UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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FREEWHEEL MEDIA, INC.,
Petitioner,

v.

ALMONDNET, INC.,
Patent Owner.

Patent No. 7,861,260

Inter Partes Review No.
IPR2024-00422

DECLARATION OF SYLVIA HALL-ELLIS, PH.D.

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert on behalf of FreeWheel Media, Inc. ("FreeWheel," Petitioner").

2. I have written this report on behalf of Petitioner to provide my expert opinion regarding the authenticity and public availability of several publications. My report sets forth my opinions in detail and provides the basis for my opinions regarding the public availability of these publications.

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

4. I am being compensated for my time spent working on this matter at my normal consulting rate of $350 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 litigation. I have no other interests in this proceeding or with any of the parties.

5. All of the materials that I considered 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. 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 55-plus 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 Directors, as a member of the Editorial Board for the ALCTS premier cataloging journal, *Library Resources and Technical Services,* as a Co-Chair of the Membership Committee for the Library Research Round Table (LRRT) for the

American Library Association, and as a member of the LRRT Nominating Committee. Currently I serve on the CORE Margaret Mann Citation 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. My full curriculum vitae is attached hereto as Appendix A.

III. PRELIMINARIES

10. *Scope of this declaration.* 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 on or around the listed dates of their respective publications below.

11. 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.

12. 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.

13. 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.

14. *Persons of ordinary skill in the art*. I am told by counsel that the subject matter of this proceeding generally relates to systems and methods using a common Internet Protocol address to identify associations among multiple electronic devices and using the associations to cause cross-device action.

15. I have been informed by counsel that a person of ordinary skill in the art ("POSITA") at the time of the alleged invention is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the alleged invention of the patent (which in this case is assumed to be April 17, 2007). This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles applicable to the pertinent field.

16. I am told by counsel that persons of ordinary skill in this subject matter or art would have had a degree in computer or electrical engineering, computer science, or a similar discipline, and two years of experience with the design and/or implementation of network-based content delivery systems and Internet advertising.

17. It is my opinion that such a person would have been engaged in research and familiar with accessing print resources like those discussed in this

declaration. Indeed, over the course of my career including the years leading up to April 2007, I have assisted many similar engineers in acquiring such resources.

IV. LIBRARY CATALOGING PRACTICES

A. MARC RECORDS AND THE ONLINE LIBRARY CATALOG

18. 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.[1] 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 each of its items. Today, MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.

19. MARC is a framework into which descriptive bibliographic data are transcribed to interact with the software in online library catalogs to provide access to books, journals, and other resources in the collection. Bibliographic data provide points of access and can be searched by a person of ordinary skill in the art at the time of the invention ("POSITA," see paragraphs 14-17 above) to identify and obtain resources in the library collection. An information seeker (or POSITA) can search a local online library catalog or the holdings of a group of libraries in a state

[1] The full text of the standard is available from the Library of Congress at http://www.loc.gov/marc/bibliographic/ (last visited February 20, 2024).

or region or in the global catalog WorldCat.

20. MARC records are not designed for public viewing. Although a significant number of libraries provide access to the MARC version of a bibliographic record, the public display is designed to show information in a succinct manner that is quickly understood and useful to the information seeker. Libraries determine the default search for the online catalog to make the entry of search terms efficient and result in a successful search. Information seekers can enter a keyword, title, author, or standard number for the item. Libraries may also provide a search capability called "Summon" that allows the information seeker to enter known information about the item to conduct a search.

21. 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.[2] As explained by the Library of Congress:

> You could devise your own method of organizing the bibliographic information, but you would be isolating your library, limiting its options, and creating much more work for yourself. Using

[2] 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 available online from the Hathi Trust (https://babel.hathitrust.org/cgi/pt?id=mdp.39015034388556;view=1up;seq=1; last visited February 20, 2024).

the MARC standard prevents duplication of work and allows libraries to better share bibliographic resources. Choosing to use MARC enables libraries to acquire cataloging data that is predictable and reliable. If a library were to develop a "home-grown" system that did not use MARC records, it would not be taking advantage of an industry-wide standard whose primary purpose is to foster communication of information.

Using the MARC standard also enables libraries to make use of commercially available library automation systems to manage library operations. Many systems are available for libraries of all sizes and are designed to work with the MARC format. Systems are maintained and improved by the vendor so that libraries can benefit from the latest advances in computer technology. The MARC standard also allows libraries to replace one system with another with the assurance that their data will still be compatible.

Why Is a MARC Record Necessary? LIBRARY OF CONGRESS.[3]

22. Thus, almost every major library in the world is MARC-compatible. *See, e.g.*, *MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS.[4]

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[3] http://www.loc.gov/marc/umb/um01to06.html#part2

[4] https://www.loc.gov/marc/faq.html

("MARC is the acronym for MAchine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began 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 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.[5]

23. Examining the MARC records for a specific item reveals the comprehensive data transcribed about a particular item at the time that cataloging and classification occurred. In addition to the creator, title, subjects, and standard numbers, additional information may provide additional and relevant data depending on the type of resource. Understanding the full extent of bibliographic data for an item and the points of access associated with it provides essential information that can be used to determine the indexing and public availability for documents described in this declaration.

B. MARC RECORDS

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

[5] http://www.loc.gov/marc/bibliographic/

work's title is recorded in Field 245; the primary author of the work is transcribed in Field 100; an item's International Standard Book Number ("ISBN") consisting of ten or thirteen digits is transcribed in Field 020; an item's International Standard Serial Number ("ISSN") is transcribed in Field 022; the Library of Congress classification notation is recorded in Field 050; and the publication date is recorded in Field 260 under the subfield "c." 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.[6]

25. The library that created the record is recorded in Field 040 in subfield "a" with a unique library code. When viewing the MARC record online via Online Computer Library Center's ("OCLC") bibliographic database, hovering over this code with the mouse reveals the full name of the library. I used this method of "mousing over" the library codes in the OCLC database to identify the originating library for the MARC records discussed in this Declaration. Where this "mouse over" option was not available, I consulted the Directory of OCLC Libraries to identify the institution that created the MARC record.[7]

26. MARC records also include several fields that include subject matter

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[6] http://www.loc.gov/marc/bibliographic/bd3xx.html

[7] https://www.oclc.org/en/contacts/libraries.html

classification information. An overview of MARC record fields is available through the Library of Congress.[8] For example, 6XX fields are termed "Subject Access Fields."[9] Among these, for example, is the 650 field; this is the "Subject Added Entry – Topical Term" field.[10] The 650 field is a "[s]ubject added entry in which the entry element is a topical term." 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))." *Id.* Further, MARC records include call numbers, which themselves include a classification number. For example, the 050 field is the "Library of Congress Call Number."[11] A defined portion of the Library of Congress Call (LCC) Number is the classification number, and "source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*." Thus, included in the 050 field is a subject matter classification. Further, the 082 field is the "Dewey Decimal Call Number."[12] A defined portion of the Dewey Decimal Call (DDC) Number is the classification number, and "source of the classification number is the *Dewey*

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[8] http://www.loc.gov/marc/bibliographic/

[9] http://www.loc.gov/marc/bibliographic/bd6xx.html

[10] http://www.loc.gov/marc/bibliographic/bd650.html

[11] http://www.loc.gov/marc/bibliographic/bd050.html

[12] http://www.loc.gov/marc/bibliographic/bd082.html

Decimal Classification and Relative Index." Thus, included in the 082 field is a subject matter classification. 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 LCC classification number, it appears as part of the 050 field. When the Library of Congress assigns the DDC classification number, it appears as part of the 082 field. If a local library assigns the classification number, it appears in a 090 field. In either scenario, the MARC record includes a classification number that represents a subject matter classification.

C. OCLC

27. 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,

literary and educational knowledge and information."[13] Among other services, OCLC and its members are responsible for maintaining the WorldCat database (http://www.worldcat.org/), used by independent and institutional libraries throughout the world.

28. OCLC also provides its members online access to MARC records through its OCLC bibliographic database. When an OCLC member institution acquires a work, it creates a MARC record for this work in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress are 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 institution or is tape-loaded from the Library of Congress, the MARC record is then made available to any other OCLC members online, and therefore made available to the public. Accordingly, once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress or another library anywhere in the world, 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

[13] Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf).

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.

29. When an OCLC member institution creates a new MARC record, OCLC automatically supplies the date of creation for that record. The date of creation for the MARC record appears in the fixed Field (008), characters 00 through 05. The MARC record creation date reflects the date on which, or shortly after which, the item was first acquired or cataloged. Initially, Field 005 of the MARC record is automatically populated with the date the MARC record was created in year, month, day format (YYYYMMDD) (some of the newer library catalog systems also include hour, minute, second (HHMMSS)). 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). Field 005 is visible when viewing a MARC record via an appropriate computerized interface, but when a MARC record is printed to hardcopy, no "005" label appears. The initial Field 005 date (*i.e.*, the date the MARC record was created) does appear, however, next to the label "Entered."[14] The date upon which the most recent update to Field 005

[14] Field 005 is visible when viewing a MARC record via an appropriate computerized interface. But when a MARC record is printed directly to hardcopy

occurred also appears, next to the label "Replaced." Thus, when an item's MARC record has been printed to hardcopy—as is the case with the MARC attachments to this Declaration—the date reflected next to the label "Entered" is necessarily on or after the date the library first cataloged and indexed the underlying item.

30. Once one library has cataloged and indexed a publication by creating a MARC record for that publication, other libraries that receive the publication do not create additional MARC records—the other libraries instead rely on the original MARC record. They may update or revise the MARC record to ensure accuracy, but they do not replace or duplicate it. This practice does more than save libraries from duplicating labor. It also enhances the accuracy of MARC records. Further, it allows librarians around the world to know that a particular MARC record is authoritative (in contrast, a hypothetical system wherein duplicative records were created would result in confusion as to which record is authoritative).

31. Catalogers can create MARC records for all types of print, online, and digital resources. The date of creation of the MARC record by a cataloger at an OCLC member institution reflects when the underlying item is accessible to the public. Upwards of two-thirds to three-quarters of book sales and magazine subscriptions to libraries come from a jobber or wholesaler for online and print

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from the OCLC database, the "005" label is not shown. The date in the 005 field instead appears next to the label "Replaced."

resources. These resellers make it their business to provide items to their customers as fast as possible, often providing turnaround times of only a single day after publication. Libraries purchase a significant portion of the balance of their books and journals directly from publishers themselves, which provide delivery on a similarly expedited schedule. In general, libraries make these purchases throughout the year and shelve the newly received items as soon thereafter as possible to make them available to their patrons.

32. In preparing this report, I used authoritative databases, such as the OCLC bibliographic database and the Library of Congress Online Catalog, to confirm citation details of the various publications discussed.

33. *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 a 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. However, date information for indexing entries is often unavailable. This is especially true for online indices.

34. 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.

35. Online indexing services 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 in use by researchers no later than the publication date of the citing document.

36. Before the widespread development of online databases to index articles in journals, magazines, conference papers, and technical reports, libraries purchased printed volumes of indices. Graduate library school education mandated that students learn about the bibliographic control of disciplines, the prominent indexing volumes, and searching strategies required to use them effectively and efficiently. Half of the courses that I studied in library school were focused on the bibliography and resources in academic disciplines.

37. Librarians consulted with information seekers to verify citations, check availability in union catalogs, printed books catalogs, the OCLC database, and make formal requests for materials (e.g., books, conference proceedings, journal articles). Requests were transmitted using Telex machines, rudimentary email systems, and the United States Postal Service. During my career, I have

performed and supervised staff who handled these resource sharing tasks.

38. A major firm known for the breadth of subjects and comprehensive treatment in the preparation of index volumes, the H. W. Wilson Company offered these reference resources since the firm was founded in 1898. The *Reader's Guide to Periodical Literature* is one of the best-known titles available from H. W. Wilson. Each volume includes a comprehensive index for 300 of the most popular and important periodicals published in the United States and Canada. Information seekers have subject access expressed in plain language terminology, author access, and cross references to find the desired results from their searches. The family of index titles included *Science & Technology Index*, *Business Periodicals*, *Applied Science & Technology Index, Humanities Index, Biological & Agricultural Index*, and *Industrial Arts Index*. These printed indices have been superseded by digital database offerings available to information seekers through Ebsco.

39. Online indexing services such as *Google Scholar*[15] or *ScienceDirect*[16] 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.

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[15] https://scholar.google.com/

[16] https://www.sciencedirect.com/

40. A citation of a document by another is evidence that the document was publicly available and in use no later than the publication date of the citing document.

V. DOCUMENT 1: EXHIBIT 1012 ("ZWICKY")

41. Exhibit 1012 is an excerpt from a book titled *Building Internet Firewalls*, 2nd edition, by Elizabeth D. Zwicky, Simon Cooper, and D. Brent Chapman (hereafter "Zwicky") and issued by O'Reilly & Associates with a 2000 copyright date. Exhibit 1012 was provided to me by counsel. Exhibit 1012 is a true and correct copy of the title page, copyright page, table of contents, preface, and Chapter 5, "Firewall Technologies" (pp. 102-121), which I confirmed by comparing with a copy of the same book that I obtained from the Regis University Library (Denver, Colorado). The text in Exhibit 1012 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 1012 is a true and correct copy in a condition that creates no suspicion about its authenticity.

