as shown in field 008 ("971024").

42. Attached hereto as Attachment 1b is a true and correct copy of the MARC record for the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor and Mobile Radio Communications*, obtained from the OCLC bibliographic database. I personally

identified and retrieved the MARC record that is Attachment 1b.[3] As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 1b, that library code is "DLC," which means that the MARC record for this conference proceedings three-volume set was cataloged at the Library of Congress. As can be seen in the "Entered" field in the MARC record (*see* Attachment 1c), a cataloger at the Library of Congress created OCLC record number 37841842 on July 7, 1997, as shown in the "Entered" field ("19970707"). The bibliographic record was contributed to OCLC and the Library of Congress online catalog. The library continues to update this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on April 12, 2022, as shown in the "Replaced" field ("20220412").

43. Attachment 1b further includes an entry in field 050 ("TK5103.2 $b .I33 1997")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system)—and an entry in field 082 ("621.382")—as described above, a subject matter classification number consistent with the Dewey

[3] Attachment 1c is the work form view of Attachment 1b. I personally created Attachment 1c by performing a screen capture of the work form view.

Decimal classification system. Attachment 1b also shows that the three-volume set was catalogued with four descriptor terms reading "Wireless communication systems $v Congresses" (see Attachment 1d, Library of Congress subject heading sh2008113541), "Mobile communication systems $v Congresses" (Attachment 1e, Library of Congress subject heading sh2008107882), "Personal communication service systems $v Congresses" (see Attachment 1f, Library of Congress subject heading sh2008109080), and "Internetworking (Telecommunication) $v Congresses" (Attachment 1g, Library of Congress subject heading sh2009127480) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of July 7, 1997, the MARC record attached hereto as Attachment 1b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that acquired the conference proceedings three-volume set, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

44. Attachment 1b indicates that the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor*

and Mobile Radio Communications as cataloged at the Library of Congress is currently available from 47 libraries. In view of the above, the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor and Mobile Radio Communications* (including the Kaiser conference paper) was publicly available on or shortly after October 24, 1997, because by that date it had been received, cataloged, and indexed at the Library of Congress and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1007 was published and publicly accessible on or shortly after October 24, 1997.

45. Further supporting my opinion that Exhibit 1007 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the three-volume set titled *Waves of the Year 2000+: PIMRC '97: The 8th International Symposium on Personal, Indoor and Mobile Radio Communications* was registered with the U. S. Copyright Office as item TX0004659742 on November 3, 1997, and indicated a publication date of September 1, 1997. EX1014, 1 (U. S. Copyright Office Public Catalog). As noted above, this would have provided a person interested in the relevant subject matter with keyword searching capabilities and other tools to locate this article.

B. Publication 2 – Exhibit 1015: "Introducing Novel FDD and FDM in MC-CDMA to Enhance Performance" by Balasubramaniam Natarajan and Carl R. Nassar ("Natarajan")

46. Attached hereto is Exhibit 1015, which I understand was downloaded from the IEEE *Xplore* database and is being submitted along with my declaration. Exhibit 1015 is a copy of a conference paper published in the volume titled *RAWCON 2000: 2000 IEEE Radio and Wireless Conference* found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The conference paper titled "Introducing Novel FDD and FDM in MC-CDMA to Enhance Performance," by Balasubramaniam Natarajan and Carl R. Nassar (hereafter "Natarajan"), appears beginning on page 29. The 2000 IEEE Radio and Wireless Conference was held on September 10-13, 2000, in Denver, Colorado.

47. Exhibit 1015 is a true and correct copy of the Natarajan conference paper (pages 29-32). I obtained this copy of the Natarajan conference paper from the Linda Hall Library of Science, Engineering & Technology, and compared it to Exhibit 1015. The text of Exhibit 1015 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. I found the Natarajan conference paper within the custody of a library – a place where, if authentic, a copy of this conference proceedings three-volume set would likely be. Based on locating a

copy of the Natarajan conference paper in the library and comparing that copy to Exhibit 1015, it is my opinion that is a true and correct copy in a condition that creates no suspicion about authenticity.

48. As I mentioned, the Natarajan conference paper is also available in the IEEE *Xplore* database. *See* Exhibit 1016. Metadata from the IEEE *Xplore* database confirms that the Natarajan conference paper was published in the "RAWCON 2000. 2000 IEEE Radio and Wireless Conference (Cat.No.00EX404)," which was a conference that took place between "13-13 September 2000" in "Denver, CO, USA." EX1016, 0001-0002. The metadata also indicate that the Kaiser conference paper was added to the IEEE *Xplore* database on "06 August 2002." EX1016, 0001.

49. Attached hereto as Attachment 2a is a true and correct copy of the MARC record for this conference proceedings volume from the Linda Hall Library of Science, Engineering & Technology online catalog. The library ownership is indicated by the presence of the library's code (LHL) in the 049 field. I personally identified and retrieved the library catalog record that is Attachment 2a.

50. Based on finding a print copy of Exhibit 1010 in the Linda Hall Library of Science, Engineering & Technology and the MARC record in its online library catalog attached as Attachment 2a, it is my opinion that the volume titled *RAWCON 2000: 2000 IEEE Radio and Wireless Conference* was publicly

available at the Linda Hall Library of Science, Engineering & Technology as of October 31, 2000, as shown in field 008 ("001031").

51. Attached hereto as Attachment 2b is a true and correct copy of the MARC record for the volume titled *RAWCON 2000: 2000 IEEE Radio and Wireless Conference* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 2b.[4] As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2b, that library code is "LHL," which means that the MARC record for this conference proceedings volume was cataloged at the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). As can be seen in the "Entered" field in the MARC record (see Attachment 2c), a cataloger at the Linda Hall Library of Science, Engineering & Technology created OCLC record number 45257131 on October 31, 2000, ("20001031"). The bibliographic record was contributed to OCLC. The library continues to update this MARC record the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on April 26, 2022, as shown in the "Replaced" field ("20220426").

[4] Attachment 2c is the work form view of Attachment 2b. I personally created Attachment 2c by performing a screen capture of the work form view.

52. Attachment 2b further includes an entry in field 050 ("TK5103.2 $b .W571 2000")—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system). Attachment 2b also shows that the volume was catalogued with a descriptor term reading "Wireless communication systems $v Congresses" (see Attachment 1d, Library of Congress subject heading sh2008113541) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 2b was indexed according to its subject matter by virtue of at least two independently sufficient classifications: the field 050 entry and the field 650 entry. Further, as of October 31, 2000, the MARC record attached hereto as Attachment 2b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that acquired the conference proceedings, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

53. Attachment 2b indicates that the volume titled *RAWCON 2000: 2000 IEEE Radio and Wireless Conference* as cataloged at the Linda Hall Library of Science, Engineering & Technology is currently available from 12 libraries. In view of the above, the volume titled *RAWCON 2000: 2000 IEEE Radio and*

Wireless Conference was publicly available on or shortly after October 31, 2000, because by that date it had been received, cataloged, and indexed at the Linda Hall Library of Science, Engineering & Technology and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1015 was published and publicly accessible on or shortly after October 31, 2000.

54. Further supporting my opinion that Exhibit 1015 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the volume titled *RAWCON 2000: 2000 IEEE Radio and Wireless Conference* was registered with the U. S. Copyright Office as item TX0005384166 on April 27, 2001, and indicated a publication date of September 10, 2000. Exhibit 1017 (U. S. Copyright Office Public Catalog). As noted above, this would have provided a person interested in the relevant subject matter with keyword searching capabilities and other tools to locate this book.

55. Accordingly, it is my opinion that the Natarajan conference paper, of which Exhibit 1015 is a true and correct copy, was publicly available on or around October 31, 2000. Natarajan cites the Kaiser conference paper, *see* EX1015, 32 (reference [4]), confirming the Kaiser conference paper was publicly available to persons interested in the relevant subject matter by at least October 31, 2000 (and, for the reasons explained above, was publicly available much earlier).

C. Publication 3 – Exhibit 1008: *The Mobile Communications Handbook,* 2nd ed., by Jerry D. Gibson ("Gibson")

56. Exhibit 1008, which I understand is being submitted along with my Declaration, is a scanned copy of a treatise, *The Mobile Communications Handbook,* 2nd ed., by Jerry D. Gibson (hereafter "Gibson") and issued by CRC Press with a 1999 copyright date. CRC Press is an established and well-known publisher. Exhibit 1008 is a true and correct copy of the entire treatise, including the title page, copyright page, preface, table of contents, 36 chapters, and index as held in print by the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison[5] (see Attachment 3a). The text in Exhibit 1008 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next. I have been informed by counsel that Exhibit 1008 was generated by scanning a used copy of Gibson that was purchased from a vendor on the Internet. I examined the digital copy of Gibson held in the King Library at San José State University (San José, California) and compared it with the scanned copy of the book purchased from the Internet. Based on my review, I believe Exhibit 1008 is a true and correct copy in a condition that creates no suspicion about its authenticity.

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[5] The Gibson treatise is also available in the King Library at San José State University (San José, California).

57. Attached hereto as Attachment 3b is a true and correct copy of the MARC record for the Gibson treatise titled *The Mobile Communications Handbook,* 2nd ed., obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 3b.[6] As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 3b, that library code is "DLC," which means that the MARC record for this book was created at the Library of Congress as part of the Cataloging in Publication (CIP) Program. A cataloger prepares basic information about the forthcoming book which is included on the verso of the title page (also called the copyright page). The information is provided to save time needed for the cataloging process at the library after the book is purchased. The CIP data includes the author (field 100), title and subtitle (field 245), edition statement (field 250), ISBN (field 022), suggested subject headings (field 650), classification numbers for the Library of Congress classification number (field 050), Dewey Decimal classification number (field 082), and the Library of Congress control number (field 010). These data elements are included in the MARC record that the Library of Congress contributes to the OCLC bibliographic database.

[6] Attachment 3c is the work form view of Attachment 3b. I personally created Attachment 3c by performing a screen capture of the work form view.

58. As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 39985639 on September 24, 1998 ("19980924"). *See* Attachment 3c. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 3b occurred on July 2, 2022, as shown in the "Replaced" field ("20220702"). *See* Attachment 3c. I personally identified and retrieved the MARC record that is Attachment 3b.

59. Attachment 3b further includes an entry in field 050 ("TK6570.M6 $b M5934 1999")—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system)—and an entry in field 082 ("621.3845"), a subject matter consistent with the Dewey Decimal classification system. Attachment 3b further includes a descriptor term reading "Mobile communication systems" (see Attachment 3d, Library of Congress subject heading sh 85086371) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 3b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of September 24, 1998, the MARC record attached hereto as Attachment 3b was accessible through any library with access to the OCLC

bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

60. The Library of Congress received a copy of the Gibson book on September 24, 1998, as shown in field 955 of the MARC record from the online catalog (see Attachment 3e). The Gibson book was sent to subject heading assignment on September 25, 1998 ("09-25-98") and to CIP verification on March 12, 1999 ("03-12-99").

61. In view of above, Gibson was publicly available as early as March 15, 2000, because by that date it had been cataloged and indexed at the Library of Congress and made part of the OCLC bibliographic database, and at least by September 2000, when the physical copy was sent to BCCD.

62. Further supporting my opinion that Exhibit 1008 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the volume titled *The Mobile Communications Handbook,* 2nd ed., was registered with the U. S. Copyright Office as item TX0004939558 on March 8, 1999, and indicated a publication date of February 23, 1999. EX1018 (U. S. Copyright Office Public Catalog). As noted above, this would have provided a person interested in the relevant subject matter with keyword searching capabilities and other tools to

locate this book.

D. Publication 4 – Exhibit 1019: *The Application of Programmable DSPs in Mobile Communications* by Alan Gatherer and Edgar Auslander ("Gatherer")

63. Exhibit 1019, which I understand is being submitted along with my Declaration, is a scanned copy of a treatise, *The Application of Programmable DSPs in Mobile Communications* by Alan Gatherer and Edgar Auslander (hereafter "Gatherer") and issued by Wiley & Sons with a 2002 copyright date. John Wiley & Sons is an established and well-known publisher. Exhibit 1019 is a true and correct copy of the entire treatise, including the title page, copyright page, preface, table of contents, 19 chapters, and index as held in print by the Library of Congress[7] (see Attachment 4a). The text in Exhibit 1019 is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next. I have been informed by counsel that Exhibit 1019 was generated by scanning a used copy of Gatherer that was purchased from a vendor on the Internet. I examined the digital copy of Gatherer held in the King Library at San José State University (San José, California) and compared it with the scanned copy of the book purchased from the Internet. Based on my review, I believe Exhibit 1019 is a true and correct

[7] The Gatherer treatise is also available in the King Library at San José State University (San José, California).

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Exhibit 1005
Page 036

copy in a condition that creates no suspicion about its authenticity.

64. Attached hereto as Attachment 4b is a true and correct copy of the MARC record for the Gatherer treatise titled *The Application of Programmable DSPs in Mobile Communications* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 4b.[8] As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4b, that library code is "DLC," which means that the MARC record for this book was created at the Library of Congress.

65. As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 47746341 on August 1, 2001 ("20010801"). *See* Attachment 4c. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 4b occurred on September 17, 2022, as shown in the "Replaced" field ("20220917"). *See* Attachment 4c. I personally identified and retrieved the MARC record that is Attachment 4b.

66. Attachment 4b further includes an entry in field 050 ("TK6570.M6 $b A65 2002")—as described above, this includes a subject matter classification

[8] Attachment 4c is the work form view of Attachment 4b. I personally created Attachment 4c by performing a screen capture of the work form view.

number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system)—and an entry in field 082 ("621.3845/6"), a subject matter consistent with the Dewey Decimal classification system. Attachment 4b further includes three descriptor terms reading "Mobile communication systems" (see Attachment 3d, Library of Congress subject heading sh 85086371), "Signal processing $x Digital techniques" (see Attachment 4d, Library of Congress subject heading sh 85122398), and "Digital control systems" (see Attachment 4e, Library of Congress subject heading sh 85037974) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4b was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entries. Further, as of August 1, 2001, the MARC record attached hereto as Attachment 4b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

67. The Library of Congress received a copy of the Gatherer book on August 1, 2001, as shown in field 955 of the MARC record from the online catalog (see Attachment 4a). The Gatherer book was sent to subject heading assignment to

Dewey Decimal classification on August 6, 2001 ("2001-08-06") and to CIP verification on January 19, 2002 ("2002-01-19").

68. In view of above, Gatherer was publicly available as early as January 19, 2002, because by that date it had been cataloged and indexed at the Library of Congress and made part of the OCLC bibliographic database, when the physical copy was sent to BCCD.

E. Publication 5 – Exhibit 1022: *Multiaccess Protocols in Packet Communication Systems* by Fouad Tobagi ("Tobagi")

69. Exhibit 1022, which I understand is being submitted along with my Declaration, is a scanned copy of a journal article published in Volume COM-28, Number 4 of the journal *IEEE Transactions on Communications* found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The article "Multiaccess Protocols in Packet Communication Systems" by Fouad A. Tobagi (hereafter "Tobagi") appears beginning on page 468 of this issue dated April 1980. Exhibit 1022 is a true and correct copy of the Tobagi article that I understand is being submitted as an exhibit in this proceeding. Exhibit 1022 is a true and correct copy of the article (pages 468-488). I obtained this copy of the article from the Linda Hall Library of Science, Engineering & Technology. Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1022 was found within the

custody of a library – a place where, if authentic, a copy of this journal would likely be. Exhibit 1022 is a true and correct copy in a condition that creates no suspicion about its authenticity.

70. The Tobagi article is also available in the *IEEE Xplore* database. EX1023.

71. The cover of the April 1980 issue of the journal *IEEE Transactions on Communications* has a stamp affixed by or on behalf of the Linda Hall Library of Science, Engineering & Technology, which shows that it was received, verified, and checked in on June 21, 1980. Therefore, in my experience, this issue of the journal *IEEE Transactions on Communications* would have been available to users at the Linda Hall Library on or shortly after that date.

72. Attached hereto as Attachment 5a is a true and correct copy of the MARC record for the journal *IEEE Transactions on Communications* at the Linda Hall Library of Science, Engineering & Technology. The library ownership is indicated by the presence of the library's code (LHL) in the 049 field. I personally identified and retrieved the MARC record that is Attachment 5a.[9] Attachment 5a also shows that Exhibit 1022 was catalogued with a descriptor term reading

[9] Attachment 5d is the work form view of Attachment 5c. I personally created Attachment 5d by performing a screen capture of the work form view.

"Telecommunication $v Periodicals" (see Attachment 5b, Library of Congress sh2008112739) in the 650 field.

73. Based on finding a print copy of Exhibit 1022 in the Linda Hall Library of Science, Engineering & Technology and the MARC record in its online library catalog attached as Attachment 5a, it is my opinion that the Tobagi article published in the journal *IEEE Transactions on Communications* was available at the Linda Hall Library of Science, Engineering & Technology on or shortly after June 21, 1980.

74. As noted in the holdings information (field 362), the Linda Hall Library of Science, Engineering & Technology has received the journal *IEEE Transactions on Communications* since February 1972 and continues to receive the publication.[10] In view of the MARC record for Exhibit 1022, the Tobagi article

[10] The publication was originally titled *Transactions of the American Institute of Electrical Engineers* (May 1884-December 1951), then adopted the title *Transactions of the American Institute of Electrical Engineers, Part 1, Communication and Electronics* (January 1952-February 1963), followed a change in title to *IEEE Transactions on Communication and Electronics* (March 1963-November 1964), then the title *IEEE Transactions on Communication Technology*

was publicly available on or shortly after June 21, 1980, because the serial title had been cataloged and indexed at the Linda Hall Library of Science, Engineering & Technology and made part of its online catalog database.

75. Attached hereto as Attachment 5c is a true and correct copy of the MARC record for the journal *IEEE Transactions on Communications* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 5c. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 5c, that library code is "DLC," which means that the MARC record for this serial was cataloged at the Library of Congress. As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 1785858 on July 5, 1973. *See* Attachment 5d. The "BLvl" entry in Attachment 5d is "s," which indicates that the journal *IEEE Transactions on Communications* is a serial publication. Field 310 of Attachment 5c reads "Monthly." Accordingly, the MARC record for Exhibit 1022 corresponds to those issues of the journal *IEEE Transactions on Communications* from the time that the serial publication adopted its current title to the present day.

(September 1964-December 1971), and adopted the current title *IEEE Transactions on Communications* in February 1972.

76. Attachment 5c further includes an entry in field 050 ("TK5101.A1 $b I2")—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system)—and an entry in field 082 ("621.38/05"), a subject matter consistent with the Dewey Decimal classification system. Attachment 5c further includes a descriptor term reading "Telecommunication $v Periodicals" (see Attachment 5b, Library of Congress sh2008112739) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 5c was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of July 5, 1973, the MARC record attached hereto as Attachment 5c was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

77. Attachment 5c indicates that the journal *IEEE Transactions on Communications* as cataloged at the Library of Congress is currently available from 516 libraries. In view of the above, this issue of the journal *IEEE Transactions on Communications* was publicly available on or shortly after June

21, 1980, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the Linda Hall Library of Science, Engineering & Technology. For these reasons, it is my opinion that Exhibit 1022 was published and accessible to the public on or shortly after June 21, 1980.

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Page 044

VI. CONCLUSION

78. In signing this declaration, I recognize that the declaration will be filed as evidence in a case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in the case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-examination within the United States during the time allotted for cross-examination.

79. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Dated: October 27, 2022

Respectfully submitted,

Sylvia D. Hall-Ellis

Sylvia D. Hall-Ellis, Ph.D.

Attachment 1a

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001    992781953405961
005    19971024143200.0
008    971024s1997    nyua     b    101 0 eng d
010    ##$a   97070761
020    ##$a9780780338715 (softbound)
020    ##$a0780338715 (softbound)
020    ##$a9780780338722 (microfiche)
020    ##$a0780338723 (microfiche)
035    ##$a(OCoLC)37841842
035    ##$9385371
035    ##$a(MoKL)278195-lhalldb
035    ##$a(lhalldb)278195-lhalldb
040    ##$aLHL $cLHL
049    ##$aLHLA
090    ##$aTK5103.2 $b.I33 1997
111    2#$aIEEE International Symposium on Personal, Indoor, and
Mobile Radio Communications $n(8th : $d1997 : $cHelsinki, Finland)
245    10$aWaves of the Year 2000+ : PIMRC '97 : $bThe Eighth IEEE
International Symposium on Personal, Indoor and Mobile Radio
Communications, September 1-4, 1997, Marina Congress Center,
Helsinki, Finland / $cTechnical co-sponsorship by : IEEE
Communications Society ; sponsored by IEEE Communication Chapter in
Finland ... [et al.].
246    14$aPIMRC'97 Proceedings
246    18$a1997 Eighth IEEE International Symposium on Personal,
Indoor and Mobile Radio Communications
246    30$aPersonal, indoor and mobile radio communications
246    3#$a8th IEEE International Symposium on Personal, Indoor and
Mobile Radio Communications PIMRC'97
260    ##$a[New York, N.Y.] : $bInstitute of Electrical and
Electronics Engineers ; $aPiscataway, N.J. : $bCopies available
from IEEE Service Center, $cc1997.
300    ##$a3 v. : $bill. ; $c29 cm.
500    ##$a"IEEE catalog number: 97TH8271"--T.p. verso.
504    ##$aIncludes bibliographical references and indexes.
650    #0$aWireless communication systems $vCongresses
650    #0$aMobile communication systems $vCongresses
650    #0$aPersonal communication service systems $vCongresses
650    #0$aInternetworking (Telecommunication) $vCongresses
710    2#$aIEEE Communications Society
948    ##$aLTI 09/01/2008
```

Attachment 1b

OCLC 37841842 **No holdings in XXX - 47 other holdings**

Books

								Rec Stat	c	**Entered**	19907707	**Replaced**	20220412171958.6
Type	a	**ELvl**		**Srce**		**Audn**		**Ctrl**		**Lang**	eng		
BLvl	m	**Form**		**Conf**	1	**Biog**		**MRec**		**Ctry**	nyu		
		Cont	b	**GPub**		**LitF**	0	**Indx**	1				
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	1997,				

010 97070761
040 DLC $b eng $c DLC $d LHL $d OCL $d E9X $d OCLCQ $d BTCTA $d YDXCP $d BAKER $d ZWZ $d OCLCO $d OCLCF $d OCLCQ $d OCLCO $d OCLCQ $d OCL $d OCLCO $d OCLCQ $d OCLCO
019 1053212433
020 0780338715 $q (pbk.)
020 9780780338715 $q (pbk.)
020 0780338723 $q (microfiche)
020 9780780338722 $q (microfiche)
050 00 TK5103.2 $b .I33 1997
082 00 621.382 $2 21
090 $b
111 2 IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications $n (8th : $d 1997 : $c Helsinki, Finland)
245 10 Waves of the year 2000+ : $b PIMRC'97 : the 8th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications : September 1-4, 1997 : the technical program, proceedings / $c technical co-sponsorship by IEEE Communication Society ; sponsored by IEEE Communication Chapter in Finland, IEEE Finland Section ; in cooperation with IEE, IEICE.
246 30 PIMRC '97
246 30 8th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications
246 3 Eighth IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications
260 New York : $b Institute of Electrical and Electronics Engineers ; $a Piscataway, NJ : $b Additional copies of this publication are available from IEEE Service Center, $c ©1997.
300 3 volumes : $b illustrations ; $c 30 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 "IEEE catalog number 97TH8271"--Title page verso.
504 Includes bibliographical references and indexes.
530 Also available via the World Wide Web with additional title: Personal, indoor and mobile radio communications, 1997, "Waves of the year 2000", PIMRC '97, the 8th IEEE International Symposium on.
650 0 Wireless communication systems $v Congresses.
650 0 Mobile communication systems $v Congresses.
650 0 Personal communication service systems $v Congresses.
650 0 Internetworking (Telecommunication) $v Congresses.
650 6 Transmission sans fil $0 (CaQQLa)201-0253107 $v Congrès. $0 (CaQQLa)201-0378219
650 6 Radiocommunications mobiles $0 (CaQQLa)201-0023226 $v Congrès. $0 (CaQQLa)201-0378219
650 6 Communications personnelles $0 (CaQQLa)201-0280237 $v Congrès. $0 (CaQQLa)201-0378219

650 6 Interconnexion de réseaux (Télécommunications) $0 (CaQQLa)201-0267374 $v Congrès. $0 (CaQQLa)201-0378219
650 7 Internetworking (Telecommunication) $2 fast $0 (OCoLC)fst00977304
650 7 Mobile communication systems. $2 fast $0 (OCoLC)fst01024207
650 7 Personal communication service systems. $2 fast $0 (OCoLC)fst01058572
650 7 Wireless communication systems. $2 fast $0 (OCoLC)fst01176209
650 7 Systèmes de communication sans fil $x Congrès. $2 ram
650 7 Radiocommunications mobiles $x Congrès. $2 ram
650 7 Systèmes de télécommunications personnels $x Congrès. $2 ram
655 7 Conference papers and proceedings. $2 fast $0 (OCoLC)fst01423772
710 2 IEEE Communications Society.
710 2 IEEE Communication Chapter in Finland.
710 2 IEEE Finland Section.
740 0 Personal, indoor and mobile radio communications, 1997, "Waves of the year 2000", PIMRC '97, the 8th IEEE International Symposium on.
856 41 $3 IEEE Xplore $u http://ieeexplore.ieee.org/servlet/opac?punumber=4928

Attachment 1c

OCLC Connexion [39:45] Home | Help | Diacritics | Contact | Logoff

Cataloging | Authorities | Express | Dewey Services | General | OCLC

Search | Browse | Create | Show

* WorldCat | Browse Options | Create Options | Show Options

Record 1 of 1

Edit: Editing Bibliographic Record | Action: Action | View: MARC Template

WorldCat: Waves of the year 2000+ MARC Help

OCLC 37841842 **No holdings in CTA - 47 other holdings**

Books **Rec Stat** c **Entered** 19970707 **Replaced** 20220412171958.6

Type	a	**ELvl**		**Srce**		**Audn**		**Ctrl**		**Lang**	eng
BLvl	m	**Form**		**Conf**	1	**Biog**		**MRec**		**Ctry**	nyu
		Cont	b	**GPub**		**LitF**	0	**Indx**	1		
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	1997 ,		

010			97070761	Functions
040			DLC ‡b eng ‡c DLC ‡d LHL ‡d OCL ‡d E9X ‡d OCLCQ ‡d BTCTA ‡d YDXCP ‡d BAKER ‡d ZWZ ‡d OCLCO ‡d OCLCF ‡d OCLCQ ‡d OCLCO ‡d OCLCQ ‡d OCL ‡d OCLCO ‡d OCLCQ ‡d OCLCO	Functions
019			1053212433	Functions
020			0780338715 $q (pbk.)	Functions
020			9780780338715 $q (pbk.)	Functions
020			0780338723 $q (microfiche)	Functions
020			9780780338722 $q (microfiche)	Functions
050	0	0	TK5103.2 $b .I33 1997	Functions
082	0	0	621.382 $2 21	Functions
090			$b	Functions
049			CTAA	Functions
111	2		IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications ‡n (8th : ‡d 1997 : ‡c Helsinki, Finland)	Functions
245	1	0	Waves of the year 2000+ : $b PIMRC'97 : the 8th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications : September 1-4, 1997 : the technical program, proceedings / $c technical co-sponsorship by IEEE Communication Society ; sponsored by IEEE Communication Chapter in Finland, IEEE Finland Section ; in cooperation with IEE, IEICE.	Functions
246	3	0	PIMRC '97	Functions
246	3	0	8th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications	Functions

Attachment 1d

The Library of Congress

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh2008113541
LCCN Permalink: https://lccn.loc.gov/sh2008113541
HEADING: Wireless communication systems Congresses

000 00452cz a2200169n 450
001 7471778
005 20110729160924.0
008 080311|| anannbabn |n ana
010 __ |**a** sh2008113541
035 __ |**a** (DLC)390044
035 __ |**a** (DLC)sh2008113541
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Wireless communication systems |**v** Congresses
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: WoWMoM,
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

Previous Next

Save, Print or Email Records (View Help)	
Select Download Format: Text (Labelled Display)	Press to SAVE or PRINT
Email Text (Labelled Display) to:	
	Press to SEND EMAIL

Help - Search - Search History - Headings List - Start Over

Library of Congress
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Washington, DC 20540

Library of Congress Authorities
URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh2008107882

LCCN Permalink: https://lccn.loc.gov/sh2008107882

HEADING: Mobile communication systems Congresses

000 00570cz a2200169n 450

001 7458529

005 20110729160533.0

008 080304|| anannbabn |n ana

010 __ |**a** sh2008107882

035 __ |**a** (DLC)384057

035 __ |**a** (DLC)sh2008107882

040 __ |**a** DLC |**b** eng |**c** DLC

150 __ |**a** Mobile communication systems |**v** Congresses

667 __ |**a** Record generated for validation purposes.

670 __ |**a** Work cat.: Proceedings of the 3rd International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications, c1999

906 __ |**t** 8888 |**u** te00 |**v** 0

953 __ |**a** te00

Previous Next

Save, Print or Email Records (View Help)

Select Download Format: Text (Labelled Display) Press to SAVE or PRINT

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Help - Search - Search History - Headings List - Start Over

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Attachment 1f

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh2008109080
LCCN Permalink: https://lccn.loc.gov/sh2008109080
HEADING: Personal communication service systems Congresses

000 00500cz a2200169n 450
001 7461464
005 20110729160623.0
008 080305|| anannbabn |n ana
010 __ |**a** sh2008109080
035 __ |**a** (DLC)385242
035 __ |**a** (DLC)sh2008109080
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Personal communication service systems |**v** Congresses
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Emerging personal wireless communications, 2001
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

Previous Next

Save, Print or Email Records (View Help)

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Help - Search - Search History - Headings List - Start Over

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URL: https://www.loc.gov/

Mailing Address:
101 Independence Ave, S.E.
Washington, DC 20540

Library of Congress Authorities
URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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The Library of Congress

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh2009127480
LCCN Permalink: https://lccn.loc.gov/sh2009127480
HEADING: Internetworking (Telecommunication) Congresses

000 00494cz a2200169n 450
001 8084041
005 20110729162813.0
008 091110|| anannbabn |n ana
010 __ |**a** sh2009127480
035 __ |**a** (DLC)444439
035 __ |**a** (DLC)sh2009127480
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Internetworking (Telecommunication) |**v** Congresses
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Interoperability in broadband networks, 1994
906 __ |**t** 8888 |**u** tc00 |**v** 0
953 __ |**a** tc00

Previous Next

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Select Download Format: Text (Labelled Display) Press to SAVE or PRINT

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Attachment 2a

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005    20030404203900.0
008    001031s2000    njua     b    101 0 eng d
010    ##$a   00000423
020    ##$a9780780362673 (softbound)
020    ##$a0780362675 (softbound)
035    ##$a(OCoLC)45257131
035    ##$9471230
035    ##$a(MoKL)344695-lhalldb
035    ##$a(lhalldb)344695-lhalldb
040    ##$aLHL $cLHL
049    ##$aLHLA
090    ##$aTK5103.2 $b.W571 2000
111    2#$aIEEE Radio and Wireless Conference $d(2000 : $cDenver,
Colo.)
245    10$aRAWCON 2000 : $b2000 IEEE Radio and Wireless Conference,
Denver Marriott Southeast, Denver, Colorado, USA, September 10-13,
2000 / $ccosponsors, IEEE Microwave Theory and Techniques Society
(MTT-S), IEEE Denver Section, IEEE Pikes Peak Section ... [et al.].
246    31$a2000 IEEE Radio and Wireless Conference
260    ##$aPiscataway, New Jersey : $bIEEE, $cc2000.
300    ##$axiv, [267] p. : $bill. ; $c28 cm.
500    ##$a"IEEE Catalog Number: 00EX404"--verso of T.p.
504    ##$aIncludes bibliographic references and author index.
650    #0$aWireless communication systems $vCongresses
710    2#$aIEEE Microwave Theory and Techniques Society
710    2#$aInstitute of Electrical and Electronics Engineers.
$bDenver Section
710    2#$aIEEE Pikes Peak Section
948    ##$aLTI 09/01/2008
994    ##$aE0 $bLHL
```