42. Attached hereto as Attachment 1A is a true and correct copy of the MARC record for this monograph from the Regis University Library online catalog. Library ownership is indicated by the presence of the library's code ("COR") in the 049 field. The Zwicky book was received and cataloged on December 15, 2000, as shown in field 998 ("12-15-00"). I personally identified and

retrieved the library catalog record which is Attachment 1A.

43. The International Standard Book Number (ISBN) on Exhibit 1012 (1-56592-871-7) matches the ISBN in field 020 of Attachment 1A. Therefore, Exhibit 1012 is the same book as the one that the cataloger at the Library of Congress used to create a MARC record (Attachment 1B) as part of the Cataloging in Publication (CIP) Program.[17] 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), ISBN (field 022), suggested subject headings (field 650), classification numbers for the Library of Congress classification number (field 050), and the Dewey Decimal classification number (field 082). These data elements are included in the MARC record that the Library of Congress contributes to the OCLC bibliographic database. As can be seen in field 008 ("000407") of the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 43864472 on April 7, 2000. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 1B occurred on July 6, 2010, as shown in the 005 field ("20100706"). I personally identified and

[17] https://www.loc.gov/publish/cip/

retrieved the MARC record that is Attachment 1B.

44. Field 955 of Attachment 1B indicates that the Zwicky book was sent for bibliographic verification and processing in the Collection Care and Binding Division in the Library of Congress on April 26, 2001 ("04-26-01"). Therefore, the book titled *Building Internet Firewalls*, 2nd edition, (Exhibit 1012) was present and cataloged in the Library of Congress as of that date. It would have been able to be located by a person of ordinary skill in the art using the library catalog system and, thus, was publicly accessible as of this date.

45. Attached hereto as Attachment 1C is a true and correct copy of the MARC record for the Zwicky book titled *Building Internet Firewalls*, 2nd edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 1C. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 1C, that library code is "DLC," which means that the MARC record for this book was created 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 43864472 on April 7, 2000 (see ¶ 43 above) as shown in the "Entered" field ("20000407"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 1C occurred on October 23, 2023, as shown in

the "Replaced" field ("20231023"). I personally identified and retrieved the MARC record that is Attachment 1C.

46. Attachment 1C further includes an entry in field 050 ("TK5105.59 $b .Z85 2000")—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 ("005.8"), a subject matter consistent with the Dewey Decimal classification system. Attachment 1C further includes three descriptor terms reading "Firewalls (Computer security)" (see Attachment 1D, Library of Congress subject heading sh00006011), "Computer networks $x Security measures" (see Attachment 1E, Library of Congress subject heading sh94001277), and "Internet $x Security measures" (see Attachment 1F, Library of Congress subject heading sh2008104644) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1C 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 April 7, 2000, the MARC record attached hereto as Attachment 1C 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.

47. Further supporting my opinion that Exhibit 1012 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the book titled *Building Internet Firewalls*, 2nd edition, was registered with the U. S. Copyright Office as item TX0005317051 on December 21, 2000, and indicated a publication date of June 23, 2000 (see Attachment 1G, U. S. Copyright Office Public Catalog). As noted above, this would have provided a POSITA with keyword searching capabilities and other tools to locate this book.

48. Attachment 1C indicates that the Zwicky book cataloged at the Library of Congress is currently available from 325 libraries. In view of above, the Zwicky book titled *Building Internet Firewalls*, 2nd edition, was publicly available at least by April 26, 2001, because by that date it had been received, cataloged and indexed at the Regis University Library and Library of Congress, and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1012 is a true and correct copy of the Zwicky book that was published and accessible to the public at least by April 26, 2001.

VI. DOCUMENT 2: EXHIBIT 1036 ("HAGEL")

49. Exhibit 1036 is a book titled *Net Worth: Shaping Markets When Customers Make the Rules* by John Hagel and Marc Singer (hereafter "Hagel") and

issued by Harvard Business School Press with a 1999 copyright date. Exhibit 1036 was provided to me by counsel. Exhibit 1036 is a true and correct copy of the book, which I confirmed by comparing with a copy of the same book that I obtained from the Regis University Library (Denver, Colorado). The text in Exhibit 1036 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 1036 is a true and correct copy in a condition that creates no suspicion about its authenticity.

50. Attached hereto as Attachment 2A is a true and correct copy of the MARC record for this monograph from the Regis University Library online catalog. Library ownership is indicated by the presence of the library's code ("COR") in the 049 field. The Hagel book was received and cataloged on September 14, 1999, as shown in field 998 ("09-14-99"). I personally identified and retrieved the library catalog record which is Attachment 2A.

51. The International Standard Book Number (ISBN) on Exhibit 1036 (0-87584-889-3) matches the ISBN in field 020 of Attachment 2A. Therefore, Exhibit 1036 is the same book as the one that the cataloger at the Library of Congress used to create a MARC record (Attachment 2B) as part of the Cataloging in Publication (CIP) Program.[18] A cataloger prepares basic information about the

[18] https://www.loc.gov/publish/cip/

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), ISBN (field 022), suggested subject headings (field 650), classification numbers for the Library of Congress classification number (field 050), and the Dewey Decimal classification number (field 082). These data elements are included in the MARC record that the Library of Congress contributes to the OCLC bibliographic database.

52. Field 955 indicates that the Hagel book arrived in the Library of Congress by January 25, 1999 ("01-25-99"). Therefore, the book titled *Net Worth: Shaping Markets When Customers Make the Rules* (Exhibit 1036) was present and cataloged in the Library of Congress as of January 25, 1999. It would have been able to be located by a person of ordinary skill in the art using the library catalog system and, thus, was publicly accessible as of this date.

53. Attached hereto as Attachment 2C is a true and correct copy of the MARC record for the Hagel book titled *Net Worth: Shaping Markets When Customers Make the Rules* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 2C. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2C, that library code is "DLC," which means

that the MARC record for this book was created at the Library of Congress.

54. 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 40193540 on September 24, 1998, as shown in the "Entered" field ("19980924"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 2C occurred on March 28, 2022, as shown in the "Replaced" field ("20220328"). The library continues to update and enhance this MARC record to meet current cataloging rules. I personally identified and retrieved the MARC record that is Attachment 2C.

55. Attachment 2C further includes an entry in field 050 ("HF5415.124 $b .H33 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 ("658.8/00285/478"), a subject matter consistent with the Dewey Decimal classification system. Attachment 2C further includes four descriptor terms reading "Infomediaries" (see Attachment 2D, Library of Congress subject heading sh98006748), "Consumers $x Information services" (see Attachment 2E, Library of Congress subject heading sh98006962), "Privacy, Right of" (see Attachment 2F, Library of Congress subject heading sh85107029), and "Online information

services" (see Attachment 2G, Library of Congress subject heading sh95004892) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 2C 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 September 24, 1998, the MARC record attached hereto as Attachment 2C 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.

56. Further supporting my opinion that Exhibit 1036 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the book titled *Net Worth: Shaping Markets When Customers Make the Rules* was registered with the U. S. Copyright Office as item TX0004956371 on March 25, 1999, and indicated a publication date of March 15, 1999 (see Attachment 2H, U. S. Copyright Office Public Catalog). As noted above, this would have provided a POSITA with keyword searching capabilities and other tools to locate this book.

57. Attachment 2C indicates that the Hagel book cataloged at the Library of Congress is currently available from 689 libraries. In view of above, the Hagel

book titled *Net Worth: Shaping Markets When Customers Make the Rules* was publicly available at least by September 14, 1999, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received in the Regis University Library. For these reasons, it is my opinion that Exhibit 1036 is a true and correct copy of the Hagel book that was published and accessible to the public at least by September 14, 1999.

VII. DOCUMENT 3: EXHIBIT 1035 ("RFC 1631")

58. Exhibit 1035 is a true and accurate copy of the standard document titled *The IP Network Address Translator (NAT),* which was issued as a Request for Comments (RFC) document (hereafter "RFC 1631") and published by the Network Working Group of the Internet Engineering Task Force (IETF). The RFC 1631 document was prepared under the leadership of K. Egevang and P. Francis and bears a May 1994 date (Exhibit 1035, page 1). Each RFC documents was published on the IETF website[19] as discussed below.

59. I understand that the RFC development and publication process is set forth in RFC 2026 (Attachment 3A), which I identify below. RFC 2026 explains that: (i) RFC publications are widely disseminated on the Internet (Attachment 3A (*RFC 2026*) at 4, 6); and (ii) once a standard is adopted, it will be formally

[19] https://ietf.org/

published; (*id*. at 19). RFC 2026 also explains that RFC documents are published on a specific date, which starts a period for others to provide comments on the document (*id.* at 20). Based on my review and understanding, the publication date of each RFC is contained in the RFC, typically in the top right corner of the first page of the document. Each RFC document is uniquely numbered. If it becomes necessary to make a substantive change (e.g., other than a minor typographical error), the RFC will be republished with a different number (*id* at 20).

60. I also understand that once RFCs are published, the IETF does not make changes to any published RFC. Attached hereto as Attachment 3A is the "Publication Process"[20] webpage of the RFC Editor, which publishes RFCs on behalf of the IETF ("RFCs from the IETF," p. 2), indicating that "We DO NOT make changes to RFCs once they have been published…") (p. 4). Thus, it is my understanding that versions of the RFCs identified below that were captured by the Wayback Machine before the alleged November 25, 2008, priority date are substantively the same as versions of the RFCs identified below that I recently downloaded. And, while I have not undertaken a word-by-word comparison of the respective documents, this appears to be the case based on my initial review.

[20] https://www.rfc-editor.org/pubprocess/

61. Also attached hereto as Attachment 3B is a true and correct copy of the MARC record[21] for *Internet documentation (RFC's, FYI's, etc.) and IETF information* issued by the Internet Engineering Task Force from the OCLC bibliographic database. 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 "NBS," which means that the MARC record for this document was cataloged at the National Institute of Standards and Technology Library (Gaithersburg, Maryland). As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the National Institute of Standards and Technology Library created OCLC record number 37343206 on July 23, 1997, as shown in the "Entered" field ("19970723"). The most recent enhancement to Attachment 3B occurred on April 5, 2016, as shown in the "Replaced" field ("20160405"). I personally identified and retrieved the MARC record that is Attachment 3B.

62. The MARC record provided as Attachment 3B indicates that RFCs are serial publications, as I would expect from my review of Exhibit 1035. Attachment 3B further includes an entry in field 050 ("TK5105.875.I57 $b I555")—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the

[21] *See* following section for an explanation of MARC records.

Dewey Decimal classification system). Attachment 3B further includes two subject entries reading "Internet" (see Attachment 3C, Library of Congress subject heading sh92002816) and "TCP/IP (Computer network protocol)" (see Attachment 3D, Library of Congress subject heading sh91005299). 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 two independently sufficient classifications: the field 050 entry and the field 650 entries. Further, as of July 23, 1997, 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 acquired this document, 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.

63. Therefore, it is my opinion that the standard document titled *The IP Network Address Translator (NAT)* was publicly available on or shortly after May 31, 1994, because by that date it had been posted on the IEEE SA website and added to the OCLC bibliographic database as record number 43244871. For these reasons, it is my opinion that Exhibit 1035 was digitally published and accessible to the public on or shortly after May 31, 1994.

VIII. DOCUMENT 4: EXHIBIT 1037 ("ZEFF")

64. Exhibit 1037 is a copy of the book titled *Advertising on the Internet,* 2nd edition, by Robbin Lee Zeff and Brad Aronson (hereafter "Zeff") and issued by Wiley with a 1999 copyright date. Exhibit 1037 was provided to me by counsel. Exhibit 1037 is a true and correct copy of the title page, copyright page, table of contents, acknowledgements, 14 chapters, "How to Advertise for Free or Almost Free" by Eric Ward, an appendix, and glossary which I confirmed by comparing with a copy of the same book that I obtained from the Morgan Library at Colorado State University (Greeley, Colorado). The text in Exhibit 1037 is complete; no pages with text or illustrations 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 1037 is a true and correct copy in a condition that creates no suspicion about its authenticity.

65. Attached hereto as Attachment 4A is a true and correct copy of the MARC record for this monograph from the Morgan Library at Colorado State University online catalog. Library ownership is indicated by the presence of the library's code ("COF") in the 049 field. The Zeff book was received and cataloged on April 18, 2001, as shown in field 998 ("04-18-01"). The library continues to update this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on May 21, 2018, as shown in the 005

field ("20180521"). I personally identified and retrieved the library catalog record which is Attachment 4A.

66. The International Standard Book Number (ISBN) on Exhibit 1037 (0-471-18330-X) matches the ISBN in field 020 of Attachment 4A. Therefore, Exhibit 1037 is the same book as the one that the cataloger at the Library of Congress used to create a MARC record (Attachment 4B) as part of the Cataloging in Publication (CIP) Program.[22] 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), ISBN (field 020), suggested subject headings (field 650), classification numbers for the Library of Congress classification number (field 050), and the Dewey Decimal classification number (field 082). These data elements are included in the MARC record that the Library of Congress contributes to the OCLC bibliographic database. 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 40848669 on February 17, 1999, as shown in the 008 field ("990217"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to

[22] https://www.loc.gov/publish/cip/

Attachment 4B occurred on June 22, 2004, as shown in the 005 field ("20040622"). I personally identified and retrieved the MARC record that is Attachment 4B.

67. Field 955 indicates that the Zeff book arrived in the Library of Congress by August 30, 1999 ("08-30-99"). Therefore, the book titled *Advertising on the Internet,* 2nd edition, (Exhibit 1037) was present and cataloged in the Library of Congress as of August 30, 1999. It would have been able to be located by a person of ordinary skill in the art using the library catalog system and, thus, was publicly accessible as of this date.

68. Attached hereto as Attachment 4C is a true and correct copy of the MARC record for the Zeff book titled *Advertising on the Internet,* 2nd edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 4C. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4C, that library code is "DLC," which means that the MARC record for this book was created 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 40848669 on February 17, 1999 (see ¶ 66 above) as shown in the "Entered" field ("19990217"). The library community continues to update and enhance this MARC record to meet current cataloging

rules. The most recent enhancement to Attachment 4C occurred on February 21, 2024, as shown in the "Replaced" field ("20240221"). I personally identified and retrieved the MARC record that is Attachment 4C.

69. Attachment 4C further includes an entry in field 050 ("HF6146.I58 $b Z43 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 ("658.8/00285/4678"), a subject matter consistent with the Dewey Decimal classification system. Attachment 4C further includes four descriptor terms reading "Internet advertising" (see Attachment 4D, Library of Congress subject heading sh94006992), "Internet advertising $x Directories" (see Attachment 4D, Library of Congress subject heading sh94006992 and Attachment 4E, Library of Congress subject heading sh85038267), "Internet advertising $x Computer network resources" (see Attachment 4D, Library of Congress subject heading sh94006992 and Attachment 4F, Library of Congress subject heading sh95000713), and "Internet advertising $x Rates" (see Attachment 4D, Library of Congress subject heading sh94006992 and Attachment 4G, Library of Congress subject heading sh87005259) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4C 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 February 17, 1999, the MARC record attached hereto as Attachment 4C 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.

70. Attachment 4C indicates that the Zeff book cataloged at the Library of Congress is currently available from 394 libraries. In view of above, the Zeff book titled *Advertising on the Internet,* 2nd edition, was publicly available at least by August 30, 1999, 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 1037 is a true and correct copy of the Zeff book that was published and accessible to the public at least by August 30, 1999.

IX. DOCUMENT 5: EXHIBIT 1039 ("RFC 793")

71. Exhibit 1039 is a true and accurate copy of the standard document titled *Transmission Control Protocol,* which was issued as a Request for Comments (RFC) document (hereafter "RFC 793") and published by the Network Working Group of the Internet Engineering Task Force (IETF). The RFC 793

document was prepared under the leadership of the Information Sciences Institute at the University of Southern California (Marina del Rey, California) and bears a September 1981 date (Exhibit 1039, page 1). RFC 793 was prepared for the Information Processing Techniques Office of the Defense Advanced Research Projects Agency (DARPA). Each RFC documents was published on the IETF website[23] as discussed below.

72. I understand that the RFC development and publication process is set forth in RFC 2026 (Attachment 3A), which I identify below. RFC 2026 explains that: (i) RFC publications are widely disseminated on the Internet (Attachment 3A (*RFC 2026*) at 4, 6); and (ii) once a standard is adopted, it will be formally published; (*id*. at 19). RFC 2026 also explains that RFC documents are published on a specific date, which starts a period for others to provide comments on the document (*id.* at 20). Based on my review and understanding, the publication date of each RFC is contained in the RFC, typically in the top right corner of the first page of the document. Each RFC document is uniquely numbered. If it becomes necessary to make a substantive change (e.g., other than a minor typographical error), the RFC will be republished with a different number (*id* at 20).

73. I also understand that once RFCs are published, the IETF does not make changes to any published RFC. Attached hereto as Attachment 3A is the

[23] https://ietf.org/

"Publication Process"[24] webpage of the RFC Editor, which publishes RFCs on behalf of the IETF ("RFCs from the IETF," p. 2), indicating that "We DO NOT make changes to RFCs once they have been published…") (p. 4). Thus, it is my understanding that versions of the RFCs identified below that were captured by the Wayback Machine before the alleged November 25, 2008, priority date are substantively the same as versions of the RFCs identified below that I recently downloaded. And, while I have not undertaken a word-by-word comparison of the respective documents, this appears to be the case based on my initial review.

74. Also attached hereto as Attachment 3B is a true and correct copy of the MARC record[25] for *Internet documentation (RFC's, FYI's, etc.) and IETF information* issued by the Internet Engineering Task Force from the OCLC bibliographic database. 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 "NBS," which means that the MARC record for this document was cataloged at the National Institute of Standards and Technology Library (Gaithersburg, Maryland). As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the National Institute of Standards and Technology Library created OCLC record number 37343206 on July 23, 1997, as

[24] https://www.rfc-editor.org/pubprocess/

[25] *See* following section for an explanation of MARC records.

shown in the "Entered" field ("19970723"). The most recent enhancement to Attachment 3B occurred on April 5, 2016, as shown in the "Replaced" field ("20160405"). I personally identified and retrieved the MARC record that is Attachment 3B.

75. The MARC record provided as Attachment 3B indicates that RFCs are serial publications, as I would expect from my review of Exhibit 1039. Attachment 3B further includes an entry in field 050 ("TK5105.875.I57 $b I555")—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). Attachment 3B further includes two subject entries reading "Internet" (see Attachment 3C, Library of Congress subject heading sh92002816) and "TCP/IP (Computer network protocol)" (see Attachment 3D, Library of Congress subject heading sh91005299). 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 two independently sufficient classifications: the field 050 entry and the field 650 entries. Further, as of July 23, 1997, 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 acquired this document, 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.

76. Therefore, it is my opinion that the standard document titled *Transmission Control Protocol* was publicly available on or shortly after September 30, 1981, because by that date it had been posted on the IEEE SA website and added to the OCLC bibliographic database as record number 43244871. For these reasons, it is my opinion that Exhibit 1039 was digitally published and accessible to the public on or shortly after September 30, 1981.

X. DOCUMENT 6: EXHIBIT 1052 ("RFC 2663")

77. Exhibit 1052 is a true and accurate copy of the standard document titled *IP Network Address Translator (NAT) Terminology and Considerations,* which was issued as a Request for Comments (RFC) document (hereafter "RFC 2663") and published by the Network Working Group of the Internet Engineering Task Force (IETF). The RFC 2663 document was prepared under the leadership of R. Srisuresh and M. Holdrege and bears an August 1999 date (Exhibit 1052, page 1). Each RFC documents was published on the IETF website[26] as discussed below.

78. I understand that the RFC development and publication process is set forth in RFC 2026 (Attachment 3A), which I identify below. RFC 2026 explains that: (i) RFC publications are widely disseminated on the Internet (Attachment 3A

[26] https://ietf.org/

(*RFC 2026*) at 4, 6); and (ii) once a standard is adopted, it will be formally published; (*id*. at 19). RFC 2026 also explains that RFC documents are published on a specific date, which starts a period for others to provide comments on the document (*id.* at 20). Based on my review and understanding, the publication date of each RFC is contained in the RFC, typically in the top right corner of the first page of the document. Each RFC document is uniquely numbered. If it becomes necessary to make a substantive change (e.g., other than a minor typographical error), the RFC will be republished with a different number (*id* at 20).

79. I also understand that once RFCs are published, the IETF does not make changes to any published RFC. Attached hereto as Attachment 3A is the "Publication Process"[27] webpage of the RFC Editor, which publishes RFCs on behalf of the IETF ("RFCs from the IETF," p. 2), indicating that "We DO NOT make changes to RFCs once they have been published….") (p. 4). Thus, it is my understanding that versions of the RFCs identified below that were captured by the Wayback Machine before the alleged November 25, 2008, priority date are substantively the same as versions of the RFCs identified below that I recently downloaded. And, while I have not undertaken a word-by-word comparison of the respective documents, this appears to be the case based on my initial review.

[27] https://www.rfc-editor.org/pubprocess/

80. Also attached hereto as Attachment 3B is a true and correct copy of the MARC record[28] for *Internet documentation (RFC's, FYI's, etc.) and IETF information* issued by the Internet Engineering Task Force from the OCLC bibliographic database. 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 "NBS," which means that the MARC record for this document was cataloged at the National Institute of Standards and Technology Library (Gaithersburg, Maryland). As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the National Institute of Standards and Technology Library created OCLC record number 37343206 on July 23, 1997, as shown in the "Entered" field ("19970723"). The most recent enhancement to Attachment 3B occurred on April 5, 2016, as shown in the "Replaced" field ("20160405"). I personally identified and retrieved the MARC record that is Attachment 3B.

81. The MARC record provided as Attachment 3B indicates that RFCs are serial publications, as I would expect from my review of Exhibit 1052. Attachment 3B further includes an entry in field 050 ("TK5105.875.I57 $b I555")—as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the

[28] *See* following section for an explanation of MARC records.

Dewey Decimal classification system). Attachment 3B further includes two subject entries reading "Internet" (see Attachment 3C, Library of Congress subject heading sh92002816) and "TCP/IP (Computer network protocol)" (see Attachment 3D, Library of Congress subject heading sh91005299). 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 two independently sufficient classifications: the field 050 entry and the field 650 entries. Further, as of July 23, 1997, the MARC record attached hereto as Attachment 5B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that acquired this document, 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.

82. Therefore, it is my opinion that the standard document titled *IP Network Address Translator (NAT) Terminology and Considerations* was publicly available on or shortly after August 31, 1999, because by that date it had been posted on the IEEE SA website and added to the OCLC bibliographic database as record number 43244871. For these reasons, it is my opinion that Exhibit 1052 was digitally published and accessible to the public on or shortly after August 31, 1999.

XI. DOCUMENT 7: EXHIBIT 1053 ("IEEE 802.11-1999")

83. Exhibit 1053 is a true and accurate copy of the document titled *IEEE 802.11 Standard 1999, Part 11. Information technology -- Telecommunications and Information Exchange Between Systems -- Local and Metropolitan Area Networks -- Specific Requirements -- Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications* (hereafter called the "IEEE 802.11-1999") developed by the LAN/MAN Standards Committee and sold by the Institute of Electrical and Electronics Engineers (IEEE) with an approval date of November 30, 1998[29] and a publication date of August 20, 1999. Document 802.11-1999 was adopted as ISO/IEC and redesignated as ISO/IEC 8802.11:1999 (E), as shown on the cover of Exhibit 1053. I downloaded this document from the Internet.[30] The text of the IEEE 802.11-1999 document is complete; no pages are missing; and, further, there are no visible alterations to the document. It is my opinion that the appearance, contents, substance, and distinctive characteristics of

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[29] https://www.techstreet.com/ieee/standards/ieee-802-11-1999?product_id=101567

[30] https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwiercCY8-KDAxXsOTQIHbXQCjgQFnoECBEQAQ&url=https%3A%2F%2Fwww.wardriving.ch%2Fhpneu%2Finfo%2Fdoku%2F802.11-1999.pdf&usg=AOvVaw389wKH5pCM7X1tfTWz3CJm&opi=89978449

Exhibit 1053 create no suspicion about its authenticity. As such, it is my opinion that Exhibit 1053 is authentic.

84. I understand that prior to April 17, 2007, the IEEE Standards Association (IEEE SA) would have been known to persons at least of ordinary skill in the art as a leading consensus building organization that nurtures, develops, and advances global technologies.[31] Furthermore, I understand that persons of ordinary skill in the art would have reasonably considered this organization and its website – https://standards.ieee.org/ – as reliable and useful sources of information that bring together a broad range of more than 34,000 individuals and organizations from a wide range of technical and geographic points of origin to facilitate the development of more than 2,100 standards and projects in more than 175 countries. I understand that the IEEE 802.11-1999 document is a reliable authority for research, study, and development of global standards.

85. The IEEE Standards Association provided the IEEE 802.11-1999 document on its website on or shortly after its adoption of November 30, 1998. Given that the IEEE SA website was accessible to the public prior to April 17, 2007, I understand that persons interested and ordinarily skilled in the subject matter or art exercising reasonable diligence could have located the IEEE 802.11-

[31] https://standards.ieee.org/about/

1999 document from IEEE SA using the common search terms discussed above and/or reasonable diligence.

86. The IEEE SA website indicates that IEEE 802.11-1999 superseded an edition dated November 18, 1997.[32] IEEE 802.11-1999 has been superseded three times on June 12, 2007, March 29, 2012, and December 14, 2016.[33] The current standard is IEEE 802.11-2020 and was published on February 26, 2021.[34] The IEEE SA continues to develop and approve Amendments to the current standard.

87. Furthermore, the IEEE 802.11-1999 document is dated December 28, 2012, has a footer reading "Copyright © 1999 IEEE. All rights reserved." and includes a copyright date on page 3 indicating "© 1999." I understand that persons of at least ordinary skill in the art researching documents would rely on these dates as indications of when this document was published.