Attachment 2b

OCLC 45257131 **No holdings in XXX - 12 other holdings**

Books

								Rec Stat	**Entered**	20001031	**Replaced**	20220426100201.0	
Type	a	**ELvl**	l	**Srce**	d	**Audn**		**Ctrl**			**Lang**	eng	
BLvl	m	**Form**		**Conf**	1	**Biog**		**MRec**			**Ctry**	nju	
		Cont	b	**GPub**		**LitF**	0	**Indx**	1				
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	2000	,			

010 00000423
040 LHL $b eng $c LHL $d E9X $d OCLCQ $d BAKER $d OCLCF $d OCLCQ $d OCLCO $d OCL $d OCLCO $d OCLCQ $d OCLCO
020 0780362675 $q (softbound)
020 9780780362673 $q (softbound)
050 4 TK5103.2 $b .W571 2000
090 $b
111 2 IEEE Radio and Wireless Conference $d (2000 : $c Denver, Colo.)
245 10 RAWCON 2000 : $b 2000 IEEE Radio and Wireless Conference, Denver Marriott Southeast, Denver, Colorado, USA, September 10-13, 2000 / $c cosponsors, IEEE Microwave Theory and Techniques Society (MTT-S), IEEE Denver Section, IEEE Pikes Peak Section [and others].
246 30 2000 IEEE Radio and Wireless Conference
260 Piscataway, N.J. : $b IEEE, $c ©2000.
300 xiv, [267] pages : $b illustrations ; $c 28 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 "IEEE Catalog Number: 00EX404"--Title page verso.
504 Includes bibliographical references and author index.
530 Also available via the World Wide Web with additional title: Radio and Wireless Conference, 2000, RAWCON 2000, 2000 IEEE.
650 0 Wireless communication systems $v Congresses.
650 6 Transmission sans fil $0 (CaQQLa)201-0253107 $v Congrès. $0 (CaQQLa)201-0378219
650 7 Wireless communication systems. $2 fast $0 (OCoLC)fst01176209
655 7 Conference papers and proceedings. $2 fast $0 (OCoLC)fst01423772
710 2 IEEE Microwave Theory and Techniques Society.
710 2 Institute of Electrical and Electronics Engineers. $b Denver Section.
710 2 IEEE Pikes Peak Section.
740 0 Radio and Wireless Conference, 2000, RAWCON 2000, 2000 IEEE.
856 41 $3 IEEE Xplore $u http://ieeexplore.ieee.org/servlet/opac?punumber=7072

Attachment 2c

OCLC Connexion [39:49] Home | Help | Diacritics | Contact | Logoff

Cataloging | Authorities | Express | Dewey Services | General | OCLC

Search | Browse | Create | Show

* WorldCat | Browse Options | Create Options | Show Options

Record 1 of 1

Edit: Editing Bibliographic Record | Action: Action | View: MARC Template

WorldCat: RAWCON 2000 MARC Help

OCLC	45257131			No holdings in CTA - 12 other holdings							
Books	Rec Stat	c		Entered	20001031		Replaced	20220426100201.0			
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BLvl	m	Form		Conf	1	Biog		MRec		Ctry	nju
		Cont	b	GPub		LitF	0	Indx	1		
Desc	a	Ills	a	Fest	0	DtSt	s	Dates	2000 ,		

010			00000423	Functions
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020			0780362675 $q (softbound)	Functions
020			9780780362673 $q (softbound)	Functions
050		4	TK5103.2 $b .W571 2000	Functions
090			$b	Functions
049			CTAA	Functions
111	2		IEEE Radio and Wireless Conference ‡d (2000 : ‡c Denver, Colo.)	Functions
245	1	0	RAWCON 2000 : $b 2000 IEEE Radio and Wireless Conference, Denver Marriott Southeast, Denver, Colorado, USA, September 10-13, 2000 / $c cosponsors, IEEE Microwave Theory and Techniques Society (MTT-S), IEEE Denver Section, IEEE Pikes Peak Section [and others].	Functions
246	3	0	2000 IEEE Radio and Wireless Conference	Functions
260			Piscataway, N.J. : $b IEEE, $c ©2000.	Functions
300			xiv, [267] pages : $b illustrations ; $c 28 cm	Functions
336			text $b txt $2 rdacontent	Functions
337			unmediated $b n $2 rdamedia	Functions

Attachment 3a

MARC Bibliographic Record

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005       20180323014923.0

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035             $a(OCoLC)39985639

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040             $aDLC$beng$cDLC

049             $aGZMA

050       00    $aTK6570.M6$bM5934 1999

082       00    $a621.3845$221

245       04    $aThe mobile communications handbook /$ceditor-in-chief, Jerry
                D. Gibson.

250             $aSecond edition.

264       _1    $aBoca Raton :$bCRC Press ;$a[New York] :$bIEEE Press,$c[1999]

264       _4    $c©1999
```


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```
300          $a1 volume (various pagings) :$billustrations, color maps
             ;$c27 cm

336          $atext$btxt$2rdacontent

337          $aunmediated$bn$2rdamedia

338          $avolume$bnc$2rdacarrier

530          $aIssued also in electronic format.

500          $a"CRC Press catalog number 8597; IEEE order number: PC5772"--
             P. 4 of cover.

504          $aIncludes bibliographical references and index.

650    _0    $aMobile communication systems.

700    1_    $aGibson, Jerry D.

997          $aMARCIVE
```

MMS IDs

Document ID:

999845739502121

Network Electronic IDs:

Network Physical IDs:

999845739502121

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9942381143602122

mms_ml_ids:

9913182913402124

mms_st_ids:

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Page 069

992225443402131

Attachment 3b

LIBRARY | CATALOG

Search Navigation 6 of 53

BOOK

The mobile communications handbook

Full Record MARC Tags

000		01208cam a2200289 a 4500
001		728325
005		20071031160257.0
008		980924s1999 fluab b 001 0 eng
906	__	|**a** 7 |**b** cbu |**c** orignew |**d** 1 |**e** ocip |**f** 19 |**g** y-gencatlg
955	__	|**a** pc20 to ja00 09-24-98; jg02 to subj. 09-25-98; jg12 09-28-98; jg08 09-29-98; CIP ver. jp25 03-12-99;
010	__	|**a** 98046558
020	__	|**a** 0849385970 (alk. paper)
035	__	|**9** (DLC) 98046558
040	__	|**a** DLC |**c** DLC |**d** DLC
050	00	|**a** TK6570.M6 |**b** M5934 1999
082	00	|**a** 621.3845 |**2** 21
245	04	|**a** The mobile communications handbook / |**c** editor-in-chief, Jerry D. Gibson.
250	__	|**a** 2nd ed.
260	__	|**a** Boca Raton : |**b** CRC Press ; |**a** [New York] : |**b** IEEE Press, |**c** c1999.
300	__	|**a** 1 v. (various pagings) : |**b** ill., col. maps ; |**c** 27 cm.
500	__	|**a** "CRC Press catalog number 8597; IEEE order number: PC5772"--P. 4 of cover.
504	__	|**a** Includes bibliographical references and index.
650	_0	|**a** Mobile communication systems.
700	1_	|**a** Gibson, Jerry D.
856	42	|**3** Publisher description |**u** http://www.loc.gov/catdir/enhancements/fy0744/98046558-d.html
920	__	|**a** ** LC HAS REQ'D # OF SHELF COPIES **
991	__	|**b** c-GenColl |**h** TK6570.M6 |**i** M5934 1999 |**t** Copy 1 |**w** BOOKS

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Request this Item | LC Find It

Item Availability

CALL NUMBER	TK6570.M6 M5934 1999 Copy 1
Request in	Jefferson or Adams Building Reading Rooms
Status	Not Charged

CALL NUMBER	TK6570.M6 M5934 1999 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

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Attachment 3c

OCLC Connexion [39:20]

Home | Help | Diacritics | Contact | Logoff

Cataloging | Authorities | Express | Dewey Services | General | OCLC

Search | Browse | Create | Show

* WorldCat | Browse Options | Create Options | Show Options

Record 1 of 1

Edit: Editing Bibliographic Record | Action: Action | View: MARC Template

WorldCat: The mobile communications handbook MARC Help

OCLC 39985639 — No holdings in CTA - 268 other holdings

Books | Rec Stat: c | Entered: 19980924 | Replaced: 20220702050654.2

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BLvl	m	Form		Conf	0	Biog		MRec		Ctry	flu
		Cont	b	GPub		LitF	0	Indx	1		
Desc	a	Ills	ab	Fest	0	DtSt	s	Dates	1999 ,		

010			98046558	Functions
040			DLC ‡b eng ‡c DLC ‡d NYP ‡d UKV3G ‡d BTCTA ‡d BAKER ‡d YDXCP ‡d OCLCQ ‡d SSJ ‡d OCLCF ‡d BDX ‡d CRCPR ‡d OCLCQ ‡d OCLCO ‡d I8M ‡d OCLCQ ‡d CSJ ‡d OCLCQ ‡d ZAP ‡d TKN ‡d OCLCQ ‡d CSA ‡d CPO ‡d OCLCQ ‡d UWO ‡d NAG ‡d UKMGB ‡d OCLCO	Functions
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016	7		010844036 $2 Uk	Functions
019			59392196 $a 733152486 $a 1022720019 $a 1038116653 $a 1191398884 $a 1201982741	Functions
020			0849385970 $q (alk. paper)	Functions
020			9780849385971 $q (alk. paper)	Functions
020			9781439874998	Functions
020			1439874999	Functions
020			9780849321672	Functions
020			0849321670	Functions
020			0780347269	Functions
020			9780780347267	Functions
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082	0	0	621.3845 $2 21	Functions
084			RO 59 $2 bleriscc	Functions

Attachment 3d

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Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh 85086371
LCCN Permalink: https://lccn.loc.gov/sh85086371
HEADING: Mobile communication systems

000 00558cz a2200205n 450
001 4736746
005 20120327094050.0
008 860211i| anannbabn |a ana
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035 __ |**a** (DLC)sh 85086371
035 __ |**a** (DLC)83431
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** TK5103.2 |**b** TK5103.4885
150 __ |**a** Mobile communication systems
450 __ |**a** Vehicles |**x** Communication systems
450 __ |**a** Vehicular communication systems
550 __ |**w** g |**a** Radio
550 __ |**w** g |**a** Wireless communication systems
906 __ |**t** 9604 |**u** te03 |**v** 1
953 __ |**a** xx00 |**b** td04

Previous Next

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Attachment 3e

LIBRARY | CATALOG

Search Navigation

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BOOK

The mobile communications handbook

Full Record MARC Tags

000		01208cam a2200289 a 4500
001		728325
005		20071031160257.0
008		980924s1999 fluab b 001 0 eng
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955	__	|**a** pc20 to ja00 09-24-98; jg02 to subj. 09-25-98; jg12 09-28-98; jg08 09-29-98; CIP ver. jp25 03-12-99;
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020	__	|**a** 0849385970 (alk. paper)
035	__	|**9** (DLC) 98046558
040	__	|**a** DLC |**c** DLC |**d** DLC
050	00	|**a** TK6570.M6 |**b** M5934 1999
082	00	|**a** 621.3845 |**2** 21
245	04	|**a** The mobile communications handbook / |**c** editor-in-chief, Jerry D. Gibson.
250	__	|**a** 2nd ed.

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Page 080

260	__	|**a** Boca Raton : |**b** CRC Press ; |**a** [New York] : |**b** IEEE Press, |**c** c1999.
300	__	|**a** 1 v. (various pagings) : |**b** ill., col. maps ; |**c** 27 cm.
500	__	|**a** "CRC Press catalog number 8597; IEEE order number: PC5772"--P. 4 of cover.
504	__	|**a** Includes bibliographical references and index.
650	_0	|**a** Mobile communication systems.
700	1_	|**a** Gibson, Jerry D.
856	42	|**3** Publisher description |**u** http://www.loc.gov/catdir/enhancements/fy0744/98046558-d.html
920	__	|**a** ** LC HAS REQ'D # OF SHELF COPIES **
991	__	|**b** c-GenColl |**h** TK6570.M6 |**i** M5934 1999 |**t** Copy 1 |**w** BOOKS

Request this Item

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Item Availability

CALL NUMBER	TK6570.M6 M5934 1999 Copy 1
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Status	Not Charged

CALL NUMBER	TK6570.M6 M5934 1999 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE

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Status	Not Charged

Ford Motor Co.
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Attachment 4a

LIBRARY | CATALOG

Search Navigation

2 of 13

BOOK

The application of programmable DSPs in mobile communications

Full Record MARC Tags

000		01356cam a22003014a 4500
001		12489964
005		20031001200411.0
008		010801s2002 enka b 001 0 eng
906	__	|**a** 7 |**b** cbc |**c** orignew |**d** 1 |**e** ocip |**f** 20 |**g** y-gencatlg
925	0_	|**a** acquire |**b** 2 shelf copies |**x** policy default
955	__	|**a** pc24 2001-08-01 to ASCD; |**c** jg11 2001-08-02 |**d** jg12 2001-08-06 |**e** jg08 2001-08-06 to Dewey |**a** aa07 2001-08-07 |**a** ps05 2002-01-14 bk rec'd, to CIP ver. |**f** yb40 2002-01-19 to BCCD; rev yb07 2002-01-19 |**e** yb40 2002-01-19 to BCCD
010	__	|**a** 2001045657
020	__	|**a** 0471486434 (alk. paper)
040	__	|**a** DLC |**c** DLC |**d** DLC
042	__	|**a** pcc
050	00	|**a** TK6570.M6 |**b** A65 2002
082	00	|**a** 621.3845/6 |**2** 21

Ford Motor Co.
Exhibit 1005
Page 084

245	04	|**a** The application of programmable DSPs in mobile communications / |**c** edited by Alan Gatherer and Edgar Auslander.
260	__	|**a** Chichester, England ; |**a** New York: |**b** Wiley, |**c** c2002.
300	__	|**a** xxv, 399 p. : |**b** ill. ; |**c** 25 cm.
504	__	|**a** Includes bibliographical references and index.
650	_0	|**a** Mobile communication systems.
650	_0	|**a** Signal processing |**x** Digital techniques.
650	_0	|**a** Digital control systems.
700	1_	|**a** Gatherer, Alan.
700	1_	|**a** Auslander, Edgar.
856	42	|**3** Publisher description |**u** http://www.loc.gov/catdir/description/wiley039/2001045657.html
856	41	|**3** Table of contents |**u** http://www.loc.gov/catdir/toc/wiley021/2001045657.html

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LC Find It

Item Availability

CALL NUMBER	TK6570.M6 A65 2002 Copy 1
Request in	Jefferson or Adams Building Reading Rooms
Status	Not Charged

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Page 085

Attachment 4b

OCLC 47746341 **No holdings in DGS - 149 other holdings**

Books

								Rec Stat		**Entered**	20010801	**Replaced**	20220917062113.4
Type	a	**ELvl**	4	**Srce**		**Audn**		**Ctrl**		**Lang**	eng		
BLvl	m	**Form**		**Conf**	0	**Biog**		**MRec**		**Ctry**	enk		
		Cont	b	**GPub**		**LitF**	0	**Indx**	1				
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	2002,				

010 2001045657
040 DLC $b eng $c DLC $d UKM $d OCLCQ $d BAKER $d BTCTA $d YDXCP $d IG# $d DEBBG $d OCLCQ $d ILU $d BDX $d OCLCF $d OCLCO $d OCLCQ $d EUN $d OCLCO $d NETUE $d OCLCQ $d ZAP $d OCLCQ $d NLW $d OCLCQ $d OCLCA $d OCLCO
015 GBA232561 $2 bnb
015 GBA1W8612 $2 bnb
016 7 011615482 $2 Uk
019 47271549 $a 1022695262
020 0471486434 $q (alk. paper)
020 9780471486435 $q (alk. paper)
042 pcc
050 00 TK6570.M6 $b A65 2002
082 00 621.3845/6 $2 21
084 ZN 6040 $2 rvk
090 $b
245 04 The application of programmable DSPs in mobile communications / $c edited by Alan Gatherer and Edgar Auslander.
260 Chichester, England ; $a New York : $b Wiley, $c ©2002.
300 xxv, 399 pages : $b illustrations ; $c 25 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
504 Includes bibliographical references and index.
505 00 $g 1. $t Introduction / $r Edgar Auslander and Alan Gatherer -- $g 2. $t The History of DSP Based Architectures in Second Generation Cellular Handsets / $r Alan Gatherer, Trudy Stetzler and Edgar Auslander -- $g 3. $t The Role of Programmable DSPs in Dual Mode (2G and 3G) Handsets / $r Chaitali Sengupta, Nicolas Veau and Sundararajan Sriram / $r [and others] -- $g 4. $t Programmable DSPs for 3G Base Station Modems / $r Dale Hocevar, Pierre Bertrand and Eric Biscondi / $r [and others] -- $g 5. $t The Use of Programmable DSPs in Antenna Array Processing / $r Matthew Bromberg and Donald R. Brown -- $g 6. $t The Challenges of Software-Defined Radio / $r Carl Panasik and Chaitali Sengupta.
650 0 Mobile communication systems.
650 0 Signal processing $x Digital techniques.
650 0 Digital control systems.
650 6 Radiocommunications mobiles. $0 (CaQQLa)201-0023226
650 6 Traitement du signal $x Techniques numériques. $0 (CaQQLa)201-0087536
650 6 Commande numérique. $0 (CaQQLa)201-0010804
650 7 Digital control systems. $2 fast $0 (OCoLC)fst00893655

650 7 Mobile communication systems. $2 fast $0 (OCoLC)fst01024207
650 7 Signal processing $x Digital techniques. $2 fast $0 (OCoLC)fst01118285
650 7 Signalprozessor $2 gnd $0 (DE-588)4054943-4
700 1 Gatherer, Alan.
700 1 Auslander, Edgar.
856 41 $3 Table of contents $u http://catdir.loc.gov/catdir/toc/wiley021/2001045657.html
856 42 $3 Publisher description $u http://catdir.loc.gov/catdir/description/wiley039/2001045657.html

Attachment 4c

OCLC Connexion [32:13] Home | Help | Diacritics | Contact | Logoff

Cataloging | Authorities | Express | Dewey Services | General | OCLC

Search | Browse | Create | Show

* WorldCat | Browse Options | Create Options | Show Options

WorldCat: The application of programmable DSPs in mobile communications MARC Help

OCLC 47746341 **No holdings in CTA - 149 other holdings**

Books **Rec Stat** c **Entered** 20010801 **Replaced** 20220917062113.4

Type	a	**ELvl**	4	**Srce**		**Audn**		**Ctrl**		**Lang**	eng
BLvl	m	**Form**		**Conf**	0	**Biog**		**MRec**		**Ctry**	enk
		Cont	b	**GPub**		**LitF**	0	**Indx**	1		
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	2002 ,		

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015			GBA232561 $2 bnb	Functions
015			GBA1W8612 $2 bnb	Functions
016	7		011615482 $2 Uk	Functions
019			47271549 $a 1022695262	Functions
020			0471486434 $q (alk. paper)	Functions
020			9780471486435 $q (alk. paper)	Functions
042			pcc	Functions
050	0	0	TK6570.M6 $b A65 2002	Functions
082	0	0	621.3845/6 $2 21	Functions
084			ZN 6040 $2 rvk	Functions
090			$b	Functions
049			CTAA	Functions
245	0	4	The application of programmable DSPs in mobile communications / $c edited by Alan Gatherer and Edgar Auslander.	Functions
260			Chichester, England ; $a New York : $b Wiley, $c ©2002.	Functions
300			xxv, 399 pages : $b illustrations ; $c 25 cm	Functions
336			text $b txt $2 rdacontent	Functions

Attachment 4d

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh 85122398
LCCN Permalink: https://lccn.loc.gov/sh85122398
HEADING: Signal processing Digital techniques

000 00468cz a2200181n 450
001 4771479
005 20120328080105.0
008 860211|| anannbabn |b ana
010 __ |**a** sh 85122398
035 __ |**a** (DLC)sh 85122398
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150 __ |**a** Signal processing |**x** Digital techniques
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550 __ |**a** Digital communications
550 __ |**w** g |**a** Digital electronics
906 __ |**t** 7825 |**u** fk03 |**v** 0
953 __ |**a** xx00

Previous Next

Save, Print or Email Records (View Help)

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Library of Congress
URL: https://www.loc.gov/

Mailing Address:
101 Independence Ave, S.E.
Washington, DC 20540

Library of Congress Authorities
URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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Page 092

Attachment 4e

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Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh 85037974
LCCN Permalink: https://lccn.loc.gov/sh85037974
HEADING: Digital control systems

000 00479cz a2200181n 450
001 4690007
005 20120323072233.0
008 860211|| anannbabn |b ana
010 __ |**a** sh 85037974
035 __ |**a** (DLC)sh 85037974
035 __ |**a** (DLC)36692
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** TJ223.M53 |**c** Mechanical engineering
150 __ |**a** Digital control systems
550 __ |**w** g |**a** Automatic control
550 __ |**w** g |**a** Electronic digital computers
906 __ |**t** 0899 |**u** ---- |**v** 0
953 __ |**a** xx00 |**b** ta29

Previous Next

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Library of Congress
URL: https://www.loc.gov/

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101 Independence Ave, S.E.
Washington, DC 20540

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URL: http://authorities.loc.gov/
Library of Congress Online Catalog
URL: https://catalog.loc.gov/