88. Attachment 7A indicates that the digital book titled *IEEE 802.11 Standard 1999, Part 11. Information technology -- Telecommunications and Information Exchange Between Systems -- Local and Metropolitan Area Networks -- Specific Requirements -- Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications* was publicly available on or shortly after

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[32] https://www.techstreet.com/ieee/standards/ieee-802-11-1997?product_id=36494

[33] https://www.techstreet.com/ieee/standards/ieee-802-11-2020?product_id=2009234

[34] *Ibid.*

November 29, 1999, because by that date it had been posted on the IEEE SA website and added to the OCLC bibliographic database as record number 43244871. For these reasons, it is my opinion that Exhibit 1053 was digitally published and accessible to the public on or shortly after November 29, 1999.

XII. DOCUMENT 8: EXHIBIT 1054 ("HAHN")

89. Exhibit 1054 is excerpts from the book, *The Internet Complete Reference*, 2nd edition, by Harley Hahn (hereafter "Hahn") and issued by Osborne McGraw-Hill in 1996. Exhibit 1054 is a true and correct copy of the front cover, title page, copyright page, contents at a glance, table of contents, list of figures, acknowledgments, Chapter 10, "Using the Web" (pages 173-199), Chapter 25, "Talk Facilities" (pages 489-504), and back cover as held by the Library of Congress. I was provided Exhibit 1054 from counsel for the Petitioner who obtained it from the Library of Congress. The text of the excerpted text in Exhibit 1054 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 1054 is a true and correct copy in a condition that creates no suspicion about its authenticity.

90. Attached hereto as Attachment 8A is a true and correct copy of the MARC record for this monograph from the Library of Congress online catalog. Library ownership is indicated by the presence of the library's name at the top of

each page. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on March 10, 2005, as shown in field 008 ("20050310"). I personally identified and retrieved the library catalog record which is Attachment 8A.

91. Based on finding a print copy of the Hahn book in the Library of Congress and MARC record in its online library catalog attached as Attachment 8A, it is my opinion that the book *The Internet Complete Reference*, 2nd edition, was publicly available on or shortly after May 20, 1996, as shown in field 955 ("05-20-96"). The International Standard Book Number (ISBN) on Exhibit 1054 (0-07-882138-X) matches the ISBN in field 020 of Attachment 8A. Therefore, Exhibit 1054 is the same book as the one that the cataloger at the Library of Congress used to create the MARC record that is Attachment 8A. Exhibit 1054 was initially deposited in the U.S. Copyright Office on March 28, 1996 (see ¶96).

92. Attached hereto as Attachment 8B is a true and correct copy of the MARC record for the book *The Internet Complete Reference*, 2nd edition, obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 8B. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 8B, 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.[35] 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 34906376 on May 14, 1996, as shown in the "Entered" field ("19960514"). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to Attachment 8B occurred on January 6, 2022, as shown in the "Replaced" field ("20220106"). I personally identified and retrieved the MARC record that is Attachment 8B.

93. Attachment 8B further includes an entry in field 050 ("TK5105.875.I57 $b H34 1996")—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). Attachment 8B further includes an entry in field 082 ("004.6/7"), a subject matter consistent with the Dewey Decimal classification system. Attachment 8B further includes a descriptor term reading "Internet $v Handbooks, manuals, etc." (see Attachment 8C, Library of Congress subject heading sh2008104855) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 8B was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082

[35] https://www.loc.gov/publish/cip/

entry, and the field 650 entry. Further, as of May 14, 1996, the MARC record attached hereto as Attachment 8B 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.

94. Attachment 8B indicates that the Hahn book as cataloged at the Library of Congress is currently available from 323 libraries. In view of above, the Hahn monograph was publicly available on or shortly after May 20, 1996, 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 1054 was published and accessible to the public on or shortly after May 20, 1996.

95. Further supporting my opinion that Exhibit 1054 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the book *The Internet Complete Reference*, 2nd edition, was registered with the U. S. Copyright Office as item TX0004355589 on March 28, 1996, and indicated a publication date of January 16, 1996 (see Attachment 8D, U. S. Copyright Office Public Catalog). As noted above, this would have provided a person of ordinary skill in the art with keyword searching capabilities and other tools to locate this

book.

XIII. SUMMARY OF OPINIONS

96. In view of the foregoing, it is my opinion that the publication described above was publicly available no later than the corresponding date listed in the table below:

Exhibit	Publication	Publicly Available
1012	Zwicky, Elizabeth D., Simon Cooper, and D. Brent Chapman. *Building Internet Firewalls.* 2nd ed. Sebastopol, CA: O'Reilly Media, c2000.	at least by April 26, 2001
1036	Hagel, John, and Marc Singer. *Net Worth: Shaping Markets When Customers Make the Rules*. Boston, MA: Harvard Business School Press, c1999.	At least by September 14, 1999
1035	Internet Engineering Task Force. Network Working Group. *The IP Network Address Translator (NAT)*. RFC 1631. May 1994. Wilmington, DE: IETF, 1994.	At least by May 31, 1994
1037	Zeff, Robbin, and Brad Aronson. *Advertising on the Internet*. 2nd ed. New York: Wiley, c1999.	At least by August 30, 1999
1039	University of Southern California, Information Sciences Institute. *Transmission Control Protocol.* RFC 793. DARPA Internet Program, Protocol Specification, September 1981. Los Angeles, CA: University of California, 1981.	At least by September 30, 1981
1052	Internet Engineering Task Force. Network Working Group. *IP Network Address Translator (NAT) Terminology and Considerations*. RFC 2663. August 1999. Wilmington, DE: ITEF, 1999.	At least by August 31, 1999
1053	IEEE Computer Society, LAN MAN Standards Committee. *IEEE 802.11 Standard 1999, Part 11. Information Technology -- Telecommunications and Information Exchange Between Systems -- Local and Metropolitan Area Networks -- Specific Requirements -- Part 11:*	At least by November 28, 1999

Exhibit	Publication	Publicly Available
	Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications. New York: Institute of Electrical and Electronics Engineers, 1999.	
1054	Hahn, Harley. *The Internet Complete Reference*. 2nd ed. Berkeley, CA: Osborne McGraw-Hill, ©1996.	At least by May 20, 1996

97. 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.

98. 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: February 28, 2024 By: Sylvia D. Hall-Ellis

Sylvia D. Hall-Ellis, Ph.D.

Appendix A

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)

Hall-Ellis, Sylvia D., and Mary Beth Weber. *Contemporary Cataloging in an RDA Environment: A Handbook for Students and Practitioners.* Chicago, IL: American Library Association. Under contract & In development.

RDA Testing: Lessons Learned and Challenges Revealed. Sylvia D. Hall-Ellis and Robert O. Ellett, Jr., eds. Binghamton, N.Y.: Haworth, 2012. 128 p.

Hall-Ellis, Sylvia D., Stacey L. Bowers, Christopher D. Hudson, and M. Claire Williamson. *Librarian's Handbook for Seeking, Writing, and Managing Grants.* Santa Barbara, Calif.: Libraries Unlimited, 2011. 315 p.

Hall-Ellis, Sylvia D., with Ann Jerabek, and Merrie W. Valliant. *Contemporary Cataloging: A Handbook for Practitioners and Students.* Open access text. Athens, GA: University of Georgia System Regents, 2011. 767 p.

Grealy, Deborah S. and Sylvia D. Hall-Ellis. *From Research to Practice: The Scholarship of Teaching and Learning in LIS Education.* Westport, Conn.: Libraries Unlimited, 2009. 175 p.

Hall-Ellis, Sylvia D. with J. Ann Jerabek. *Grants for School Libraries.* Westport, Conn.: Libraries Unlimited, 2003. 197 p.

Hall-Ellis, Sylvia D., Doris Meyer, Frank W. Hoffmann, with J. Ann Jerabek. *Grant Writing for Small Libraries and School Library Media Centers.* Boulder, Colo.: NetLibrary, 2001. 173 p.

Hall-Ellis, Sylvia D., Doris Meyer, Frank W. Hoffmann, with J. Ann Jerabek. *Grant Writing for Small Libraries and School Library Media Centers.* Englewood, Colo: Libraries Unlimited, 2000. 173 p.

Editor-reviewed Chapters (Completed and In Progress)

Hall-Ellis, Sylvia D. "Prepared to Lead: Talent, Skills, and Competencies." In *Telling the Technical Services Story*. Chicago, IL: American Library Association, 2020. Program Presentation for Re-Accreditation by the American Library Association, School of Information, San Jose State University, 2022.

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Hall-Ellis, Sylvia D., ed. "Standard VII: Information Resources." In the *Sturm College of Law Self-Study Presentation for Accreditation by the American Bar Association.* Denver, Colo.: University of Denver, Sturm College of Law, 2011. 20 p.

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Hall-Ellis, Sylvia D., ed. "Standard III: The Faculty." In the *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, Morgridge College of Education, 2010. 22 p.

Hall-Ellis, Sylvia D. "Library and Information Science Programs and Education for Catalogers and Metadata Specialists: Challenges for the Twenty-first Century." In *Conversations with Catalogers in the Twenty-First Century.* Elaine R. Sanchez, ed. Santa Barbara, Calif.: ABC-Clio, 2010. (pp. 226-254)

Hall-Ellis, Sylvia D., ed. "Standard III: The Faculty." In the *Library and Information Science Program Self-Study Document for Accreditation by the American Library Association.* Denver, Colo.: University of Denver, College of Education, 2003. 15 p.

Lesesne, Teri S. and Sylvia D. Hall-Ellis. "The Selection, Evaluation, and Integration of Culturally Authentic Texts: A Case for Making the Online Catalog Reflect Parallel Cultures." In *Literacy: Traditional, Cultural, Technological.* Pittsburgh, Pa.: International Association of School Librarianship, 1995. (pp. 110-113)

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Hall-Ellis, Sylvia D. "Curriculum Folio for School Library Media Specialist Programs." In the *National Council for Accreditation of Teacher Education Self-Study for Sam Houston State University.* Huntsville, Tex.: Sam Houston State University, College of Education and Applied Science, 1994. 25 p.

Bruntjen, Scott and Sylvia D. Hall. "Attempting to Automate: Lessons Learned Over Five Years." In *Advances in Library Administration*. Volume 4. Weston, Conn.: JAI Press, 1985. (pp. 177-192)

Peer-Reviewed Journal Articles (Completed and In Progress)

Hall-Ellis-Sylvia D. "Job Design for Cataloging and Metadata Librarians." Submitted to *Journal of Library Administration.* In progress.

Hall-Ellis, Sylvia D. "The Relationship of Situational Leadership and the Dreyfus Model of Skill Acquisition for Supervisors in Cataloging and Metadata Services." To be submitted to *Library Resources and Technical Services.* In progress.

Hall-Ellis, Sylvia D. *The Relationship of Core Competencies on Learning Outcomes and Employers' Expectations for Catalog Librarians and Metadata Specialists.* To be submitted to the *Journal of Education for Library and Information Science.* In progress.

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Ellis, Sylvia D. "Succession Planning and Staff Development – A Winning Combination." *The Bottom Line*, 28 no. 3 (May 2015): 95-98.

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Hall-Ellis, Sylvia D. "Investment in Staff Development for Seeking External Grant Funds." *The Bottom Line 27*, no. 1 (January 2014): 22-25.

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Hall-Ellis, Sylvia D. and Mary Ann Berry. "The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas: Preliminary Findings." *Texas Library Journal* 71, no. 2 (Summer 1995): 94-97.

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Hall-Ellis, Sylvia D. *Preparing Catalogers and Metadata Specialists Through Competency-Based Education: The San José State University iSchool Experience.* Report for the 2021 Re-Accreditation Program Presentation to the American Library Association. San José, Calif.: San José State University iSchool, 2020.

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Faculty Voices: Testimonials from the Frontiers of a Development Education Redesign. Elaine DeLott Baker, Marilyn Smith, and Sylvia D. Hall-Ellis, eds. Denver, Colo.: Colorado Community College System, 2014.

Lewis, Melanie, Jamie M. Van Leeuwen, and Sylvia D. Hall-Ellis. *Project Homeless Connect 7 Event Evaluation.* Denver, Colo.: University of Colorado Denver, 2009.

Hall-Ellis, Sylvia D. *Grant Writing Tips and Resources.* Denver, Colo.: University of Denver, 2008-2014. http://portfolio.du.edu/grants

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Hall-Ellis, Sylvia D. and Mary Ann Berry. *The Impact of Library Resource Centers on Academic Achievement in Selected Public Schools in South Texas.* Huntsville, Tex.: Sam Houston State University, College of Education and Applied Science, 1993. Funded through a grant award from the Sam Houston State University Research Enhancement Fund.

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Hall-Ellis, Sylvia D. and Clarence L. Coffindaffer. *Partners in Progress: The 1992 Montana Library Federation Study Final Report*. Helena, Mont: Montana State Library and The Blue Bear Group, Inc., 1992.

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Bruntjen, Scott and Sylvia D. Hall. *Recommendations on the Development of System-Wide Efforts of the Northern Waters Library Service.* Ashland, Wisc.: Northern Waters Library Service and The Blue Bear Group, Inc., 1989.

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Hall, Sylvia D. *Iowa Computer-Assisted Network (ICAN Users' Manual. Apple MacIntosh Edition: Version 5.0.* Des Moines, Ia.: State Library of Iowa, 1986.

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Bruntjen, Scott and Sylvia D. Hall. *Discovering Resource Sharing Treasures: Accessing Pennsylvania's High School Library Collections*. Harrisburg, Pa.: State Library of Pennsylvania, Bureau of School Library Media Resources, 1985.

Hall, Sylvia D. *Retrospective Conversion and the Completeness of Cataloging in Pennsylvania High School Libraries.* Pittsburgh, Pa.: PRLC, Inc., 1985.

Bruntjen, Scott and Sylvia D. Hall. *The Iowa Locator.* Des Moines, Ia.: State Library of Iowa, 1985- http://www.statelibraryofiowa.org/ld/silo/locator

Bruntjen, Scott and Sylvia D. Hall. *ICAN Analysis*. Des Moines, Ia.: State Library of Iowa, 1985.

Bruntjen, Scott and Sylvia D. Hall. *Zebras: Bar Codes, Standards, and Library Automation.* Central City, Colo.: The Blue Bear Group, Inc., 1985.

Hall, Sylvia D. and Scott Bruntjen. *Access Pennsylvania.* Harrisburg, Pa.: State Library of Pennsylvania, 1984- http://www.accesspa.org

Hall, Sylvia D. *Reconfiguration of the ITAC Cataloging Data Base to Machine Readable (MARC) Format*. Classified Document. Arlington, Va.: U. S. Army Intelligence and Threat Analysis Center, 1984.

Bruntjen, Scott and Sylvia D. Hall. *South Dakota Library Automation Plan: Final Report*. Pittsburgh, Pa.: PRLC, Inc., 1982. Reprinted by the South Dakota State Library, 1983.

Bruntjen, Scott and Sylvia D. Hall. *Altoona Automation Plan: Final Report prepared for the Altoona Area Public Library and the Altoona District Library Center*. Pittsburgh, Pa.: PRLC, 1983.

Bruntjen, Scott, Sylvia D. Hall and Paul J. Pugliese. *College Space Utilization Study*. Pittsburgh, Pa.: PRLC, Inc., 1983.

Hall, Sylvia D. *Pennsylvania Public Library Film Center Union Catalog Cataloging and Technical Services Procedures Manual*. Pittsburgh, Pa.: PRLC, Inc., 1982.

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 Èxito: 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-
  - Margaret Mann Citation Committee, Member, 2023-
- 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
  - Nominating Committee, 2022-2023
  - Membership Committee, 2019-2021
  - Board of Directors, Member At-Large, 2009-2012

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) Colorado Association of Law Librarians (CoALL)

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.

Hall-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/

Hall-Ellis, Sylvia D. *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.

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.

Hall-Ellis, Sylvia D. *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.

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. 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.

Hall-Ellis, Sylvia D. *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, 2023, 2024; Fall 2020, 2021, 2022, 2023, 2024)
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, University College

Grant Writing Certificate Seminar for Non-Profit Organizations (Fall 2020, 2021; Spring 2021)

University of Denver, Morgridge College of Education HED

5991 – Grant Writing in Higher Education (Spring 2011)
LIS 4010 – Organization of Information (Fall 2002-2009; Winter 2005; Spring 2004-2006)
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 2002-2009; Summer 2005, 2006 – course renumbered LIS 4070, September 2007)
LIS 4401 – Descriptive Cataloging (Winter 2001; Spring 2002, 2003, 2006-2009; Summer 2005)
LIS 4402 – Subject Cataloging (Spring 2001, 2009; Summer 2005, 2006, 2007, 2008)
LIS 4403 – Classification Schemes (Fall 2007, 2008, 2009 (DS)) LIS
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 2006-2009)
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)
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, 2001-2003
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.
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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.
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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.
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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.
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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.
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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.
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Southern Tier Library System (Corning, NY). OCLC Acquisitions Subsystem Evaluation, 1981. Principal Investigator.
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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.
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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.

Updated February 2024

Attachment 1A

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245 10 Building Internet firewalls /|cElizabeth D. Zwicky, Simon
       Cooper & D. Brent Chapman.
250    2nd ed.
260    Beijing ;|aCambridge [Mass.] :|bO'Reilly,|cc2000.
300    xxi, 869 p. :|bill. ;|c24 cm
500    Includes index.
500    "Covers Unix, Windows NT, and Linux"--Cover.
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650  0 Internet|xSecurity measures.
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Attachment 1B

LIBRARY | CATALOG

Search Navigation 1 of 3

BOOK

Building Internet Firewalls : Internet and Web security

Full Record **MARC Tags**

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082	00	|**a** 005.8 |**2** 21
100	1_	|**a** Zwicky, Elizabeth D.
245	10	|**a** Building Internet Firewalls : |**b** Internet and Web security / |**c** Elizabeth D. Zwicky, Simon Cooper & D. Brent Chapman.
250	__	|**a** 2nd ed.
260	__	|**a** Beijing ; |**a** Cambridge, Mass. : |**b** O'Reilly, |**c** c2000.
300	__	|**a** xxi, 869 p. : |**b** ill. ; |**c** 24 cm.
500	__	|**a** "Covers Unix, Windows NT, and Linux"--Cover.
500	__	|**a** Chapman's name appears first on the earlier ed.

500	__	|**a** Includes index.
650	_0	|**a** Firewalls (Computer security)
650	_0	|**a** Computer networks |**x** Security measures.
650	_0	|**a** Internet |**x** Security measures.
700	1_	|**a** Cooper, Simon.
700	1_	|**a** Chapman, D. Brent.
856	42	|**3** Publisher description |**u** http://www.loc.gov/catdir/enhancements/fy0715/00039954-d.html
856	42	|**3** Contributor biographical information |**u** http://www.loc.gov/catdir/enhancements/fy0912/00039954-b.html
856	41	|**3** Table of contents only |**u** http://www.loc.gov/catdir/enhancements/fy1008/00039954-t.html

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090 $b
100 1 Zwicky, Elizabeth D.
245 10 Building Internet Firewalls : $b Internet and Web security / $c Elizabeth D. Zwicky, Simon Cooper & D. Brent Chapman.
250 2nd ed.
260 Beijing ; $a Cambridge, Mass. : $b O'Reilly, $c ©2000.
300 xxi, 869 pages : $b illustrations ; $c 24 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 "Covers Unix, Windows NT, and Linux"--Cover
500 Chapman's name appears first on the earlier ed.
500 Includes index.
505 0 Part I. Network security -- 1. Why Internet firewalls? -- 2. Internet services -- 3. Security strategies -- Part II. Building firewalls -- 4. Packets and protocols -- 5. Firewall technologies -- 6. Firewall architectures -- 7. Firewall design -- 8. Packet filtering -- 9. Proxy systems -- 10. Bastion hosts -- 11. Unix and Linux Bastion hosts -- 12. Windows NT and Windows 2000 Bastion hosts -- Part III. Internet services -- 13. Internet services and firewalls -- 14. Intermediary protocols -- 15. The World Wide Web -- 16. Electronic mail and news -- 17. File transfer, file sharing, and printing -- 18. Remote access to hosts -- 19. Real-time conferencing services -- 20. Naming and directory services -- 21. Authentication and auditing services -- 22. Administrative services -- 23. Databases and games -- 24. Two sample firewalls -- Part IV. Keeping your site secure -- 25. Security policies -- 26. Maintaining firewalls -- 27. Responding to security incidents -- Part V. Appendixes -- A. Resources -- B. Tools -- C. Cryptography -- Index.
520 In the five years since the first edition of this classic book was published, Internet use has exploded. The commercial world has rushed headlong into doing business on the Web, often without integrating sound security technologies and policies into their products and methods. The security risks--and the need to protect both business and personal data--have never been greater. We've updated Building Internet Firewalls to address these newer risks. What kinds of security threats does the Internet

pose? Some, like password attacks and the exploiting of known security holes, have been around since the early days of networking. And others, like the distributed denial of service attacks that crippled Yahoo, E-Bay, and other major e-commerce sites in early 2000, are in current headlines. Firewalls, critical components of today's computer networks, effectively protect a system from most Internet security threats. They keep damage on one part of the network--such as eavesdropping, a worm program, or file damage--from spreading to the rest of the network. Without firewalls, network security problems can rage out of control, dragging more and more systems down. Like the bestselling and highly respected first edition, Building Internet Firewalls, 2nd Edition, is a practical and detailed step-by-step guide to designing and installing firewalls and configuring Internet services to work with a firewall. Much expanded to include Linux and Windows coverage, the second edition describes: Firewall technologies: packet filtering, proxying, network address translation, virtual private networks Architectures such as screening routers, dual-homed hosts, screened hosts, screened subnets, perimeter networks, internal firewalls Issues involved in a variety of new Internet services and protocols through a firewall Email and News Web services and scripting languages (e.g., HTTP, Java, JavaScript, ActiveX, RealAudio, RealVideo) File transfer and sharing services such as NFS, Samba Remote access services such as Telnet, the BSD "r" commands, SSH, BackOrifice 2000 Real-time conferencing services such as ICQ and talk Naming and directory services (e.g., DNS, NetBT, the Windows Browser) Authentication and auditing services (e.g., PAM, Kerberos, RADIUS); Administrative services (e.g., syslog, SNMP, SMS, RIP and other routing protocols, and ping and other network diagnostics) Intermediary protocols (e.g., RPC, SMB, CORBA, IIOP) Database protocols (e.g ...
650 0 Firewalls (Computer security)
650 0 Computer networks $x Security measures.
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650 7 Ordinateurs $x Accès $x Contrôle. $2 ram
700 1 Cooper, Simon.
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776 08 $i Online version: $a Zwicky, Elizabeth D. $t Building Internet Firewalls. $b 2nd ed. $d Beijing ; Cambridge, Mass. : O'Reilly, ©2000 $w (OCoLC)606371541
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Attachment 1D

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670 __ |**a** Work cat.: Strebe, M. Firewalls, c2000.
670 __ |**a** Gonçalves, M. Firewalls complete, 1998.
670 __ |**a** Chapman, D. Building Internet firewalls, 1995.
670 __ |**a** Cheswick, W. Firewalls and Intranet security, 1994.
670 __ |**a** Pagan, K. Intranet firewalls, 1997.
670 __ |**a** Gonçalves, M. Protecting your Web sites with firewalls, 1997.
670 __ |**a** Hare, C. Internet firewalls and network security, 1996.
670 __ |**a** WWWebster |**b** (firewall: a computer or computer software that prevents unauthorized access to private data (as on a company's local area network or intranet) by outside computer users (as of the Internet))
906 __ |**t** 0015 |**u** te07 |**v** 0
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550 __ |**w** g |**a** Computer security

670 __ |**a** Work cat.: 94-1841: Lowe, S.J. Enterprisewide network security, c1994.

670 __ |**a** Engr. index: |**b** v. 89, pt. VI, p. 2276, under Computer network security (Computer networks--Security systems)

670 __ |**a** LC database, 2/3/94 |**b** (Computer network security; Computer and network security; Security mechanisms for computer networks)

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Public Catalog

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Search Request: Left Anchored Title = building internet firewalls
Search Results: Displaying 17 of 17 entries

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Labeled View

Building Internet firewalls / Elizabeth D. Zwicky, Simon Cooper & D. Brent...

Type of Work: Text
Registration Number / Date: TX0005317051 / 2000-12-21
Title: Building Internet firewalls / Elizabeth D. Zwicky, Simon Cooper & D. Brent Chapman.
Edition: 2nd ed.
Imprint: Sebastopol, CA : O'Reilly, c2000.
Description: 869 p.
Copyright Claimant: O'Reilly & Associates, Inc.
Date of Creation: 2000
Date of Publication: 2000-06-23
Basis of Claim: New Matter: updating.
Names: Zwicky, Elizabeth D.
Cooper, Simon
Chapman, D. Brent
O'Reilly & Associates, Inc.

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245 10 Net worth :|bshaping markets when customers make the rules
       /|cJohn Hagel III, Marc Singer.
260    Boston :|bHarvard Business School Press,|cc1999.
300    xx, 313 p. :|bill. ;|c25 cm
504    Includes bibliographical references (p. 285-291) and
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650  0 Privacy, Right of.
650  0 Online information services.
700 1  Singer, Marc.
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Attachment 2B

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8 of 55

BOOK

Net worth : shaping markets when customers make the rules

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245	10	|**a** Net worth : |**b** shaping markets when customers make the rules / |**c** John Hagel III, Marc Singer.
260	__	|**a** Boston : |**b** Harvard Business School Press, |**c** c1999.
300	__	|**a** xx, 313 p. : |**b** ill. ; |**c** 24 cm.
504	__	|**a** Includes bibliographical references (p. 285-291) and index.
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650	_0	|**a** Consumers |**x** Information services.