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Attachment 5a

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001    992718803405961
005    20191030185240.0
008    730705c19729999nyumr1p   b   0   a0eng
010    ##$a 73642335
012    ##$a2 $b3 $d7 $en $f- $gp $h- $i8601 $j0 $k1 $l1 $m1
019    ##$a1587957
022    0#$a0090-6778
030    ##$aIECMBT
032    ##$a256680 $bUSPS
035    ##$a(OCoLC)1785858
035    ##$9375745
035    ##$a(MoKL)271880-lhalldb
035    ##$a(lhalldb)271880-lhalldb
035    ##$z(OCoLC)1587957
037    ##$b345 East 47 Street, 10017
040    ##$aDLC $cDLC $dNSD $dOCL $dNSD $dOCL $dNSD $dAIP $dNST $dNSD
$dOCL $dNST $dDLC
042    ##$alc $ansdp
049    ##$aLHLA
050    00$aTK5101.A1 $bI2
110    2#$aIEEE Communications Society
210    0#$aIEEE trans. commun.
222    #0$aIEEE transactions on communications
245    10$aIEEE transactions on communications.
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246    10$aCommunications
260    ##$a[New York, $bInstitute of Electrical and Electronics
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300    ##$av. $bill. $c28 cm.
310    ##$aMonthly
362    0#$av. COM-20- Feb. 1972-
510    1#$aApplied science & technology index $x0003-6986
510    1#$aComputer & control abstracts $x0036-8113 $bFeb. 1972-
510    1#$aElectrical & electronics abstracts $x0036-8105 $bFeb.
1972-
510    1#$aIndex to IEEE publications $x0099-1368
510    1#$aPhysics abstracts. Science abstracts. Series A $x0036-
8091 $bFeb. 1972-
510    2#$aElectronics and communications abstracts journal
(Riverdale) $x0361-3313
510    2#$aEngineering index annual (1968) $x0360-8557
510    2#$aEngineering index bioengineering abstracts $x0736-6213
510    2#$aEngineering index energy abstracts $x0093-8408
510    2#$aEngineering index monthly (1984) $x0742-1974
510    2#$aInternational aerospace abstracts $x0020-5842
510    2#$aISMEC bulletin $x0306-0039
510    2#$aMathematical reviews $x0025-5629
510    2#$aPollution abstracts with indexes $x0032-3624
510    2#$aSafety science abstracts journal $x0160-1342
```

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510    0#$aChemical abstracts $x0009-2258
510    0#$aMathematical reviews $x0025-5629
510    0#$aNuclear science abstracts $x0029-5612
515    ##$aSome no. issued in parts.
550    ##$a"A publication of the IEEE Communications Society."
562    ##$aTitle received on deposit; do not claim as of 9.10.2010.
650    #0$aTelecommunication $vPeriodicals
710    2#$aInstitute of Electrical and Electronics Engineers
780    00$tIEEE transactions on communication technology $x0018-9332
$w(OCoLC)1752546
850    ##$aCU-I $aCaOTDT $aCaQMU $aCaSSU $aDLC $aFU $aIC $aMoKU
$aNNC $aNcD $aNcRS $aNcU $aPU $aTU $aTxArU
901    ##$cSer
936    ##$aUnknown $aJan. 1972 (surrogate)
948    ##$aLTI 09/01/2008
948    ##$aLTI 10/19/2010
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Attachment 5b

The Library of Congress

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LIBRARY OF CONGRESS AUTHORITIES

Help | New Search | Search History | Headings List | Start Over

Previous Next

MARC Display | Labelled Display

LC control no.: sh2008112739
LCCN Permalink: https://lccn.loc.gov/sh2008112739
HEADING: Telecommunication Periodicals

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001 7470976
005 20110729160851.0
008 080311|| anannbabn |n ana
010 __ |**a** sh2008112739
035 __ |**a** (DLC)389242
035 __ |**a** (DLC)sh2008112739
040 __ |**a** DLC |**b** eng |**c** DLC
150 __ |**a** Telecommunication |**v** Periodicals
667 __ |**a** Record generated for validation purposes.
670 __ |**a** Work cat.: Denshi Jōhō Tsūshin Gakkai ... Jōhō Shisutemu Sosaietī Taikai kōen ronbunshū =,
906 __ |**t** 8888 |**u** te00 |**v** 0
953 __ |**a** te00

Previous Next

Save, Print or Email Records (View Help)

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Ford Motor Co.
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Attachment 5c

OCLC 1785858 **No holdings in XXX - 516 other holdings**

Continuing Resources

								Rec Stat		**Entered**	19730705	**Replaced**	20210421191022.5
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Desc		**SrTp**	p	**Cont**	b	**DtSt**	c	**Dates**	1972	,	9999		

010 73642335
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016 7 009844985 $2 Uk
019 1587957 $a 31464822 $a 185062850 $a 255563447 $a 606081819 $a 866114046 $a 963574779 $a 1011793505 $a 1063567005 $a 1154212527 $a 1205157814 $a 1205538431 $a 1242840936 $a 1246534277
022 0 0090-6778 $l 0090-6778 $2 1
030 IECMBT
032 256680 $b USPS
037 $b 345 East 47 Street, 10017
042 pcc $a nsdp
050 00 TK5101.A1 $b I2
082 04 621.38/05
090 $b
110 2 IEEE Communications Society.
210 0 IEEE trans. commun. $b (Print)
222 0 IEEE transactions on communications $b (Print)
245 10 IEEE transactions on communications.
246 30 Transactions on communications
246 30 Communications
260 [New York], $b [Institute of Electrical and Electronics Engineers]
300 volumes $b illustrations $c 28 cm
310 Monthly
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
362 0 v. COM-20- Feb. 1972-
510 0 Chemical abstracts $x 0009-2258
515 Some no. issued in parts.
550 "A publication of the IEEE Communications Society."
650 0 Telecommunication $v Periodicals.
650 6 Télécommunications $v Périodiques.
650 7 Telecommunication. $2 fast $0 (OCoLC)fst01145830
650 17 Telecommunicatie. $2 gtt
655 7 Periodicals. $2 fast $0 (OCoLC)fst01411641

655 7 Periodicals. $2 lcgft
710 2 Institute of Electrical and Electronics Engineers.
776 08 $i Online version: $t IEEE transactions on communications (Online) $x 1558-0857 $w (DLC) 2005215217 $w (OCoLC)44466288
776 08 $i Online version: $a IEEE Communications Society. $t IEEE transactions on communications $w (OCoLC)565428694
780 00 $t IEEE transactions on communication technology $x 0018-9332 $w (OCoLC)1752546
856 41 $u http://ieeexplore.ieee.org/servlet/opac?punumber=26

Attachment 5d

OCLC Connexion [39:41] Home | Help | Diacritics | Contact | Logoff

Cataloging | Authorities | Express | Dewey Services | General | OCLC

Search | Browse | Create | Show

* WorldCat | Browse Options | Create Options | Show Options

OCLC 1785858 **No holdings in CTA - 516 other holdings**

Continuing Resources **Rec Stat** c **Entered** 19730705 **Replaced** 20210421191022.5

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S/L	0	**Orig**		**EntW**		**Regl**	r	**Alph**	a		
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016	7		009844985 $2 Uk	Functions
019			1587957 $a 31464822 $a 185062850 $a 255563447 $a 606081819 $a 866114046 $a 963574779 $a 1011793505 $a 1063567005 $a 1154212527 $a 1205157814 $a 1205538431 $a 1242840936 $a 1246534277	Functions
022	0		0090-6778 $l 0090-6778 $2 1	Functions
030			IECMBT	Functions
032			256680 $b USPS	Functions
037			$b 345 East 47 Street, 10017	Functions
042			pcc $a nsdp	Functions
050	0	0	TK5101.A1 $b I2	Functions
082	0	4	621.38/05	Functions
090			$b	Functions
049			CTAA	Functions
110	2_		IEEE Communications Society.	Functions
210	0		IEEE trans. commun. $b (Print)	Functions
222		0	IEEE transactions on communications $b (Print)	Functions
245	1	0	IEEE transactions on communications.	Functions
246	3	0	Transactions on communications	Functions

Attachment 6

MARC STANDARDS

Frequently Asked Questions (FAQ)

Network Development and MARC Standards Office
Library of Congress

General Information

- What is MARC 21? What does the acronym "MARC" mean?
- How does MARC 21 differ from the USMARC and CAN/MARC formats?
- Who maintains the MARC 21 formats?
- What are the Network Development and MARC Standards Office and the Standards Division?
- Are there any discussion groups or forums for the MARC 21 formats?

MARC 21 Documentation

- What documentation is available and how do I obtain it?
- How often is MARC 21 documentation updated?
- May I use excerpts from MARC 21 documentation?

MARC 21 Tutorials

- Are there any tutorials for the MARC 21 formats?

MARC, SGML, XML and other metadata standards

- Are there SGML or XML versions of the MARC 21 formats?
- Is MARC 21 mapped to other metadata standards? Are other standards mapped to MARC 21?

MARC 21 Translations

- Are there any translations of the MARC 21 formats?
- I would like to translate a MARC 21 publication. What should I do?

Tools, Systems and Services That Work With MARC 21

- Is there a list of tools compatible with the MARC 21 formats?
- Is there a list of MARC 21 record services?
- How do I add a record service, vendor system or tool to these lists?
- What systems are compatible with the MARC 21 formats?

Making Changes to the MARC 21 Formats and Code Lists

- How do I report errors in MARC 21 documentation?
- How do I propose making a change to the MARC 21 formats?
- How do I request new or revised MARC 21 organization codes?
- How do I request MARC 21 relator, sources, or description convention codes?

Record Requirements and Record and File Specifications for MARC 21

- Where do I find the U.S. National Level/Minimal Level Record Requirements for the MARC 21 formats?
- What are the appropriate record and file specifications for the formats?
- What are the specifications for character sets?

Electronic resources and MARC 21

- How do I code electronic resources in a MARC 21 record?

Ford Motor Co.
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General Information

What is MARC 21? What does the acronym "MARC" mean?

MARC is the acronym for MAchine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began nearly forty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today. MARC became USMARC in the 1980s and MARC 21 in the late 1990s.

How does MARC 21 differ from the USMARC and CAN/MARC formats?

MARC 21 is not a new format. After having discussions and making minor changes to both formats that accommodated USMARC and CAN/MARC users' specific needs, the USMARC and CAN/MARC (Canadian MARC) formats were "harmonized" into MARC 21 in 1997. See //www.loc.gov/marc/annmarc21.html for more information about the harmonization.

Who maintains the MARC 21 formats?

The Network Development and MARC Standards Office at the Library of Congress and the Standards and the Support Office at the Library and Archives Canada maintain the MARC 21 formats. Input for development is provided by MARC 21 users from around the world, including libraries, library networks and utilities, and library system vendors. See //www.loc.gov/marc/overview.html for more information about the development and maintenance of the formats.

What are the Network Development and MARC Standards Office and the Standards Division?

The Network Development and MARC Standards Office plans and develops library and information network standards at the Library of Congress. It is the maintenance agency for several national standards, including the MARC 21 formats.To contact it, please e-mail ndmso@loc.gov.

The Standards Division at the Library and Archives Canada maintains and supports the MARC 21 formats and other library standards. To contact it, please e-mail BAC.Normesdecatalogage-Cataloguingstandards.LAC@canada.ca.

Are there any discussion groups or forums for the MARC 21 formats?

The MARC Forum is a listserv maintained by the Network Development and MARC Standards Office and is open to anyone interested in the implementation, maintenance and development of the MARC 21 formats. The forum provides an opportunity for members of the information community to participate in discussions related to the formats. Vendor, network, technical service, automation, and reference staff and researchers are encouraged to participate. While there is a close linkage between MARC 21 and the cataloging of materials, the focus of the forum is on the use of MARC 21 as a communications format.

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MARC 21 Documentation

What documentation is available and and how do I obtain it?

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The MARC Standards page has links to both extensive documentation on MARC 21, including both the full and concise formats, code and field lists, information about MARC 21 development, and documentation to help users with the MARC 21 format. There is a format overview listing changes to MARC documentation. Some documentation is also available in translation. A bibliography is also available on the Library's MARC Standards webpage.

Documentation of French versions of some of the formats in Canada is available at Library and Archives Canada.

How often is MARC 21 documentation updated?

The MARC 21 formats are updated two times per year, in the spring and fall. Other documentation is updated as it becomes necessary.

May I use excerpts from MARC 21 documentation?

Using excerpts is permissible as long as credit is given.

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MARC 21 Tutorials

Is there a tutorial for the MARC 21 formats?

Understanding MARC Bibliographic is a good introduction to the MARC 21 bibliographic format and includes a bibliography, discussion questions and examples. It is widely used and has been translated into several different languages.

Understanding MARC Authority Records is a good introduction to the MARC 21 authority format and includes a bibliography, discussion questions and examples.

Both *Understanding MARC Bibliographic* and *Understanding MARC Authority Records* are also available as booklets from the Cataloging Distribution Service.

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MARC 21, SGML, XML and other metadata standards

Are SGML or XML versions of the MARC 21 formats available?

The Network Development and MARC Standards Office has developed a framework for working with MARC data in a XML environment. This framework is intended to be flexible and extensible, allowing users to work with MARC data in ways that meet their specific needs. The framework contains many components such as schemas, stylesheets, and software tools developed and maintained by the Library of Congress. Conversion utilities between MARC (ISO 2709) and MARCXML are also available. Please see www.loc.gov/marc/marcxml.html.

The Network Development and MARC Standards Office also developed a MARC to SGML and SGML to MARC conversion program. The following documents contain the program and additional information:

- MARC DTDs: Background and Development
- MARC DTDs: Beta Test Version
- MARC-SGML and SGML-MARC Conversion Program User Guide
- MARC-SGML and SGML-MARC Conversion Programs Maintenance Guide

A list of some tools that work with HTML, SGML and XML applications is at //www.loc.gov/marc/marctools.html.

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Is MARC 21 mapped to other metadata standards? Are other standards mapped to MARC 21?

MARC 21 has been mapped to the following metadata standards:

- MODS
- Dublin Core
- MARC Character Sets to UCS/Unicode
- Digital Geospatial Metadata
- RDA (See Tools tab)

The following metadata standards have been mapped to MARC 21:

- MODS
- Dublin Core
- UNIMARC to MARC 21
- ONIX
- Digital Geospatial Metadata to MARC
- RDA (See Tools tab)

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MARC 21 Translations

Are there any translations of the MARC 21 formats?

The MARC 21 Translations page contains a list of documents that are either direct translations or close adaptations of the MARC 21 formats and other MARC documentation. Where applicable, information regarding differences between the translations and MARC 21 is provided. The formats are listed alphabetically by the language of each translation and include full bibliographic citations and contact information.

I would like to translate a MARC 21 publication. What should I do?

Translations of the MARC 21 formats and other MARC documentation are greatly encouraged because of their usefulness to the entire MARC 21 community. The Network Development and MARC Standards Office does ask that intellectual credit information be included in the translation. The following statement is recommended:

> "The MARC 21 [insert name of publication that was translated] was originally prepared by the Network Development MARC Standards Office, Library of Congress and the Standards Division, Library and Archives Canada. It has been translated with permission."

Once you complete your translation, please send the Network Development and MARC Standards Office an official announcement that includes your publication's bibliographic information and contact information on obtaining copies. If possible, send a printed copy for our collection of translations. If the translation is available on the Internet, please include its URL for inclusion on the MARC 21 Translations page. Listing a translation is not mandatory; however translations are extremely useful to other MARC 21 users.

A Translators's Tools page contains additional information about translating MARC 21 documents.

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Tools, Systems and Services That Work With MARC 21

Is there a list of tools compatible with the MARC 21 formats?

A list of some of the bibliographic tools that support the MARC 21 formats is at www.loc.gov/marc/marctools.html. It includes software programs that provide enhanced usability to MARC 21 records and systems. Some of the tools are freeware or open source.

Is there a list of MARC 21 record services?

A list of some of the record services that support the MARC 21 formats is at www.loc.gov/marc/marcrecsvrs.html. It includes services that distribute MARC 21 records, such as records for copy cataloging, records supplied with materials, records used for recon purposes, updated records, conversion services, etc.

What systems are compatible with the MARC 21 formats?

A list of some of the systems that support the MARC 21 formats is at www.loc.gov/marc/marcsysvend.html. The list includes systems that collect, organize and manage MARC 21 records.

How do I add a record service, vendor system or tool to these lists?

Vendors, software producers, and anyone else who provides vendor records, system services, or who has developed specialized MARC tools, are encouraged to fill out a submission form.

Please note: Individuals who submit the form on someone else's behalf should put their contact information in the “Citation Contact” field and the name of the individual/company on whose behalf the form is submitted in the “Product Contact” field.

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Making Changes to the MARC 21 Formats and Code Lists

How do I report errors in MARC 21 documentation?

If you notice an error or omission in either the print or online MARC 21 documentation, please contact ndmso@loc.gov. Describe the error and where it occurs. Please be as specific as possible.

How do I propose making a change to the MARC 21 formats?

Proposals for changes to the formats may originate from any MARC 21 user. Please either fill out the MARC 21 Formats Proposed Change Form or contact the Network Development and MARC Standards Office at the Library of Congress or the Standards division at the Library and Archives Canada. Maintenance agency staff at the Library of Congress and the Library and Archives Canada write, edit and review proposals and discussion papers twice a year and distribute them via the MARC Forum listserv and the MARC Standards web site. Discussions at the semiannual MARBI (Machine-Readable Bibliographic Information) meetings in the United States and the annual CCM (Canadian Committee on MARC) meeting in Canada, along with suggestions received by e-mail and the listserv, are used by the maintenance agencies to make final decisions on the proposals.

How do I request new or revised MARC 21 organization codes?

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Before requesting a MARC 21 organization code, please first search the *MARC Code List for Organizations*. If you do not find a code for your organization, click on one of these links to access a request form in the language of your choice.

[ENGLISH] [ESPAÑOL] [PORTUGUÊS]

You may use the online form to request up to three codes. If more than three codes are needed, please submit a list of the organizations with their names and addresses (including street, city, state, postal code, and country) via email to ndmso@loc.gov Please include contact information. Note: Attachments to e-mail messages are not accepted.

The *MARC Code List for Organizations* is updated frequently, as codes are often added. Since information in a request must be verified and then incorporated into the list, there is a short delay between the time of the request and the appearance of a newly-assigned code in the database. Names and addresses are revised when changes are reported.

Requests for the assignment of new codes or changes involving organizations in Canada should be sent to the Interlibrary Loan Division at the Library and Archives Canada.

Requests for the assignment of new codes or changes involving organizations in the United Kingdom should be sent to the UK National Agency for MARC Organisation Codes at the British Library.

Requests for the assignment of new MARC organization codes or for changes to codes may also be sent via fax to +1-202-707-0115 or by surface mail to:

Library of Congress
Network Development and MARC Standards Office
101 Independence Avenue, S.E.
Washington, DC, 20540-4402 USA

How do I request MARC 21 relator, sources or description convention codes?

Requests for relators, sources or description convention codes should be sent to ndmso@loc.gov.

Requests can also be faxed to +1-202-707-0115 or sent by surface mail to:

Library of Congress
Network Development and MARC Standards Office
101 Independence Avenue, S.E.
Washington, DC, 20540-4402 USA

Requests should include a full bibliographic citation and a scan, photocopy or Internet link for the item to be added.

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Record Requirements and Record and File Specifications for MARC 21

Where do I find the U.S. National Level/Minimal Level Record Requirements for the MARC 21 formats?

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There is no list of of "mandatory" data elements that must appear in a MARC 21 record. Thereotically, a record could simply consist of a leader and a 245 (title) field. However, there is a list of the MARC 21 data elements required to meet minimal and national level requirements in the United States for the bibliographic and authority formats. Please note that other countries may have different lists of required data elements.

What are the appropriate record and file specifications for the formats?

Information about the file specifications for the MARC 21 formats is in *MARC 21 Specifications for Record Structure, Character Sets, and Exchange Media*. This document is also available from the Cataloging Distribution Service. For a basic introduction to MARC 21 file and record structure, you may also want to look at *Understanding MARC Bibliographic*.

What are the specifications for character sets?

MARC 21 records intended for broad, standard interchange should be encoded according to the following specifications. Either an 8-bit based encoding system (called MARC-8 in MARC 21 documentation) or a variable 8/16-bit encoding following ISO/IEC 10646 (UCS) and Unicode UTF-8 encoding rules (called UCS/Unicode UTF-8 in MARC 21 documentation) may be used.

A very large repertoire of characters is defined for use in the MARC-8 environment. For standard MARC 21 interchange, the use of UCS/Unicode UTF-8 is limited to this same repertoire, a subset of UCS/Unicode. This is necessary for interchange until all systems fully accommodate the complete UCS/Unicode repertoire of characters. This restriction will be periodically reviewed as the character encoding environment develops.

Please see //www.loc.gov/marc/specifications/speccharintro.html for detailed information on MARC 21 character sets.

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Electronic resources and MARC 21

How do I code electronic resources in a MARC 21 record?

The document *Guidelines for Coding Electronic Resources in Leader/06* assists users coding fixed fields in records for electronic resources. *Guidelines for the Use of Field 856* provides guidance on using field 856 (Electronic location and access) in all the MARC 21 formats. *Guidelines for Distinguishing Cartographic Electronic Resources from other Electronic Resources* assists catalogers working with cartographic electronic resources.

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Go to:

- MARC Standards Home Page
- Library of Congress Home Page

Library of Congress

Library of Congress Help Desk (07/12/2006)

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Attachment 7

650 - Subject Added Entry-Topical Term (R)

MARC 21 Bibliographic - Full **July 2022**

First Indicator
Level of subject
- No information provided
0 - No level specified
1 - Primary
2 - Secondary

Second Indicator
Thesaurus
0 - Library of Congress Subject Headings
1 - LC subject headings for children's literature
2 - Medical Subject Headings
3 - National Agricultural Library subject authority file
4 - Source not specified
5 - Canadian Subject Headings
6 - Répertoire de vedettes-matière
7 - Source specified in subfield $2

Subfield Codes

Main term portion
$a - Topical term or geographic name entry element (NR)
$b - Topical term following geographic name entry element (NR)
$c - Location of event (NR)
$d - Active dates (NR)
$e - Relator term (R)
$g - Miscellaneous information (R)
$4 - Relationship (R)

Subject subdivision portion
$v - Form subdivision (R)
$x - General subdivision (R)
$y - Chronological subdivision (R)
$z - Geographic subdivision (R)

Control subfields
$0 - Authority record control number or standard number (R)
$1 - Real World Object URI (R)
$2 - Source of heading or term (NR)
$3 - Materials specified (NR)
$6 - Linkage (NR)
$7 - Data provenance (R)
$8 - Field link and sequence number (R)

FIELD DEFINITION AND SCOPE

Subject added entry in which the entry element is a topical term.

Topical subject added entries may consist of general subject terms including names of events or objects. Subject added entries are assigned to a bibliographic record to provide access according to generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH)). Field 650 may be used by any institution assigning subject headings based on the lists and authority files identified in the second indicator position or in subfield $2 (Source of heading or term).

A title (e.g., Bible and atheism), a geographic name (e.g., Iran in the Koran), or the name of a corporate body (e.g., Catholic Church and humanism) used in a phrase subject heading are also recorded in field 650.

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GUIDELINES FOR APPLYING CONTENT DESIGNATORS

■ INDICATORS

First Indicator - Level of subject
Used to distinguish primary and secondary descriptors.

 # - No information provided

0 - No level specified
Level of the subject term could be determined but is not specified.

650 00$a Flour industry**$v**Periodicals.

1 - Primary
Main focus or subject content of the material.

650 17$a Career Exploration.**$2**ericd
650 #7$a Career Exploration.**$2**ericd
650 17$a Cooks.**$2**ericd

2 - Secondary
Less important aspect of the content of the material.

650 27$a Food Service.**$2**ericd
650 27$a Junior High Schools.**$2**ericd
650 27$a Simulation.**$2**ericd
[Primary and secondary subject content identified.]

Second Indicator - Thesaurus
Subject heading system or thesaurus used in constructing the subject heading.

0 - Library of Congress Subject Headings
Subject added entry conforms to and is appropriate for use in the *Library of Congress Subject Headings* (LCSH) and the Name authority files that are maintained by the Library of Congress.

1 - LC subject headings for children's literature
Subject added entry conforms to the "AC Subject Headings" section of the *Library of Congress Subject Headings* and is appropriate for use in the LC Annotated Card Program.

2 - Medical Subject Headings
Subject added entry conforms to and is appropriate for use in the National Library of Medicine authority files.

3 - National Agricultural Library subject authority file
Subject added entry conforms to and is appropriate for use in the National Agricultural Library subject authority file.

4 - Source not specified
Subject added entry conforms to a controlled list that cannot be identified by second indicator values 0-3, 5-6 or by a code in subfield $2. Field 653 (Index Term-Uncontrolled) is used to record terms that are not derived from controlled subject heading lists.

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5 - Canadian Subject Headings
Subject added entry conforms to and is appropriate for use in the *Canadian Subject Headings* that is maintained by the Library and Archives Canada.

6 - Répertoire de vedettes-matière
Subject added entry conforms to the *Répertoire de vedettes-matière* that is maintained by the Bibliothèque de l'Université Laval and/or name authority files maintained by libraries in Canada using French as the language of description.

7 - Source specified in subfield $2
Subject added entry conforms to a set of subject heading system/thesaurus building rules. The identifying code is given in subfield $2.

■ SUBFIELD CODES

$a - Topical term or geographic name entry element
Topical subject or a geographic name used as an entry element for a topical term. Parenthetical qualifying information associated with the term is not separately subfield coded.

650 #0$a Amish.
650 #0$a Kalmyk cattle.
650 #0$a Astronauts.
650 #0$a Egypt in the Bible.
650 #0$aBASIC (Computer program language)
650 #0$a Bull Run, 2d Battle, 1862.
650 #0$a Concertos (String orchestra)
650 #0$a Vocal music**$z**France**$y**18th century.
650 #0$a Dentistry**$v**Juvenile films.
650 #5$a Canadian wit and humor (English)

$b - Topical term following geographic name entry element
Topical term that is entered under a geographic name contained in subfield $a. This construction is not used in AACR2 formulated records.

650 #0$a Caracas.**$b**Bolivar Statue.

$c - Location of event

$d - Active dates
Time period during which an event occurred.

$e - Relator term