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BLvl	m	**Form**		**Conf**	0	**Biog**		**MRec**				**Ctry**	mau
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010 98043263
040 DLC $b eng $c DLC $d BAKER $d NLGGC $d BTCTA $d LVB $d YDXCP $d UQ1 $d ZWZ $d SXC $d DEBBG $d Z87 $d TULIB $d BDX $d OCLCF $d OCLCO $d OCLCQ $d LTU $d OCLCQ $d DEBSZ $d OCLCQ $d CNGUL $d CNUTO $d SNC $d OCLCQ $d OCLCO $d ICN $d OCLCQ $d CSA $d OCLCO $d OCLCQ $d CPO $d OCLCO $d NAM $d NJR $d CRU $d QE2 $d CEF $d AU@ $d FSP $d DXU $d OCLCQ $d OCLCO $d UWO $d OCLCA $d IL4J6 $d OCLCO $d UKMGB $d OCLCO $d OKS $d OCLCO $d SAR $d OCLCO
016 7 011380396 $2 Uk
019 505064539
020 0875848893 $q (alk. paper)
020 9780875848891 $q (alk. paper)
020 0585118523
020 9780585118529
050 00 HF5415.124 $b .H33 1999
082 00 658.8/00285/4678 $2 21
084 85.40 $2 bcl
084 G301 $2 clc
084 TP391 $2 clc
084 QP 620 $2 rvk
090 $b
100 1 Hagel, John.
245 10 Net worth : $b shaping markets when customers make the rules / $c John Hagel III, Marc Singer.
260 Boston : $b Harvard Business School Press, $c ©1999.
300 xx, 313 pages : $b illustrations ; $c 24 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
504 Includes bibliographical references (pages 285-291) and index.
520 Hagel and Singer describe the role of infomediaries, companies that act as a go-between for customers and sellers.
505 0 The New Infomediaries -- Seller Beware -- An Agent for the Rest of Us -- Promising Markets -- Who Can Play? -- Entry Strategies -- Stage One: Building the Profile -- Stage Two: Spinning a Web -- Stage Three: Playing the Spider's Role -- The Economics of Infomediation -- The Informediation Of Markets -- The Unraveling of the Firm -- Reverse Markets -- Consumer Unbound -- The Technology Tool Kit.
650 0 Infomediaries.
650 0 Consumers $x Information services.
650 0 Privacy, Right of.
650 0 Online information services.

650 6 Infomédiaires. $0 (CaQQLa)201-0320003
650 6 Consommateurs $x Services d'information. $0 (CaQQLa)201-0320001
650 6 Droit à la vie privée. $0 (CaQQLa)201-0009002
650 6 Serveurs (Informatique) $0 (CaQQLa)201-0274503
650 7 Consumers $x Information services. $2 fast $0 (OCoLC)fst00876420
650 7 Infomediaries. $2 fast $0 (OCoLC)fst00972516
650 7 Online information services. $2 fast $0 (OCoLC)fst01045954
650 7 Privacy, Right of. $2 fast $0 (OCoLC)fst01077444
650 7 Kundenmanagement $2 gnd $0 (DE-588)4236865-0
650 17 Informatievoorziening. $2 gtt
650 17 Klantenservice. $2 gtt
650 17 Internet. $2 gtt
650 7 Customer services $x Management $x Data processing. $2 nli
650 7 Privacy, Right of. $2 nli
650 7 Marketing $x Data processing. $2 nli
650 7 Infomediaries. $2 nli
650 7 Commerce électronique. $2 ram
650 7 Marketing sur Internet. $2 ram
650 7 Relations avec la clientèle. $2 ram
650 7 Consommateurs $x Préférences. $2 ram
650 7 Satisfaction du consommateur. $2 rasuqam
650 7 Cybermarketing. $2 rasuqam
650 7 Commerce électronique de détail. $2 rasuqam
650 7 Infomédiation. $2 rasuqam
650 17 Infomédiaire. $2 rasuqam
700 1 Singer, Marc.
856 41 $3 Table of contents $u http://digitool.hbz-nrw.de:1801/webclient/DeliveryManager?pid=1185386&custom_att_2=simple_viewer

Attachment 2D

LC control no.: sh 98006748

LCCN Permalink: https://lccn.loc.gov/sh98006748

HEADING: Infomediaries

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001 4896890

005 20120402075512.0

008 981015i| anannbabn |a ana

010 __ |**a** sh 98006748

035 __ |**a** (DLC)sh 98006748

035 __ |**a** (DLC)243575

040 __ |**a** DLC |**c** DLC

150 __ |**a** Infomediaries

450 __ |**a** Infomediary business

450 __ |**a** Information intermediaries

550 __ |**w** g |**a** Consumers |**x** Information services

550 __ |**w** g |**a** Online information services industry

670 __ |**a** Work cat.: 98-43263: Hagel, J. Net worth : shaping markets when customers make the rules, 1999 |**b** (Infomediaries; Infomediary business; information intermediary)

670 __ |**a** McKinsey Quarterly, n. 3, 1997: |**b** Hagel, J. The coming battle for customer information (Infomediaries; Infomediary business)

670 __ |**a** McKinsey Quarterly, n. 4, 1997: |**b** Hagel, J. The new infomediaries (Infomediaries)

670 __ |**a** Planning Review, v. 20, n. 5, Sept./Oct., 1992: |**b** Meyer, C. 2020 vision (Infomediaries)

670 __ |**a** ABI/Inform, Oct. 15, 1998 |**b** (Infomediaries)

680 __ |**i** Here are entered works on agents who help to capture and manage information about customers in an online environment and to use this information for commercial purposes.

906 __ |**t** 9845 |**u** te04 |**v** 1

952 __ |**a** 0 bib. record(s) to be changed

953 __ |**a** se35

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Attachment 2E

LC control no.: sh 98006962
LCCN Permalink: https://lccn.loc.gov/sh98006962
HEADING: Consumers Information services

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001 4897062
005 20110729141641.0
008 981023|| anannbabn |n ana
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035 __ |**a** (DLC)sh 98006962
035 __ |**a** (DLC)243747
040 __ |**a** DLC |**c** DLC |**d** DLC
150 __ |**a** Consumers |**x** Information services
906 __ |**t** 9845 |**u** te04 |**v** 1
953 __ |**a** te07

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Attachment 2F

LC control no.: sh 85107029

LCCN Permalink: https://lccn.loc.gov/sh85107029

HEADING: Privacy, Right of

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035 __ |**a** (DLC)7056198
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040 __ |**a** DLC |**c** DLC |**d** DLC |**d** MoSU-L |**d** CLU
053 _0 |**a** JC596 |**b** JC596.2 |**c** Political theory
150 __ |**a** Privacy, Right of
450 __ |**a** Invasion of privacy
450 __ |**a** Privacy, Right of |**x** Law and legislation
450 __ |**a** Right of privacy
550 __ |**w** g |**a** Civil rights
550 __ |**w** g |**a** Libel and slander
550 __ |**w** g |**a** Personality (Law)
550 __ |**w** g |**a** Press law
550 __ |**a** Computer crimes
550 __ |**a** Confidential communications
550 __ |**a** Data protection |**x** Law and legislation
550 __ |**a** Right to be forgotten
550 __ |**a** Secrecy |**x** Law and legislation
906 __ |**t** 0704 |**u** te04 |**v** 0
910 __ |**a** Proposal saved by tc03 on 08/24/2015 at 14:23:10
952 __ |**a** Addition of reciprocal 550 RT for the heading in new SACO proposal: Right to be forgotten
953 __ |**a** xx00 |**b** ym84
906 __ |**t** 1510 |**v** 0

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Attachment 2G

LC control no.: sh 95004892
LCCN Permalink: https://lccn.loc.gov/sh95004892
HEADING: Online information services

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001 4868877
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035 __ |**a** (DLC)334537
040 __ |**a** DLC |**c** DLC |**d** DLC
053 _0 |**a** QA76.55 |**b** QA76.57 |**c** Computer science
150 __ |**a** Online information services
450 __ |**a** Electronic information services
450 __ |**a** On-line information services
450 __ |**a** Online services (Information services)
550 __ |**w** g |**a** Information services
670 __ |**a** Work cat.: 95-24054: Sagman, S.W. Traveling the Microsoft Network.
670 __ |**a** MAGS file |**b** (subject: Online information services)
670 __ |**a** NY Times, 5/30/95 |**b** (on-line information services)
670 __ |**a** LC database, Sept. 9, 2005. |**b** (Electronic information services)
675 __ |**a** Hennepin
906 __ |**t** 0541 |**u** te04 |**v** 0
952 __ |**a** 0 bib. record(s) to be changed
953 __ |**a** ta25 |**b** ta27

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Public Catalog

Copyright Catalog (1978 to present) at DC4
Search Request: Left Anchored Name = Hagel John
Search Results: Displaying 6 of 13 entries

previous next

Labeled View

Net worth : shaping markets when customers make the rules / John Hagel III,...

Type of Work: Text
Registration Number / Date: TX0004956371 / 1999-03-25
Title: Net worth : shaping markets when customers make the rules / John Hagel III, Marc Singer.
Imprint: Boston : Harvard Business School Press, c1999.
Description: 313 p.
Copyright Claimant: McKinsey and Company, Inc.
Date of Creation: 1998
Date of Publication: 1999-03-15
Variant title: Net worth : shaping markets when customers make the rules
Names: Hagel, John 3rd, 1950-
Singer, Marc, 1964-
McKinsey and Company, Inc.

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Attachment 3A

Publication Process

The RFC publication process includes the stages described below. See the process flowchart here.

- RFC Submission Process

- RFC Editing Process
- Authors' Final Review
- Publication
- Copyright Notice and Legend

All RFCs are first published as Internet-Drafts (I-Ds). **All RFCs have been I-Ds, but not all I-Ds become RFCs.**

A well-formed RFC starts with a well-formed Internet-Draft. Please see the Internet-Drafts page on the IETF site for policy and submission guidelines, as it is authoritative regarding Internet-Drafts. In addition, we recommend the following for authors.

- Use **formatting tools** to create an Internet-Draft.
- Use the **Internet-Draft Submission Tool** to submit an I-D.
- Refer to the **RFC Style Guide** for details on formatting and style conventions.

RFC Submission Process

RFCs from the IAB

The IAB processes their documents as described in RFC 4845.

RFCs from the IETF

All RFCs in a Standards Track or Best Current Practice (BCP) category, as well as some Informational and Experimental RFCs, originate within the IETF process and reach the RFC Editor through the IESG. Members of the IESG include the IETF Area Directors (ADs), who are responsible for sets of related working groups. These working groups develop documents that may be approved for publication as RFCs by the ADs with IESG concurrence.

RFCs from the IRTF

The IRTF processes their documents as described in RFC 5743.

Independent Submissions

Anyone can write an Internet-Draft and independently submit it to the Independent Submissions Editor (ISE) for possible publication as an RFC (Informational, Experimental, and Historic categories only). It will be reviewed for technical competence, relevance, and adequate writing. It will also be reviewed by the ISE and by the IESG for possible conflict with the IETF process. If selected for publication, the submission will enter the RFC Editor's publication queue.

An independent submission must first be published as an Internet-Draft. Please see the instructions on the Independent Submissions page regarding submission.

RFC Editing Process

The RFC Editor maintains a list of documents in the editorial process. Since documents are processed in roughly FIFO order, this list is called the publication queue.

Each document in the queue is assigned to a *state* that tracks its progress. The **state diagram** shows the overall publication process.

Whenever a document enters the editorial queue, changes its state in the queue, or leaves the queue, an automatic email message summarizing the state change is sent to the authors. This message is for information only; it does not replace existing messages to authors, such as AUTH48 messages.

Here are the details of how we update your source file, and here are some important notes on the process.

- IANA processing generally takes place in parallel with editing, but occasionally a document can be held up a long time in IANA state (through no fault of IANA).
- A document A that has a normative reference to a document B that is not yet in the queue will be held at MISSREF state (perhaps a very long time) until B enters the queue. Once A and B are both in the queue, they will both be edited. For various reasons, this editing may require different times. A will be held in REF state, if necessary, until B's editing is complete, so that A and B will enter the final quality-control state RFC-EDITOR, together. Collections of 5 or more documents linked by such normative references are not unusual.
- IETF working groups sometimes submit sets of

documents that should be published together although they are not explicitly coupled by normative references. (Ideally, such document sets would be visible in the queue; we are working on that). A document that belongs to such an implicit set may be held (perhaps a long time) in RFC-EDITOR state, until the entire set has entered RFC-EDITOR state.
- Editing sometimes raises issues that lead to technical discussions involving the working group and an Area Director. If the delay is significant, the document is put into IESG state until the issue is resolved.
- A document may occasionally “fall out” of the queue at any time, e.g., because a working group, an author, or an Area Director requests that it be withdrawn.

Authors’ Final Review (AUTH48 State)

Once an RFC has been edited and is ready for publication, the author(s) are given “48 hours” (in practice, this often stretches over weeks) to look over their document for errors, editorial and otherwise. We DO NOT make changes to RFCs once they have been published, so please look over your document carefully. Upon approval by all authors, the RFC will be published.

The AUTH48 notification message sent to authors asks that they review the entire document, paying particular attention to:

- IANA considerations updates (if applicable),
- contact information, and
- references.

All AUTH48 messages will be CCed to auth48archive@rfc-editor.org, the archival mailing list that preserves the AUTH48 conversation. The auth48archive list is **not** an active discussion list.

Note: If absolutely necessary, authors may temporarily opt out of the archiving of messages (e.g., to discuss a sensitive matter). If opting out, authors should add a note to the top of the message that indicates the auth48archive@rfc-editor.org has been dropped. When the discussion is concluded, the archive will be re-added to the CC list and its addition will

be noted at the top of the message.

See the general AUTH48 process described here.