Specifies the relationship between the topical heading and the described materials, e.g., depicted.

650 #0$a Seabiscuit (Race horse),**$e**depicted.
[Photograph of Seabiscuit, the race horse.]
650 #0$a Unicorns,**$e**depicted.
[Bayeux Tapestry, showing a unicorn.]

$g - Miscellaneous information
Data element that is not more appropriately contained in another defined subfield.

$v - Form subdivision

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Form subdivision that designates a specific kind or genre of material as defined by the thesaurus being used. Subfield $v is appropriate only when a form subject subdivision is added to a main term.

650 #0$a Scuba diving**$v**Periodicals.

650 #0$a Vomiting**$x**Treatment**$v**Handbooks, manuals, etc.

$x - General subdivision

Subject subdivision that is not more appropriately contained in subfields $v (Form subdivision), $y (Chronological subdivision), or $z (Geographic subdivision). Subfield $x is appropriate only when a general topical subdivision is added to a main term.

650 #0$a Racetracks (Horse-racing)**$z**United States**$x**History.

650 #0$a Numismatics**$x**Collectors and collecting.

$y - Chronological subdivision

Subject subdivision that represents a period of time. Subfield $y is appropriate only when a chronological subject subdivision is added to a main term.

650 #0$a Music**$y**500-1400.

$z - Geographic subdivision

Geographic subject subdivision. Subfield $z is appropriate in field 650 only when a geographic subject subdivision is added to a main term.

650 #0$a World War, 1939-1945**$x**Campaigns**$z**Tunisia.

650 #0$a Real property**$z**Mississippi**$z**Tippah County**$v**Maps.

$0 - Authority record control number or standard number

See description of this subfield in Appendix A: *Control Subfields*.

$1 - Real World Object URI

See description of this subfield in Appendix A: *Control Subfields*.

$2 - Source of heading or term

MARC code that identifies the source list from which the subject added entry was assigned. It is used only when the second indicator position contains value 7 (Source specified in subfield $2). Code from: *Subject Heading and Term Source Codes*.

650 #7$a Educational buildings**$z**Washington (D.C.)**$y**1890-1910.**$2**lctgm

650 17$a Acoustic measurement.**$2**test

$3 - Materials specified

Part of the described materials to which the field applies.

$4 - Relationship

Code or URI that specifies the relationship from the entity described in the record to the entity referenced in the field. A source of relationship codes is: *MARC Code List for Relators*.

$6 - Linkage

See description of this subfield in Appendix A: *Control Subfields*.

$7 - Data provenance

See description of this subfield in Appendix J: *Data Provenance Subfields*.

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$8 - Field link and sequence number
See description of this subfield in Appendix A: *Control Subfields*.

INPUT CONVENTIONS

Ambiguous Headings - See Appendix E.

Punctuation - Field 650 ends with a mark of punctuation or a closing parenthesis. If the final subfields are subfield $2 or $3, the mark of punctuation precedes those subfields.

650 17$a Career Exploration.**$2**ericd
650 #0$a Ballads, English**$z**Hudson River Valley (N.Y. and N.J.)

Main term portion followed by a subject subdivision does not end with a mark of punctuation unless the main term portion ends with an abbreviation, initial/letter, or open date.

650 #0$a Rain and rainfall**$z**Washington (State)**$z**Seattle**$v**Maps.

Spacing - No spaces are used in initialisms, acronyms, or abbreviations.

650 #0$aMARC formats.
650 #0$aC.O.D. shipments.

Display Constant

- *[dash associated with the content of subfield $v, $x, $y, or $z]*

Dash (-) that precedes a subject subdivision in an extended subject heading is not carried in the machine-readable record. It may be system generated as a display constant associated with the content of subfield $v, $x, $y, and $z.

Content designated field :
650 #0$a Nuclear energy**$x**History.
Display example:
Nuclear energy-History.

Initial Article - Initial articles (e.g., The) occurring at the beginning of topical subject added entry fields are usually omitted in most languages (except when the intent is to file on the article).

Any diacritics and/or special characters occurring at the beginning of fields are retained. Note that such characters are usually ignored for purposes of sorting and filing.

CONTENT DESIGNATOR HISTORY

$b - Topical term following geographic name as entry element [OBSOLETE, 1981]
Subfield was restored for use in retrospective record conversion in 1987.
$g - Miscellaneous information [NEW, 2014]
$0 - Authority record control number [NEW, 2007]
$0 - Authority record control number [REDEFINED, 2010]
$1 - Real World Object URI [NEW, 2017]
$4 - Relator code [NEW, 2005]
$4 - Relator code [RENAMED, 2017] [REDESCRIBED, 2017]
Subfield $4 was renamed and redescribed to allow for the recording of relationship URIs in addition to MARC and non-MARC codes.

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$7 - Data provenance [NEW, 2022]

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Attachment 8

050 - Library of Congress Call Number (R)

MARC 21 Bibliographic - Full **December 2017**

First Indicator
Existence in LC collection
- No information provided
0 - Item is in LC
1 - Item is not in LC

Second Indicator
Source of call number
0 - Assigned by LC
4 - Assigned by agency other than LC

Subfield Codes
$a - Classification number (R)
$b - Item number (NR)
$0 - Authority record control number or standard number (R)
$1 - Real World Object URI (R)
$3 - Materials specified (NR)
$6 - Linkage (NR)
$8 - Field link and sequence number (R)

FIELD DEFINITION AND SCOPE

Classification or call number that is taken from *Library of Congress Classification* or *LC Classification Additions and Changes*. The brackets that customarily surround alternate class/call numbers are not carried in the MARC record; they may be generated based on the presence of repeated $a subfields.

Second indicator values distinguish between content actually assigned by the Library of Congress and content assigned by an organization other than LC.

Note that only subfield $u is locally defined. The entire field description is repeated here for ease of use of this document.

GUIDELINES FOR APPLYING CONTENT DESIGNATORS

■ INDICATORS

First Indicator - Existence in LC collection
Whether or not the item is contained in the LC collections.

 # - No information provided
Used for all call numbers assigned by agencies other than the Library of Congress.

050 #4$a**NB933.F44**$bT6

0 - Item is in LC
Item is in the LC collections under the call number given in the field.

Other agencies should use this value when transcribing from LC cataloging copy on which the call number is neither enclosed within brackets nor preceded by a Maltese cross.

050 00$a**Z695.7**$b.B37 1980

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1 - Item is not in LC
Item is not in the LC collections, or that it is not shelved under that number.

Used by other agencies when transcribing from LC copy on which the call number appears in brackets or is preceded by a Maltese cross. Brackets that customarily surround call numbers for items not in LC are not carried in the MARC record; they may be generated for display.

050 10$a**BJ1533.C4**$bL49

Second Indicator - Source of call number
Whether the source of the class/call number is the Library of Congress or another organization.

0 - Assigned by LC
Used when an institution is transcribing from LC cataloging copy.

050 00$a**JK609**$b.M2

4 - Assigned by agency other than LC

■ SUBFIELD CODES

$a - Classification number
Classification number portion of the call number. The source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*. Subfield $a is repeated to record an alternative class number. The alternate class number is recorded following the last subfield of the call number. If the alternate class number also includes an item number, the item number is included in the same subfield $a as the alternate class number; it is not separately subfielded.

050 00$a**QC861.2**$b.B36
050 00$a**Z695.7**$b.B37 1980
050 00$a**Z7164.N3**$bL34 no. 9**$a**Z7165.R42**$a**HC517.R42
050 00$aRC951

$b - Item number
Item number portion of the call number. An item number is the Cutter, date, term, etc. that is added to a classification number to distinguish an item from any other item assigned the same classification number.

Organizations that use the *Cutter-Sanborn Three-Figure Author Table* may conform to Library of Congress item number practice by applying *Subject Cataloging Manual: Shelflisting* conventions.

050 00$a**JX1974.7**$b.M5
050 00$a**Z673.L7**$bY
050 10$a**HF5726**$b.B27 1980

050 00$a**E506.5 6th**$bG
050 00$a**E514.6 10th**$b.T76 1905
[The above two call numbers are call numbers for regimental histories.]

$0 - Authority record control number or standard number
See description of this subfield in Appendix A: *Control Subfields*.

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$1 - Real World Object URI
See description of this subfield in Appendix A: *Control Subfields*.

$3 - Materials specified
Part of the described material to which the field applies. The subfield is used with archival-type materials; its use is parallel with the use of subfield $3 in other fields.

$6 - Linkage
See description of this subfield in Appendix A: *Control Subfields*.

$8 - Field link and sequence number
See description of this subfield in Appendix A: *Control Subfields*.

INPUT CONVENTIONS

LCCNs - When the call number field consists only of a class number (letters followed by numbers, possibly including a period and also a space), no subfield $b is used.

050 00$aQA37
050 00$aE525.5 123d

General rule is that the item number part of the call number begins at the last capital letter in the call number or the period, if present, preceding it.

050 00$a**HF5549.5.R44**$bM35

Exceptions to the general rule for item numbers:

If the call number is followed by only a date, with no Cutter number, the date is contained in subfield $b.

050 00$a**E457.92**$b1967

If the call number is followed by volume numbering that includes uppercase letters, these letters are ignored in locating the last capital letter.

050 00$a**JX1977**$b.A2 St/ESA/35
050 00$a**HA1501**$bA, Nr. 615
050 00$a**HD28**$b.Y555 vol. 55 Suppl.

If the call number begins with CS71, subfield $b contains the date.

050 00$a**CS71.C323**$b1977

If the call number is for a classification schedule (i.e., it is a call number beginning with Z696.U5), the class letter(s) for the particular classification and any following digit(s) are recorded in subfield $a (as part of the classification). Subfield $b contains the date.

050 00$a**Z696.U5E3**$b1958
050 00$a**Z696.U5H-HJ**$b1981

Abbreviations *subser.* and *Suppl.* are recorded in subfield $b, even when there is no item number.

Capitalization - Alphabetic characters in the classification number portion of the field are generally uppercase.

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Spacing - Any spaces that are desired as part of the call number must be input.

050 00$a**DK274.3 1968**$b.K39
050 00$a**VM341**$b.M9 vol. 48
050 00$a**CS71.C323**$b1977

Display Constant

[...] *[brackets]*

Brackets that customarily surround call numbers for items not in LC or alternate class/call numbers are not carried in the MARC record. They may be system generated as a display constant associated with the first indicator value 1 or additional $a subfields.

Content designated field:
050 10$a**HF5726**$b.B27 1980
Display example:
[HF5726.B27 1980]

CONTENT DESIGNATOR HISTORY

Indicator 1 - Existence in LC collection
 # - No information provided
Prior to the definition of code 4 in the second indicator position in 1982, the first indicator in the visual materials specifications was undefined. Visual materials records created prior to 1982 may contain a # meaning *undefined* in the first indicator position.

Indicator 2 - Series call number (SE) [OBSOLETE]
In the serials specifications, the use of the second indicator position to indicate the type of series was made obsolete in 1976. The values were: 0 (No series involved), 1 (Main series), 2 (Subseries), 3 (Sub-subseries).

Indicator 2 - Source of call number
 # - No information provided [OBSOLETE]
Second indicator was defined in 1982. Prior to that change, 050 was an agency-assigned field and contained only call numbers assigned by the Library of Congress. LC records created before the definition of this indicator may contain a blank (#) meaning *undefined* in this position.

$d - Supplementary class number (MU) [OBSOLETE, 1981]
$0 - Authority record control number or standard number [NEW, 2017]
$1 - Real World Object URI [NEW, 2017]

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Attachment 9

005 - Date and Time of Latest Transaction (NR)

MARC 21 Bibliographic - Full **February 1999**

Indicators and Subfield Codes

This field has no indicators or subfield codes.

FIELD DEFINITION AND SCOPE

Sixteen characters that indicate the date and time of the latest record transaction and serve as a version identifier for the record. They are recorded according to *Representation of Dates and Times* (ISO 8601). The date requires 8 numeric characters in the pattern *yyyymmdd*. The time requires 8 numeric characters in the pattern *hhmmss.f,* expressed in terms of the 24-hour (00-23) clock.

Date characters *yyyymmdd* include 4 for the year, 2 for the month, and 2 for the day.

Time characters *hhmmss.f* include 2 for the hour, 2 for the minute, 2 for the second, and 2 for a decimal fraction of the second, including the decimal point. The 24-hour clock (00-23) is used.

The date on which a record is first entered into machine-readable form is contained in field 008/00-05. The Date entered on file never changes.

■EXAMPLE

005 19940223151047.0
[February 23, 1994, 3:10:47 P.M. (15:10:47)]

INPUT CONVENTIONS

System Generation - Field 005 should be system generated.

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Attachment 10

CURRICULUM VITAE SYLVIA D. HALL-ELLIS

EDUCATION

Ph.D., University of Pittsburgh, Pittsburgh, Pennsylvania, 1985
M.P.S., University of Denver, Denver, Colorado, 2014
Post Graduate Studies, University of Texas – San Antonio, Texas, 1975-1976
M.L.S., University of North Texas, Denton, Texas, 1972 B.A.,
Rockford University, Rockford, Illinois, 1971

PROFESSIONAL EXPERIENCE

1981- **Consultant for higher education, non-profit organizations, and corporations.**

2002- **Adjunct Professor, School of Information, San José State University, San José, California.** Serve as part-time faculty member teaching graduate students in technical services (cataloging, bibliographic control, classification), "core courses," and special topics.

2014-2016 **Director, Grants and Resource Development, Colorado Community College System.** Provided leadership and vision to foster the continued growth of rigorous scholarship, innovative projects, and creative work for statewide system, 13 campuses, and 50 teaching sites serving 155,000 students. Responsible for leadership and ensured efficient functioning of contract and grants in compliance with state & federal requirements and successful implementation and management. Served as a subject matter expert and liaison for college Grant Directors for all issues relating to grants and subcontracts.

2010-2014 **Senior Grant Administrator, Morgridge College of Education, University of Denver (Colorado).** Provided leadership and vision to foster continued growth of rigorous scholarship, innovative research, and creative work in the Morgridge College of Education. Ensure that contract and grants processes function effectively and efficiently for 60 faculty and researchers with a focus on the successful progression and efficient management of grants totaling $13M. Worked effectively and collegially with Department Chairs and Program Coordinators on operational grant-related management activities and with a broad range of internal and external constituencies. Supported the dissemination and promotion of faculty research and scholarship to outside constituents at conferences and through publications. Assisted Principal Investigators and grant project teams by coaching, mentoring, and financial management.

2011-2013 **Interim Director & Assistant Dean, Westminster Law Library, Sturm College of Law, University of Denver.** Planned, organized, and directed all administrative activities for the library serving students, faculty, and alumni; oversaw the employment, retention, promotion, transfer and termination of library personnel; represented the library at professional conferences and public meetings; created and promoted a climate and culture of acceptance for new programs and services, a positive high-quality image of the law library, and that reflect the organization's values, encourage excellent performance, and reward high productivity and innovation; provided leadership and set strategic direction of the organization; ensured that the library provided excellent customer service through solution-oriented staff response to patron needs and by responsiveness and continuous improvement of the organization; promoted, developed, and maintained positive working relationships with colleagues and customers including key stakeholders and groups, higher education institutions, the legal community, other regional libraries and districts statewide, and national library organizations.

2007-2014 **Associate Professor, Library & Information Science, Morgridge College of Education, University of Denver (Colorado).** Served in leadership role and worked collaboratively in program, college, campus and community environments. Advised and supervised students, taught core and specialized courses at the graduate level in an integrative, student-centered learning environment. Served on LIS, College, and University committees, and maintained working relationships with colleagues in other academic units and information professionals in the Rocky Mountain region and beyond. Served on and chair doctoral student dissertation committees. Oversaw and facilitated the College and LIS graduate student association.

2002-2007 **Assistant Professor, Library & Information Science, College of Education, University of Denver (Colorado).** Served as tenure-track faculty member teaching graduate students in "core courses," resource description and access, service learning, and independent studies. Advised graduate students, participate on LIS and College committees, and serve on doctoral student dissertation committees. Oversaw and facilitated the LIS graduate student association and alumni association.

2000-2002 **Affiliate Faculty, Library & Information Science, College of Education, University of Denver (Colorado).** Served as part-time faculty member teaching graduate students in technical services (cataloging, bibliographic control, classification), "core courses," and special topics. Oversaw and facilitated the LIS graduate student association and alumni association.

2000-2001 **Special Assistant to the Secretary's Regional Representative, U.S. Department of Education, Region VIII, Denver, Colorado.** Served as the principal advisor and representative of the U. S. Secretary of Education's Regional Representative (SRR). Ensured the implementation of major goals of the SRR and the Secretary. Provided leadership on behalf of the SRR in contacts with high-level officials in Region VIII requiring sensitive policy interpretation in communication with senior Department officials to solve problems and resolve issues raised by State and local education officials. Served as the primary contact for School-to-Work/Career, Children's Health Insurance Program, and Safe and Drug-Free Schools. Delivered technical assistance to local education agencies and institutions of higher education in technology, professional development, and school construction.

1999-2000 **Catalog Librarian, Jefferson County Public Library, Lakewood, Colorado.** Performed original, copy cataloging and classification of library materials (English and Spanish) using standard library protocols; completed original descriptive cataloging and subject analysis; enhanced brief catalog and authority records in III.

1997-1999 **Development Officer, McREL International, Aurora, Colorado.** Served as senior member of corporate management team in strategic planning, development of proposals and contracts, implementation, and evaluation of new services, products, and programs for educational agencies. Provided creative leadership to corporate committees to solicit ideas, identify goals and objectives, plan, develop, present, and evaluate professional development opportunities.

1995-1997 **Education Specialist, Education Service Center, Region One, Edinburg, Texas.** Served as member of Administrative Cabinet team in strategic planning, development of proposals and contracts, implementation, and evaluation of telecommunications capabilities, services, products, and programs for 40 school districts serving 283,000 students in 7 counties. Provided creative leadership to regional and state committees to solicit ideas, identify strategic goals and objectives, plan, develop, present, and evaluate funding opportunities and professional development for 400 librarians.

1993-1996 **Assistant Professor of Library Science, Sam Houston State University, Huntsville, Texas.** Served a faculty member teaching 400 graduate students in technical services (cataloging, bibliographic control, classification), automation, and networking. Participated in distance education program and coordinated annual conference. Conducted university and Texas Library Association-funded field research focused on library collection development and academic achievement.

1992-1993 **Head Librarian, Rocky Mountain College of Art & Design, Denver, Colorado.** Responsible for the daily operation, selection and acquisition of materials, formulation of policies for library operations, media center, and photography/slides archives. Designed and implemented library automation and delivery of electronic resources to college community.

1981-1985 **Development Officer, PRLC, Inc., Pittsburgh, Pennsylvania.** Served as senior member of corporate management team in strategic planning, development of proposals and contracts, implementation, and evaluation of new services, products, and programs for 100 institutional member organizations. Coordinated the development of proposals and contracts totaling $4,000,000 annually. Provided creative leadership to corporate committees to solicit ideas, identify goals and objectives, plan, develop, present, and evaluate professional development opportunities.

1981 **Director of Library Development, Pennsylvania Department of Education, Harrisburg, Pennsylvania.** Responsible for statewide development, technical assistance, professional development, resource sharing, children's services, institutional library services, networking, and state aid program for all libraries throughout the Commonwealth. Functioned as liaison to Governor's Advisory Council, LSCA Advisory Council, District Administrators, private colleges, universities, consortia managers, and network directors. Supervised $14,000,000 formula-based state aid program and $3,000,000 grant awards to individual libraries, consortia, and networks.

1978-1981 **Assistant Director, Southern Tier Library System, Corning, New York.** Coordinated operation of system-wide programs (technical assistance, professional development, resource sharing, technical services, outreach) to 40 public libraries in 5 counties serving 500,000 residents. Solicited ideas, identified goals, sponsored, and evaluated professional development opportunities and technical assistance sessions.

1976-1978 **Division Librarian for Technical Services, Corpus Christi Public Libraries, Corpus Christi, Texas.** Provided leadership in acquisitions, cataloging, serials control, and processing for main library and 4 branches serving 250,000 residents. Participated as senior member of library management team. Compiled and prepared technical evaluations, reports, and statistical analyses of Division operations to measure the achievement and cost of annual goals, objectives, and staff performance.

1975-1976 **System Coordinator, San Antonio Major Resource Center, San Antonio, Texas.** Served as senior member of the management team for District X Office, charged to provide technical assistance, resource sharing, media services, and professional development to librarians and staff representing 30 public library jurisdictions in 21 counties serving 1,500,000 residents. Functioned as liaison to System Director, staff, and members of governing bodies with the System Board of Directors and the Texas State Library and Historical Commission. Prepared LSCA grant applications and monitored awards totaling $1,100,000 annually.

1973-1975 **Bilingual Branch Librarian, San Antonio Public Library, San Antonio, Texas.** Worked as librarian providing reference, information, and readers' advisory services in branch serving 50,000 Spanish-speaking residents in southwest San Antonio. Participated in collection development and resource acquisition activities, specializing in children's work, Spanish language resources, and multicultural studies.

1972-1973 **Librarian, Holding Institute, Laredo, Texas.** Worked as high school librarian serving 500 boarding students in Spanish-speaking environment of private school. Provided reference, research assistance, and library instruction to students and 35 faculty members.

1966-1971 **Rockford Public Library, Rockford, Illinois.** Worked in branches as part-time as a Library Assistant, Clerk, and Page in city library serving 150,000 residents.

PUBLICATIONS

Editor-reviewed Monographs (Completed and in Progress)

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Hall, Sylvia D. *History of Library Development in Pennsylvania: A Review and Content Analysis of the Plans, 1955-1980*. Pittsburgh, Pa.: PRLC, Inc., 1982.

Hall, Sylvia D. *Newspapers on Microfilm: A Listing of Newspapers in Allegheny, Chemung, Schuyler,Steuben, and Yates Counties*. Ithaca, N.Y.: South Central Reference and Research Council, 1981.

Hall, Sylvia D. *OCLC/ILL Subsystem at Southern Tier Library System.* Albany, N.Y.: SUNY/OCLC Network, 1980.

Hall, Sylvia D. *Retrospective Conversion for Major Public Libraries in South Central New York State: A Technical Report*. 2 vols. Corning, N.Y.: Southern Tier Library System, 1979-1980.

Hall, Sylvia D. *The Librarian and the Mexican-American Patron in Texas.* Austin, Tex.: Texas State Library, 1978.

Other Publications

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* St. Paul, MN: St. Catherine University, 2017. 255 p.

Hall-Ellis, Sylvia D., and Robert O. Ellett, Jr., guest editors. *RDA Testing: Lessons Learned and Challenges Revealed: A Special Issue of Cataloging & Classification Quarterly* 49, no. 7-8 (November 2011).

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Fundamentals of Cataloging I: An Online ALCTS Course.* Chicago, Ill.: American Library Association, 2009.

Hall-Ellis, Sylvia D., Angela J. Kinney and Martha Ann Bace, editors. *Best Practices in Cataloging Education Identified at the 2007 ALCTS Pre-conference: A Special Issue of the Journal for Library and Information Science Education* 49, no. 2 (Spring 2008).

Hall-Ellis, Sylvia D. *Cataloging Education: A New Emphasis for the Library and Information Science Curriculum.* Presentation delivered to the ALCTS Pre-conference, 132nd Annual Conference, American Library Association, Washington, D.C., June 22, 2007. http://www.loc.gov/aba/professional/

Hall-Ellis, Sylvia D. "*Cataloger Competencies: Do the Employers Require What the Professors Teach?*" Presentation delivered to the ALCTS CCS Heads of Cataloging Discussion Group, 131st Annual Conference, American Library Association, New Orleans, Louisiana, June 26, 2006. http://dlist.sir.arizona.edu/

Hall-Ellis, Sylvia D., guest editor, with Deborah S. Grealy, Clara L. Sitter, and Tassos Petrou. *Library Students' Voices in Colorado: An Issue of Colorado Libraries* 31:1 (Spring 2005).

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003. 125 p. with CD-ROM.

Hall-Ellis, Sylvia D. and Deborah S. Grealy, guest editors. *Library Education in Colorado: An Issue of Colorado Libraries* 29, no. 2 (Summer 2003).

Hall-Ellis, Sylvia D., ed. *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003.

Hall-Ellis, Sylvia D. "Adaptive Furniture for the ADA-Qualified: An Investigative Study." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "Cataloging Electronic Serials: A Study in User Access and Article Delivery." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "E-books: Acquisition and Circulation Issues in Public Libraries." 2001. Unpublished manuscript.

Hall-Ellis, Sylvia D. "Authority Control and Its Importance in School Library Media Online Catalogs." 1999. Unpublished manuscript.

Hall, Sylvia D. "Cooperation Improving Service in San Antonio System." *Texas Libraries* XXXVII (Spring 1976): 27-29.

Hall, Sylvia D. "Summer is Sea Monstrously Fun!" *Texas Library Journal* L (December 1974): 224-226.

Hall, Sylvia D. "A Brief Annotated Bibliography of Non-book Materials on the Mexican American." *Texas Library Journal* XLVIII (October 1972): 213-232.

Book Reviews

ALA Book of Library Grant Money. Ann Kepler, ed. 8th ed. Chicago, IL: American Library Association, 2011. 978- 0-8389-1058-0, $175.00 [*Colorado Libraries,* June 2012]

Developing a Compensation Plan for Your Library. Paula M. Singer and Laura L. Francisco, comps. 2nd ed. Chicago, IL: American Library Association, 2009. 978-0-8389-0985-0, $57.00 [*Colorado Libraries,* March 2012]

Frugal Librarian. Carol Smallwood, ed. Chicago, IL: American Library Association, 2011. 978-0-83891-075-7, $42.00 [*Colorado Libraries,* February 2012]

Dowlin, Ken. *Getting the Money: How to Succeed in Fundraising for Public and Nonprofit Libraries.* Westport, Conn.: Libraries Unlimited, 2008. 978-1-59158-597-X, $50.00 [*Colorado Libraries,* February 2009]

Lundahl, Mats. *Bebo de Cuba; Bebo Valdés y Su Mundo*, by Mats Lundahl. Traducción de Linda Oakeshott Dragó. Barcelona: RBA Libros, 2008. 978-849-86-7259-6, $33.99 [*Críticas*, November 2008]

Bonelli, Florencia. *Marlene*, by Florencia Bonelli. Buenos Aires: Aguilar, Altea, Taurus, Alfaguara, 2008. 978-987-04-0995-3, $24.95 [*Críticas*, October 2008]

Keret, Etgar. Traducción de Ana María Bejarano. *Pizzería Kamikaze y Otras Relatos.* México, D.F.: Editorial Sexto Piso, 2008. 968-5679-29-0, no price given [*Críticas*, September 2008]

Littauer, Marita, and Florence Littauer. *Enriquece tu Comunicación. Miami, Fla.: Editorial Unilit, 2008.* 978-0-7899-1521-4, $11.99 [*Críticas*, August 2008]

Martínez, Guillermo. *La Muerte Lenta de Luciana B.* New York: Rayo Planeta, 2008. 978-0-06-156551-9, $14.95 [*Críticas*, May 2008]

Matthews, Joseph R. *The Evaluation and Measurement of Library Services.* Westport, Conn.: Libraries Unlimited, 2007. 978-1-59158-532-9, $50.00 [*Colorado Libraries,* April 2008]

Gómez-Jurado, Juan. *A Masacre de Virginia Tech: Anatomía de una Mente Torturada.* Barcelona: Ediciones El Andén, 2007. 978-84-935789-4-7, €16.50 [*Críticas*, February, 2008]

Matthews, Joseph R. *Library Assessment in Higher Education.* Westport, Conn.: Libraries Unlimited, 2007. 978-1-59158-531-2, $45.00 [*Colorado Libraries,* February 2008]

Chacón, Inma. *La Princesa India: Cuando el Viento Azul.* México: Alfaguara, 2006. 970-770398-9, $19.95 [*Críticas*, June 2006]

Vargas Llosa, Mario. *Israel/Palestina: Paz o Guerra Santa.* fotogs. by Morgana Vargas Llosa. Spain/U.S.: Aguilar: Santillana, 2006. 84-03-09691-7, paper, $19.95 [*Críticas*, May 2006]

Findlay, Diane. *Digging into Dewey.* Fort Atkinson, Wisc.: Upstart Books, 2005. 978-1-932146-18-9, $16.95 [*Colorado Libraries,* May 2006]

Pequeñas Resistencias 4: Antología del Nuevo Cuento Norteamericano y Caribeño. Menéndez, Ronaldo, Ignacio Padilla & Enrique del Risco, eds. Madrid**:** Páginas de Espuma, 2005. 84-95642-59-X, paper, $36.95 [*Críticas*, April 2006]

Rueda, André. *Vengo a Salvar a España: Biografía de Un Franco Desconocido.* Madrid**:** Nowtilus (Investigación Abierta), 2005. photogs., bibliog. 84-9763-202-8, paper, $23.95 [*Críticas*, March 2006]

Becerra, Ángela. *El Penúltimo Sueño.* 1st ed. Barcelona: Planeta, 2005. 84-08-05795-2, $25.95. [*Críticas*, January 2006]

Aguilar Camín, Héctor. *La Conspiración de la Fortuna.* 1st ed. México: Planeta, 2005. 970-37-0368-2, $19.95 [*Críticas*, October 2005]

México en Sus Libros. Enrique Florescano with Pablo Mijangos, editors & compilers. 1st ed. México, D.F.: Taurus Aguilar, 2004. 968-19-0783-3, $16.95 [*Críticas*, September 2005]

Historia Económica de México. Coordinator, Enrique Semo. México: Universidad Nacional Autónoma de México, Editorial Oceano de México, 2004. 13 vols. 970-32-0805+3 (obra completa), $9.25 each [*Críticas*, August 2005]

Czarnowsky, Christyne A. and Michael H. Williams. *Managing Your Wired Workforce: A Practical Guide.* Denver, Colo.: Bradford Pub., 2003. 1-883726-79-4, $24.95 [*Colorado Libraries,* 2004]

Abraham Lincoln. Colección Grandes Biografías. Madrid: Edimat Libros, 2003. 84-8403-858-0, €4.95 [*Críticas*, 2004]

Alponte, Juan María. *Colón: el Hombre, el Navegante, la Leyenda.* México, D.F.: Aguilar, 2003. 968-19-1260-8, $16.95 [*Críticas*, 2004]

Olcese Salvatecci, Alfieri. *Cómo Estudiar con Ėxito: Téchnicas yHhábitos Para Aprender Major.* México, D.F.: Alfaomega Grupo Editor, 2002. 970-15-0764-9 [*Críticas*, 2003]

Mujeres Como Islas: Antología de Narradoras Cubanas, Dominicanas, Puertoriqueñas. Edición: Olga Marta Pérez, Thelma Jiménez, Andrés Blanco D., eds. Santo Domingo, República Dominicana: Ediciones Ferilibro, 2002. 959-209-419-5 [*Críticas*, 2003]

Tibol, Raquel. *Los Murales de Diego Rivera: Universidad Autónoma Chapingo.* México, D.F.: Editorial RM, Universidad Autónoma Chapingo, 2002. 968-5208-08-5 [*Críticas*, 2003]

Lindsay-Poland, John. *Emperors in the Jungle: the Hidden History of the U.S. in Panama.* Durham, N.C.: Duke University Press, 2003. 0-8223-3098-9, $18.95 [*Críticas*, 2003]

Kaplan, Allison G. and Ann Marlowe Riedling. *Catalog It! A Guide to Cataloging School Library Materials.* Worthington, Ohio: Linworth Pub., 2002. 1-58683-014-7, $44.95 [*Colorado Libraries,* 2002]

Bardach, Ann Louise. *Cuba Confidential: Love and Vengeance in Miami and Havana.* New York: Random, 2002. 0-375-50489-3, $25.95 [*Library Journal*, 2002]

Swan, James. *Fundraising for Libraries: 25 Proven Ways to Get More Money for Your Library.* New York: Neal Schuman, 2002. 1-55570-433-6, $69.95 [*Colorado Libraries,* 2002]

Puíg de Lange, Victoria. *Sol Con Agua.* Nashville, Tenn.: Editorial Vistazo/Ediciones Reio Negro, 2002. 0-9724506-0-2, $17.75 [*Críticas*, 2002]

The Encyclopedia of Latin American Politics. Edited by Diana Kapiszewski; assistant editor, Alexander Kazan. Westport, Conn.: Oryx Press, 2002. 1-57356-306-4, $74.95 [*Library Journal*, 2002]

Vargas Lizano, Isabel. *Y Si Quieres Saber de Mi Pasado.* Con la colaboración de J.C. Vales. Madrid: Santillana Ediciones Generales, S.L., 2002. 84-03-09278-4, $18.95 [*Críticas*, 2002]

Ruy Sánchez, Alberto. *Los Jardines Secretos de Mogador: Voces de Tierra.* México, D.F.: Alfaguara, S.A., 2001. 968-19-0879-1, $16.95 [*Críticas*, 2002]

Chávez, Ricardo and Celso Santajuliana. *El Final de las Nubes.* Barcelona: RBA Libros, S.A., 2001. 84-7901-760-0, $11.95 [*Críticas*, 2002]

The Power of Language / El Poder de la Palabra: Selected Papers from the Second REFORMA National Conference. Edited by Lillian Castillo-Speed and the REFORMA National Conference Publications Committee. Englewood, Colo.: Libraries Unlimited, 2001. 1-563089459, $35.00 [*Colorado Libraries,* 2001]

Martínez, Rubén. *Crossing Over: A Mexican Family on the Migrant Trail.* Metropolitan: Holt, 2001. 0-8050-4908- 8, $26.00 [*Library Journal*, 2001]

Guevara, Ernesto "Che." *The African Dream: the Diaries of the Revolutionary War in the Congo.* Translated from the Spanish by Patrick Camiller. With an introduction by Richard Gott and a foreword by Aleida Guevara March. New York: Grove Press, 2001. 0-8021-3834-9, $13.00 [*Library Journal*, 2001]

Cooper, Gail and Garry Cooper. *New Virtual Field Trips.* Englewood, Colo.: Libraries Unlimited, 2001. 1-56308-887-8, $27.50 [*Colorado Libraries,* 2001]

NATIONAL SERVICE & PROFESSIONAL AFFILIATIONS

American Library Association, Life Member
Association for Library Collections & Technical Services (now CORE)
Cataloging, Classification, and Metadata Section
ALCTS Editorial Board, Member, 2015-2019
Committee on Cataloging: Description and Access, Member, 2008-2012
Test Site for RDA, Manager, 2009-2011
Nominating Committee, Member, 2007-2008
Committee for Education and Training of Catalogers, Chair, 2006-2007, Member, 2003-2007
Competencies & Education for a Career in Cataloging Interest Group, Chair, 2010-2012; Member, 2010-
President's Program Committee, 2015-2016
Education Committee, Member, 2005-2007
Task Force on Competencies and Education for a Career in Cataloging, Chair, 2007-2009
2007 Annual Meeting Pre-conference, "What They Don't Teach in Library School: Competencies, Education and Employer Expectations for a Career in Cataloging," Steering Committee Chair
Fundraising Committee, Member, 2004-2006
Office of Diversity
Committee on Diversity, Chair, 2010-2011
Diversity Research Advisory Committee, Member, 2009-2010
Spectrum Scholar Mentor, 2009
Diversity Grants Review Committee, Member, 2007, 2010, 2012
Office of Statistics and Research
Research and Statistics Committee, Member, 2005-2007; Intern, 2003-2005
Library Research Round Table
Membership Committee, 2019-2021
Board of Directors, Member At-Large, 2009-2012
Member, 2003-
Office of Accreditation
Accreditation Panel Member (training completed 2004)
Accreditation Review Panel Member (training completed 2004)

REFORMA, Life Member
National Board of Directors, 2005-2013
National Fundraising Chair, 2005-2013
National Recruiting and Mentoring Committee, 2008-2010
Colorado Chapter, Secretary, 2004-2005
Colorado Chapter Liaison to National Board of Directors, 2004-2013

American Association of Law Libraries (AALL), Life Member
Online Audiovisual Catalogers Association (OLAC)

American Association of University Women Association for Library and Information Science Education (ALISE)
University of Denver ALISE Representative, 2003-2008; 2010-2011
Membership Advisory Committee, 2007-2010
Technical Services Education Special Interest Group, 2003-
Garfield Doctoral Dissertation Award Reviewer, 2012
Garfield Doctoral Dissertation Scholarship Reviewer, 2014

American Association of University Professors (AAUP), 2006-

American Grant Writers Association, 2014-
Grant Professionals Institute, 2016-
National Grants Management Association, 2014-
Grant Reviewer (National and Regional Team Leader), U.S. Department of Education, 1998-
Grant Reviewer, Broadband Technologies Opportunity Program, U.S. Department of Commerce, 2009
Grant Reviewer, Institute of Museum and Library Services, 1998-2000
Grant Reviewer, Colorado Department of Education, 2014-
Grant Reviewer, Colorado State Library, 1998-
Grant Reviewer, American Association of Community Colleges *Working Connections* program, 1999
Peer Reviewer, *Journal for Library and Information Science Education,* 2005-
Peer Reviewer, *Journal of Library Metadata,* 2009
Peer Reviewer, *International Journal of Library and Information Science,* 2011
Regular Columnist, *The Bottom Line*, 2013-2016
Book Reviewer, *Library Journal*, 2001
Book Reviewer, *Críticas*, 2002-2009
Book Reviewer, *Colorado Libraries,* 2000-2012

REGIONAL SERVICE & PROFESSIONAL AFFILIATIONS

Mountain Plains Library Association
Professional Development Grants Committee, Member, 2005-2006
Professional Development Policy and Guidelines Sub-committee Chair, 2006

Colorado Association of Libraries
"Student Voices" Column Editor, *Colorado Libraries,* 2005-2006
Conference Planning Committee, Member, 2002
Technical Services and Automation Division, Chair, 2002-2003; Member, 2000-
Academic Libraries Division, Peer Review Conference Papers Committee, Member, 2007-2009
Education Committee, Member, 1988-1993
Diverse Populations Committee, Member, 2009-2013

SERVICE TO THE UNIVERSITY OF DENVER
Center for Teaching and Learning Faculty Advisory Board, 2007-2008; 2010-2012
Center for Community Engagement and Service Learning Advisory Board, 2007-2012
Faculty Senate
Executive Committee, 2008-2013
Nominations, Rules & Credentials Committee, Chair, 2008-2013; Member 2007-2013
Appointment, Promotion, and Tenure Revision Committee, 2010-2012
Grievance Policy Committee Member, 2007-2010
Law Library Director Search Committee Chair, 2012-2013
PROF Grant Review, College Representative to the University Review Team, 2006, 2008
Project Homeless Connect Evaluations, Principal Investigator, 2006-2009
University Technology Council, 2007-2009
University of Denver Hyde Interviews for Incoming Freshmen, 2003-2012

SERVICE TO THE MORGRIDGE COLLEGE OF EDUCATION
Appointment, Tenure & Review Committee
Member, voting, 2003-2005; 2007- 2009
Chair, Clinical Faculty Promotion & Tenure Policy Subcommittee, 2008-2009
Member, Community Engagement Subcommittee, 2007-2009
Member, Tenure Review Panel, 2003

Advancement and Alumni Relations Committee, Chair, 2003-2007; Member, 2002-2007
College Building Committee Member, 2004-2010
College of Education Student Association, Faculty Advisor, 2004-2007; 2009-2010
Faculty Senator, 2007-2013
Research and Scholarship Committee, Chair, 2008-2009; Member, 2002-2003, 2008-2009
Research and Grant Mentoring Committee, Chair, 2009-2010
Research Task Force Member, 2010-2012
Search Committee Member, Assistant Professor for Curriculum & Instruction, 2010-2011
Workload Task Force Member, 2010-2011

SERVICE TO THE LIBRARY & INFORMATION SCIENCE PROGRAM

Library and Information Science Student and Alumni Association, Faculty Advisor, 2002-2008
ALA Student Chapter, Faculty Advisor, 2005-2008
Beta Phi Mu Phi Chapter, Faculty Advisor, 2004-2014
Steering Committee Member, Accreditation by the American Library Association, 2001-2004
Search Committee Member, Associate Professor for LIS, 2006
Search Committee Chair, Assistant Professors for LIS, 2003, 2005, 2006, 2007
Search Committee Ex-Officio Member, Director for LIS, 2004

SERVICE TO SAM HOUSTON STATE UNIVERSITY

Rio Roundup: South Texas Literature Conference, Conference Coordinator, 1993
External Relations, Fund Raising, Grants Committee, Chair, 1993-1995
Advisory Council Committee, Chair, 1993-1995
Students, Admissions, and Advisement Committee, Chair, 1994
Institutional Effectiveness Committee, Member, 1993-1995

SERVICE TO THE COLLEGE OF EDUCATION AND APPLIED SCIENCE

Faculty Affairs Committee, Member, 1993-1995
Curriculum Committee, Member, 1993-1995
Continuing Education Committee, Member, 1993-1995

SERVICE TO THE COMMUNITY

French Teacher & Student Exchange with Laon, France, Monarch High School, Boulder Valley School District (Boulder, Colorado), 2017-
Denver/Boulder Games 2022, Board of Directors, Secretary-Treasurer, 2015-2018
United Way Campaign Committee, College of Education, 2006
Arapahoe County, Election Judge for the County Clerk and Recorder, 2000-2005
Arthritis Foundation, Rocky Mountain Chapter, Certified Educator & Trainer, 1999-2008
Bonfils Blood Center, Silver Level Donor, 2000-2016
Denver Museum of Natural History, Docent, 1992
Tech Prep of the Lower Rio Grande Valley, Inc. (Harlingen, Texas) Board of Directors, 1995-1997
Executive Committee, 1996-1997; Chair, Development Committee, 1995-1997; Chair, Fiscal Agency Committee, 1995-1996; Chair, Colleges and Universities Committee, 1996-1997
Gilpin County (Colorado) Public Library Board of Trustees, 1986-1989; Vice President, 1987-1989
City of Central (Colorado) Economic Development Committee, 1987-1989
Columbine Family Health Centers, Inc. (Nederland and Black Hawk, Colorado) Board of Directors, 1988-1989

CERTIFICATION

Permanent Public Librarian Certificate - Pennsylvania, New York, Texas
Westlaw Expert Witness, 2008-
Certified Grant Writer®, 2016-

AWARDS AND HONORS

Advanced Practitioner for Service Learning and Community Engagement, University of Denver, 2011
Platinum Star Alumnae, College of Information, Library Science & Technologies, University of North Texas, 2009
Commendation for Integration of Technologies in Teaching & Learning Environment, University of Denver, 2006
Outstanding Adjunct Faculty Member Award, College of Education, University of Denver, 2002
Beta Phi Mu, Pi, University of Pittsburgh, 1985
Alpha Lambda Sigma, University of North Texas, 1972
Albert Nelson Marquis Lifetime Achievement Award, Who's Who in America
Who's Who in American Women
Who's Who of Women Executives
Dictionary of International Biography
Who's Who in the East
Who's Who in the South and Southwest
Who's Who in the World
Who's Who of Online Professionals
Who's Who in Library and Information Science
2,000 Notable Women
Who's Who of Emerging Leaders
Who's Who in Professional and Executive Women
Who's Who in American Education
International Who's Who of Professional and Business Women
International Leaders in Achievement
International Educator of the Year
Who's Who in Finance and Industry
Who's Who in Finance and Business

Invited International and National Conference Presentations

Driscoll, Margaret, Christy Confetti Higgins, Scott Brown, and Sylvia D. Hall-Ellis. *A View from Within: Open House Tour of Three Canvas Core Courses*. Presentation to be delivered at the School of Information, San José State University Professional Development Seminar, San José, California, October 17, 2019.

Hall-Ellis, Sylvia D. *Invest in Me -- I'm Your Future: Succession Planning for Libraries.* Keynote presentation delivered at the ALCTS President's Symposium, Boston, Mass., January 8, 2016.

Seidel, Kent E. and Sylvia D. Hall-Ellis. *Making Grants Work for You: Strategies for Doctoral Students and Early Career Scholars.* Presentation delivered at the University Council for Educational Administration, Early Career Scholars Session, Indianapolis, Ind., November 9, 2013.

Hall-Ellis, Sylvia D. *So You Want to be a Manager; Leadership Skills and Competencies for Technical Services Managers and Administrators.* Presentation delivered at the 138th Annual Conference, American Library Association, Chicago, Ill., June 29, 2013.

Seidel, Kent E., Karen S. Riley, Lyndsay Agans, Susan Korach, and Sylvia D. Hall-Ellis. *Making Grants Work for You (Instead of Just Working for Grants).* A panel discussion delivered at the University Council for Educational Administration, Early Career Scholars Session, Denver, Colo., November 17, 2012.

Hall-Ellis, Sylvia D. *After the Great TS Reorganization: The Westminster Law Library.* Presentation delivered at the 137th Annual Conference, American Library Association, Anaheim, Calif., June 23, 2012.

Hall-Ellis, Sylvia D. *Conversations with Catalogers in the 21st Century.* A panel discussion sponsored by the ALCTS Competencies for a Career in Cataloging Interest Group, delivered at the 137th Annual Conference, American Library Association, Anaheim, Calif., June 22, 2012.

Hall-Ellis, Sylvia D., moderator. *Mid-Career Leaders Program.* A panel discussion sponsored by the ALA Committee on Diversity delivered at the 136th Annual Conference, American Library Association, New Orleans, La., June 26, 2011.

Hall-Ellis, Sylvia D., moderator. *Diversity Town Hall.* A community conversation sponsored by the ALA Committee on Diversity delivered at the 136th Annual Conference, American Library Association, New Orleans, La., June 24, 2011.

LaBarre, Kathryn, Sylvia D. Hall-Ellis, Karen Anderson, Rick Hasenyager, Christopher Cronin, and Penny Baker. *Briefings from RDA Test Participants.* A panel discussion delivered at the Midwinter Conference, American Library Association, San Diego, Calif., January 7, 2011.

Miksa, Shawne, Marjorie Bloss, and Sylvia D. Hall-Ellis. *Educating the Next Generation of Catalogers: Teaching RDA.* A panel discussion delivered at the 97th Annual Conference, Association for Library and Information Science Education, San Diego, Calif., January 7, 2011.

Hall-Ellis, Sylvia D., Robert Maxwell, John Hostage, and George Prager. *RDA Panel: What Cataloging Managers Need to Know.* Presentation delivered at the 103rd Annual Conference, American Association of Law Librarians, Denver, Colo., July 12, 2010.

Hall-Ellis, Sylvia D. and Stacey L. Bowers. *Catalogers in the RDA Environment: Skill Sets, Expectations and Challenges.* Presentation delivered at the 103rd Annual Conference, American Association of Law Librarians, Denver, Colo., July 11, 2010.

Hall-Ellis, Sylvia D. *Comfortable in Your Cataloging and Metadata Specialist Skin? Or, So You Want to Hire a Cataloger.* Presentation delivered to the ALCTS Research Group at the 134th Annual Conference, American Library Association, Chicago, Ill., July 11, 2009.

Perez, Megan, Sylvia D. Hall-Ellis, and Denise Anthony. *From Novice to Expert: Collaboration for Succession Planning.* A "hot topic" presentation delivered at the 14th ACRL Conference, Seattle, Wash., March 13, 2009.

Hall-Ellis, Sylvia D. *Cataloging in the RDA Environment: Skill Sets, Expectations and Challenges.* Presentation delivered to the ALCTS Research and Publications Committee at the Midwinter Conference, American Library Association, Denver, Colo., January 24, 2009.

Hall-Ellis, Sylvia D. *LIS Cataloging Education for the 21st Century: Expectations and Challenges.* A panel discussion held at the 95th Annual Conference, Association for Library and Information Science Education, Denver, Colo., January 23, 2009.

Chu, Clara, Sylvia D. Hall-Ellis, and Mark Winston. *The Doctoral Degree & Building a Career.* A panel discussion delivered at the ALA Office of Diversity Spectrum Doctoral Fellows E.J. Josey Leadership Institute, Midwinter Conference, American Library Association, Denver, Colo., January 20, 2009.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Fundamentals of Cataloging Course: An Overview of the ALCTS Online Course.* Presentation delivered to the ALCTS Big Heads Group, 133rd Annual Conference, American Library Association, Anaheim, Calif., June 30, 2008.

Hall-Ellis, Sylvia D. *Employers' Expectations for Technical Services Librarians: What We Don't Know.* Presentation delivered to the ALCTS Research and Publications Committee Program, 133rd Annual Conference, American Library Association, Anaheim, Calif., June 28, 2008.

Hall-Ellis, Sylvia D., Virginia R. Maloney, and Mary Stansbury. *Institutional Responses to Engaged Scholarship: The Carnegie Foundation Engaged University Classification at Two Universities.* Presentation delivered to the 94th Annual Conference, Association for Library and Information Science Education, Philadelphia, Pa., January 11, 2008.

Hall-Ellis, Sylvia D. *Puzzles, Problems, and Predicaments.* Presentation delivered to the ALCTS Research Discussion Group, 132nd Annual Conference, American Library Association, Washington, D.C., June 23, 2007.

Hall-Ellis, Sylvia D. *Cataloging Education: A New Emphasis for the Library and Information Science Curriculum.* Presentation delivered to the ALCTS Pre-conference, 132nd Annual Conference, American Library Association, Washington, D.C., June 22, 2007. http://www.loc.gov/catdir/cpso/careercat.html

Ellett, Jr., Robert O. and Sylvia D. Hall-Ellis. *Copy Cataloging Done Smarter.* Presentation delivered to the International Conference on Interdisciplinary Information Sciences and Technologies (InSciT2006), October 25-28, 2006.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Cooperative Cataloging: Challenges and Opportunities for Defense Libraries.* Presentation delivered to the 1st Annual Conference of Defense Libraries, Spanish Ministry of Defense, Madrid, Spain, July 7, 2006.

Hall-Ellis, Sylvia D. *Cataloger Competencies: Do the Employers Require What the Professors Teach?* Presentation delivered to the ALCTS CCS Heads of Cataloging Discussion Group, 131st Annual Conference, American Library Association, New Orleans, La., June 26, 2006.

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *From Research to Practice: The Scholarship of Teaching and Learning in LIS Education.* Presentation delivered to the at the 92nd Annual Conference, Association for Library and Information Science Education, San Antonio, Tex., January 18, 2006.

Ellis, Sylvia D. *Employers' Expectations for Entry-Level Catalogers: What Position Announcement Data Indicate.* Research paper delivered to the Technical Services Special Interests Group, 91st Annual Conference, Association for Library and Information Science Education, Boston, Mass., January 12, 2005. http://dlist.sir.arizona.edu/

Common Errors in MARC Records Prepared by LIS Students: What Does It Mean? Research paper delivered to the ALCTS CCS Cataloging Norms Discussion Group, Mid-Winter Conference, 90th American Library Association, San Diego, Calif., January 10, 2004.

Hall-Ellis, Sylvia D. *Visual Arts as Foundation for Successful Library Automation: The Rocky Mountain College of Art & Design Experience.* Paper delivered at the 6th Annual Conference of Higher Education, Charleston, S. C., 1993.

Hall, Sylvia D. *Design Elements for Bibliographic Databases: An Overview.* Paper delivered at the 14th Online National Conference, New York, 1983.

Invited Regional Conference Presentations

Hall-Ellis, Sylvia D., Hudson, Christopher D., Brittany Cronin, and Kathryn Michaels. "The Colorado Law Project: Meeting the Public's Need for Legal Information." Panel discussion delivered at the Mountain Plains Library Association Conference, Billings, Mont., April 9, 2011.

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *Education for Information Professionals in New Mexico: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the New Mexico Library Education Summit, Las Vegas, N.M., September 26, 2005.

Hall-Ellis, Sylvia D. *Public Library-School Library Partnerships.* Presentation delivered at the 3rd Annual Colorado Association of Libraries Conference with the Mountain Plains Library Association, Denver, Colo., October 22, 2004.

Hall-Ellis, Sylvia D. *Learn All You Can – Educational Partnership Opportunities for the Lewis and Clark Bicentennial Commemoration.* Paper delivered at the 3rd Annual Lewis and Clark Bicentennial Council National Planning Conference, Bismarck, N.D., April 26, 1998.

Invited State Conference Presentations

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *Academic Library Leadership Changes: Using Succession Planning and Mentoring*. Presentation delivered at the Minnesota Library Education Conference, St. Cloud, Minn., October 10, 2013.

Hall-Ellis, Sylvia D., Merrie Valliant, and Melissa Powell. *RDA: What Is It and What Do You Need To Do With It At Your Library?* Presentation delivered at the Colorado Library Consortium Spring Conference, Ft. Morgan, Colo., April 26, 2013.

Hall-Ellis, Sylvia D. *Service Learning and the Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 4th LEADS Scholars Orientation, Denver, Colo., August 5, 2009.

Hall-Ellis, Sylvia D. *Service Learning: Enhancement to Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 3rd LEADS Scholars Orientation, Denver, Colo., June 2008.

Hall-Ellis, Sylvia D. *Law Librarianship: A Community Conversation.* Sponsored by the Colorado Association of Law Libraries. Paper delivered at the Colorado Supreme Court Library, Denver, Colo., May 14, 2008.

Hall-Ellis, Sylvia D. *Opportunities and Challenges in Law Librarianship: A Community Conversation.* Presentation delivered at the Sturm College of Law, Denver, Colo., November 7, 2007.

Hall-Ellis, Sylvia D. *Grant Writing Resources for Nursing Professionals.* Presentation delivered at the Presbyterian / St. Luke's Health One Medical Center 1st Annual Research Symposium, Denver, Colo., October 17, 2007.

Project Homeless Connect 4 Event Evaluation – Insights and Lessons Learned. Presentation delivered at the Homelessness Research Symposium: What is DU Doing about Homelessness in Denver, Denver, Colo., September 14, 2007.

Hall-Ellis, Sylvia D. *Service Learning and the Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 2nd LEADS Scholars Orientation, Denver, Colo., August 10, 2007.

Hall-Ellis, Sylvia D. *Education for Information Professionals in a Digital Environment: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 15th Spring Mountains and Plains Parapros Conference, Denver, Colo., February 24, 2007.

Hall-Ellis, Sylvia D. *Public Library Service to Spanish-Speaking and Latino Residents in Denver: A Case Study.* Presentation delivered at the 4th Annual Colorado Association of Libraries Conference, Denver, Colo., November 10, 2005.

Hall-Ellis, Sylvia D. *Education for Information Professionals in a Digital Environment: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 14th Annual Mountains and Plains Parapros Conference, Aurora, Colo., July 29, 2005.

Hall-Ellis, Sylvia D. *Educational Opportunities: Library & Information Science Graduate Education at the University of Denver.* Presentation delivered at the 13th Annual Mountains and Plains Parapros Conference, Centennial, Colo., August 6, 2004.

Hall-Ellis, Sylvia D. *Library Education & Training: Focus on the West: An LIS Faculty Member's Personal Response*. Presentation delivered at the 1st Annual Colorado Association of Libraries Conference, Keystone, Colo., October 18, 2002.

Hall-Ellis, Sylvia D. *Grant Writing for School Librarians.* Presentation delivered at the 2002 Annual Colorado Education Media Association Conference, Colorado Springs, Colo., February 15, 2002.

Hall-Ellis, Sylvia D. *Grants – Opportunities for the Future.* Paper delivered at the Southeast Regional Accountability Annual Conference, Lamar, Colo., November 12, 1998.

Hall-Ellis, Sylvia D. *The Texas Library Connection and Interlibrary Loan: An Experiment in Resource Sharing.* Paper delivered at the Texas Computer Educators' Association Annual Conference, Austin, Tex., February 6, 1997.

Hall-Ellis, Sylvia D. *Finding Grant Sources on the Internet: A Guide for Librarians.* Paper delivered at the 2nd Annual Institute for School Library Personnel, Pharr-San Juan-Alamo North High School, Pharr, Tex., July 29, 1996.

Hall-Ellis, Sylvia D. *Mathematical and Logical Thinking: A Critical Intelligence.* Paper delivered at the 3rd Annual Paraprofessional Conference at the University of Texas - Pan American, Edinburg, Tex., March 8, 1996.

Hall-Ellis, Sylvia D. *Cataloging Trends and Issues: Update Session.* Paper delivered at the 1st Annual Institute for School Library Personnel, South Texas Community College, McAllen, Tex., July 19, 1995.

Hall-Ellis, Sylvia D. *Grant Writing: Tips and Encouragement for School Librarians.* Paper delivered at the 1st Annual Institute for School Library Personnel, South Texas Community College, McAllen, Tex., July 18 and 19, 1995.

Hall-Ellis, Sylvia D. *How to Become an Expert Grant Writer.* Paper delivered at the 3rd Annual High School Principals' Academy, South Padre Island, Port Isabel, Tex., June 19, 1995.

Hall-Ellis, Sylvia D. *Texas Library Study: Results from Regions I and II.* Paper delivered at the 3rd Annual Technology Conference, Texas A&M University, College Station, Tex., November 18, 1994.

Hall-Ellis, Sylvia D. *Academic Achievement and Middle School Students.* Paper delivered at the 8th Annual Young Adult Conference, Sam Houston State University, Huntsville, Tex., November 5, 1994.

Hall-Ellis, Sylvia D. *Multimedia Resources for Library Leaders.* Paper delivered at the Institute for Librarians in A Multicultural Environment, Sam Houston State University, Huntsville, Tex., June 10, 1994.

Hall-Ellis, Sylvia D. *Finding the Resource: Empowering the User, or, the Case for Curriculum Based Subject Access to Learning Resource Center Collections.* Paper delivered at the 81st Annual Texas Library Association Conference, Corpus Christi, Tex., April 12-16, 1994.

Hall-Ellis, Sylvia D. and William H. Pichette. *Sam Houston State University Makes Use of OCLC/AMIGOS Collection Analysis CD.* Paper delivered at the 81st Annual Texas Library Association Conference, Corpus Christi, Tex., April 12-16, 1994.