If an author is no longer available, there are several options (as listed in the FAQ). Indefinite delays are not allowed, but when there is a choice, the RFC Editor would in general prefer to publish it right than to publish it early.

See the AUTH48 FAQ for more information.

Publication

When an RFC is published, an announcement is sent to ietf-announce and rfc-dist mailing lists. The URL for the info page of an RFC is of the form: https://www.rfc-editor.org/info/rfcXXXX. The most recently published RFCs are listed here.

Copyright Notice and Legend

The IETF Trustee License Information page summarizes the current rules governing RFC copyrights and disclaimers on patent (“Intellectual Property”) rights, as of 10 November 2008.

Attachment 3B

OCLC 37343206 **No holdings in XXX - no other holdings**

Computer Files

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050 4 TK5105.875.I57 $b I555
090 $b
245 00 Internet documentation (RFC's, FYI's, etc.) and IETF information.
256 Electronic data.
260 [Place of publication not identified] : $b InterNIC
538 Mode of access: Internet via World Wide Web.
516 Text (Hypertext links).
520 This web site maintains several archives that contain documents related to the Internet and to the activities of the Internet Engineering Task Force.
588 0 Printout of online display; title from home page screen.
650 0 Internet.
650 0 TCP/IP (Computer network protocol)
650 6 Internet. $0 (CaQQLa)201-0235884
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650 7 Internet. $2 aat $0 (CStmoGRI)aat300265429
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650 7 TCP/IP (Computer network protocol) $2 fast $0 (OCoLC)fst01141584
710 2 Internet Engineering Task Force.
856 4 $u http://ds.internic.net/ds/dspg0intdoc.html

Attachment 3C

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035 __ |**a** (DLC)sp 92002816

035 __ |**a** (DLC)258300

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** HM851 |**c** Sociology

053 _0 |**a** TK5105.875.I57 |**c** Telecommunication

053 _0 |**a** ZA4195 |**b** ZA4201 |**c** Information resources

150 __ |**a** Internet

450 __ |**a** DARPA Internet

450 __ |**w** nne |**a** Internet (Computer network)

550 __ |**w** g |**a** Wide area networks (Computer networks)

550 __ |**a** World Wide Web

670 __ |**a** Work cat.: 92016450: Malamud, C. Exploring the Internet : a technical travelogue, c1993.

670 __ |**a** Quarterman, J.S. The Matrix, c1990: |**b** p. 278-345 (Internet is an internetwork of many networks all running the TCP/IP protocol suite, connected through gateways, and sharing common name and address spaces. It is large not only covering the United States, but also extending to Canada, Europe, and Asia)

670 __ |**a** Engr. index: |**b** v. 89, pt. VII, p. 5071.

670 __ |**a** Byte. Feb. 1992, "Applying the Internet": |**b** p. 111-118.

670 __ |**a** OCLC Micro: |**b** v. 6, No. 4, Aug. 1990, p. 36-37 (Internet is an interconnected set of networks that is primarily North American in origin and use, but is increasingly developing connections to worldwide information resources. It started with ARPAnet, a wide-area experimental network connecting host and terminal servers)

670 __ |**a** 94234135: Brown, S. The Internet via Mosaic and World Wide Web, c1994 |**b** (Although the World Wide Web is primarily used on a global scale as a part of the Internet, it is feasible for a two-machine network to run the WWW client/server software. Many corporations are looking into WWW as an inexpensive yet up-to-date method of handling hypermedia applications on a local area network.)

675 __ |**a** ASTI; |**a** Hennepin; |**a** IAC; |**a** McGraw-Hill dict. sci. tech.; |**a** Random House; |**a** Web. 3

906 __ |**t** 0019 |**u** te07 |**v** 0

910 __ |**a** Record saved by td04 on 09/23/2016 at 06:59:08

952 __ |**a** LC pattern: World Wide Web

953 __ |**a** fg11 |**b** ta25

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Attachment 3D

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035 __ |**a** (DLC)186925

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053 _0 |**a** TK5105.585

150 __ |**a** TCP/IP (Computer network protocol)

450 __ |**a** TCP/IP Internet Protocol Suite (Computer network protocol)

450 __ |**a** Transmission Control Protocol/Internet Protocol (Computer network protocol)

550 __ |**w** g |**a** Computer network protocols

670 __ |**a** Work cat.: Comer, D. Internetworking with TCP/IP, c1991: |**b** p. 2 ("The DARPA technology includes a set of network standards that specify the details of how computers communicate, as well as a set of conventions for interconnecting networks and routing traffic. Officially named the TCP/IP Internet Protocol Suite and commonly referred to as TCP/IP (after the names of its two main standards) ...")

670 __ |**a** Personal communication, E. El-Hoshy, 10/8/91 |**b** (TCP/IP stands for Transmission Control Protocol/Internet Protocol)

906 __ |**t** 9145 |**u** fk03 |**v** 0

952 __ |**a** Made for existing bibliographic records

952 __ |**a** LC pattern: Futurebus+ (Computer network protocol)