Hall, Sylvia D. *Funding and Library Development in Pennsylvania: A Symbiotic Relationship.* Paper delivered at the Annual Graduate Student Colloquia, University of Pittsburgh, School of Library and Information Science, 1982.

Hall, Sylvia D. *Leadership for Public Library Trustees.* Paper delivered for the Trustees Division, Pennsylvania Library Association Annual Conference, Lancaster, Penn., 1981.

Seminar and Professional Development Presentations

Taylor, Meredith, and Sylvia D. Hall-Ellis. *Talent Management and Succession Planning.* ALCTS eForum, held March 22, 2017.

Hirsh, Sandra, Heather O'Brien, Michelle Holschuh Simmons, Michael Krasulski, and Sylvia D. Hall-Ellis. *Information Services Today: An Introduction. Part 3: Information Services: Roles in the Digital Age*. Rowan and Littlefield in partnership with Library Journal webinar, recorded February 5, 2015.

Hall-Ellis, Sylvia D. and Jennifer Sweda. *Copy Cataloging in an RDA Environment.* ALCTS eForum, held May 14 and 15, 2013.

Hall-Ellis, Sylvia D. *Law Librarianship: A Community Conversation.* Sponsored by the Colorado Association of Law Libraries, presented at the Colorado Supreme Court Library, Denver, Colo., May 14, 2008.

Hall-Ellis, Sylvia D. and Beatrice Z. Gerrish. *Reading and Libraries: Recent Research in Reading.* Presentation at the Ricks Center for Gifted Education, Denver, Colo., March 4, 2008.

Hall-Ellis, Sylvia D. *Cataloger Competencies: Do the Employers Require What the Professors Teach?* Presentation for the School of Library and Information Science, San José State University, February 12, 2008.

Hall-Ellis, Sylvia D. and Robert O. Ellett, Jr. *Cooperative Cataloging: Rules, Tools, and Conventions for Building a Multi-institutional Catalog.* Sponsored for the Spanish Ministry of Defense, Madrid, Spain, July 10, 2006.

Hall-Ellis, Sylvia D. *Cash for Kids: Grant Writing Opportunities for Youth Services Librarians.* Sponsored by the Colorado Young Adult Librarians; presented at Bemis Memorial Library, Littleton, Colo., November 13, 2002.

Hall-Ellis, Sylvia D. *MARC Records and Authority Control: Planning for Bibliographic Database Migration.* Sponsored and held at the Douglas County Public Library, Castle Rock, Colo., May 28, 2002.

Hall-Ellis, Sylvia D. *Grant Writing: A Refresher for Librarians.* Sponsored by Library and Information Science Program, College of Education, University of Denver; presented at University Center at Chaparral, August 12, 2000.

Hall-Ellis, Sylvia D. *Shaking the Money Tree – Basic Grant Writing for Colorado Educators.* Sponsored by the Office of Educational Telecommunications of the Colorado Department of Education.
Pikes Peak Community College, Colorado Springs, Colo., November 16, 1998.
Pueblo School District 60, Pueblo, Colo., November 12, 1998.
University of Northern Colorado, Greeley, Colo., November 10, 1998.
United Technology Educational Partnership, Grand Junction, Colo., November 9, 1998.

Hall-Ellis, Sylvia D. *Cataloging Multimedia, Kits, Globes and Map Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 24, 1997 and December 12, 1996.

Hall-Ellis, Sylvia D. *New Standards for School Library Media Centers.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 15, 1997.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., April 4, 1997.

Hall-Ellis, Sylvia D. *Cataloging Sound Recordings and Audio Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., March 20, 1997 and November 21, 1996.

Hall-Ellis, Sylvia D. *Evaluating and Selecting CD-ROMS for School Library Media Collections.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., March 18, 1997.

Hall-Ellis, Sylvia D. *Cataloging Audiovisual Materials in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., February 27, 1997, November 7, 1996 and October 24, 1996.

Hall-Ellis, Sylvia D. *Introduction to Dialog: Basic Searching Strategies.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., February 14, 1997.

Hall-Ellis, Sylvia D. *Cataloging Books in USMARC.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., January 30, 1997, October 10, 1996, September 26, 1996 and August 8, 1996.

Hall-Ellis, Sylvia D. *Advanced Internet Searching Techniques for Librarians.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., January 21, 1997.

Hall-Ellis, Sylvia D. *Texas Library Connection Full-Text Searching.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., December 13, 1996 and October 25, 1996.

Hall-Ellis, Sylvia D. *Developing Evaluation Strategies for Grants and Proposals.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., December 10, 1996.

Hall-Ellis, Sylvia D. *Developing Needs Assessment for Grants and Proposals.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., November 12, 1996.

Hall-Ellis, Sylvia D. *Texas Library Connection Union Catalog Searching.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., November 8, 1996 and September 6, 1996.

Hall-Ellis, Sylvia D. *Grant Resources on the Internet.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., October 23, 1996.

Hall-Ellis, Sylvia D. *Preparing a Response to the Telecommunications Infrastructure Fund Board: Needs Assessment, Professional Development Framework, and Evaluation Strategies.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., October 16, 1996.

Hall-Ellis, Sylvia D. *Texas Library Connection: Building the Districtwide Bibliographic Database.* Sponsored and hosted by Mercedes Independent School District, Mercedes, Tex., September 13, 1996 and August 8, 1996.

Hall-Ellis, Sylvia D. *Texas Library Connection: Building the Districtwide Bibliographic Database.* Sponsored and hosted by Los Fresnos Consolidated Independent School District, Los Fresnos, Tex., August 12, 1996.

Hall-Ellis, Sylvia D. *School-to-Work and Special Education: An Inclusive Partnership for Success.* Sponsored and hosted by the Office of Special Education, Region One Education Service Center, Edinburg, Tex., September 11, 1996.

Hall-Ellis, Sylvia D. *Telecommunications Infrastructure Fund Board: An Overview of Funding for Secondary Schools.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., August 31, 1996.

Hall-Ellis, Sylvia D. *Cataloging Books, Multimedia, and Realia in USMARC.* Sponsored and hosted by Edinburg Consolidated Independent School District, Edinburg, Tex., August 6, 1996.

Hall-Ellis, Sylvia D. *Internet Resources for Grant Writers.* Sponsored and hosted by Region One Education Service Center, Edinburg, Tex., April 20, 1996.

Hall-Ellis, Sylvia D. *Enhanced Grant Writing Skills for Mathematics Educators: Writing Skills for Campus Teams.* Sponsored and hosted by the Office of General Education, Region One Education Service Center, Edinburg, Tex., March 22, 1996.

Hall-Ellis, Sylvia D. *Internet Resources for Grant Writers.* Sponsored and hosted by the College of Education and Applied Science, Sam Houston State University, Huntsville, Tex., March 9, 1996.

Hall-Ellis, Sylvia D. *Grant Writing for Mathematics Educators: A Development Process for Campus Teams.* Sponsored and hosted by the Office of General Education, Region One Education Service Center, Edinburg, Tex., March 4, 1996.

Hall-Ellis, Sylvia D. *Shaking the Money Tree: Preparing Successful Technology Grant Applications.* Sponsored and hosted by the Office of Technology and Media Services, Region One Education Service Center, Edinburg, Tex., February 29, 1996 and April 29, 1996.

Hall-Ellis, Sylvia D. *District-wide Technology Planning: Technical Assistance for the Texas Education Agency Initiative.* Sponsored and hosted by the Office of Technology and Media, Region One Education Service Center, Edinburg, Tex., February 2, 1996.

Hall-Ellis, Sylvia D. *Enhanced Grant Writing Skills.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., January 27, 1996.

Hall-Ellis, Sylvia D. *United States Copyright Act of 1976, Video Transmissions, Computer Software and the Internet.* Sponsored and hosted by the Office of Technology and Media, Region One Education Service Center, Edinburg, Tex., January 24, 1996.

Hall-Ellis, Sylvia D. *The Grant Writing Development Process.* Sponsored and hosted by Pharr-San Juan-Alamo Independent School District, Pharr, Tex., January 20, 1996.

Hall-Ellis, Sylvia D. *MARC Cataloging of Materials for Library Media Centers.* Sponsored and hosted by the Office of Media Services, Region One Education Service Center for the Donna Independent School District, Donna, Tex., August 17, 1995.

Hall-Ellis, Sylvia D. *Classification.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., May 10, 1995.
Library Technical Services. Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., April 26, 1995.

Hall-Ellis, Sylvia D. *Grant Writing: An Introduction for Public School Administrators.* Sponsored and hosted by the Office of Administrative Services, Region One Education Service Center, Edinburg, Tex., April 19, 1995.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by the United Independent School District, Laredo, Tex., March 31, 1995.

Hall-Ellis, Sylvia D. *Using USMARC.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., March 29, 1995.

Hall-Ellis, Sylvia D. *Library Media Center Policies and Guidelines: How to Prepare for School Board Adoption.* Sponsored and hosted by the Office of Technology and Media Services, La Joya Independent School District, La Joya, Tex., March 10, 1995.

Hall-Ellis, Sylvia D. *Developing District-wide Policies and Guidelines for Library Media Centers.* Sponsored and hosted by the Office of Technology and Media Services, La Joya Independent School District, La Joya, Tex., January 10, 1995.

Hall-Ellis, Sylvia D. *MARC Cataloging of Audiovisual Materials for Library Media Centers.* Sponsored and hosted by the Office of Library Media and Technology Services, Cypress-Fairbanks Independent School District, Houston, Tex., December 1, 1994.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by United Independent School District, Laredo, Tex., October 14, 1994.

Hall-Ellis, Sylvia D. *The School Library Media Specialist in the 21st Century: Visions for the Future.* Sponsored and hosted by the Laredo Independent School District, Laredo, Tex., October 7, 1994.

Hall-Ellis, Sylvia D. *MARC Cataloging for Library Media Centers.* Sponsored by the Office of Library Media and Technology Services, Cypress-Fairbanks Independent School District, Houston, Tex., October 5, 1994.

Hall-Ellis, Sylvia D. *Jump to the Head of the Class: Undergraduate Library Resources Available at Sam Houston State University.* Sponsored by the Office of the Associate Vice President for Student Services, Sam Houston State University, Huntsville, Tex., October 4, 1994.

Hall-Ellis, Sylvia D. *CD-ROMs - 1994's Newest and the Best for Secondary Level Media Centers.* Sponsored and hosted by Clear Lake Independent School District, Houston, Tex., June 3, 1994.

Hall-Ellis, Sylvia D. *Introduction to Classification.* Sponsored by AJ Seminars, Rockville, Maryland; presented at Holiday Inn, Market Center, Dallas, Tex., May 18, 1994.

Hall-Ellis, Sylvia D. *Basic Descriptive Cataloging.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., May 4, 1994.

Hall-Ellis, Sylvia D. *Shaking the Money Tree - Part II: Writing Successful Grant Applications.* Sponsored by Donna Independent School District, Donna, Texas, and Region One Education Service Center Edinburg, Texas; presented at South Texas Community College Library, McAllen, Tex., April 29, 1994.

Hall-Ellis, Sylvia D. *Using MARC.* Sponsored by AJ Seminars, Rockville, Maryland; presented at Holiday Inn, Market Center, Dallas, Tex., April 6, 1994.

Hall-Ellis, Sylvia D. *Automated Authority Control.* Sponsored by AJ Seminars, Rockville, Maryland; presented at University Hilton Hotel, Houston, Tex., March 23, 1994.

Hall-Ellis, Sylvia D. *Automating the District School Library Media Centers: Choices and Opportunities.* Sponsored and hosted by the Office of Technology and Library Media Services, Fort Bend Independent School District, Sugar Land, Tex., March 4, 1994.

Hall-Ellis, Sylvia D. *Shaking the Money Tree - Part I: Preparing Successful Grant Applications.* Sponsored and hosted by the Office of Library Media Services, Donna Independent School District, Donna, Tex., February 4, 1994.

GRADUATE COURSES TAUGHT

San José State University, School of Library and Information Science

INFO 249 – Advanced Cataloging and Classification (Fall 2015, 2016; Summer 2016)
INFO 287 – Special Topics in Cataloging and Classification (Spring 2017, 2018, 2019, 2020, 2021, 2022; Fall 2020, 2021, 2022)
LIBR 248 – Beginning Cataloging and Classification (Summer 2002, 2003, 2004, 2005, 2006)
LIBR 249 – Advanced Cataloging and Classification (Summer 2003; Fall 2014; Summer 2015)

University of Denver, Morgridge College of Education

HED 5991 – Grant Writing in Higher Education (Spring 011)
LIS 4010 – Organization of Information (Fall 2002, 2003, 2004, 2005, 2006, 2009; Winter 2005; Spring 2004, 2005, 2006)
LIS 4020 – Professional Principles and Ethics (Summer 2000)
LIS 4040 – Management of Libraries and Information Centers (Fall 2010; Spring 2003, 2009 (DS); Winter 2005)
LIS 4070 – Cataloging and Classification (Winter 2008, 2009, 2010, 2011, 2012; Fall 2009 (DS))
LIS 4321 – Collection Management (Spring 2005)
LIS 4326 – LIS Research (Winter 2009 (DS); Spring 2009 (DS))
LIS 4350 – Adult Materials and Services (Summer 2006, 2009)
LIS 4379 – Social Sciences Resources (Spring 2009)
LIS 4400 – Cataloging and Classification (Spring 2000, 2001; Winter 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009; Summer 2005, 2006 – course renumbered LIS 4070, September 2007)
LIS 4401 – Descriptive Cataloging (Winter 2001; Spring 2002, 2003, 2006, 2007, 2008, 2009; Summer 2005)
LIS 4402 – Subject Cataloging (Spring 2001, 2009; Summer 2005, 2006, 2007, 2008)
LIS 4403 – Classification Schemes (Fall 2007, 2008, 2009 (DS)
LIS 4405 – Authority Control (Winter 2009)
LIS 4510 – Materials and Services for Children (Winter 2004; Summer 2005)
LIS 4620 – Grant Writing and Fundraising (Summer 2000, 2002, 2004, 2010; Winter 2006; Fall 2006, 2007, 2008, 2009)
LIS 4700 – Seminar in Technical Services (Fall 2001)
LIS 4700 – Seminar in Public Libraries (Summer 2002)
LIS 4804 – Management of Electronic Records (Spring 2004; Fall 2005)
LIS 4902 – Capstone Projects (Winter 2003, Spring 2008, 2009, 2011)
LIS 4910 – Independent Study (every quarter Winter 2000 through Spring 2011)
LIS 4920 – Service Learning (every quarter Summer 2004 through Spring 2011)
Grant Writing Certificate Seminar for Non-Profit Organizations (Fall 2020, 2021; Spring 2021)
RMS 4954 – Grant Writing (Summer 2013, 2014)
RMS 4959 – Content Analysis Methodology (Spring 2015)
QRM 4978 – Grant Writing (Summer 2011, 2012)

Rutgers University, School of Communication and Information

SC&I 522 – Cataloging and Classification (Summer 2013)

University of Arizona, College of Behavioral and Social Sciences

LIS 602 – Cataloging and Classification (Summer 1995)
LIS 612 – Advanced Online Search and Retrieval (Summer 1995)

Sam Houston State University, College of Education & Applied Science

LIS 532 - Cataloging and Classification (Fall 1993, 1994, 1995)
LIS 563 - Advanced Cataloging and Classification (Summer 1994)
LIS 567 - Research Methods (Spring 1994, Spring 1995)
LIS 591 - Educational Technology (Spring 1994, 1995)
LIS 596 - Networking and Computer Technologies in Education (Fall 1993, Summer 1994, Fall 1995)

Dissertations at the University of Denver

Bowers, Stacey L. *Library Anxiety of Law School Students: A Study Utilizing the Multidimensional Library Anxiety Scale.* Chair, May 5, 2010.

Fattor, Melissa M. *Student Engagement Differences by Ethnicity and Scale for Ninth Grade Students.* Chair, November 1, 2010.

Fulton, Roseanne. *A Case Study of Culturally Responsive Teaching in Middle School Mathematics.* Kent Seidel, Chair, June 18, 2009, Outside Chair.

Grealy, Deborah S. *Tribes and Territories in Library and Information Studies Education.* Bruce Uhrmacher, Chair, June 10, 2008, Committee Member.

McCord, J. Michael. *Developing a Standard of Care for Educational Malpractice.* Chair, April 15, 2011.

Priebe, Sarah J. *Distinguishing Effects of Domain and General Knowledge on Passage Fluency and Comprehension.* Jan Keenan, Chair. July 21, 2011, Outside Chair.

Snyder-Mondragon, Sandra M. *Institutional Factors that Impact the Retention of Graduate Students of Color in Schools of Library and Information Science: A Metaregression of Accredited Library School Statistics on Student Retention and Graduation Rates.* Kathy Green, Chair, July 24, 2009, Committee Member.

Taylor, Karen Pickles. *Effective Teaching.* Elinor Katz, Chair, July 15, 2009, Outside Chair.

Thompson, Jennifer. *Distinguishing a Western Women's College: A History of the Curriculum and Student Experience at Colorado Women's College.* Edith W. King, Chair, July 16, 2010, Committee Member.

Walker, Emelda. *Influence of Organizational Factors on Job Satisfaction of Disability Service Providers at Postsecondary Institutions.* Chair, April 29, 2010.

Dissertation Proposals at the University of Denver

Bowers, Stacey L. *Library Anxiety of Law School Students: A Study Utilizing the Multidimensional Library Anxiety Scale.* Chair, November 5, 2009.

McCord, J. Michael. *Developing a Standard of Care for Educational Malpractice.* Edith W. King, Chair. April 23, 2010.

Thompson, Jennifer. *History of Colorado Women's College.* Edith W. King, Chair, October 30, 2008. Committee Member.

Walker, Emelda. *Influence of Organizational Factors on Job Satisfaction of Disability Service Providers at Postsecondary Institutions.* Chair, July 21, 2009.

Dissertations at Other Institutions

Rodríguez-Mori, Howard. *The Information Behavior of Puerto Rican Immigrants to Central Florida, 2003-2009: Grounded Analysis of Six Case Studies Use of Social Networks during the Migration Process.* Kathleen Burnett, Chair, April 10, 2009, Florida State University, Committee Member.

Schwartz, Brian *More than a Look-up Skill: Medical Information Literacy Education in Osteopathic Medical Schools.* D. Mirah Dow, Chair, July 18, 2017. Emporia State University, Committee Member.

Snow, Karen. *A Study of the Perception of Cataloging Quality among Catalogers.* Shawne D. Miksa, Chair, August 1, 2011. University of North Texas, Committee Member.

Dissertation Proposals at Other Institutions

Schwartz, Brian *More than a Look-up Skill: Medical Information Literacy Education in Osteopathic Medical Schools.* D. Mirah Dow, Chair, December 4, 2015. Emporia State University, Committee Member.

Snow, Karen. *A Study of the Perception of Cataloging Quality among Catalogers.* Shawne D. Miksa, Chair, May 11, 2010. University of North Texas, Committee Member.

Master's Thesis at the University of Denver

Hemingson, Jeff. *Recital Paper.* Lamont School of Music, February 2010, Outside Chair.

Capstones at the University of Denver

Anthony, Alisa. *Correlation of Library and Information Science Program outcomes and Vacant Position Qualifications Listed on the Colorado State Library Jobline by Employers During the Period September 1, 2000 through August 31, 2002.* Chair, Winter Quarter, 2003.

Borden, Donna M. *Improving Emergency Communications Systems: Is a Radio Communications Network the Answer?* Fall Quarter, 2014.

Bowden, Heather L.M. *Exploring Biological Models for Long-term Data Preservation.* Chair, Spring Quarter, 2008.

Casenada, Cassandra Y. *Challenges to the Recruitment, Education, and Retention of Librarians of Color*. Chair, Spring Quarter, 2008.

Chang, Jennifer C. *Legal Research Practice and Preference: A Law Firm Perspective.* Chair, Spring Quarter 2011.

Ellis, Megan S. Fitzgerald. *Design of a Public Library Adult Volunteer Recruitment Program and Training Curriculum.* Chair, Winter Quarter, 2003.

Kircher, Kathy. *Development of a Library Pathfinder for Exobiology and Posting it on the Internet.* Chair, Winter Quarter, 2003.

Melhado, Loretta. *Design of St. John's Episcopal Church Library.* Chair, Spring Quarter, 2008.

Radcliff, Kathy. *Original Cataloging of Archival materials in the HERS Collection in Penrose Library.* Chair, Winter Quarter, 2003.

Sass, Carol Ann. *ACT Periodical Index: Access to Catholic Thinking Periodical Index: Web Index to Select Catholic Periodicals.* Spring Quarter 2000.

Stone, Sergio D. *Conducting Community Analysis for the Bemis Public Library (Littleton, Colorado) Using 2002 U.S. Census Data and the Online Outcome-Based Evaluation Toolkit.* Chair, Winter Quarter, 2003.

Tureson, Tamara. *Design and Use of an Information Audit Tool for Use in a Law Library.* Chair, Winter Quarter, 2003.

Tweed, Beth. *Evaluation of Email Reference Service in a Consumer Health Library Environment.* Chair, Winter Quarter, 2003.

GRANTS AND CONTRACTS

Student Learning in Agriculture STEM through Teacher Professional Development. Research team: Stanton Gartin (PI) and Cyndi Hofmeister, Northeast Junior College; Jeff Cash, Cheryl Sánchez, Anne-Marie Crampton, Lamar Community College; Suzanna Spears, Morgan Community College; Jack Wiley, Kerry Gabrielson, Trinidad State Junior College; Michael J. Miller, Colorado State University; Michael Womochil (Co-PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Agriculture, Agriculture and Food Research Initiative, Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative, $404,460 (2017-2020)

Leading and Achieving: the Colorado Agriculture Regional Consortium. Research team: Jack Wiley (PI), Kerry Gabrielson, Trinidad State Junior College; Jeff Cash (PI), Cheryl Sánchez, Anne-Marie Crampton, Lamar Community College; Suzanna Spears, Morgan Community College; Cyndi Hofmeister, Northeast Junior College; Michael Womochil (Co-PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Agriculture, Hispanic Serving Institutions Education Grants Program, $504,414 (2017-2020)

Cyber Prep Program Planning Grant. Research team: Debbie Sagen (PI), Brenda Lauer, Pikes Peak Community College; Gretchen Martin, Koiosa Insights; and, Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Commerce, Regional Alliances and Multi-stakeholder Partnerships to Stimulate (RAMPS) Cybersecurity Education and Workforce Development, $199,681 (2016-2018)

Career and Technical Education in Colorado: Pathways to Education and Employment. Research team: Heather McKay (PI), Rutgers University; Sarah Heath, Casey Sacks, Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Education, Institute of Education Sciences, $1,400,000 (2017-2021)

Pre-Alliance Planning Grant Colorado Community College Alliance. Research team: Victor Vialpondo (PI) and Janel Highfill, Community College of Aurora; Heidi Loshbaugh (Co-PI), Community College of Denver; Rick Reeves, Bill McGreevy, Liz Cox, and Kristin Aslin, Red Rocks Community College; Cathy Pellish, Front Range Community College; Samuel DeVries, Arapahoe Community College; Sylvia D. Hall-Ellis, Colorado Community College System. National Science Foundation, Louis Stokes Alliance for Minority Participation (LSAMP), $86,817 (2016-2017)

Towards Scalable Differentiated Instruction Using Technology-enabled, Competency-based, Dynamic Scaffolding. Research team: Karen Wilcox (PI) and Vijay Kumar, Center for Computational Engineering, Massachusetts Institute of Technology; Flora McMartin, Broad-based Knowledge; Quinsigamond Community College; and, Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Education, First in the World Developmental Grant, $2,891,882 (2015-2019)

Colorado Strategic Partnerships Emergency Grant. Research team: Elise Lowe-Vaughn (PI), Amy Hodson, Celia Hardin, Barbara McBride, James Newby, Christopher Dewhurst, Nina Holland, Kate Anderson, MaryAnn Roe, Chrystalynn Chrystalynn, Elaine Edon, Mona Barnes, Tom Morgan, Rob Hanni, and Marie Valenzuela, Colorado Department of Labor and Employment; Steve Anton, Joelle Brouner, and, Katie Griego, Colorado Department of Human Services; Rebecca Holmes, Judith Martinez, and Jennifer Jirous, Colorado Department of Education; Emily Templin Lesh, Colorado Workforce Development Council; Cory Everett, Colorado Department of Regulatory Agencies; and, Casey Sacks and Sylvia D. Hall-Ellis, Colorado Community College System. U.S. Department of Labor, Strategic Partnerships Emergency Grant, $5,000,000 (2015-2017)

CAEL Jump Start Program: Competency-Based Education. Research team: Jerry Migler (PI), Casey Sacks, Debra Cohn, Thomas Hartman, and Sylvia D. Hall-Ellis, Colorado Community College System; Matt Jamison, Front Range Community College; Mike Coste, Red Rocks Community College; Amanda Corum, Pueblo Community College; Janet Colvin, Pikes Peak Community College; and, MaryAnn Matheny, Community College of Denver. Council for Adult and Experiential Learning, $15,000 (2015)

Summit on the Redesign of Developmental Education. Research team: Jerry Migler (PI), Casey Sacks, and Sylvia D. Hall-Ellis, Colorado Community College System; Chip Nava, Pueblo Community College; Kim Moultney, Arapahoe Community College; Debbie Ulibarri, Trinidad State Junior College; and, Kris Bernard, Front Range Community College. American Association of Community Colleges, $15,000 (2015-2016)

Equity in Excellence at Colorado Community Colleges. Research team: Keith Howard (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Estela Mata Bensimon, Center for Urban Education, University of Southern California; and Kerry Gabrielson, Trinidad State Junior College. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $150,000 (2015-2016)

MBA High School of Business in Colorado. Research team: Laurie Urich (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Rudolph Sumpter and Beatrice Gerrish, Boulder Valley Schools; Keith Curry Lance, RSL Research Group. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $501,295 (2015-2016)

Fullbridge Program in Colorado. Research team: Keith Howard (PI) and Sylvia D. Hall-Ellis, Colorado Community College System; Suzanna Spears, Fort Morgan Community College; and, Cheryl Sánchez and Anne-Marie Compton, Lamar Community College. Colorado Department of Higher Education, Colorado Opportunity Scholarship Program, $300,000 (2015-2017)

Colorado Community College System Alternative Credit Program. Research team: Jerry Migler (PI), Keith Howard, and Sylvia D. Hall-Ellis, Colorado Community College System. American Council on Education, $13,000 (2015)

Internationalization in Higher Education. Researcher: Samuel D. Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $8,000 (2014-2015)

International Perspectives on Bilingual Education. Researcher: Sharolyn Pollard-Durodola. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $3,700 (2014-2015)

Cultivating Culturally Relevant and Responsive Curriculum and Pedagogy in College. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, iRise Grant, $5,000 (2014-2015)

Project EMERGE (Educational Model for Evaluation and Replicability in Gifted Environments). Research team: Norma Hafenstein (PI) and Bruce Uhrmacher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Lynde and Harry Bradley Foundation, $235,000 (2014-2015)

Collecting Asian American Refugee Stories. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. American Educational Research Association, Research Grant, $5,000 (2014-2015)

Developing Expertise in Teaching K-5 Mathematics. Research team: Julie Sarama (PI) and Douglas H. Clements (Co-PI), in partnership with the School of Education at the University of Michigan. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $130,344 (2013-2015)

Investigation of the Long-Term Outcomes for Special Education Students. Researcher: Antonio Olmos-Gallos. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Jefferson County School District, Office of Assessment, $40,000 (2014)

Refugee Community Collaboration. Researcher: Vicki Tomlin (PI) in partnership with the African Community Center and Jewish Family Service. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $14,854 (2014-2015)

Access to Mathematics for All. Research team: Richard S. Kitchen (PI), Nicole M. Russell (Co-PI), and Terrence Blackman (Co-PI), Curriculum Studies and Teaching Program, Morgridge College of Education; Álvaro Árias (Co-PI, Department of Mathematics); and, James Gray (Co-PI), Department of Mathematics, Community College of Aurora. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, The Robert Noyce Scholarship Program, Capacity Building Project, $349,926 (2014-2016)

Cognitive Test Battery for Intellectual Disabilities. Research team: Karen Riley (PI), Lyndsay Agans, Jessica Lerner, and Karin Dittrick-Nathan in partnership with David Hessl (PI), The MIND Institute at the University of California – Davis, and Elizabeth Berry-Kravis, Rush University Medical Center. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Institutes of Health, Outcome Measures for Use in Treatment Trials for Individuals with Intellectual and Developmental Disabilities (R01), $2,499,996 ($588,672 at DU) (2014- 2019)

Broadening Participation in Engineering among Women and Latino/as: A Longitudinal, Multi-Site Study. Researcher: Patton Garriott (PI) in partnership with the University of North Dakota and the University of Missouri. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, HER Core Research, $677,390 ($69,992 at DU) (2014-2019)

Designing a Teacher Evaluation System to Improve Teacher Effectiveness for Culturally and Linguistically Diverse Learners. Research team: María del Carmen Sálazar (PI), Jessica Lerner, and Kathy Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $29,988 (2014-2016)

Developing a College-Going Culture in Latina/O Families: Exploring the Influence of Funds of Knowledge on Family Outreach Programs. Researcher: Judy Marquez Kiyama. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $18,720 (2014-2016)

Assessment of Quality of Life in Neutral Implantation Surgery for the Treatment of Parkinson's Disease. Researcher: Cynthia McRae. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $3,967 (2014-2015)

Pura Vida: Cloud Forest, Curriculum and Cross-Cultural Study. Research team: Norma Hafenstein (PI) and Bruce Uhrmacher (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $8,000 (2014-2015)