953 __ |**a** fj25 |**b** jf08

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250    ##$a2nd ed.
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264    #4$c©1999
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336    ##$atext $btxt $2rdacontent
337    ##$aunmediated $bn $2rdamedia
338    ##$avolume $bnc $2rdacarrier
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650    #7$aInternet advertising $xRates. $2fast $0(OCoLC)fst00977225
650    #4$aInternet advertising.
655    #7$aDirectories. $2fast $0(OCoLC)fst01423796
700    1#$aAronson, Brad. $0(DLC)n  97100502
907    ##$a.b2337455x $b04-05-11 $c12-14-00
944    ##$aMARCIVE Authority Processing $b202308
945    ##$g1 $h0 $iu184020507739 $j0 $lms    $on $p$0.00 $q- $r- $s-
$t0 $u7 $v3 $w0 $x0 $y.i30047869 $z04-18-01
970    01$tAcknowledgments
970    11$lCh. 1 $tThe Internet Advertising Landscape $p1
970    11$lCh. 2 $tOnline Ad Models $p23
970    11$lCh. 3 $tInternet Direct Marketing $p69
970    11$lCh. 4 $tThe Art and Science of Web Measurement $p95
970    11$lCh. 5 $tAd Management $p121
```

970 11$lCh. 6 $tTargeting - The Online Advertising Advantage $p133
970 11$lCh. 7 $tPricing Online Ads $p153
970 11$lCh. 8 $tMarket Research - Information Is Your Competitive Advantage $p179
970 11$lCh. 9 $tBuying Online Ads $p203
970 11$lCh. 10 $tSelling Online Advertising $p225
970 11$lCh. 11 $tGoing Local $p257
970 11$lCh. 12 $tInternational Online Advertising $p281
970 11$lCh. 13 $tLegal Issues Every Internet Advertiser Should Know $p305
970 11$lCh. 14 $tThe Internet Advertising Convergence $p317
970 11$tHow to Advertise for Free or Almost Free $cEric Ward $fWard, Eric $p327
970 01$tAppendix: Resource Directory
970 01$tGlossary $p411
970 01$tIndex $p417
970 01$tAbout the Authors $p435
994 ##$aE0 $bCOF
998 ##$ams $b04-18-01 $cn $d- $e- $feng $gnyu $h0 $i1
998 ##$b1 $c010418 $dz $e- $f- $g0

Attachment 4B

LIBRARY | CATALOG

Search Navigation 2 of 7

BOOK

Advertising on the Internet

Full Record **MARC Tags**

000	01487cam a2200361 a 4500	
001	4994807	
005	20040622191528.0	
008	990217s1999 nyua r 001 0 eng	
035	__	|**9** (DLC) 99021722
906	__	|**a** 7 |**b** cbc |**c** orignew |**d** 1 |**e** ocip |**f** 19 |**g** y-gencatlg
925	0_	|**a** acquire |**b** 2 shelf copies |**x** policy default
955	__	|**a** pc19 to sa00 02-18-99; sc17 02-19-99; sc02 to DDC 02-22-99; bk rec'd to CIP ver. ps07 08-30-99; CIP ver. se45 09-14-99; se50; to BCCD 09-15-99; se03; to BCCD 11-23-99
010	__	|**a** 99021722
020	__	|**a** 0471344044 (pbk./website : alk. paper)
040	__	|**a** DLC |**c** DLC |**d** DLC
050	00	|**a** HF6146.I58 |**b** Z43 1999
082	00	|**a** 658.8/0025/4678 |**2** 21
100	1_	|**a** Zeff, Robbin Lee.
245	10	|**a** Advertising on the Internet / |**c** Robbin Zeff, Brad Aronson.
250	__	|**a** 2nd ed.
260	__	|**a** New York : |**b** Wiley, |**c** c1999.
300	__	|**a** xii, 434 p. : |**b** ill ; |**c** 24 cm.
500	__	|**a** "Wiley Computer Publishing."
500	__	|**a** Includes index.
650	_0	|**a** Internet advertising.

650	_0	|**a** Internet advertising |**v** Directories.
650	_0	|**a** Internet advertising |**x** Computer network resources.
650	_0	|**a** Internet advertising |**x** Rates.
700	1_	|**a** Aronson, Brad.
856	42	|**3** Contributor biographical information |**u** http://www.loc.gov/catdir/bios/wiley045/99021722.html
856	42	|**3** Publisher description |**u** http://www.loc.gov/catdir/description/wiley039/99021722.html
856	4_	|**3** Table of Contents |**u** http://www.loc.gov/catdir/toc/onix06/99021722.html
984	__	|**a** gsl

Request this Item

LC Find It

Item Availability

CALL NUMBER	HF6146.I58 Z43 1999 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

CALL NUMBER	HF6146.I58 Z43 1999 CABIN BRANCH Copy 1
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

Attachment 4C

OCLC 40848669 **No holdings in XXX - 394 other holdings**

Books

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015 GB99Y8800 $2 bnb
016 7 008066752 $2 Uk
019 40882659 $a 1191284771 $a 1200987715 $a 1201856644 $a 1201987450
020 0471344044 $q (pbk. /website ; $q alk. paper)
020 9780471344049 $q (pbk. /website ; $q alk. paper)
050 00 HF6146.I58 $b Z43 1999
060 4 658.80025 Z43a
082 00 658.8/0025/4678 $2 21
082 04 658.8/00285/4678 $2 21
084 85.40 $2 bcl
084 F713.8 $2 clc
084 TP393 $2 clc
090 $b
100 1 Zeff, Robbin Lee.
245 10 Advertising on the Internet / $c Robbin Zeff, Brad Aronson.
250 2nd ed.
260 New York : $b Wiley, $c ©1999.
300 xii, 434 pages : $b illustrations ; $c 24 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 "Wiley Computer Publishing."
500 Includes index.
505 0 Ch. 1. The Internet Advertising Landscape -- Ch. 2. Online Ad Models -- Ch. 3. Internet Direct Marketing -- Ch. 4. The Art and Science of Web Measurement -- Ch. 5. Ad Management -- Ch. 6. Targeting -- The Online Advertising Advantage -- Ch. 7. Pricing Online Ads -- Ch. 8. Market Research -- Information Is Your Competitive Advantage -- Ch. 9. Buying Online Ads -- Ch. 10. Selling Online Advertising -- Ch. 11. Going Local -- Ch. 12. International Online Advertising -- Ch. 13. Legal Issues Every Internet Advertiser Should Know -- Ch. 14. The Internet Advertising Convergence -- How to Advertise for Free or Almost Free / Eric Ward.
540 Current Copyright Fee: GBP32.00 $c 0. $5 Uk

520 How today's most successful online advertisers and marketers maximize their online presence, and how you can too This updated and expanded Second Edition of the bestselling guide to online advertising is must reading for everyone who wants to take advantage of the most important new advertising medium since television. A complete primer on online advertising for businesses of all sizes, it gets you up to speed on the crucial issues, hot new trends, and most effective new technologies in Internet advertising. Loaded with examples of some of today's most successful online advertising and marketing initiatives, it gives you the inside track on: Successful online ad models Market research online Direct marketing, including opt-in e-mail, promotions, and sweepstakes Targeting and personalization Internet advertising management tools Traffic measurement and gauging the effectiveness of your ads Buying and selling ads on your Web site Advertising locally Advertising to an international market Legal aspects of Internet advertising How to advertise for free, or almost free (contributed by Eric Ward, the father of grassroots advertising strategies) On the companion Web site at www wiley.com/compbooks/zeff you'll find: Links to additional training and tool resources.
650 0 Internet advertising.
650 0 Internet advertising $v Directories.
650 0 Internet advertising $x Computer network resources.
650 0 Internet advertising $x Rates.
650 6 Publicité sur Internet. $0 (CaQQLa)201-0275046
650 6 Publicité sur Internet $0 (CaQQLa)201-0275046 $v Répertoires. $0 (CaQQLa)201-0378054
650 6 Publicité sur Internet $0 (CaQQLa)201-0275046 $x Information électronique. $0 (CaQQLa)201-0381070
650 6 Publicité sur Internet $0 (CaQQLa)201-0275046 $x Tarifs. $0 (CaQQLa)201-0380447
650 7 Internet advertising $2 fast $0 (OCoLC)fst00977220
650 7 Internet advertising $x Computer network resources $2 fast $0 (OCoLC)fst00977221
650 7 Internet advertising $x Rates $2 fast $0 (OCoLC)fst00977225
650 7 Electronic Commerce $2 gnd $0 (DE-588)4592128-3
650 7 Werbung $2 gnd $0 (DE-588)4065541-6
650 7 Internet $2 gnd $0 (DE-588)4308416-3
650 17 Marketing. $2 gtt
650 17 Internet. $2 gtt
650 7 Internet advertising. $2 nli
650 7 Internet advertising $v Directories. $2 nli
655 2 Directory $0 (DNLM)D016435
655 7 directories. $2 aat $0 (CStmoGRI)aatgf300026234
655 7 Directories $2 fast $0 (OCoLC)fst01423796
655 7 Directories. $2 lcgft
655 7 Répertoires. $2 rvmgf $0 (CaQQLa)RVMGF-000001216
700 1 Aronson, Brad.
758 $i has work: $a Advertising on the Internet (Text) $1 https://id.oclc.org/worldcat/entity/E39PCGXVWFMbGry9XhkQY4PwBX $4 https://id.oclc.org/worldcat/ontology/hasWork
856 41 $3 Table of contents $u http://catdir.loc.gov/catdir/toc/onix06/99021722.html
856 42 $3 Contributor biographical information $u http://catdir.loc.gov/catdir/bios/wiley045/99021722.html
856 42 $3 Publisher description $u http://catdir.loc.gov/catdir/description/wiley039/99021722.html

Attachment 4D

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008 940923i| anannbabn |a ana

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035 __ |**a** (DLC)sh 94006992

035 __ |**a** (DLC)209311

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053 _0 |**a** HF6146.I58

150 __ |**a** Internet advertising

550 __ |**w** g |**a** Advertising

550 __ |**w** g |**a** Electronic commerce

670 __ |**a** Work cat.: 94-24226: Canter, L.A. How to make a fortune on the information superhighway, c1995.

670 __ |**a** BPI |**b** (Internet advertising)

906 __ |**t** 9635 |**u** te07 |**v** 1

952 __ |**a** LC pattern: Television advertising

953 __ |**a** se55 |**b** se35

Save, Print or Email Records (View Help)

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

Email Text (Labelled Display) to:

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

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

URL: https://catalog.loc.gov/

Questions, comments, error reports: Contact Us

Attachment 4E

LC control no.: sh 85038267

LCCN Permalink: https://lccn.loc.gov/sh85038267

HEADING: Directories

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001 4690294

005 20120323072302.0

008 860211|| anannbabn |a ana

010 __ |**a** sh 85038267

035 __ |**a** (DLC)sh 85038267

035 __ |**a** (DLC)36979

040 __ |**a** DLC |**c** DLC |**d** DLC

053 _0 |**a** AY2001

150 __ |**a** Directories

360 __ |**i** subdivision |**a** Directories |**i** under names of countries, cities, etc., individual corporate bodies and families, and under classes of persons, ethnic groups, Christian denominations, types of organizations, and topical headings for individual directories containing names, addresses, and other identifying data

550 __ |**w** g |**a** Reference books

680 __ |**i** Here are entered general works on the history and description of directories and directory-making.

906 __ |**t** 9739 |**u** te07 |**v** 0

953 __ |**a** xx00 |**b** lj07

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

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

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

Questions, comments, error reports: Contact Us

Attachment 4F

LC control no.: sh 95000713

LCCN Permalink: https://lccn.loc.gov/sh95000713

HEADING: Computer network resources

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001 4865561

005 20120330082254.0

008 950130i| anannbabn |a ana

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035 __ |**a** (DLC)5654145

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035 __ |**a** (DLC)291825

035 __ |**a** (DLC)6594420

035 __ |**a** (DLC)331711

035 __ |**a** (DLC)6903453

035 __ |**a** (DLC)345177

040 __ |**a** DLC |**c** DLC |**d** DLC |**d** WaU |**d** DLC

150 __ |**a** Computer network resources

360 __ |**i** subdivision |**a** Computer network resources |**i** under subjects

450 __ |**a** Internet resources

450 __ |**a** Remote access electronic resources

450 __ |**a** Remote electronic resources

450 __ |**a** Resources, Computer network

550 __ |**w** g |**a** Electronic information resources

550 __ |**a** Uniform Resource Identifiers

670 __ |**a** Work cat.: 95002183: Rosenfeld, L. Internet compendium subject guides to social sciences, business and law resources, 1995.

670 __ |**a** Source of title note for Internet resources, 2005, via WWW, July 24, 2005 |**b** (remote access electronic resources)

670 __ |**a** ISBD(ER) : International Standard Bibliographic Description for Electronic Resources, via WWW, July 24, 2005: |**b** introd. (remote electronic resources on the Internet and World Wide Web)

670 __ |**a** Cataloging remote electronic resources (monographic & integrating) in Unicorn, via WWW, July 24, 2005

680 __ |**i** Here are entered works on computer network resources available for research in various fields. Works on using the Internet to conduct research are entered under |**a** Internet research. |**i** Works on using various Internet tools and search engines effectively to find information are entered under |**a** Internet searching.

681 __ |**i** Notes under |**a** Internet research; Internet searching

906 __ |**t** 0632 |**u** te04 |**v** 1

952 __ |**a** LC pattern: Archival resources

952 __ |**a** 0 bib. records to be changed

953 __ |**a** se01 |**b** ta21

Previous Next

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Press to SEND EMAIL

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

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/

Questions, comments, error reports: Contact Us

Attachment 4G

LC control no.: sh 87005259

LCCN Permalink: https://lccn.loc.gov/sh87005259

HEADING: Rates

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001 4810444

005 20110729124723.0

008 870820n| bnannbbbn |n ann

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035 __ |**a** (DLC)157129

040 __ |**a** DLC |**c** DLC |**d** DLC

150 __ |**a** Rates

260 __ |**i** subdivision |**a** Rates |**i** under types of services, utilities, transportation systems, etc. for prices charged for services provided or items sold according to a specific ratio, scale, or standard

906 __ |**t** 9236 |**u** te05 |**v** 0

953 __ |**a** fj26 |**b** yn47

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Attachment 7A

OCLC 43244871 **No holdings in XXX - 20 other holdings**

Books

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

040 UPM $b eng $c UPM $d E#S $d BAKER $d OCLCQ $d CQ# $d OCLCQ $d OCLCF $d OCLCQ $d OCLCO $d OCL $d OCLCA $d OCLCQ $d OCLCO $d OCLCQ
020 0738116580 $q (paperback)
020 9780738116587 $q (paperback)
050 4 TK5105.7 $b 1999
082 04 004.6/8 $q OCoLC $2 20/eng/20230216
090 $b
245 00 Information technology -- telecommunications and information exchange between systems -- local and metropolitan area networks -- specific requirements : $b part 11 : wireless LAN medium access control (MAC) and physical layer (PHY) specifications / $c sponsor, LAN MAN Standards Committee of the IEEE Computer Society.
246 30 Wireless LAN medium access control (MAC) and physical layer (PHY) specifications
250 1st ed.
260 New York, NY : $b Institute of Electrical and Electronics Engineers, $c 1999.
300 xvi, 512 pages : $b illustrations ; $c 30 cm + $e 1 computer disc (3 1/2 in.).
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
490 1 International standard ; $v ISO/IEC 8802-11:1999(E)
500 "Adapted as an international standard by the International Organization for Standardization and by the International Electrotechnical Commission."
504 Includes bibliographical references.
538 System requirements for accompanying disk: IBM-PC or compatible.
530 Also issued online with additional title: ISO/IEC 8802-11; ANSI/IEEE Std 802.11, 1999 edn.
520 The medium access control (MAC) and physical characteristics for wireless local area networks (LANs) are specified in this standard, part of a series of standards for local and metropolitan area networks. The medium access control unit in this standard is designed to support phsical layer units as they may be adopted dependent on the availability of spectrum. This standard contains three physical layer units: two radio units, both operating in the 2400-2500 MHz band, and one baseband infrared unit. One radio unit employs the frequency-hopping spread spectrum technique, and the other employs the direct sequence spread spectrum technique.
650 0 Local area networks (Computer networks) $x Standards.
650 0 Metropolitan area networks (Computer networks) $x Standards.
650 6 Réseaux locaux (Informatique) $0 (CaQQLa)201-0136535 $x Normes. $0 (CaQQLa)201-0373964
650 6 Réseaux métropolitains (Informatique) $0 (CaQQLa)201-0248513 $x Normes. $0 (CaQQLa)201-0373964
650 7 Local area networks (Computer networks) $x Standards. $2 fast $0 (OCoLC)fst01001222

650 7 Metropolitan area networks (Computer networks) $x Standards. $2 fast $0 (OCoLC)fst01018848
710 2 IEEE Computer Society. $b LAN/MAN Standards Committee.
710 2 Institute of Electrical and Electronics Engineers.
740 0 ISO/IEC 8802-11; ANSI/IEEE Std 802.11, 1999 edn.
830 0 International standard ; $v ISO/IEC 8802-11:1999(E)
856 41 $3 IEEE Xplore $u http://ieeexplore.ieee.org/servlet/opac?punumber=6467

Attachment 8A

LIBRARY | CATALOG

Search Navigation

2 of 132

BOOK

Harley Hahn's the Internet complete reference

Full Record MARC Tags

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020	__	|**a** 007882138X
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082	00	|**a** 004.6/7 |**2** 20
100	1_	|**a** Hahn, Harley, |**d** 1952-
245	10	|**a** Harley Hahn's the Internet complete reference.
246	30	|**a** Internet complete reference
250	__	|**a** 2nd ed.
260	__	|**a** Berkeley : |**b** Osborne McGraw-Hill, |**c** c1996.
300	__	|**a** xx1x, 802 p. : |**b** ill. ; |**c** 24 cm.
500	__	|**a** Rev. ed. of: The Internet complete reference. c1994.
500	__	|**a** Includes index.
650	_0	|**a** Internet |**v** Handbooks, manuals, etc.
700	1_	|**a** Hahn, Harley, |**d** 1952- |**t** Internet complete reference.
920	__	|**a** ** LC HAS REQ'D # OF SHELF COPIES **

922 __ |**a** co

991 __ |**b** c-GenColl |**h** TK5105.875.I57 |**i** H34 1996 |**p** 00035631161 |**t** Copy 1 |**w** BOOKS

991 __ |**b** r-N&CPR |**h** TK5105.875.I57 |**i** H34 1996 |**t** Copy 999 |**w** GenBib bi 96-018813

Request this Item

LC Find It

Item Availability

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Request in	Jefferson or Adams Building Reading Rooms
Status	Not Charged

Shelf Location	FLM2015 232009
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Request in	Jefferson or Adams Building Reading Rooms (FLM2)
Status	Not Charged

CALL NUMBER	TK5105.875.I57 H34 1996 Copy 999
Request in	Reference - Newspaper/Current Periodical RR (Madison, LM133)
Status	Not Charged

Attachment 8B

OCLC 34906376 **No holdings in XXX - 323 other holdings**

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		Cont	f	**GPub**		**LitF**	0	**Indx**	1				
Desc	a	**Ills**	a	**Fest**	0	**DtSt**	s	**Dates**	1996	,			

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015 GB9645204 $2 bnb
016 7 010036282 $2 Uk
019 34073840 $a 36122007 $a 850384161 $a 1054233721 $a 1167016164
020 007882138X
020 9780078821387
050 00 TK5105.875.I57 $b H34 1996
082 00 004.6/7 $2 20
084 54.32 $2 bcl
090 $b
100 1 Hahn, Harley, $d 1952-
245 10 Harley Hahn's the Internet complete reference.
246 30 Internet complete reference
250 2nd ed.
260 Berkeley : $b Osborne McGraw-Hill, $c ©1996.
300 xxx, 802 pages : $b illustrations ; $c 24 cm
336 text $b txt $2 rdacontent
337 unmediated $b n $2 rdamedia
338 volume $b nc $2 rdacarrier
500 Revised edition of: The Internet complete reference. c1994.
500 Includes index.
505 0 Understanding the Internet -- A tour of the Internet -- Hardware requirements to connect to the Internet -- Software requirements and Internet service providers -- Internet addressing -- Mail -- Using mail from a shell account: pine and pico -- Understanding the Web -- Using the Web -- The Web: advanced topics -- Using the Web from a shell account: lynx -- Introduction to Usenet -- Reading and posting Usenet articles -- Using Usenet from a shell account: tin -- Gopher, Veronica and Jughead -- Using Gopher from a shell account: gopher -- Anonymouse Ftp -- Using anonymous Ftp from a shell account: ftp -- Archie -- File types used on the Internet; downloading software -- Mailing lists -- Telnet: logging in to a remote computer -- Using Telnet from a shell account: telnet -- Talk facilities -- Using Talk from a shell account: talk, ytalk -- IRC (Internet Realay Chat) -- Muds.
630 04 Internet (Computer network).
650 0 Internet $v Handbooks, manuals, etc.
650 6 Internet. $0 (CaQQLa)201-0235884

650 7 Internet. $2 fast $0 (OCoLC)fst00977184
650 17 Internet. $2 gtt
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150 __ |**a** Internet |**v** Handbooks, manuals, etc.
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Edition: 2nd ed.
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