Online Course Development for Curriculum and Instruction. Researcher: Ruth Chao. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: María del Carmen Sálazar. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: Jessica Lerner. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

Online Course Development for Curriculum and Instruction. Researcher: Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2014)

The Mathematics Education of African Americans, 1866 – 1954. Researcher: Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Academy of Education, Spencer Foundation Postdoctoral Fellowship, $55,000 (2014-2016)

Early Childhood Care and Education Study. Research team: Carrie Germeroth (PI), Melissa Mincic, and Douglas H. Clements. Technical reviewer for MCE: Sylvia D. Hall-Ellis. State of North Dakota, Department of Public Instruction, $73,500 (2013-2014)

Graduate Level Specialty in Addiction Counselor Training with Emphasis on Integration of Native American Specific Content. Research team: Ruth Chao (PI) and Michael J. Faragher (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. The Galena Foundation, $289,732 (2013-2016)

The Collecting Asian American and Pacific Islander Refugee Stories (CARS) Project. Researcher: Samuel Museus. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $15,000 (2014)

Parents in Transition: A Multiple Case Study of Parent and Family Orientation Programs. Researcher: Judy Marquéz Kiyama. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $1,500 (2014-2015)

The Sistah Network: Black Women Graduate Students Supporting and Retaining Each Other. Researcher; Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,708 (2014-2015)

Evaluation of the Northeast Denver Babies Ready for College Program. Research team: Carrie Germeroth (PI), Melissa Mincic, and Douglas H. Clements. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High Montessori, $9,922 (2013-2014)

Developing Teaching Expertise in K-5 Mathematics. Research team: Julie Sarama (PI) and Douglas Clements (University of Denver), in partnership with Timothy Boerst (PI), Meghan Shaughnessy, Deborah Ball, Hyman Bass (School of Education at the University of Michigan). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $449,827 ($130,344 at the University of Denver (2013-2015)

Early Learning Care and Education Study Program Grant for the State of North Dakota. Research team: Carrie Germeroth (PI), Melissa Mincic, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. State of North Dakota Department of Public Instruction, $73,500 (2013-2014)

Local Professional Learning Community for School Leaders. Research team: Susan Korach (PI), Kristina Hesbol, and Rebecca McClure. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Education Development Center, $10,950 (2013)

Healthy Eaters, Lifelong Movers 2: Implementing Evidence-Based School Environment, Policy, and Curricular Changes to Increase Opportunities for Healthy Eating and Physical Activity in Low Income, Rural Colorado. Research team: Elaine Berlansky, University of Colorado at Denver (PI), Nicholas Cutforth, University of Denver (Co-PI), and Allison Reeds. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $3,103,108 (2013-2017)

Hughes Rare Books Library Room Renovation in the Sturm College of Law. Project team: Patti H. Marks, Sylvia D. Hall-Ellis, and Leigh Elliott. Mabel T. Hughes Charitable Trust, $34,000 (2013-2014)

The Promise Center Partnership with the Marsico Institute for Early Learning and Literacy and the City and County of Denver. Research team: Karen Riley (PI), Douglas H. Clements (Co-PI), and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. The Piton Foundation, $223,468 (2013-2014)

Center of Excellence for Problem Gambling. Research team: Ruth Chao (PI) and J. Mike Faragher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $68,021 (2012-2013)

United Way Implementation and Validation Review. Research team: Douglas H. Clements (PI), Amanda Moreno, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High United Way, $19,737 (2013)

Math/Science Partnership in Rural Districts. Research team: Kristen Bunn (PI, Eagle County Schools), Paul Michalec (Co-PI), and Alegra Reiber. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Education, Colorado's Mathematics and Science Partnership Program, $750,000 (2013-2014)

Mathematics and Science Education of African Americans. Research team: Nicole Russell (PI), Sylvia D. Hall-Ellis, Steve Fisher (Penrose Library). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $29,994 (2013-2015)

Online Course Development for Curriculum and Instruction. Researcher: Nicole Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $3,000 (2013)

Discourse and Opportunity: Undocumented Students and Higher Education Policy. Researcher: Ryan Gildersleeve. Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Academy of Education, Spencer Foundation Postdoctoral Fellowship, $55,000 (2012-2014)

An Anthropological Study of the Latino Graduation Ceremony. Researcher: Ryan Gildersleeve. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Spencer Foundation, $39,900 (2012-2013)

Fragile-X and Pharmaceutical Company: Clinical Trial of AFQ056. University of California – Davis Children's Hospital MIND Institute (Sacramento), Children's Hospital Denver, and Rush Children's Hospital at Rush University Medical Center (Chicago). Karen Riley, PI. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Novartis Pharmaceuticals Corporation, $394,206 (2012-2014)

Project Engage, Phase 2, a DAPRA Grant in partnership with Total Immersion Systems, Inc., and Texas A&M University. Research team: Karen Riley (PI) and Lyndsay Agans (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Defense, $60,000 (2011-2013)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $14,951 (2012-2013)

Online Course Development for Curriculum and Instruction. Research team: Bruce Uhrmacher (PI) and Norma Hafenstein (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Teaching and Learning, $18,193 (2012-2014)

Writers in the Schools. Research team: Karen Riley (PI) and Amanda Moreno (Co-PI).Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Humanities, $4,965 (2012-2013)

Learning Ecosystem Validation Grant. Research team: Karen Riley (PI), Lyndsay Agans, Kent Seidel, and Shimelis Assefa. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Bill & Melinda Gates Foundation, $315,000 (2012-2013)

Project Words of Oral Reading and Language Development (WORLD). Research team: Jorge E. Gonzalez (PI), Texas A&M University; Laura Saenz (Co-PI), University of Texas – Pan American; and, Sharolyn Pollard-Durodola (Co-PI), University of Denver. Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $53,354 (2012-2015); award $640,718, transfer from Texas A&M University

Increasing the Efficacy of an Early Mathematics Curriculum with Scaffolding Designed to Promote Self-Regulation. Research team: Douglas H. Clements (PI) and Julie Sarama (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $1,445,315 (2008-2014); award $4,541,975, transfer from University at Buffalo, The State University of New York

Using Rule Space and Poset-based Adaptive Testing Methodologies to Identify Ability Patterns in Early Mathematics and Create a Comprehensive Mathematics Ability Test. Research team: Douglas H. Clements (PI) and Julie Sarama (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $323,791 (2010-2014); award $1,194,944, transfer from University at Buffalo, The State University of New York

Comprehensive Postdoctoral Training in Scientific Education Research. Researcher: Julie Sarama (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Education, Institute of Education Sciences, $133,458 (2010-2014); award $613,353, transfer from University at Buffalo, The State University of New York

Longitudinal Study of a Successful Scaling Up Project: Extending TRIAD. Research team: Douglas H. Clements (PI), Julie Sarama (Co-PI), and Abt Associates (Carolyn Layzer, Fatih Unlu, Laurie Bozzi, Lily Fesler, Alina Martinez, Cristofer Price, James van Orden). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Institute of Education Sciences, $384,940 (2011-2015; award $1,250,286, transfer from University at Buffalo, The State University of New York

Early Childhood Education in the Context of Mathematics, Science, and Literacy. Research team: Julie Sarama (PI), Douglas H. Clements (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. National Science Foundation, $990,020 (2010-2014; award $2,285,228, transfer from University at Buffalo, The State University of New York

Early Childhood Clearinghouse Information Center Redesign. Research team: Karen Riley (PI) and Amanda Moreno (Co-PI).Technical reviewer for MCE: Sylvia D. Hall-Ellis. Office of the Lt. Governor of Colorado, $12,000 (2012-2013)

Morgridge Rural Educational Leadership Initiative. Research team: Lyndsay Agans (PI), Linda Brookhart (Co-PI), Susan Korach, and Rebecca McClure. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Morgridge Family Foundation, $100,000 (2012-2014)

Center of Excellence for Problem Gambling. Research team: Patrick Sherry (PI) and J. Mike Faragher. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $55,000 (2012-2013)

Intermodal Transportation Institute Research Initiatives. Researcher: Patrick Sherry. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University Transportation Centers Program, Research and Innovative Technology Administration, U.S. Department of Transportation. $600,000 (2012-2014)

Mile High United Way Social Innovation Fund Early Literacy Initiative. Gloria L. Miller, PI, Amanda Moreano, Kim Hartnett-Edwards, and Sheridan Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Mile High United Way, $89,992 (2012-2013)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, $1,000 (2012-2013)

Refugee Student Art Outreach. Researcher: Karin Dittrick-Nathan. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $3,000 (2012-2013)

Resistance, Resilience, and Reciprocity: Centering the Voices of Black Doctoral Women with Faculty Aspirations. Researcher: Nicole M. Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,965 (2012-2013)

Assessing Learning through Student Notebooks. Research team: Keith Miller, Nancy Sasaki, and Kathy Green. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Professional Research Opportunities for Faculty, $30,000 (2012-2014)

International School Psychology Practicum Exchange. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $2,000 (2012-2013)

ELO in Colorado. Research team: Cynthia Hazel and Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Legacy Foundation, $150,000 (2012-2013)

Creating Online LIS Courses. Research team: Mary C. Stansbury (PI), Shimelis Assefa, Denise Anthony, Xiao Hu, and Krystyna Matusiak. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $15,000 (2011-2013)

Maritime Piracy Seminar. Researcher: Ved Nanda, The Nanda Center, Sturm College of Law. Technical reviewer for Sturm College of Law: Sylvia D. Hall-Ellis. Arsenault Family Foundation, $15,000 (2012-2013).

Early Childhood Librarianship: An Interdisciplinary, Experiential Learning MLIS. Researcher: Mary C. Stansbury (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Laura Bush's 21st Century Librarians Program, Institute for Museums and Library Services, $249,066 (2012-2014)

Learning Ecosystem Planning Grant. Research team: Karen Riley (PI), Lyndsay Agans, Kent Seidel, and Shimelis Assefa. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Bill & Melinda Gates Foundation, $281,217 (2011-2012)

Advanced Service Learning Practitioner Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Community Engagement and Service Learning, $400 (2011)

Evaluating and Enhancing the EspeciallyMe Program. Research team: Lori D. Patton and Nicole Russell. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, Public Good Fellowship Grant, $24,780 (2012)

Choosing Excellence: Let Every Child Bloom. Research team: Shimelis Assefa (PI) and Mary C. Stansbury (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Community Engagement and Service Learning, Public Good Grant, $7,657 (2012)

K-8 STEM Content Specific Professional Development to Improve Elementary Student Achievement. Research team: Kent Seidel (PI), Nicole Russell (Co-PI), Kimberly Hartnett-Edwards, Paul Michalec, Jeff Farmer, Keith Miller, Alegra Reiber, and Nancy Sasaki. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Education, Improving Teacher Quality Grant, (Title II ESEA), $307,299 (2011-2012)

Building a Better Principal Pipeline to Boost Student Achievement. Researcher: Susan Korach. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Denver Public Schools; a subcontract from the Wallace Foundation Grant, $170,000 (2011-2017)

Center of Excellence for Problem Gambling. Research team: J. Mike Faragher (Co-PI) and Bobbie Vollmer (PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Department of Behavioral Health, $79,999 (2011-2012)

An Exploration of Novice Teachers' Core Competencies: Impacts on Student Achievement, and Effectiveness of Preparation. Research team: Kent Seidel (PI), Kathy Green (Co-PI), Kimberly Hartnett-Edwards, and Duan Zhang. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Institute of Education Sciences, Effective Teachers and Effective Teaching, $990,987 (2012-2015)

Project Engage, a DAPRA Grant in partnership with Total Immersion Systems, Inc., and Texas A&M University. Research team: Karen Riley (PI) and Lyndsay Agans (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. U.S. Department of Defense, $49,964 (2011-2014)

User-centered Evaluation of Music Search Engines. Researcher: Xiao Hu. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Faculty Research Fund, $2,931 (2011-2012)

Educational Practicum in Vietnam and China to Promote the Inclusion of Young Children with Disabilities. Researcher: Gloria L. Miller. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Office of Internationalization, $5,000 (2011-2012)

Evaluation of Colorado's Enhancing Quality in Infant-Toddler (EQIT) Initiative. Research team: Virginia R. Maloney and Amanda Moreno. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Buell Foundation, $395,884 (2011-2013)

Creating Engaging Environments to Teach Pre-Algebra Mathematics to Elementary Students. Research team: Álvaro Arias, Mario López, María del Carmen Salazar, and Lyndsay Agans. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver Interdisciplinary Grant, $60,000 (2011-2012)

Morgridge Education Technology Accessible (META) Resource Project. Research team: Lyndsay Agans (PI) and Shimelis Assefa (Co-PI). Technical reviewer for MCE: Sylvia D. Hall-Ellis. Morgridge Family Foundation, $36,000 (2011)

MCE Connect: A 21st Century Framework for Faculty Development. Research team: Bruce Uhrmacher (PI), Shimelis Assefa (Co-PI), Lyndsay Agans (Co-PI), Kimberly Hartnett-Edwards, Norma Hafenstein, Xiao Hu, Paul Michalec (Co-PI), María del Carmen Salazar (Co-PI), and Sandra Snyder-Mondragon. Technical reviewer for MCE: Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $22,355 (2011-2012)

Parent Education and Parent Leadership and Advocacy. Research team: Virginia Maloney (PI) and Amanda Moreno, Marsico Institute for Early Learning and Literacy. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $27,358 (2010-2011)

Intentional School Culture. Researcher: Cynthia Hazel. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Denver Public Schools, $38,040 (2010-2011)

Healthy Eaters, Lifelong Movers: Implementing Evidence-Based School Environment, Policy, and Curricular Changes to Increase Opportunities for Healthy Eating and Physical Activity in Low Income, Rural Colorado. Research team: Elaine Berlansky, University of Colorado at Denver (PI), Nicholas Cutforth, University of Denver (Co-PI), and Allison Reeds. Technical reviewer for MCE: Sylvia D. Hall-Ellis. Colorado Health Foundation, $1,683,277 (2011-2014)

Second Life Learning Community. Research team: Don McCubbrey (PI), Sylvia D. Hall-Ellis (Co-PI), Walter LaMendola, and Paul Novak. University of Denver, Center for Teaching and Learning, $13,000 (2010-2011)

Reintroducing the Value of Law Librarians to Academic and Public Librarians in Colorado through the Identification and Use of Emerging Technologies. Research team: Sylvia D. Hall-Ellis (Co-PI), Stacey L. Bowers (PI), and Christopher Hudson, in partnership with Denver Public Library, Arapahoe Library District, and the Colorado State Supreme Court Library. University of Denver, Center for Community Engagement and Service Learning, $5,773 (2010-11)

Reintroducing the Value of Law Librarians to Public Librarians through the Identification and Use of Emerging Technologies and Resources. Research team: Stacey Bowers (PI) and Sylvia D. Hall-Ellis (Co-PI). American Association of Libraries, Wolters Kluwer Law & Business Grant Program, $2,725 (2010-2011)

Faculty Service Learning Pod. Research team: María del Carmen Salazar and Nicholas Cutforth (Curriculum and Instruction Program), Frank Tuitt (Higher Education Program), Cynthia Hazel and Gloria Miller (Child, Family, and School Psychology Program), and Sylvia D. Hall-Ellis (Library and Information Science Program). University of Denver, Center for Community Engagement and Service Learning, $8,000 (2010-2011)

Lincoln Collaborative. Research team: Antonio Esquibel (Principal, Lincoln High School), María del Carmen Salazar (Curriculum and Instruction Program), and. Sylvia D. Hall-Ellis. School Improvement Grant, Denver Public Schools, $375,000 (2010-2012)

Future LEADers of America: Leaders III. Research team: Denver Public Library (Kristen Svendson, PI), the University of Denver (Sylvia D. Hall-Ellis), the Colorado Chapter of REFORMA (Orlando Archibeque), and the Colorado Association of Libraries (Martin Garnar). Laura Bush's Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $988,366 (2009-2012)

Teaching for Success in the Library Environment: LIS 4030 in Library 2.0. Research team: Deborah S. Grealy (PI) and Sylvia D. Hall-Ellis (Co-PI). University of Denver, Center for Teaching and Learning, $ 9,350 (2009-10)

Writing Group Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Community Engagement and Service Learning, $750 (2008-2009)

Collaborative Learning Faculty Grant, Sylvia D. Hall-Ellis, University of Denver, Center for Teaching and Learning, $1,500 (2008)

Connecting Information Literacy to Learning. Research team: Lori Micho, Merrie Valliant, Amanda Samland, and Sylvia D. Hall-Ellis. Colorado State Library, LSTA Discretionary Grant Program, $19,548 (2008-2009)

Law Librarianship Fellows Program. Research team: Sylvia D. Hall-Ellis (PI), Stacey Bowers (Co-PI), and Christopher Hudson, Westminster Law Library. Laura Bush's 21st Century Librarians Program, Institute for Museums and Library Services, $999,370 (2008-2012)

Grant Writing in a Cooperative Learning Environment. Sylvia D. Hall-Ellis. University of Denver, Center for Teaching and Learning, $2,000 (2008-2009)

Project Homeless Connect 6 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $9,785 (2008)

Project Ecuador: International Learning Service Libraries – A Faculty Development Experience in Ecuador. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $600 (2007)

Project Ecuador: International Learning Service Libraries – A Faculty Development Experience in Ecuador. Sylvia D. Hall-Ellis, International Service Learning Office, University of Denver, $400 (2007)

Project Homeless Connect 5 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $1,000 (2007)

Project Homeless Connect 4 Event Evaluation. Research team: Sylvia D. Hall-Ellis and Duan Zhang. University of Denver Center for Community Engagement and Service Learning, $4,595 (2007)

Future LEADers of America: Leaders II. Research team: Denver Public Library (Kristen Svendson, PI), the University of Denver (Sylvia D. Hall-Ellis), and the Colorado Chapter of REFORMA (Orlando Archibeque). Laura Bush's Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $988,518 (2007-2010)

Strategic Planning Assistance for the Denver Medical Library. Sylvia D. Hall-Ellis. Denver Medical Library, Inc., $30,000 (2006-2007)

Destiny Software for JMAC Student Lab. Sylvia D. Hall-Ellis, gift from the Sagebrush Corporation, Minneapolis, Minnesota, $10,000 (2006)

Libraries: Tools for Education and Development Worldwide: A Faculty Development Experience in France. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $800 (2005)

Denver Public Library: Opportunities for Change. Sylvia D. Hall-Ellis, Colorado Community Based Research Network, $2,000 (2005)

Future LEADers of America. Research team: Denver Public Library (Letty Icolari and Steve Taylor, PIs), Emporia State University (Jim Agee), and the University of Denver (Sylvia D. Hall-Ellis). Recruiting Librarians for the 21st Century Program, Institute for Museums and Library Services, $670,315 (2005-2008)

American Association of University Professors Summer Institute Professional Development Grant. Sylvia D. Hall-Ellis, American Association of University Professors, $300 (2005)

Beta Phi Mu Alumni Tea. Sylvia D. Hall-Ellis, gift from the Office of Alumni and Parent and Relations, University of Denver, $2,000 (2005)

Spectrum Software for LIS Student Lab. Sylvia D. Hall-Ellis, gift from the Sagebrush Corporation, Minneapolis, Minnesota, $5,000 (2005)

Developing Research Capacity in Community Organizations and Residents through Training and Technical Assistance. Nicholas J. Cutforth (PI) and Sylvia D. Hall-Ellis. Piton Foundation, $25,000 (2005-2006)

Libraries: Tools for Education and Development Worldwide: A Faculty Development Experience in Argentina. Sylvia D. Hall-Ellis, Office of Internationalization, University of Denver, $500 (2004)

Developing Research Capacity in Community Organizations and Residents through Training and Technical Assistance. Research team: Nicholas J. Cutforth (PI), Gary Lichtenstein and Sylvia D. Hall-Ellis, Piton Foundation, $25,000 (2003-2004)

Increasing Spanish-Speaking and Hispanic Diversity among Library and Information Science Students at the University of Denver: Development of a Student Recruitment Model. Researcher: Sylvia D. Hall-Ellis (PI), Office of Multicultural Excellence, University of Denver, $2,750 (2003-2004)

Collection Development Enrichment to Support the Cataloging & Classification Specialization and School Librarianship within the Library & Information Science Program at the University of Denver. Research team: Sylvia D. Hall-Ellis (PI) and Deborah S. Grealy. Women's Library Association, University of Denver, $4,000 (2003)

Collection Development Enrichment to Support the Library & Information Science Program at the University of Denver. Research team: Deborah S. Grealy (PI) and Sylvia D. Hall-Ellis. Women's Library Association, University of Denver, $4,000 (2001)

Wireless LAN for Library Education. Research team: Deborah S. Grealy (PI) and Sylvia Hall-Ellis. University of Denver, Center for Teaching and Learning, $24,000 (2001-2002)

Upward Bound – A Program for South Texas Youth. Research team: Monte Churchill, Executive Director of Community Relations; Gary R. Sauceda, Outreach Coordinator; Raymond Hernandez, (PI) Associate Dean for Student Success; and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). U.S. Department of Education, Office of Postsecondary Education, $2,672,003 (1999-2003)

Write Now! Improving Elementary Students' Writing Skills. Research team: Caryl G. Thomason, Assistant Superintendent (PI); Karen Tankersley, Principal; and, Hal Anderson, Director of Technology, Cheyenne Mountain School District 12 (Colorado Springs, Colorado); and Sylvia D. Hall-Ellis. Colorado Department of Education, Educational Telecommunications Unit, $189,453 (1999-2001)

Operation Quick Start -- Distance Learning in Rural Colorado. Research team: Randal Weigum, Technology Coordinator (PI); Bonnie Barns, Director of Federal Programs and Staff Development; and, Adam "Joe" Raskop, Executive Director, Southeastern Board of Cooperative Educational Services (Lamar, Colorado); and Sylvia D. Hall-Ellis. Colorado Department of Education, Educational Telecommunications Unit, $400,000 (1999-2001)

Advanced Technological Training for Information Professionals for the 21st Century. Research team: Mario Reyna, Division of Business Director (PI) and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). Phi Delta Kappa and the National Science Foundation, $250,000 (1999-2001)

Working Connections – Training Information Technologies Professionals for the 21st Century. Research team: Mario Reyna, Division of Business Director (PI) and Sylvia D. Hall-Ellis, South Texas Community College (McAllen, Texas). Microsoft Corporation and the American Association of Community Colleges, $1,147,775 (1999-2001)

The ROAD (Research Oriented Amplification of Development to Literacy) Program. Research team: Deborah J. Leong (PI), Metropolitan State University; Elena Bodrova, Metropolitan State University; Dmitri Semenov, Robert J. Marzano, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Foundation, $25,000 (1998-1999)

Press to Literacy. Research team: Deborah J. Leong (PI), Metropolitan State University; Elena Bodrova, Metropolitan State University; Dmitri Semenov, Robert J. Marzano, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). The Denver Post and the Robert S. McCormick Foundation, $49,818 (1998-1999)

International Telementor Center. Research team: David Neils, David B. Frost (PI), and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Philanthropy, $100,000 (1998-1999)

America Reads: Providing Tutor Training for the America Reads Challenge. Research team: Louis F. Cicchinelli (PI) and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Department of Education, Office of Educational Research and Improvement, $306,000 (1998-1999)

Comprehensive School Reform. Research team: Louis F. Cicchinelli (PI), J. Timothy Waters, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Department of Education, Office of Educational Research and Improvement, $285,000 (1998-1999)

Sustainable Energy Education (SEE) Program for Grades 4-8: Preparing Today's Youth for Lifelong Learning and Responsible Actions in Energy Conservation. Research team: Mary Gromko, Colorado Department of Education; Gene McCarthy, Rocky Flats Field Office, U.S. Department of Energy; Gina Kissell, National Renewable Energy Laboratory; and Barbara L. McCombs (PI), Janet L. Bishop, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). State of Colorado Governor's Office for Energy Conservation, $499,936 (1997-1999)

Review of Kansas Curriculum Standards in Mathematics and Language Arts. Research team: Robert J. Marzano (PI), John S. Kendall, David B. Frost, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Submitted to the Kansas State Department of Education, $25,903 (1998)

International Telementor Center. Research team: David Neils, John Kuglin, Chris Rapp, David B. Frost (PI), and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). Hewlett-Packard Company, $54,752 (1998)

Genesis Mission: Education Public Outreach. Developed in partnership by the Jet Propulsion Laboratory, California Institute of Technology, Los Alamos National Laboratory, Lockheed Martin Astronautics, and the Mid-continent Regional Educational Laboratory (Aurora, Colorado). Research team: John T. Sutton (PI), Alice Krueger, Martha Henry, Greg Rawls, Shae Isaacs, Jeff Johnson, Deb Jordan, Arlene Mitchell, David B. Frost, Jana Caldwell, J. Timothy Waters, and Sylvia D. Hall-Ellis. National Aeronautics and Space Administration, $139,700,000; subcontract award, $4,750,000 (1997-2007)

North Dakota Mathematics Assessment Project. Developed in partnership by the North Dakota Department of Education and Mid-continent Regional Educational Laboratory (Mid-continent Regional Educational Laboratory). Research team: Ann Clapper, Clarence Bina, Greg Gallagher, North Dakota Department of Education; Don Burger (PI), Hillary Michaels, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Office of Education, $1,618,214; subcontract award, $389,076 (1997-2001)

Pacific Resources for Education and Learning Distance Education: Project Evaluation. Developed in partnership by the Pacific Educational Community, the Pacific Resources for Education and Learning (PREL), and Mid-continent Regional Educational Laboratory (McREL). Research team: John W. Kofel (PI), Executive Director, PREL; J. Timothy Waters, Executive Director; Joan Buttram, Robert Keller, and Sylvia D. Hall-Ellis, Mid-continent Regional Educational Laboratory (Aurora, Colorado). U.S. Office of Education, Star Schools Program, $10,000,000; subcontract award, $500,000 (1997-2002)

Identification of Bilingual Gifted and Talented Children: A Comprehensive School Grants for Bilingual Education. Developed in partnership by Hidalgo (Texas) ISD, Los Fresnos (Texas) CISD, Progreso (Texas) ISD, University of Texas – Pan American (Edinburg, Texas), and Education Service Center, Region One (Edinburg, Texas). Research team: Hilda Medrano, Dean, College of Education, University of Texas – Pan American; Linda Phemister (PI), Janie Navarro, and Sylvia D. Hall-Ellis, Education Service Center, Region One. U.S. Department of Education, Office of Bilingual Education and Minority Languages Affairs, $1,670,633 (1997-2002)

Academics 2000: First Things First -- The Texas Goals 2000. Developed for Jim Hogg (Hebbronville, Texas) County ISD, Mirando City (Texas) ISD, and San Isidro (Texas) ISD. Research team: Hilda Medrano, Dean, College of Education, University of Texas - Pan American (Edinburg, Texas); Angie Lehmann, Amy Mares, Ellen Gonzalez (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg, Texas). Texas Education Agency, $339,987 (1997-2000)

Southwestern Bell's Learning Communities Initiative. Developed for Tech Prep of the Rio Grande Valley, Inc. (Harlingen, Texas); the Center for Professional Teacher Development, University of Texas – Brownsville; Teach for America – Rio Grande Valley (McAllen, Texas); and Education Service Center, Region One (Edinburg, Texas). Research team: Patricia G. Bubb, Executive Director (PI), Tech Prep of the Rio Grande Valley; Martin Winchester, Executive Director, Teach for America – Rio Grande Valley; Aileen Johnson, Director, School of Education, University of Texas – Brownsville; and Sylvia D. Hall-Ellis. Southwestern Bell Foundation, $100,000 (1997-1998)

Texas School to Work: Regional Implementation. Developed for Tech Prep of the Rio Grande Valley, Inc. (Harlingen), South Texas Community College (McAllen), Texas State Technical College (Harlingen), Texas Southmost College (Brownsville), Empowerment Zone of the Rio Grande Valley (Mercedes), Project VIDA (Weslaco), Youth Fair Chance (McAllen), and Education Service Center, Region One (Edinburg). Research team: Patricia G. Bubb (PI), Tech Prep of the Rio Grande Valley; Stephen Vassberg, Texas State Technical College; Ellen Trevino, Youth Fair Chance; Wanda Garza, Project VIDA; Leonardo Olivares, University of Texas – Pan American; Michael Bell, South Texas Community College; and Sylvia D. Hall-Ellis. Texas Workforce Commission, $4,250,000 (1997-2002).

Comprehensive Bilingual Education Grant for Hidalgo ISD and Roma ISD. Developed for Hidalgo (Texas) ISD, Roma (Texas) ISD, College of Education, University of Texas – Pan American (Edinburg, Texas), and Education Service Center, Region One (Edinburg, Texas). Research team: Tomas Thomas (PI), Director, Office of Bilingual Education and Sylvia D. Hall-Ellis. U.S. Department of Education, Office of Bilingual Education and Minority Languages Affairs, $1,531,361 (1997-2002)

Lopez High School, Porter High School, Rivera High School, Central Middle School, and Perkins Middle School, Brownsville (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $1,473,611 (1997-1998)

Donna High School, Todd Middle School, and Solis Middle School, Donna (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $704,052 (1997-1998)

Memorial Middle School and Nellie Schunior Middle School, La Joya Independent School District (Texas). Telecommunications Infrastructure Fund Board, $293,641 (1997-1998)

Martin High School, Christen Middle School, Cigarroa Middle School, Lamar Middle School, Laredo (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $1,200,000 (1997-1998).

Lasara Middle School, Lasara (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $246,210 (1997-1998)

Los Fresnos High School and Resaca Middle School, Los Fresnos (Texas) Consolidated Independent School District. Telecommunications Infrastructure Fund Board, $500,000 (1997-1998)

Lyford Junior High School, Lyford (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $354,997 (1997-1998)

Travis Middle School, McAllen (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $269,139 (1997-1998)

Mission High School, Mission (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $297,010 (1997-1998)

Progreso High School, Progreso (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $300,000 (1997-1998)

San Perlita High School, San Perlita (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $293,490 (1997-1998)

Myra Green Junior High School, Raymondville (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $225,000 (1997-1998)

Rio Grande City High School, Ringgold Middle School, Gruella Middle School, Rio Grande City (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $809,934 (1997-1998)

Rio Hondo Junior High School, Rio Hondo (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $297,024 (1997-1998)

Roma High School, Roma (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $333,178 (1997-1998)

San Benito High School, Miller Jordan Junior High School, San Benito (Texas) Consolidated Independent School District. Telecommunications Infrastructure Fund Board, $547,000 (1997-1998)

Santa Maria High School and Santa Maria Middle School, Santa Maria (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $400,000 (1997-1998)

Salvador High School, United Independent School District (Laredo, Texas). Telecommunications Infrastructure Fund Board, $250,879 (1997-1998)

Weslaco High School, Cabaza Middle School, Cuellar Middle School, Weslaco (Texas) Independent School District. Telecommunications Infrastructure Fund Board, $874,242 (1997-1998)

Principals' Assessment and Training Center. Developed for Education Service Center, Region One (Edinburg, Texas). Research team: Roberto Zamora, Leonel Barrera, William H. Parry, and Sylvia D. Hall-Ellis. Texas Principals' Leadership Initiative, Texas Association of Secondary School Principals, Texas Association of Elementary School Principals, and the Sid Richardson Foundation. $461,439 (1996-1998)

The Texas Library Connection -- Integrating and Sharing Resources. Developed for Hidalgo County Library System (McAllen), Cameron County Library System (Brownsville), South Texas Community College (McAllen), the University of Texas - Pan American (Edinburg), University of Texas – Brownsville, and Education Service Center, Region One (Edinburg). Research team: William R. McGee, Coordinator, Hidalgo County Library System; Joe Garcia, Director, Cameron County Library System; Michael D. Bell, Library Director, South Texas Community College; Eleanor Folger Foster, University Library, University of Texas - Pan American; Jaime Vela (PI), Director of Instructional Technology and Media Services, Ron Pontius, Instructional Technology, and Fabiola Fuentes, Media Services, Education Service Center, Region One; and Sylvia D. Hall-Ellis. Office of Library Media Services, Technology Services, Texas Education Agency. $8,000 (1996-1997)

Developing Leadership Communities for Improving Algebra I for All Students. Developed for a partnership of the Region One Statewide Systemic Initiative Team. Research team: Noel Villarreal (PI), Eduardo Cancino, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Statewide Systemic Initiative for Reform in Mathematics, Science and Technology Education to The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin. $25,000 (1996-1997)

Academics 2000: First Things First -- The Texas Goals 2000. Developed for Edinburg (Texas) CISD. Research team: Hilda Medrano, Dean, College of Education, University of Texas - Pan American (Edinburg); Helen Jones, Director (PI), Gifted and Talented Education, Edinburg CISD; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $750,000 (1996-2001)

Texas Teachers Empowered for Achievement in Mathematics (TEXTEAM) Institute for Algebra I. Developed for Hidalgo ISD, Jim Hogg (Hebbronville) County ISD, La Joya ISD, La Villa ISD, Lyford ISD, Mission CISD, Pharr-San Juan-Alamo ISD, Rio Hondo ISD, San Isidro ISD, San Perlita ISD, Santa Maria ISD, Santa Rosa, Sharyland ISD, Valley View ISD, Webb (Laredo) CISD, Weslaco ISD, and Zapata County (Zapata) ISD. Research team: Noel Villarreal (PI), Chuck McInteer, Ellen M. Gonzalez, Education Service Center, Region One (Edinburg); and Sylvia D. Hall-Ellis. Charles A. Dana Center for Mathematics and Science Education, University of Texas - Austin, $15,975 (1996)

Community Learning Center for La Villa, Texas. Developed for Edcouch-Elsa Independent School District. Research team: Noe Gonzalez (PI), Assistant Superintendent, Edcouch-Elsa Independent School District, and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $325,000 (1996-1997)

Monte Alto (Texas) Community Learning Center. Developed for Monte Alto Independent School District. Research team: Homero A. Diaz (PI), Superintendent, Monte Alto Independent School District, and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $300,000 (1996-1997)

Community Learning Center for La Villa, Texas. Developed for La Villa Independent School District. Research team: Sam Gonzalez (PI), Assistant Superintendent, La Villa Independent School District; and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $325,000 (1996-1997)

Building Project for Taylor Elementary. Developed for Mercedes (Texas) Independent School District. Research team: Mrs. Denise Rivera, Librarian, and Eduardo Infante, Principal, Taylor Elementary School; Ismael S. Cantu (PI), Federal Programs Director, Mercedes Independent School District; and Sylvia D. Hall-Ellis. Delta Region Subzone, Rio Grande Valley (Texas) Rural Empowerment Zone, $375,000 (1996-1997)

Border Education Network (BEN) - Distance Education through Cable Television. Developed for Edinburg (Texas) Consolidated Independent School District. Research team: Noe Torres (PI), Library Media Specialist, Magdalena
Rosas, Library Media and Technology Coordinator, Edinburg Consolidated Independent School District; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Edinburg (Texas) Consolidated School District, $250,000 (1996-1997)

Multiservice One-Stop Open Enrollment Charter School. Developed for the Information Referral Resource Assistance, Inc. (McAllen, Texas). Research team: Pablo Perez and Aguie Pena (PI), Executive Director, Information Referral Resource Assistance, Inc.; Roberto Zamora and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $3,066,000 (1996-2001)

Project OK: A Community Youth Opportunities Grant for Summer, 1996. Developed for McAllen (Texas) Independent School District, St. Joseph the Worker Catholic Church, and the Office of Adult Education, Education Service Center, Region One. Research team: Father Bart Flatt, St. Joseph the Worker Catholic Church; Noe Calvillo (PI), Office of Adult Education; Maria Louisa Garcia, McAllen Independent School District; and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Protective and Regulatory Agency through the Office of the Mayor, City of McAllen, $350,000 (1996-2001).

Early Childhood: a Time of Discovery. Developed for a partnership of Lasara ISD, Rio Hondo ISD, San Perlita ISD, the School of Education, University of Texas - Brownsville, and Education Service Center, Region One (Edinburg). Research team: Hugo Rodriguez, Dean, School of Education, University of Texas - Pan American; Leonel Barrera and Jack Damron, Field Service Agents, Ellen M. Gonzalez (PI), Administrator for Student Instructional Services, Ruth Solis, Education Specialist in Special Education, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $722,090 (1996-2001)

Innovative Gifted and Talented Programs for Early Childhood and Elementary Education Students. Developed for a partnership of Edinburg (Texas) CISD, the School of Education, University of Texas - Pan American (Edinburg), and Education Service Center, Region One (Edinburg). Research team: Hilda Medrano, Dean, School of Education, University of Texas - Pan American; Helen de la Garza (PI), Director of Elementary Curriculum and Instruction, Edinburg CISD; and Sylvia D. Hall-Ellis. Texas Education Agency, $750,000 (1996-2001)

Reading Recovery in Early Elementary Grades. Developed for a partnership of La Villa (Texas) ISD the School of Education, University of Texas - Pan American (Edinburg), and Education Service Center, Region One (Edinburg). Research team: Hilda Medrano, Dean, School of Education, University of Texas - Pan American; Marcario Salinas (PI), Supervisor of Elementary Curriculum and Instruction, La Villa ISD; and Sylvia D. Hall-Ellis, Education Service Center, Region One. Texas Education Agency, $750,000 (1996-2001)

Connected Mathematics Project for Middle and Junior High Students. Developed for a partnership of Michigan State University, The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin and Region One Statewide Systemic Initiative Team. Research team: Jack Damron, Chuck McInteer, Noel Villarreal (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). National Science Foundation through Michigan State University to the Charles A. Dana Center at the University of Texas - Austin, $539,610 (1996-1999)

Sharing Resources: Testing the Interlibrary Loan Potential of the Texas Library Connection -- Integrating Media Resources. Developed under the sponsorship of the Hidalgo County Library System (McAllen) and Education Service Center, Region One (Edinburg). Research team: William H. McGee, Hidalgo County System Coordinator; Fabiola Fuentes, Library Media; Ronald Pontius (PI), Instructional Technology, Education Service Center, Region One; and Sylvia D. Hall-Ellis. Library Media Services Program, Office of Technology Services, Texas Education Agency, $25,000 (1996-1997)

State and Federal Adult Education JOBS Program. Developed for Education Service Center, Region One (Edinburg). Research team: Noe Calvillo (PI), Director, Adult Education Program, and Sylvia D. Hall-Ellis. Adult Education Program, Texas Education Agency, $532,846 (1995-1996)

Creating Safe and Drug-Free Schools and Communities. Developed for a partnership of the Region One Consortium for Safe and Drug-Free Education Environments. Research team: Clara Contreras (PI), Health Specialist, and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Education Agency, $150,000 (1995-1996)

Developing Leadership Communities for Improving Mathematics Performance for All Students on Title I Campuses. Developed for a partnership of the Region One Statewide Systemic Initiative Team. Research team: Jack Damron, Chuck McInteer, Noel Villarreal (PI), and Sylvia D. Hall-Ellis, Education Service Center, Region One (Edinburg). Texas Statewide Systemic Initiative for Reform in Mathematics, Science and Technology Education to The Charles A. Dana Center for Mathematics and Science Education, The University of Texas at Austin, $50,669 (1995-1996)

The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas. Sylvia D. Hall-Ellis (PI). Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville). Texas Association of School Librarians, Children's Services Round Table, and Young Adults Round Table (Austin, Texas), $2,500 (1995)

School Library Media Specialists Fellowship Program. Sylvia D. Hall-Ellis (PI). Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville, Texas). U.S. Department of Education, HEA Title II-B, Library Education and Human Resource Development Program, $44,000 (1995-1996)

Planning for Educational Technology. Research team: Ruth Ann Riggins (PI), Director of Library Media and Technology Services, Donna (Texas) Independent School District; Noe Torres, Education Service Center, Region One; Patricia G. Bubb, Tech Prep of the Rio Grande Calley, Inc; Michael D. Bell, South Texas Community College; and Sylvia D. Hall-Ellis, Sam Houston State University. Developed under the sponsorship of Donna (Texas) Independent School District, Education Service Center, Region One (Edinburg), Tech Prep of the Rio Grande Valley, Inc. (Harlingen), South Texas Community College (McAllen), and the Department of Library Science, Sam Houston State University (Huntsville). Funded through Infusion of Educational Technology Planning Grant Program (H.B. 18: Models). Texas Education Agency, $18,000 (1993-1994)

The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas. Sylvia D. Hall-Ellis (PI) and Mary Ann Berry. Developed under the sponsorship of the Department of Library Science, College of Education and Applied Science, Sam Houston State University (Huntsville). Sam Houston State University Research Enhancement Fund, $7,500 (1993-1994)

Electronic Mail Resource Sharing System: Management and Operation of the Iowa Computer-Assisted Network. State Library of Iowa, $294,000 (1986-1993)

The Iowa Locator: A CD-ROM Resource Sharing Tool. State Library of Iowa, $567,000 (1986-1992)

Statewide Database Development: An OCLC Tape Analysis To Determine Feasibility. State Library of South Dakota, $15,000 (1987)

The Iowa Locator: A Feasibility Study. State Library of Iowa, $50,000 (1986)

Electronic Mail Resource Sharing System: A Feasibility Study for Libraries in the State of Iowa. State Library of Iowa, $5,000 (1985)

Access Pennsylvania: A Feasibility Study. State Library of Pennsylvania, $50,000 (1984)

Automating Library Administrative and Management Tasks: Procurement and Distribution of Microcomputer Systems for District Library Centers in the Commonwealth of Pennsylvania. State Library of Pennsylvania, $495,000 (1982)

Sharing Serial Titles Resources: Procurement and Distribution of Microfiche Readers for 550 Libraries in the Commonwealth of Pennsylvania. State Library of Pennsylvania, $500,000 (1982)

Electronic Mail System: A Pilot Project for Libraries throughout the Commonwealth of Pennsylvania. State Library of Pennsylvania, $125,000 (1982)

Literacy Program for Adults in Rural Upstate New York State: Program Outreach and Evaluation - Phase 3. Appalachian Regional Commission, $50,000 (1981)

Database Building: A Cooperative Project of the Finger Lakes Library System (Ithaca), Four County Library System (Binghamton), and the Southern Tier Library System (Corning). New York State Library, $450,000 (1980-1985)

Faces of the Southern Tier: A Professional Photographer-in-Residence. New York State National Endowment for the Humanities, $25,000 (1980)

Literacy Program for Adults in Rural Upstate New York State: Program Implementation - Phase 2. Appalachian Regional Commission, $50,000 (1980)

Small Business Resources Center: A Pilot Project for Rural Public Libraries. New York State Library, $50,000 (1980)

Media Programming: A Professional Development Program for Public Librarians in Upstate New York: A Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $35,000 (1979)

Information and Library Resources for Inmates and Prisoners in Selected Upstate New York Facilities: A Cooperative Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $25,000 (1979)

Library Resources for Homebound Adults in Upstate New York: An Outreach Program in Allegheny, Chemung, Schuyler, Steuben, and Yates Counties. New York State Library, $40,000 (1979)

Literacy Program for Adults in Rural Upstate New York State: Program Initiation and Establishment - Phase 1. Funded by the Appalachian Regional Commission. Awarded to the Corning (New York) Public Library, $50,000 (1979)

Information Reference Services to Homebound Adults. New York State Library, $31,000 (1978)

Books-By-Mail Services to Homebound Adults. New York State Library, $31,000 (1978)

System Headquarters Services and Programs for Public Libraries in District 10. Funded through Library Services and Construction Act Title I. Texas State Library and Historical Commission, $880,000 (1976)

County Library Development Grant for Atascosita County. Funded through Library Services and Construction Act Title I. Texas State Library and Historical Commission, $15,000 (1976)

Spanish Language Materials Collection Development Program. Texas State Library and Historical Commission, $40,000 (1975)

Establishment of System Headquarters for Alamo Regional Library System (District 10) Headquartered at the San Antonio (Texas) Public Library. Texas State Library and Historical Commission, $800,000 (1975)

SELECTED CONSULTANTSHIPS

Project Strategic Planning & Funding Proposal Development

Walden University, 2015.

Pikes Peak Library District, 2014.

Douglas County Public Libraries, 2011-2012.

Denver School for Science and Technology, 2008-2011.

Johnson & Wales University, Denver Campus, 2007-2009.

Challenges, Choices, and Images K-12 Charter School, Denver Public Schools, 2007.

Denver Medical Library, Inc., 2006-2010.

Bemis Public Library (Littleton), Ergonomic Design and Facilities Enhancement Consultant, 2003.

Curtis Park Community Center (Denver), Community Technology Center Evaluation and Proposal Development Consultant, 2003.

Colorado Community Based Research Network (Denver), Funding Research Associate, 2002-

Our Lady of the Rosary Academy (Edgewater), Learning Resource Center Development Project Consultant, 2001-

University of Southern Colorado (Pueblo). Technology Integration and Curriculum Enhancement into Higher Education Learning Environment. Proposal Development Consultant, 2000.

Jefferson County Library System (Lakewood), 1999-2000.

Southeastern BOCES (Lamar, CO). Distance Learning Curriculum Content Development Project. Proposal Development Consultant, 1998-2004.

Cheyenne Mountain School District 12 (Colorado Springs, CO). Technology Integration into Elementary Writing Curriculum Project. Proposal Development Consultant, 1998.

Telecommunications Infrastructure Fund Board Round #2 Application, 1997. Technical assistance to the following: La Villa (Texas) Independent School District; Mirando City (Texas) Independent School District; Monte Alto (Texas) Independent School District; San Isidro (Texas) Independent School District.

Telecommunications Infrastructure Fund Board Round #1, 1996. Technical assistance to the following: Brownsville (Texas) Independent School District; Donna (Texas) Independent School District; Edinburg (Texas) Consolidated Independent School District; Harlingen (Texas) Consolidated Independent School District; Jim Hogg County Independent School District (Hebbronville, Texas); La Feria (Texas) Independent School District; La Joya (Texas) Independent School District; La Villa (Texas) Independent School District; Los Fresnos (Texas) Consolidated Independent School District; Progreso (Texas) Independent School District; Raymondville (Texas) Independent School District; Rio Hondo (Texas) Independent School District; San Benito (Texas) Independent School District; Sharyland Independent School District (Mission, Texas); Weslaco (Texas) Independent School District; Zapata (Texas) County Independent School District.

South Texas Community College (McAllen). Strategy Development to Meet the Technology Instructional Needs for Vocational, School-To-Work and Academic Programs, 1994-2000. Development Consultant.

Donna (Texas) Independent School District. Planning for the Infusion of Technology in Middle Schools Serving High At-Risk Students, 1994-1995. Research Associate.

Pettus (Texas) Independent School District. Planning for District-wide Automation in School Library Media Centers: Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1994. Principal Investigator.

Fort Bend Independent School District (Sugar Land, TX). Planning for District-wide Automation in School Library Media Centers, Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1994-1995. Principal Investigator.

Northern Waters Library Services (Ashland, WI). Professional Consulting Services to Make Recommendations on the Development of System-Wide Efforts of the Northern Waters Library Service, 1988-1989. Research Associate.

State Library of Iowa (Des Moines). The Iowa Locator Compact Disc to Support Multi-Type Libraries Resource Sharing including Database Design, Building, Production, and Distribution, 1986-1991. Project Director.

State Library of Iowa (Des Moines). Iowa Computer-Assisted Network Development, Enhancement, and Operation, 1985-1992. Technical Director.

State Library of South Dakota (Pierre). Statistical Sampling and Analysis of Multi-Institutional OCLC Archive Tape for Statewide Online Database Building, 1985-1986. Research Associate.

District of Columbia Public Library (Washington, DC). Planning Document for the Retrospective Conversion of Bibliographic Records and Automation Issues in the 1990's, 1984-1985. Research Associate.

State Library of Pennsylvania (Harrisburg). Database Development for High School Libraries, 1984-1985. Research Associate.

MINITEX (Minneapolis, MN). Workshops for Retrospective Conversion, Bar Coding, Library Statistics, and OCLC Serials Format, 1985. Presenter and Research Associate.

ABC Film Consortium (Altoona, Bellefonte, Johnstown, PA). Database Building, System Design, and Implementation of Online Film Booking System, 1983-1985. Database Manager.

Library Automation -- System Design & Implementation

Douglas County Library District (Castle Rock, CO). Library Automation Technical and System Performance Specifications, 2001.

Pharr-San Juan-Alamo Independent School District (Pharr, TX). Library Automation Technical and System Performance Specifications, 1997. Project Development Consultant.

Harlingen (Texas) Independent School District. Planning for District-wide Automation in Junior High School Library Media Centers: Preparation of Data, and CD-ROM Hardware/Software Configuration Evaluation, 1996. Principal Investigator.

Sharyland (Texas) Independent School District. Design and Construction of New Elementary School Library and Technology Resources Center, 1995-1996. Principal Investigator.

South Texas Independent School District (Mercedes, TX). Design and Construction of a New High School Library and Technology Resources Center, 1995-1996. Principal Investigator.

Citizens' Library (Washington, PA). Online Community Resources Files: Design and Implementation, 1984. Research Associate.

Altoona (Pennsylvania) Hospital. Integrated Online System Upgrade Study, 1984. Research Associate.

State Library of South Dakota (Pierre). Automation Plan and State Database Development, 1982-1983. Principal Investigator.

State Library of Pennsylvania (Harrisburg). COM Production and Preparation of the Technical Specifications Document, Procurement, and Distribution of Microcomputers in the Commonwealth of Pennsylvania, 1983-1984. Research Associate.

Altoona (Pennsylvania) Area Public Library. Integrated System (Circulation/Online Catalog) Study, 1982-1983. Principal Investigator.

COPSCAULD (Council of Pennsylvania State College and University Library Directors, Edinboro, PA). Design of Online Media Catalog, 1982. Principal Investigator.

Erie (Pennsylvania) County Library System. Operations Research and Design for Automated Circulation, Hardware Upgrade and Re-Retrospective Conversion, 1982. Research Associate.

Michigan Library Consortium (Lansing, MI). Tape Management System Design and Implementation, 1982-1984. Research Associate.

State Library of Pennsylvania (Harrisburg). Preparation of the Technical Specifications Document, Procurement and Distribution of Microfiche Readers in the Commonwealth of Pennsylvania, 1982. Research Associate.

Community College of Allegheny County, Allegheny Campus (Pittsburgh, PA). Integrated Systems Study, 1981. Principal Investigator.

Community College of Allegheny County, South Campus (West Mifflin, PA). Retrospective Conversion Training Program for Handicapped Students, 1981. Technical Director.

Southern Tier Library System (Corning, NY). OCLC Acquisitions Subsystem Evaluation, 1981. Principal Investigator.

South Central Reference and Research Council (Ithaca, NY). South Central Regional Delivery System, 1980. Principal Investigator.

Southern Tier Library System (Corning, NY). Newspapers on Microfilm in the Chemung-Southern Tier Library System, 1979-1981. Principal Investigator.

Cataloging & Bibliographic Database Building

Challenges, Choices, and Images K-12 Charter School, Denver Public Schools, 2007.

Denver Medical Library, Inc., 2006-2010.

Ricks Gifted and Talented School Library, 2005-

American Humane Society (Englewood), 2004-2006.

Fisher Early Learning Center Library, 2004-

Colorado Community Based Research Network (Denver), 2004-
Boulder Valley School District (Boulder), 2002-2003.

Douglas Public Library District (Castle Rock), 2001-2002.

Bibliographic Center for Research, Inc. (Denver). Original Cataloging, 2001-2003 & 1992-1993. Professional Cataloger. Libraries include Arapahoe Library District (Centennial); Clarke College (Clarke, IA); Kaiser Permanente Center for Health Research (Portland, KS); Douglas County Library System (Carson City, NV); Grinnell College (Grinnell, IA); Kansas State University (Manhattan, KS); Kansas State Library (Topeka, KS); McPherson College (McPherson, KS); Newman University (Wichita, KS); Montana Technical University (Helena, MT); Montana State Library (Helena, MT); University of Texas Southwest Medical Center Library (Dallas, TX); Community College of Southern Nevada (Las Vegas, NV); Pikes Peak Library District (Colorado Springs); Mesa Community College (Grand Junction); Coe College (Cedar Rapids, IA); Briar Cliff College (Sioux City, IA); Tri-Care Health Systems (Aurora); The Penrose-St. Francis Healthcare System (Colorado Springs); Westminster Public Library (Westminster); Lutheran Medical Center Medical Library (Wheat Ridge); American Heritage Center, University of Wyoming (Laramie, WY); National Wildlife Research Center Library (Lakewood); University of Colorado Health Sciences Center, Denison Memorial Library (Denver); Water Resources Library, Denver District Office, Bureau of Land Management (Lakewood); Mesa State Community College Learning Resources Center (Pueblo); Front Range Community College Learning Resources Center (Westminster).

Colorado Historical Society Library (Denver). Original Cataloging of Serials for Multi-Institutional Union Listing Project, 1993. Technical Services Associate. Institutional partners: Denver Art Museum, Denver Museum of Natural History Library, and Denver Botanical Gardens Library.

Arapahoe Library District (Centennial). Original Cataloging of Major Media, 1991.

Original Cataloging Projects: Davis and Elkins College (Elkins, WV), 1989-1990; Waldorf College (Forest City, IA), 1989-1990; Kennametal Corporation (Latrobe, PA), 1984-1985; Pennsylvania Public Libraries Film Center (Harrisburg), 1982-1985.

Retrospective Conversion Projects: North Central Regional Library Service (Mason City, IA), 1987-1988; Southeastern Library Services (Davenport, IA), 1986-1987; Virginia Theological Seminary (Alexandria), 1984-1985; California University of Pennsylvania (California, PA), 1984-1985; Kennametal Corporation (Latrobe, PA), 1984-1985; West Virginia University (Morgantown), 1983-1985; Altoona Area Public Library (Altoona, PA), 1983-1984; George Washington University (Washington, DC), 1983-1984; Indiana University of Pennsylvania (Indiana, PA), 1983-1985; Health Education Center (Pittsburgh), 1983-1984; Central Pennsylvania District Library Center (Bellefonte, PA), 1982-1985; Duquesne University Law School Library (Pittsburgh), 1982-1983; Allegheny County Law Library (Pittsburgh), 1982-1984; Calgon Technical Information Center (Pittsburgh), 1982; Dow Corning Corporation, Technical Information Center (Midland, MI), 1982-1983; Tri-System Public Library Retrospective Conversion Project (Binghamton, Corning, and Ithaca, NY), 1978-1981, Technical Project Director.

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